

HASCO®

Ermöglichen mit System.



HASCO®

K20/196x196x36/1.1730//0133518

High-grade steel

K

2021



**K-Programmerweiterung –
rund 1500 zusätzliche Varianten
erhöhen die Flexibilität**

- Modular aufgebautes Baukastensystem
- Planparallelität von 0,008/100 mm
- Hochpräzise Systembohrungen
 - auf Nennmaß gefertigt zum direkten Einsatz (K20/...)
 - mit Aufmaß für eine nachfolgende Wärmebehandlung (K252/...)
- Höchste Verfügbarkeit – tausende spannungsarme Platten ab Lager lieferbar

**Extension of the K range –
around 1500 new variants
to boost flexibility**

- Modular system
- Plane-parallelism of 0.008/100 mm
- High-precision system bores
 - manufactured to a nominal dimension for direct use (K20/...)
 - with an allowance for subsequent heat treatment (K252/...)
- Maximum availability – thousands of low-stress plates available from stock

www.hasco.com

HASCO[®]

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Ermöglichen mit System.

K

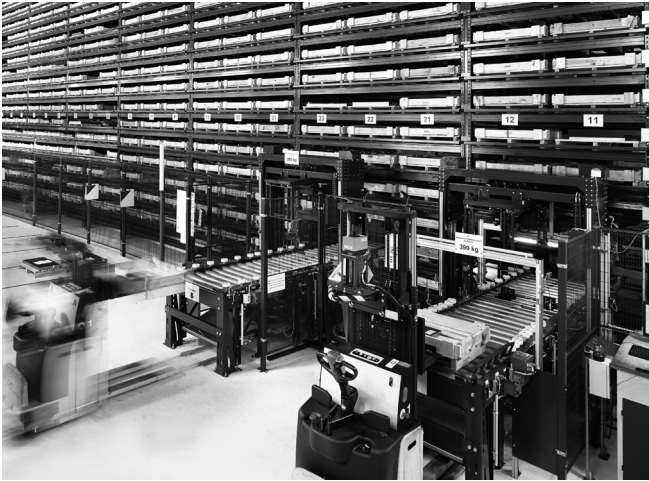
Kombinierbar nach dem
Baukastenprinzip

Can be modularly combined

Combinable selon le principe
modulaire



Unser Versprechen Our promise



Agilität

Wir erkennen und reagieren auf Ihre Bedürfnisse und die des Marktes.

Agility

We recognise and respond to your needs and those of the market.



Innovation

Wir arbeiten kontinuierlich an neuen Produkten und Services, um Ihr optimaler Entwicklungspartner zu sein.

Innovation

We work continuously on new products and services to be your optimum development partner.



Einfachheit

Wir ermöglichen Werkzeugbauern, Spritzgießern und Konstrukteuren den einfachsten Weg, Formen zu bauen.

Simplicity

We enable mouldmakers, injection moulders and designers the easiest way to build moulds.



Leistung

Unser gesamtes Handeln und Engagement gilt dem Erfolg unserer Kunden.

Performance

All our effort and commitment is focused to your success.



Formenbau beginnt mit HASCO.

Ermöglichen ist unsere Kernkompetenz.
Mit der Erfindung der Normalie haben wir internationale Standards definiert und den Formenbau revolutioniert.



K

K-Normalien, gebohrte, allseitig bearbeitete Platten mit hochpräzisen Führungssystemen, kombinierbar nach dem Baukastenprinzip.

K-Standards, plates with high-precision guiding systems for injection moulds can be modularly combined.

Mouldmaking starts with HASCO.

Enabling is our main area of expertise.
We define international standards and revolutionised mouldmaking with the invention of our standard mould base.



P

P-Normalien, ungebohrte, allseitig bearbeitete Platten für Formen und Werkzeuge.

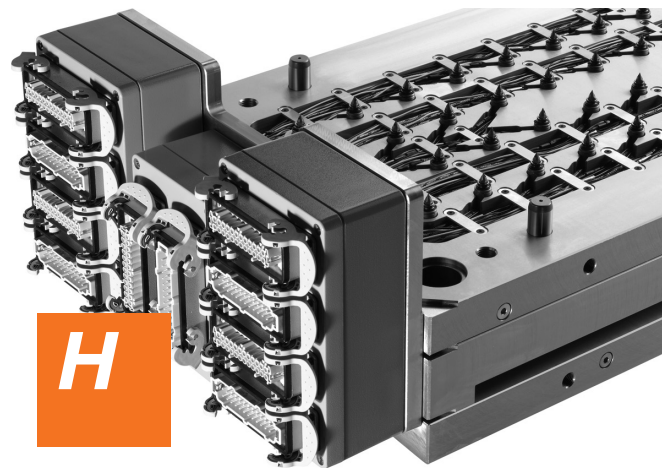
P-Standards, precision machined plates for moulds, tools, jigs and fixtures.



Z

Z-Normalien, einbaufertige Systemkomponenten für den Formenbau.

Z-Standards, ready-to-install system components for mouldmaking.



H

Heißkanalsysteme, Düsen- und Nadelventiltechnik, Regelgeräte.

Hot runner systems, nozzle and needle valve technology, control units.

Was können wir für Sie ermöglichen?

What can we enable for you?

K-Normalien
K-Standards
Standards K



Werkstoff-Spezifikationen
Material specifications
Spécifications des matériaux page / Seite 6



K-Normalien
K-Standards
Standards K page / Seite 9



- K5000/...
- Platten / Plates / Plaques
- "Z"
Zubehör für Werkzeugaufbauten
Components for mould base assemblies
Accessoires pour carcasses
- K2500/..., K2501/...
- KR/PR
- K3500/..., K3501/...
- K3600/...



A 8001 page / Seite 351

Spannvorrichtung
Clamping fixture
Dispositif se serrage



Werkstoff-Spezifikationen / Material specifications / Spécifications des matériaux

Werkstoffnr. Material no. N° de matériau	Richtanalyse Chemical composition Composition (%)	Festigkeit Strength Résistance	Eigenschaften Properties Propriétés	Farbcode Colour code Code couleur	Programm Product range Gamme de produits											
					P	P1	PR	P8000	F	K						
1.1730 C 45 U	<table border="1"> <tr> <td>C 0,45</td> <td>Si 0,3</td> <td>Mn 0,7</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	C 0,45	Si 0,3	Mn 0,7				max. 190 HB (~ 650 N/mm ²)	Unlegierter Werkzeugstahl Non-alloy mould steel Acier à outils au carbone	weiß white blanc P8000 grün/gelb green/yellow vert/jaune	X	X		X	X	X
C 0,45	Si 0,3	Mn 0,7														
1.2083 X 40 Cr 14	<table border="1"> <tr> <td>C 0,4</td> <td>Cr 14,0</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	C 0,4	Cr 14,0					max. 241 HB (~ 810 N/mm ²)	Korrosionsbeständiger Werkzeugstahl Corrosion-resistant mould steel Acier à outils résistant à la corrosion	gelb/weiß yellow/white jaune/blanc	X	X				X
C 0,4	Cr 14,0															
1.2083ESU X 40 Cr 14	<table border="1"> <tr> <td>C 0,4</td> <td>Cr 14,0</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	C 0,4	Cr 14,0					max. 241 HB (~ 810 N/mm ²)	Hochreiner, korrosions- beständiger Werkzeug- stahl High-purity, corrosion- resistant mould steel Acier à outils de haute pureté et résistant à la corrosion	gelb/weiß yellow/white jaune/blanc				X		
C 0,4	Cr 14,0															
1.2085 X 33 CrS 16	<table border="1"> <tr> <td>C 0,3</td> <td>Si 0,5</td> <td>Mn 1,0</td> </tr> <tr> <td>Cr 16,0</td> <td>S 0,1</td> <td></td> </tr> </table>	C 0,3	Si 0,5	Mn 1,0	Cr 16,0	S 0,1		280-325 HB (950-1100 N/mm ²)	Korrosionsbeständiger, vorvergüteter Werkzeug- stahl Corrosion-resistant, pre-hardened mould steel Acier à outils pré-trempé résistant à la corrosion	schwarz/grün/ grün black/green/ green noir/vert/vert	X	X				X
C 0,3	Si 0,5	Mn 1,0														
Cr 16,0	S 0,1															
1.2099 HASCO.M	<table border="1"> <tr> <td>C 0,04</td> <td>Mn 1,2</td> <td>S 0,12</td> </tr> <tr> <td>Cr 13,0</td> <td></td> <td></td> </tr> </table>	C 0,04	Mn 1,2	S 0,12	Cr 13,0			280-325 HB (950-1100 N/mm ²)	Korrosionsbeständiger, vorvergüteter Werkzeug- stahl Corrosion-resistant, pre-hardened mould steel Acier à outils pré-trempé résistant à la corrosion	orange/blau orange/blue orange/bleu		X			X	
C 0,04	Mn 1,2	S 0,12														
Cr 13,0																
1.2162 21 MnCr 5	<table border="1"> <tr> <td>C 0,21</td> <td>Mn 1,3</td> <td>Cr 1,2</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	C 0,21	Mn 1,3	Cr 1,2				max. 210 HB (~ 710 N/mm ²)	Standard Einsatzstahl Standard case-hardened steel Acier pour travail standard	gelb yellow jaune F grau grey gris	X	X			X	X
C 0,21	Mn 1,3	Cr 1,2														
1.2210 115 Cr V3	<table border="1"> <tr> <td>C 1,18</td> <td>Si 0,25</td> <td>Mn 0,3</td> </tr> <tr> <td>Cr 0,7</td> <td>V 0,1</td> <td></td> </tr> </table>	C 1,18	Si 0,25	Mn 0,3	Cr 0,7	V 0,1		max. 220 HB (~ 750 N/mm ²)	Universell einsetzbarer Kaltarbeitsstahl (Silberstahl) Universally applicable cold-work steel (silver steel) Acier pour travail à froid d'utilisation universel (acier argenté)	blau/rot/grün blue/red/ green bleu/rouge/ vert				X		
C 1,18	Si 0,25	Mn 0,3														
Cr 0,7	V 0,1															

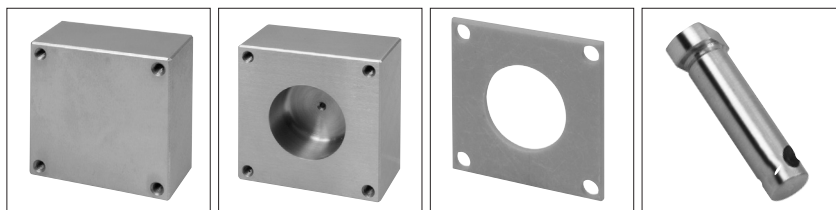
Werkstoff-Spezifikationen / Material specifications / Spécifications des matériaux

Werkstoffnr. Material no. N° de matériau	Richtanalyse Chemical composition Composition (%)	Festigkeit Strength Résistance	Eigenschaften Properties Propriétés	Farbcode Colour code Code couleur	Programm Product range Gamme de produits					
					P	P1	PR	P8000	F	K
1.2311 40 CrMnMo 7	C 0,4 Mn 1,5 Cr 1,9 Mo 0,2	280-325 HB (950-1100 N/mm ²)	Vorvergüteter Werkzeugstahl Pre-hardened tool steel Acier à outils pré-trempé	blau/weiß/ weiß blue/white/ white bleu/blanc/ blanc	X	X		X		X
1.2312 40 CrMnMoS 8-6	C 0,4 Mn 1,5 S 0,07 Cr 1,9 Mo 0,2	280-325 HB (950-1100 N/mm ²)	Vorvergüteter Werkzeugstahl Pre-hardened tool steel Acier à outils pré-trempé	braun brown brun F gelb yellow jaune	X	X		X	X	X
1.2343 X 37 CrMoV 5-1	C 0,37 Si 1,0 Cr 5,3 Mo 1,3 V 0,4	max. 229 HB (~ 770 N/mm ²)	Hochlegierter Warm- arbeitsstahl High-alloy, hot-work steel Acier pour travail à chaud fortement allié	rot red rouge	X	X		X	X	X
1.2343ESU X 37 CrMoV 5-1	C 0,37 Si 1,0 Cr 5,3 Mo 1,3 V 0,4	max. 229 HB (~ 770 N/mm ²)	Hochreiner, hochlegierter Warmarbeitsstahl High-purity, high-alloy, hot-work steel Acier pour travail à chaud fortement allié de haute pureté	rot red rouge	X	X		X	X	X
1.2363 X 100 CrMoV 5	C 1,0 Cr 5,2 Mo 1,2 V 0,3	max. 241 HB (~ 810 N/mm ²)	Maßstabiler Kaltarbeitsstahl Dimensionally stable cold-work steel Acier pour travail à froid avec stabilité dimen- sionnelle	gelb/blau yellow/blue jaune/bleu F braun brown brun					X	
1.2379 X 155 CrVMo 12-1	C 1,53 Cr 12,0 Mo 0,7 V 1,0	max. 255 HB (~ 860 N/mm ²)	Hoch chromlegierter Kaltarbeitsstahl High chrome-alloyed cold-work steel Acier pour travail à froid fortement chromé	schwarz/rot black/red noir/rouge F schwarz black noir				X	X	
1.2436 X 210 CrW 12	C 2,1 Cr 12,0 W 0,7	max. 255 HB (~ 855 N/mm ²)	Maßstabiler Chromstahl Dimensionally stable chrome steel Acier chromé avec stabilité dimensionnelle	schwarz/gelb black/yellow noir/jaune F grün green vert					X	

Werkstoff-Spezifikationen / Material specifications / Spécifications des matériaux

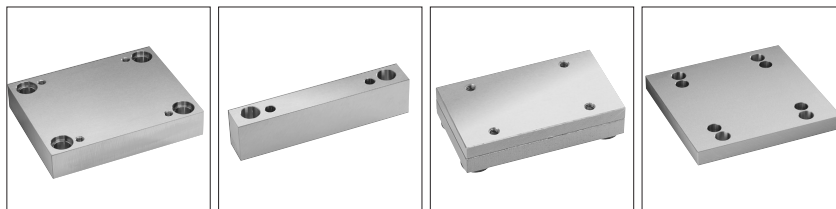
Werkstoffnr. Material no. N° de matériau	Richtanalyse Chemical composition Composition (%)			Festigkeit Strength Résistance	Eigenschaften Properties Propriétés	Farbcode Colour code Code couleur	Programm Product range Gamme de produits							
							P	P1	PR	P8000	F	K		
Kurzname Abbreviated name Désignation														
1.2714HH	C 0,55 Ni 1,7	Cr 1,1 V 0,1	Mo 0,5	max. 400 HB (~ 1350 N/mm ²)	Durchhärterstahl, vergütet Pre-hardened steel Acier à outils prétraité			X						
55 NiCrMoV 7														
1.2767	C 0,45 Ni 4,0	Cr 1,4	Mo 0,3	max. 285 HB (~ 965 N/mm ²)	Durchhärtender, maßbe- ständiger Werkzeugstahl Hardened, dimensionally stable steel Acier à outils prétraité avec stabilité dimensionnelle	grün/weiß green/white vert/blanc F violett violet violet	X	X	X	X	X	X	X	
45 NiCrMo 16														
1.2842 (1.2510*)	C 0,9 V 0,1	Mn 2,0 W 0,6 *	Cr 0,4	max. 229 HB (~ 770 N/mm ²)	Kaltarbeitsstahl mit sehr guter Zerspanbarkeit Cold-work steel with high toughness Acier pour travail à froid avec une bonne stabilité dimensionnelle	schwarz/blau black/blue noir/bleu F blau blue bleu							X	
90 MnCrV 8														
3.4365	Si 0,4 Mn 0,3 Zn 5,6	Fe 0,5 Mg 2,4	Cu 1,6 Cr 0,23	max. 150 HB (~ 500 N/mm ²)	Hochfeste, ausgehärtete Aluminium-Zink- Legierung High-strength, alumin- ium- zinc alloy, hardened Alliage aluminium-zinc à haute résistance et durci		X		X					
AlZnMgCu 1.5														
Toolox33	C 0,23 Cr 1,2 Mo 0,3	Si 0,75 V 0,1	Mn 0,8 Ni ≤1,0	max. 300 HB (~ 1000 N/mm ²)	Vergüteter Werkzeugstahl Hardened tool steel Acier à outils trempé	orange/weiß orange/white orange/blanc	X	X						X
Toolox44	C 0,32 Cr 1,35 Mo 0,8	Si 0,75 V 0,14	Mn 0,8 Ni ≤1,0	max. 450 HB (~ 1530 N/mm ²)	Vergüteter Werkzeugstahl Hardened tool steel Acier à outils trempé	orange/grün orange/green orange/vert								Auf Anfrage lieferbar Available on request Disponible sur demande

K-Normalien / K-Standards / Standards K



K5000/...
Werkzeugaufbau 75x75 mm
Mould base 75x75 mm
Carcasse 75x75 mm

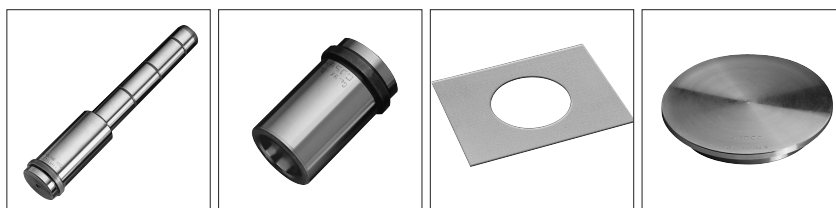
21



Platten / Plates / Plaques

eckig
angular
angulaire

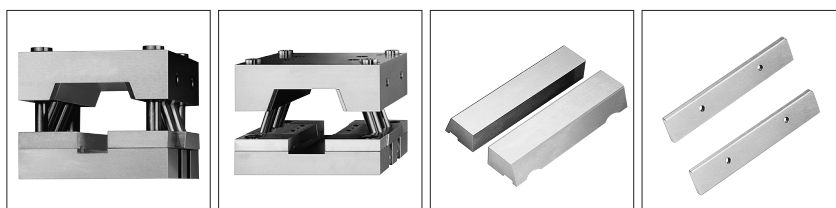
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"Z"

Zubehör für
Werkzeugaufbauten
Components for
mould base assemblies
Accessoires pour carcasses

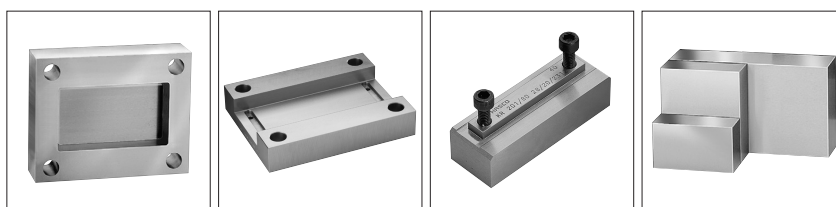
221



K2500/..., K2501/...

Backenwerkzeug
Split mould kit
Moule à tiroirs

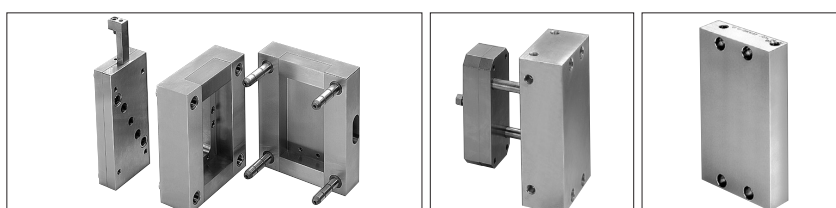
251



KR / PR

Einsatz-Baukastensystem
Insert-Modular System
Système modulaire d'insert

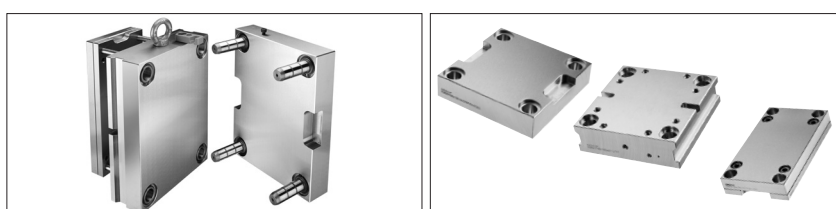
311



K3500/..., K3501/...

Wechselwerkzeug-System
Quick-change mould system
Système de moule
à changement rapide

325



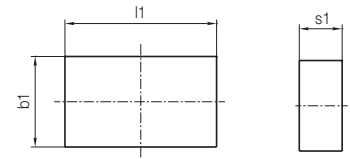
K3600/...

Kleinserienwerkzeug
Small series mould
Moule pour petites séries

337



Größenübersicht Size range Aperçu de Tailles



b1 \ l1	095	130	156	196	246	296	346	396	446	496	546	596	646	696	796	896	996	s1
095	■																	6
100		■																9
156			◆	■	■	■	■	■	■	■	■	■	■	■	■	■	■	12
190				■	◆	■	■	■	■	■	■	■	■	■	■	■	■	17
196				■	■	■	■	■	■	■	■	■	■	■	■	■	■	22
218					■	■	■	■	■	■	■	■	■	■	■	■	■	27
246					■	◆	■	■	■	■	■	■	■	■	■	■	■	36
296						■	■	◆	■	■	■	■	■	■	■	■	■	46
346							■	■	■	■	■	■	■	■	■	■	■	56
396								■	■	■	■	■	■	■	■	■	■	66
446									■	■	■	■	■	■	■	■	■	76
496										■	■	■	■	■	■	■	■	86
546											■	■	■	■	■	■	■	96
596												■	■	■	■	■	■	116
646													■	■	■	■	■	136
696														■	■	■	■	156
746															■	■	■	176
796																■	■	196

- = **K2500 / K2501**
 Backenwerkzeug
 Split mould kits
 Carcasse à tiroir
- = **K3500**
 Wechselwerkzeug-System
 Quick-change mould system
 Carcasse à changement rapide
- ◆
 = **K3600**
 Kleinserienwerkzeug
 Small series mould
 Carcasse pour petites séries

Werkstoffe:
 1.1730, 1.2162, 1.2764, 1.2767, 1.2083,
 1.2085, 1.2311, 1.2312, 1.2343, Toolox33
 weitere Abmessungen sind in den
 verfügbaren Stahlqualitäten als
 Sonderanfertigung erhältlich

available in:
 1.1730, 1.2162, 1.2764, 1.2767, 1.2083,
 1.2085, 1.2311, 1.2312, 1.2343, Toolox33
 other sizes in all available steel grades as
 customized production

Disponible en aciers:
 1.1730, 1.2162, 1.2764, 1.2767, 1.2083,
 1.2085, 1.2311, 1.2312, 1.2343, Toolox33
 Autres dimensions et aciers disponibles à
 la demande sur chiffrage hors-standard

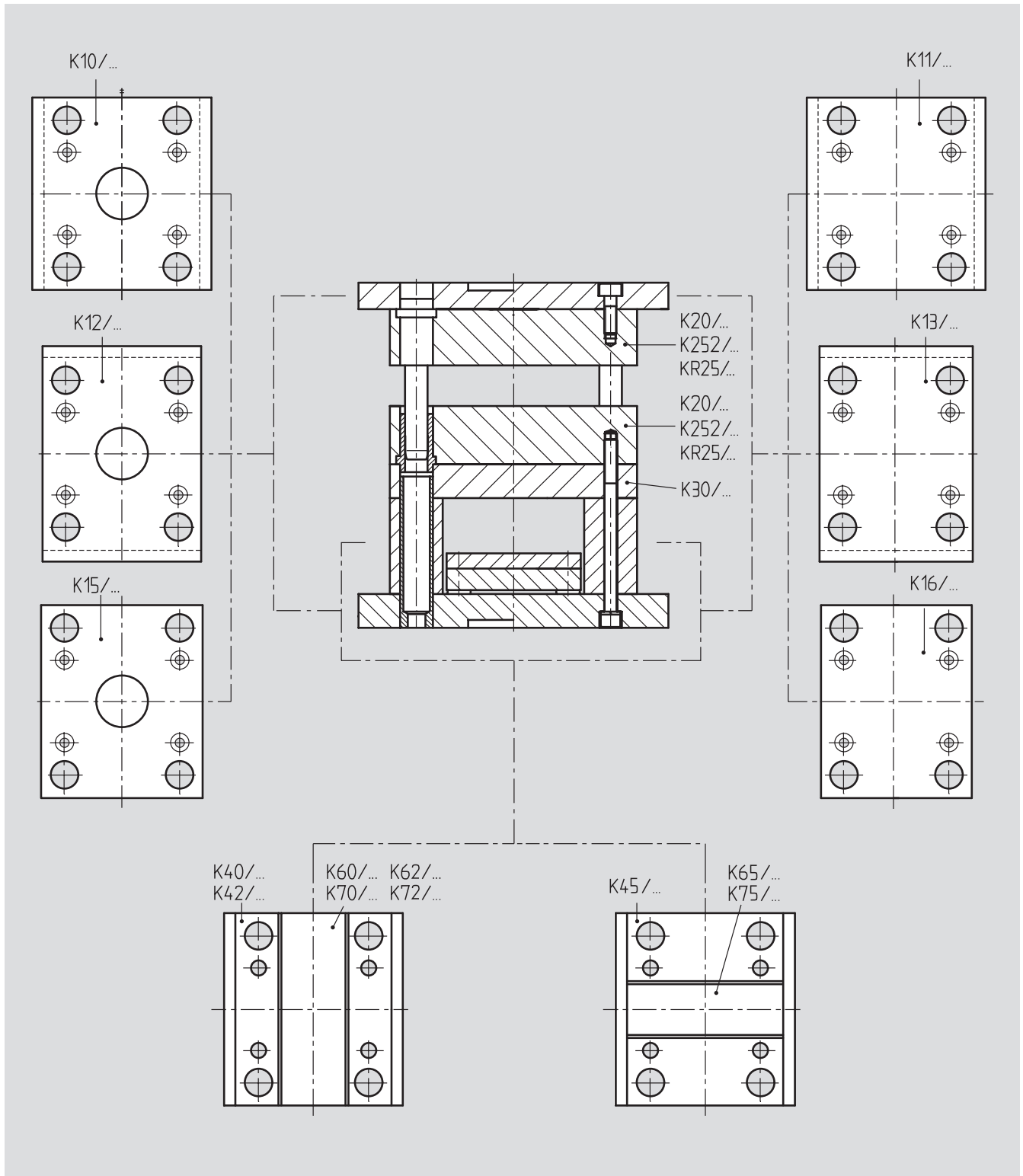
Bestellbeispiel Ordering example Exemple de commande

Formplatte
 Mould plate
 Plaque porte-empreinte

Produkt-Nr. Product No No. de produit
 Abmessung Dimensions
 Plattendicke Plate thickness
 Werkstoff-Nr. Material No No. Matériau

K20 / 396 x 546 x 136 / 1.2312

Standard-Werkzeugaufbau mit Varianten von Aufspannplatten und Leisten
 Standard mould base assembly with variations of clamping plates and risers
 Carcasses de moules standards avec différentes variantes de semelles et de tasseaux



Breite Leisten

Um die Gefahr der Durchbiegung zu minimieren, beachten Sie bitte auch die Breiten Leisten K42/... mit den dazugehörigen Auswerferplatten K62/..., K72/...

Wide risers

To minimise the danger of deflection, please note the wide risers K42/... with the associated ejector plates K62/... and K72/...

Tasseaux larges

Pour minimiser le risque de torsion, veuillez prendre connaissance des tasseaux larges K42/... et les batteries d'éjection correspondantes K62/..., K72/...

Beschriftung / marking / référence

Produkt product produit	Verpackung package emballage	Produkt product produit	Verpackung package emballage	Produkt product produit	Verpackung package emballage
K 40/...		K 40/496x896x...	K 40/496x896x... K 40/546x896x... K 40/596x896x... K 40/646x896x... K 40/696x896x... K 40/746x896x... K 40/796x896x...	K 42/296x646x...	K 42/296x646x... K 42/346x646x... K 42/396x646x... K 42/446x646x... K 42/496x646x...
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K 40/346x796x...	K 40/346x796x... K 40/396x796x... K 40/446x796x... K 40/496x796x... K 40/546x796x... K 40/596x796x...	K 42/196x446x...	K 42/196x446x... K 42/246x446x... K 42/296x446x...		
K 40/496x796x...	K 40/496x796x... K 40/546x796x... K 40/596x796x... K 40/646x796x... K 40/696x796x... K 40/746x796x... K 40/796x796x...	K 42/196x496x...	K 42/196x496x... K 42/246x496x... K 42/296x496x...	K 42/496x996x...	K 42/496x996x... K 42/546x996x... K 42/596x996x... K 42/646x996x... K 42/696x996x... K 42/746x996x... K 42/796x996x...
		K 42/246x346x...	K 42/246x346x... K 42/296x346x... K 42/346x346x...		
		K 42/246x396x...	K 42/246x396x... K 42/296x396x...	K 42/596x646x...	K 42/596x646x... K 42/646x646x...
		K 42/246x546x...	K 42/246x546x... K 42/296x546x...	K 42/596x696x...	K 42/596x696x... K 42/646x696x... K 42/696x696x...
		K 42/246x596x...	K 42/246x596x... K 42/296x596x...		

Beschriftung / marking / référence

Produkt product produit	Verpackung package emballage	Produkt product produit	Verpackung package emballage	Produkt product produit	Verpackung package emballage
K 45/...		K 45/396x396x...	K 45/396x396x... K 45/396x446x... K 45/396x496x... K 45/396x596x... K 45/396x646x... K 45/396x696x... K 45/396x796x... K 45/396x896x...	K 45/596x646x...	K 45/596x646x... K 45/596x696x... K 45/596x796x... K 45/596x896x... K 45/596x996x...
K 45/156x156x...	K 45/156x156x... K 45/156x246x... K 45/156x296x... K 45/156x346x...			K 45/646x646x...	K 45/646x646x... K 45/646x696x... K 45/646x796x... K 45/646x896x... K 45/646x996x...
K 45/196x296x...	K 45/196x296x... K 45/196x346x...			K 45/696x696x...	K 45/696x696x... K 45/696x796x... K 45/696x896x... K 45/696x996x...
K 45/196x396x...	K 45/196x396x... K 45/196x446x... K 45/196x496x...	K 45/446x446x...	K 45/446x446x... K 45/446x496x... K 45/446x546x... K 45/446x596x... K 45/446x646x... K 45/446x696x... K 45/446x796x... K 45/446x896x...	K 45/746x796x...	K 45/746x796x... K 45/746x896x... K 45/746x996x...
K 45/246x346x...	K 45/246x346x... K 45/246x446x... K 45/246x496x... K 45/246x546x... K 45/246x596x...			K 45/796x796x...	K 45/796x796x... K 45/796x896x... K 45/796x996x...
K 45/296x346x...	K 45/296x346x... K 45/296x446x... K 45/296x496x... K 45/296x546x... K 45/296x596x...	K 45/496x496x...	K 45/496x496x... K 45/496x546x... K 45/496x596x... K 45/496x646x... K 45/496x696x...		
K 45/296x646x...	K 45/296x646x... K 45/296x696x...	K 45/496x796x...	K 45/496x796x... K 45/496x896x... K 45/496x996x...		
K 45/346x396x...	K 45/346x396x... K 45/346x496x...	K 45/546x546x...	K 45/546x546x... K 45/546x596x... K 45/546x646x... K 45/546x696x...		
K 45/346x446x...	K 45/346x446x... K 45/346x546x... K 45/346x596x... K 45/346x646x... K 45/346x696x... K 45/346x796x...	K 45/546x796x...	K 45/546x796x... K 45/546x896x... K 45/546x996x...		

K 40/..., K 42/..., K 45/...

Identische Leisten passend zu mehreren Werkzeuggrößen

Identical risers suitable for several mould sizes

Tasseaux identiques pouvant se monter sur différentes tailles de carcasses

Beachten:

Die Produktbeschriftung verweist jeweils auf die kleinste Werkzeuggröße.

Die Verpackung von K 40/..., K 42/... und K 45/... ist mit allen Größen beschriftet.

Caution:

The product marking each refers to the smallest mould size.

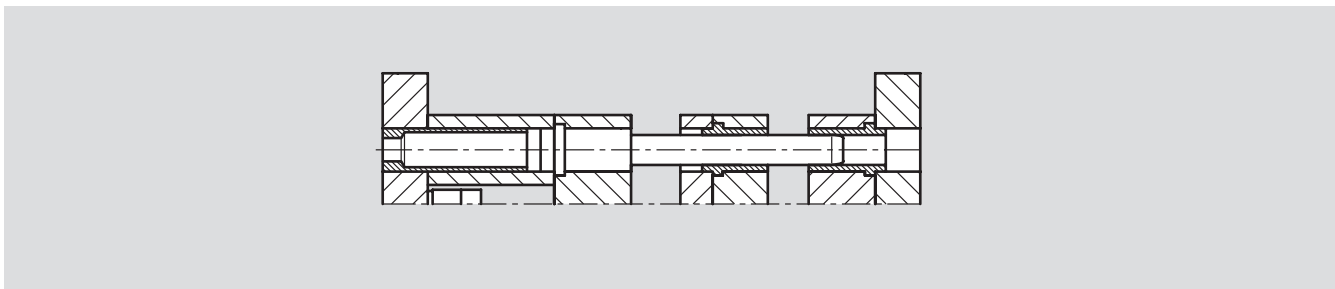
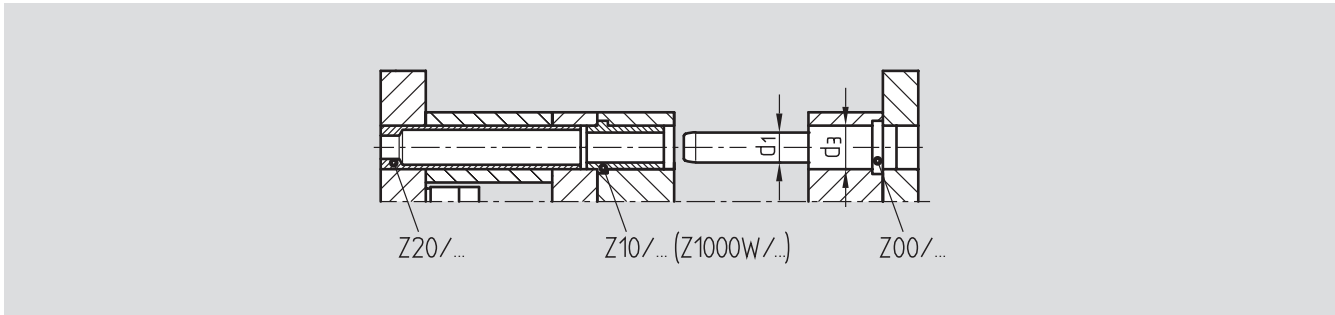
The packages of K 40/..., K 42/... and K 45/... are marked with all sizes.

Remarque:

La référence du produit se rapporte à la taille de carcasse la plus petite.

L'emballage des K 40/..., K 42/... et K 45/... reprend toutes les tailles de carcasses possibles.

Führungselemente
Guide elements
Éléments de guidage



Die Führungs- und Zentrierelemente haben innerhalb einer Werkzeuggröße gleiche Aufnahmedurchmesser (d3).

The guiding and locating components have the same diameter (d3) within one mould size.

Les éléments de guidage et de centre possèdent le diamètre (d3) identique dans une même carcasse de moule.

Die Führungsdurchmesser (d1) sind unterschiedlich und vermeiden Fehler beim Zusammenfügen der Werkzeughälften.

The guide diameters (d1) are variable and avoid errors when assembling the mould halves.

Les diamètres de guidage (d1) sont variables et évitent ainsi des erreurs lors de l'assemblage de deux parties de moule.

Die Platten sind beliebig kombinierbar und austauschbar.

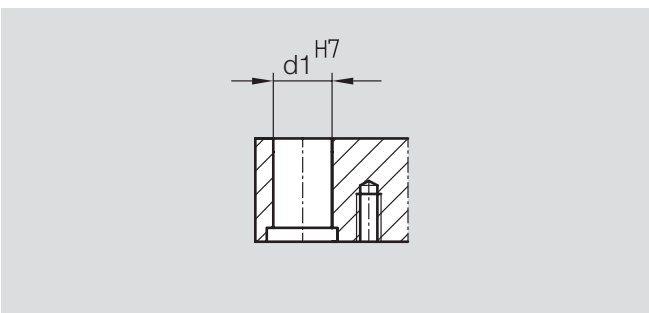
The plates can be combined and interchanged as required.

Les plaques peuvent être combinés et interchangeables.

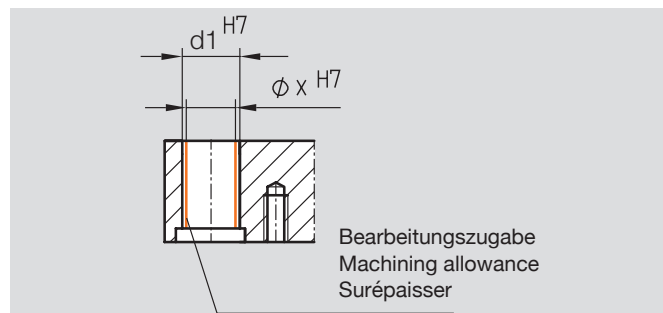
Härte und Bearbeitungsverzug kann ausgeglichen werden durch Aufschleifen der Bohrungen (Ø x) bei den Formplatten K252/...

Hardness and distortion can be compensated for by jig-grinding the holes (dia. x) of the K252/... cavity plates.

La trempe et la distorsion peuvent être compensées par la reprise des alésages (dia. x) sur les plaques porte-empreintes à colonnage ébauché K252/...



K20/..., KR25/... Systembohrung
Guide hole
Alésage de système

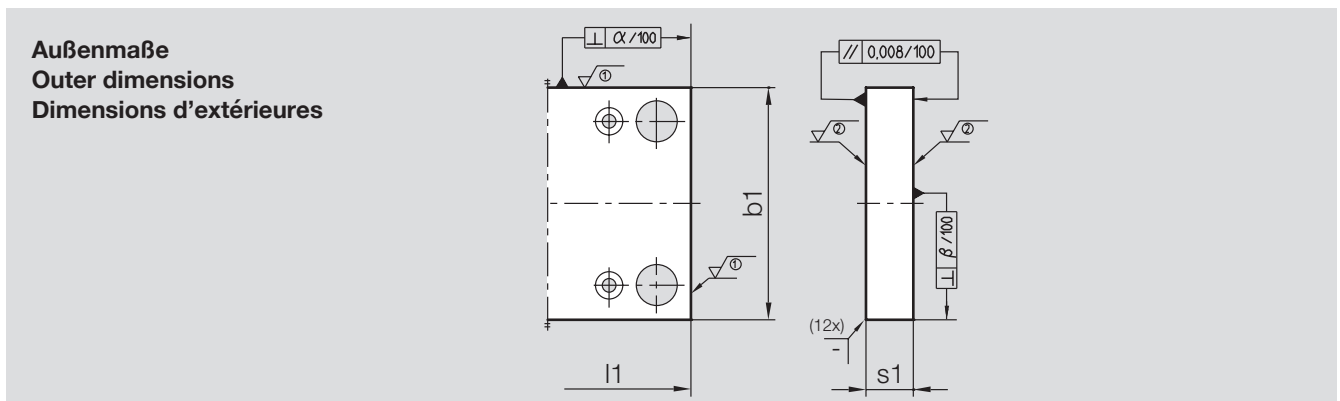


K252/... Systembohrung mit Bearbeitungszugabe
Guide hole with machining allowance
Alésage de système avec surépaisser

System-Ø (eckige Platten)
 System-diameters (angular plates)
 Diamètres du système (plaques angulaires)

b1 \ l1	095	130	156	196	246	296	346	396	446	496	546	596	656	696	796	896	996
095	Ø 14																
100		Ø 14															
156					Ø 20												
190					Ø 26												
196				Ø 26													
218				Ø 26													
246					Ø 26												
296						Ø 30											
346							Ø 30										
396								Ø 30									
446									Ø 42								
496										Ø 42							
546											Ø 42						
596												Ø 42					
646													Ø 54				
696														Ø 54			
746															Ø 54		
796																Ø 54	

Toleranzen für K-Normalien
 Tolerances for K standards
 Tolérances pour standards K



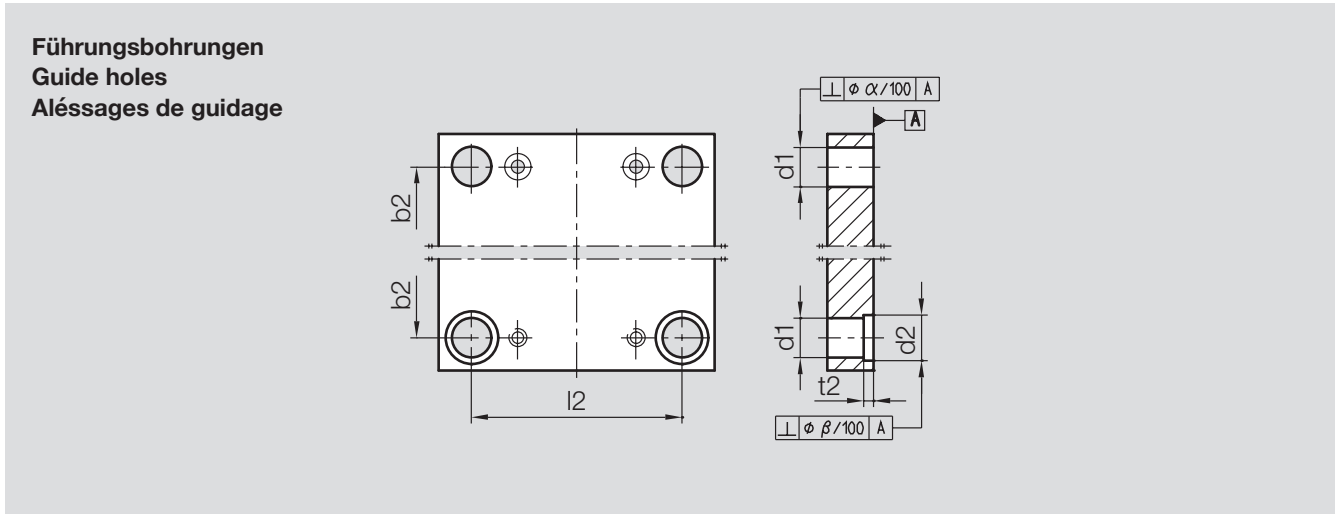
	HASCO-Nennmaßbereich [mm] HASCO nominal dimension range Cote nominale HASCO	K-Normalien K-Standards Standards K
b1	≧ 95 ... ≦ 996	+0,15
l1		
α/100	≧ 95 ... ≦ 996	0,02
β/100	≧ 95 ... ≦ 996	0,03
√⓪	≧ 95 ... ≦ 996	Rz25
√Ⓜ	≧ 95 ... ≦ 996	Rz10
s1	≧ 6 ... ≦ 996	+0,1/+0,25
s1 (Leisten/risers/tasseaux) K40/..., K45/... eckig	alle Größen all sizes toutes les tailles	+0,02

Alle Angaben sind in [mm] und beziehen sich auf eine Umgebungstemperatur von 20°C.

All the details are given in [mm] and they are based on an ambient temperature of 20°C.

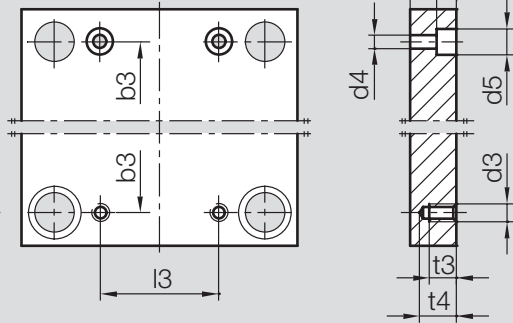
Toutes les valeurs indiquées sont indiquées en [mm] et s'appliquent à une température ambiante de 20 °C.

Toleranzen für K-Normalien
Tolerances for K standards
Tolérances pour standards K

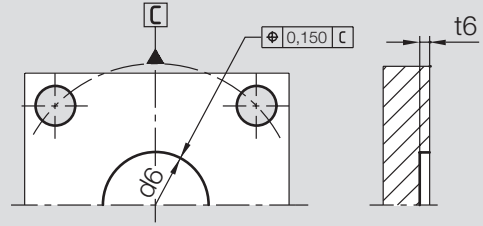


	ISO-Nennmaßbereich ISO nominal dimension range Cote nominale ISO	ISO-Toleranz ISO tolerance Tolérance ISO
b2 / l2	≧ 63 ... ≦ 80	± 0,007
	> 80 ... ≦ 100	± 0,009
	> 100 ... ≦ 125	± 0,01
	> 125 ... ≦ 160	± 0,011
	> 160 ... ≦ 200	± 0,012
	> 200 ... ≦ 250	± 0,013
	> 250 ... ≦ 315	± 0,015
	> 315 ... ≦ 400	± 0,016
	> 400 ... ≦ 500	± 0,017
	> 500 ... ≦ 630	± 0,019
	> 630 ... ≦ 800	± 0,02
	> 800 ... ≦ 1000	± 0,022
	d1	≧ 10 ... ≦ 80
d2	≧ 10 ... ≦ 80	+ 0,5
t2	≧ 3 ... ≦ 18	+ 0,2
α/100	Standard alle Größen/all sizes/toutes les tailles K40/..., K45/...	0,02
	alle Größen/all sizes/toutes les tailles	0,03
β/100	alle Größen/all sizes/toutes les tailles	0,02

Schraubenbohrungen
Screw hole dimensions
Alésages de vis



Zentrierflansch-Ausdrehung
Recess for locating ring
Dévissage de rondelle de centrage



s1 \ d3	M4		M5		M6		M8		M10		M12		M16		M20	
	t3	t4	t3	t4	t3	t4	t3	t4	t3	t4	t3	t4	t3	t4	t3	t4
9	7	12														
12					7	10										
17							10	15								
22									15	20						
27											18	25				
36													24	34		
46															32	44
56																
66																
76																
86																
96																
116																
136																
156																
176																
196																
Tol.	+0,5															

Ist „s1“ für den jeweiligen Gewinde-Ø kleiner als das Maß „t4“, ist die Gewindebohrung durchgehend.

If, for the respective thread Ø, „s1“ is smaller than the dimension „t4“, the threaded bore is continuous.

Si la valeur «s1» du diamètre de filetage correspondant est inférieure à la cote «t4», le trou taraudé est alors continu.

d3	M4	M5	M6	M8	M10	M12	M16	M20
d5	8	10	11	15	18	20	26	33
Tol.	H13							
t5	5,5	6,6	8,4*	11	13	15,5**	21***	26
Tol.	+0,5							
d4	4,5	5,5	6,6	9	11	14	18	22
Tol.	H13							

* s1 = 9; t5 = 6,4

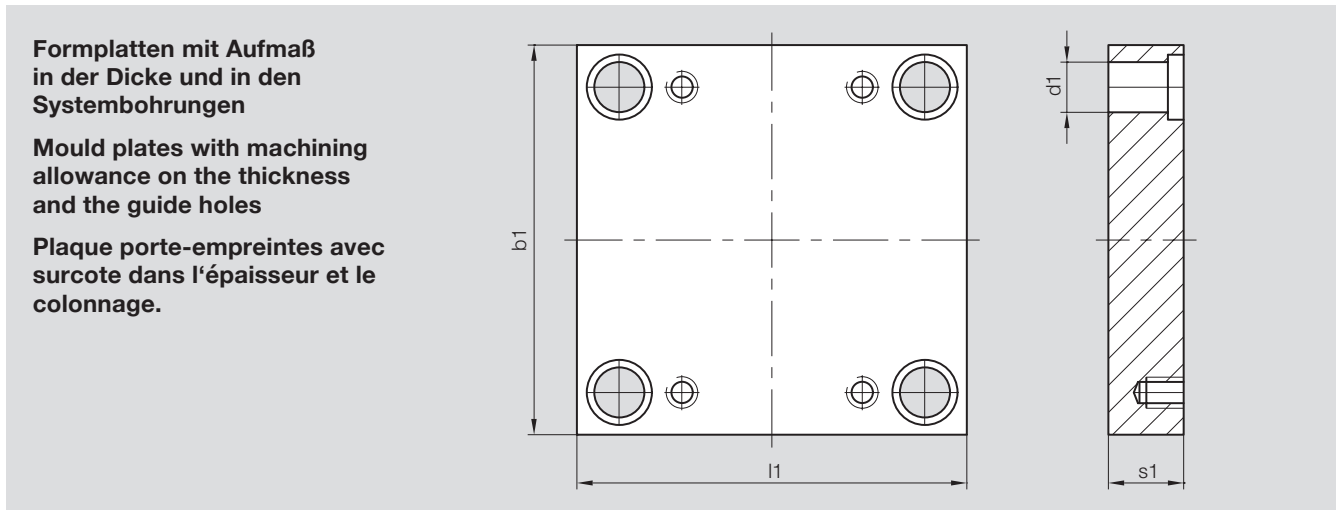
** s1 = 17; t5 = 13

*** s1 = 22; t5 = 17,5

b3/l3	ISO-Nennmaßbereich	ISO-Toleranz
	ISO nominal dimension range	ISO tolerance
	Cote nominale ISO	Tolérance ISO
	≅ 30 ... ≅ 120	±0,2
	> 120 ... ≅ 400	±0,25
	> 400 ... ≅ 1000	±0,35

d6	ISO-Nennmaßbereich	ISO-Toleranz
	ISO nominal dimension range	ISO tolerance
	Cote nominale ISO	Tolérance ISO
	≅ 18 ... ≅ 30	H8
	≅ 80 ... ≅ 120	
t6	4	+0,25

Toleranzen für K252/... /Tolerances for K252/... / Tolérances pour K252/...



Nennmaßbereich nominal dimension range Cote nominale		Toleranz tolerance tolérance			d1 H7					
b1	l1	b1/l1	s1							
≤ 296	≤ 296	+0,15	+0,2/+0,4	* +0,10/+0,25	13,75	19,6	25,5	29,4	41,3	53,2
> 296	> 296		+0,4/+0,6	* +0,10/+0,25						

* gilt nur für Material/only for materials/seulement pour les matériaux
 1.2085, 1.2311, 1.2312, Toolox33

Beachten:

Die Toleranz „s1“ ist abhängig von der größten Kantenlänge.

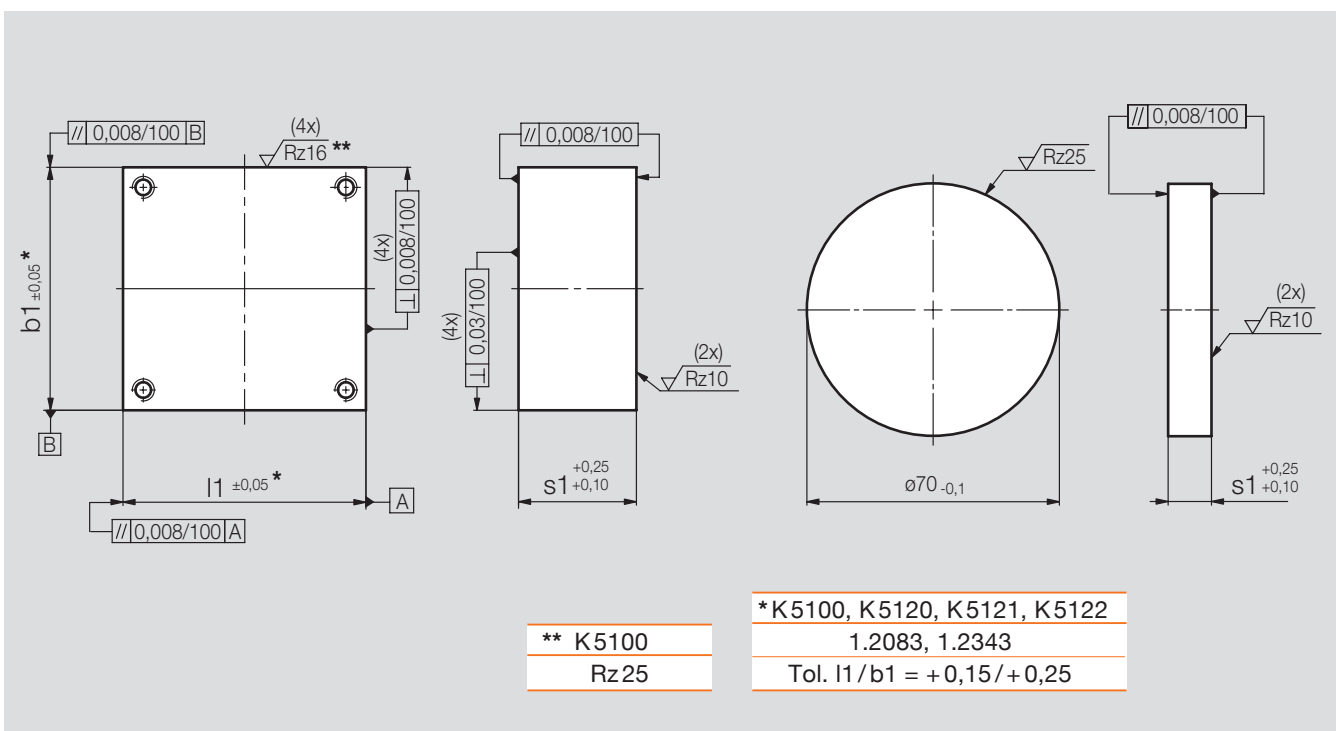
Note:

Tolerance “s1” depends on the largest edge length.

Remarque:

La tolérance « s1 » est fonction de la plus grande longueur de plaque.

Toleranzen für K5000/... /Tolerances for K5000/... / Tolérances pour K5000/...



Notizen / Notes





*Ermöglicher für Qualität
Enabler for quality*



***Ich bin Ihre
Qualitäts-
garantie.***

- Zertifizierte Qualität nach DIN EN ISO 9001
- Durchgängige Produktkennzeichnung, Nachverfolgbarkeit
- HASCO-Prozessmanagement
- Qualitätssicherung durch HASCO-Werkzeugspezifikation

***I am your
quality
guarantee.***

- Certified standards: DIN EN ISO 9001
- Production identification marking / traceability
- HASCO Process Management
- HASCO Mould Specification: So you can take control of Quality Assurance from the beginning

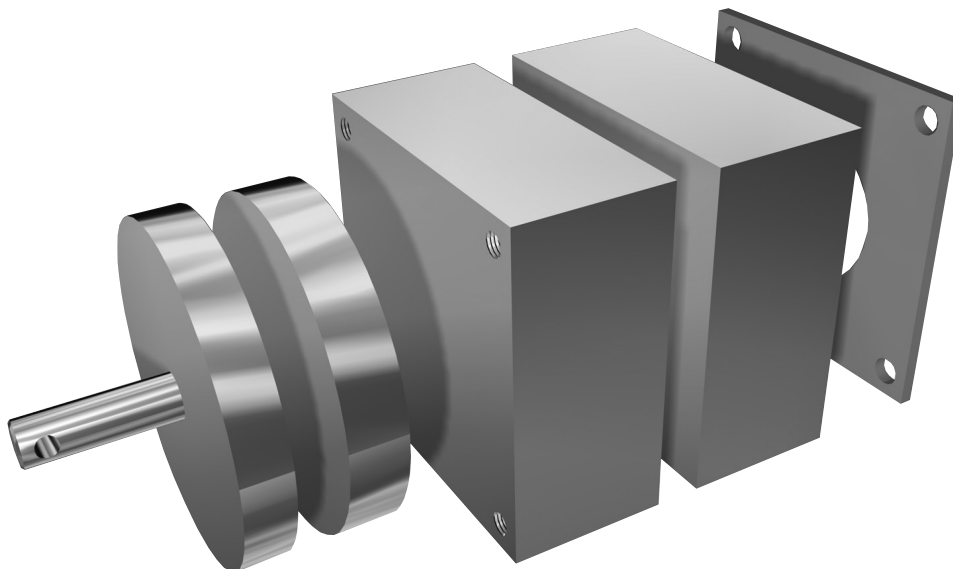
K 5000 / ...

Werkzeugaufbau 75 x 75 mm
Moldbase 75 x 75 mm
Carcasse 75 x 75 mm

Die Größe 75 x 75 mm wurde konzipiert für die Babyplast Spritzgießmaschine, zur Produktion von Mikro-Spritzgießteilen.

The size 75 x 75 mm, has been designed for the „Babyplast“-injection moulding machine, for the production of micro-injection moulded parts.

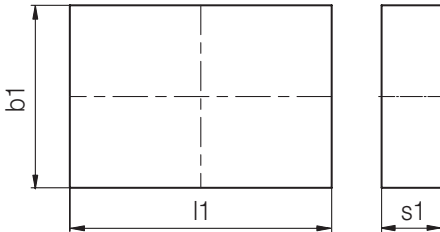
La dimension 75 x 75 mm a été conçue pour les mini-presses Babyplast pour une production de petites pièces.



K5100/...

Formplatte, ungebohrt
Cavity plate, undrilled
Plaque porte-empreinte, sans trou

Mat.: 1. 2083, 1.2085, 1.2343

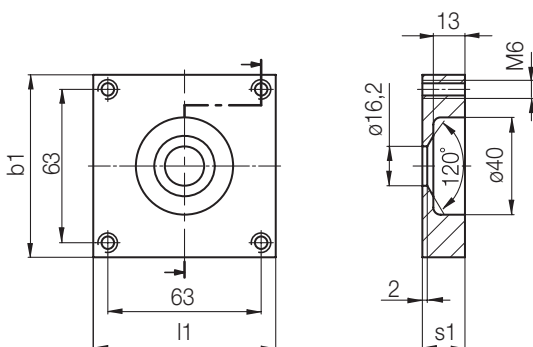


b1	l1	s1	Mat.			Nr./No.
			1.2083	1.2085	1.2343	
75	120	41	■	■	■	K 5100/075x120x41 / Mat.
		50	■	■	■	50 / Mat.
		60	■	■	■	60 / Mat.

K5110/...

Aufspannplatte
Clamping plate
Plaque de fixation

Mat.: 1.2312

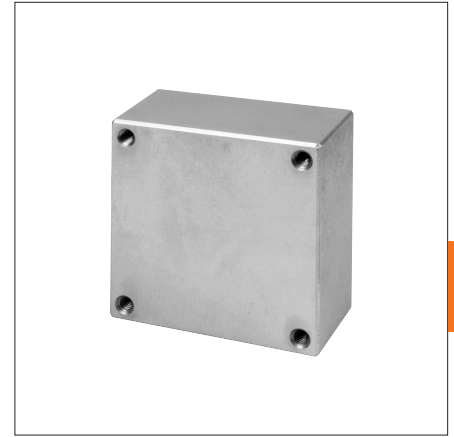
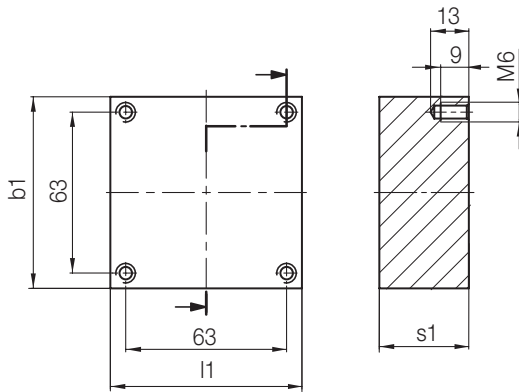


b1	l1	s1	Mat.	Nr./No.
75	75	17,5	1.2312	K5110/075x075x17,5/1.2312

K5120/...

Formplatte
Cavity plate
Plaque porte-empreinte

Mat.: 1.2083, 1.2085, 1.2343

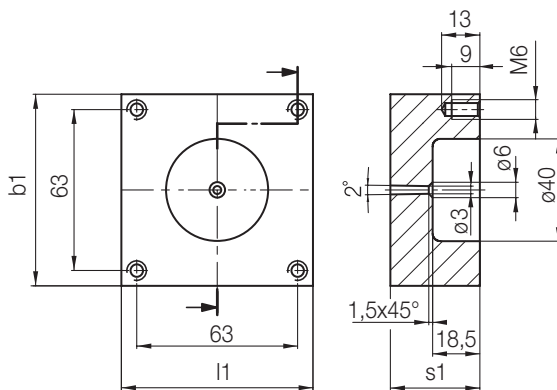


b1	l1	s1	Mat.			Nr./No.
			1.2083	1.2085	1.2343	
75	75	20	■	■	■	K5120/075x075x20/Mat.
		30	■	■	■	30/Mat.
		40	■	■	■	40/Mat.
		50	■	■	■	50/Mat.
		60	■	■	■	60/Mat.

K5121/...

Formplatte zentraler Anguss mit Taschenausfräsung
Cavity plate, central sprue with pocket
Plaque porte-empreinte, carotte centrale avec bassin fraisé

Mat.: 1.2083, 1.2085, 1.2343

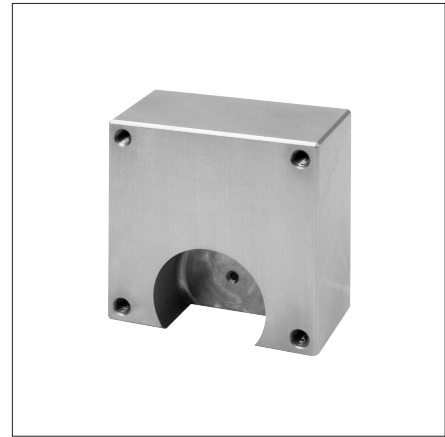
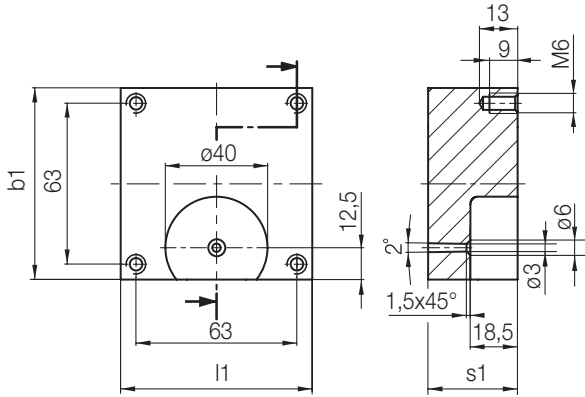


b1	l1	s1	Mat.			Nr./No.
			1.2083	1.2085	1.2343	
75	75	40	■	■	■	K5121/075x075x40/Mat.
		50	■	■	■	50/Mat.
		60	■	■	■	60/Mat.

K5122/...

Formplatte dezentraler Anguss mit Taschenausfräsung
 Cavity plate, off-center sprue with pocket
 Plaque porte-empreinte, carotte décentrée avec bassin fraisé

Mat.: 1.2083, 1.2085, 1.2343

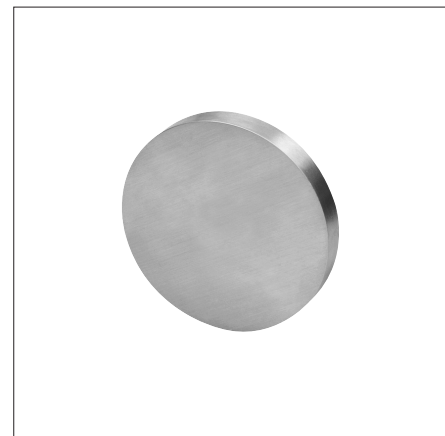
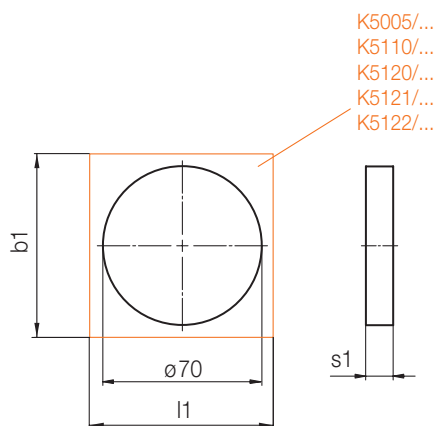


b1	l1	s1	Mat.			Nr./No.
			1.2083	1.2085	1.2343	
75	75	40	■	■	■	K 5122/075x075x40/Mat.
		50	■	■	■	50/Mat.
		60	■	■	■	60/Mat.

K5160/...

Auswerferhalteplatte
 Ejector retainer plate
 Plaque d'éjection

Mat.:1.2312

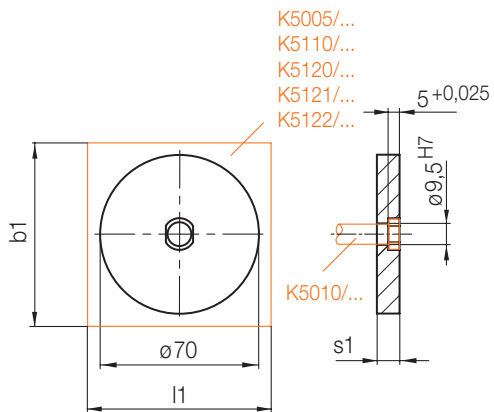


b1	l1	s1	Mat.	Nr./No.
75	75	12	1.2312	K 5160/075x075x12/1.2312

K5170/...

Auswerfergrundplatte
Ejector base plate
Contre plaque d'éjection

Mat.: 1.2312

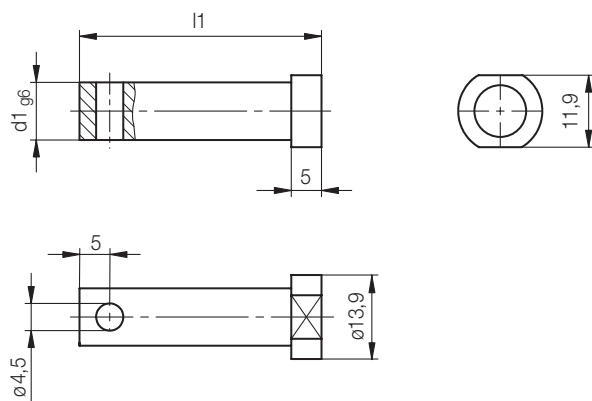


b1	l1	s1	Mat.	Nr./No.
75	75	10	1.2312	K5170/075x075x10/1.2312

K5010/...

Auswerferbolzen
Ejector rod
Queure d'éjection

Mat.: 1.2312



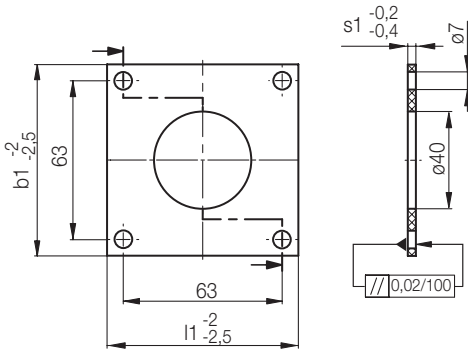
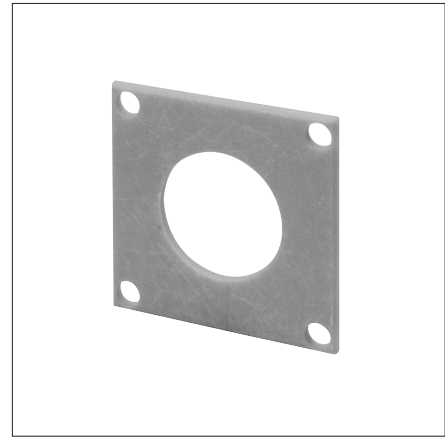
Mat.	d1	l1	Nr./No.
1.2312	9,5	40	K5010/9,5x40

K 5005 /...

Wärmeisolerplatte
Thermal insulating sheet
Plaque isolante

Mat.: Hochtemperatur - Polymer / Glasfaser
Polymere / Glass fibre
Polymère / Fibres de verre

Max. 220 °C
 $\lambda = 0,18 \text{ W/mK}$



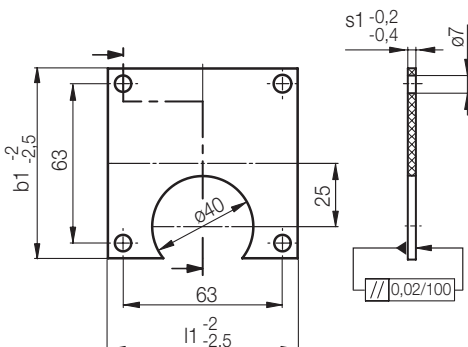
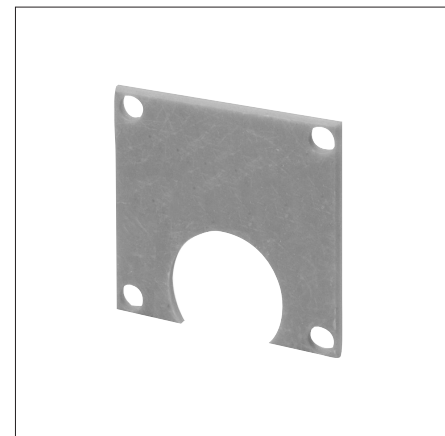
b1	l1	s1	Nr./No.
75	75	3	K5005/075x075x 3

K 5006 /...

Wärmeisolerplatte
Thermal insulating sheet
Plaque isolante

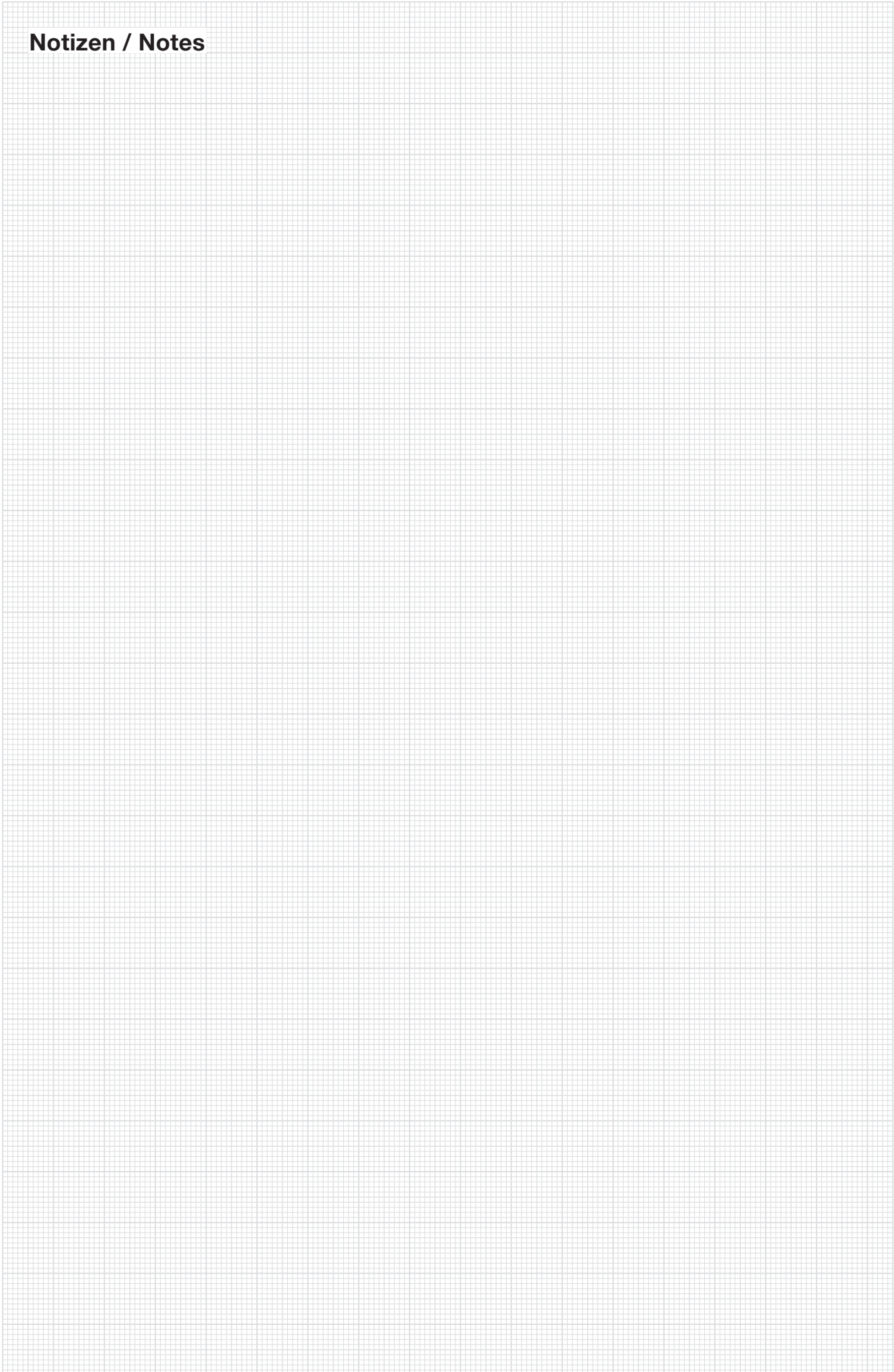
Mat.: Hochtemperatur - Polymer / Glasfaser
Polymere / Glass fibre
Polymère / Fibres de verre

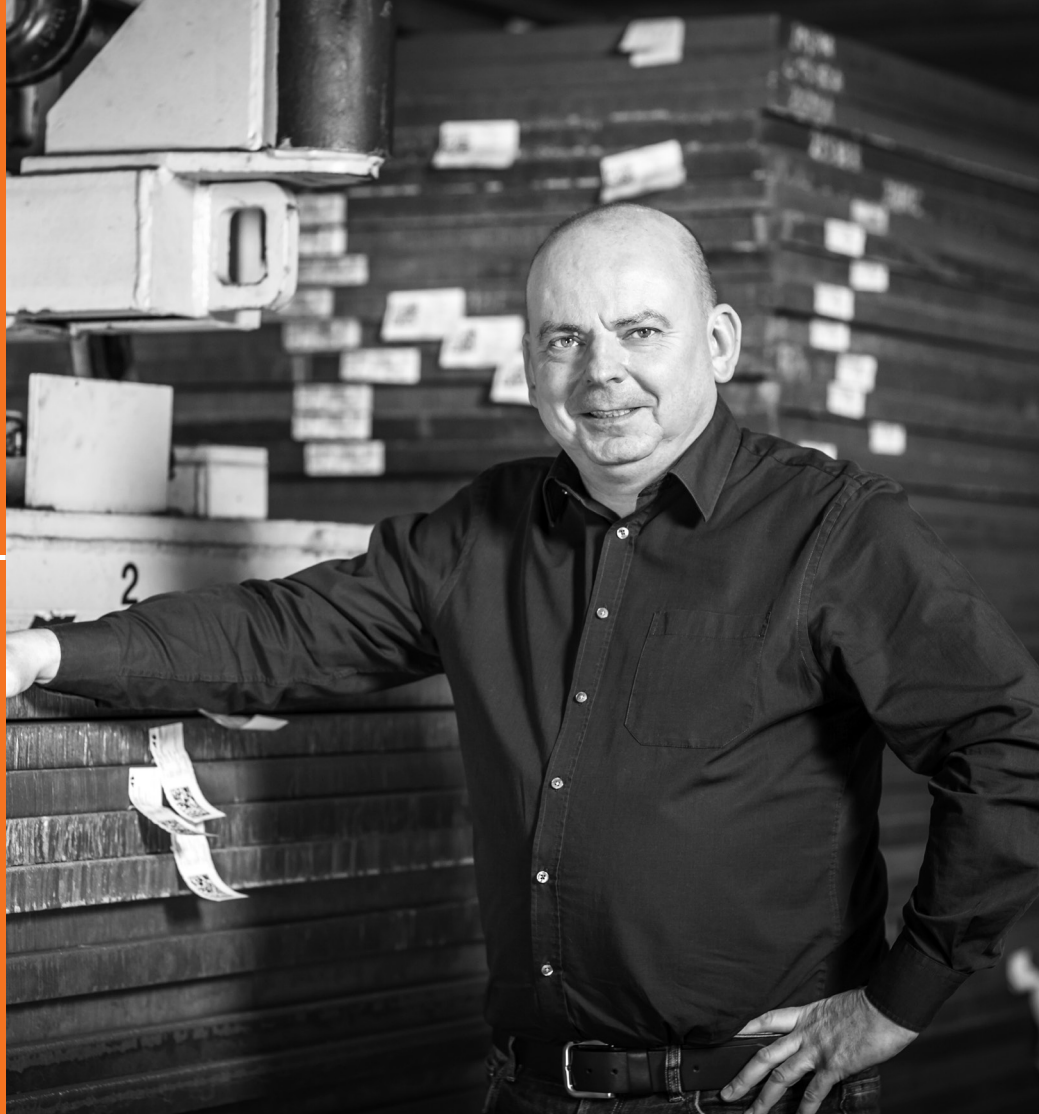
Max. 220 °C
 $\lambda = 0,18 \text{ W/mK}$



b1	l1	s1	Nr./No.
75	75	3	K5006/075x075x 3

Notizen / Notes





*Ermöglicher für Stahl
Enabler for steel*

***Unser Stahl
macht Sie
produktiv.***

- Höchste Materialqualität
- Spannungsarm geglüht
- Einfache Bearbeitung

***Our steel
enables your
productivity.***

- High-quality material
- Stress relief annealed
- Easy and stable to machine

HASCO®

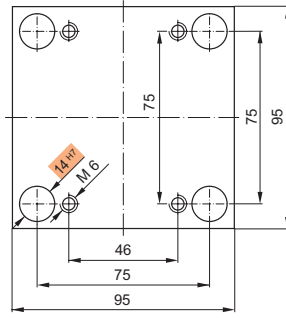
Ermöglichen mit System.

K

K-Normalien, eckig
K-standards, angular
Standards K, angulaire



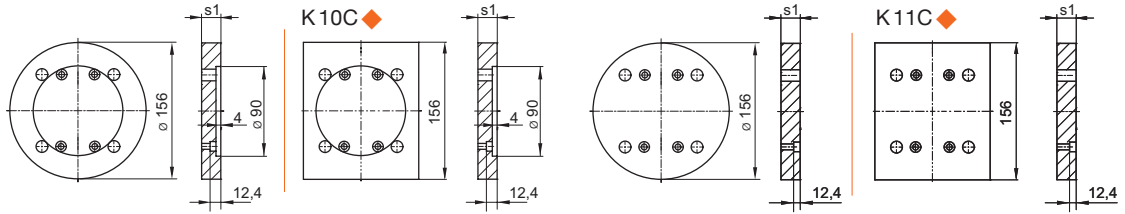
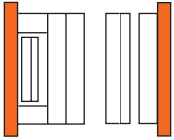
095 x 095



Bestellbeispiel:
Ordering example:
Exemple de commande:

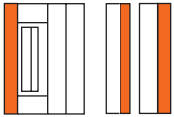
K20/095x095x36/1.2767

K10/K10C K11/K11C



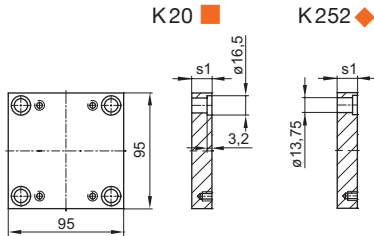
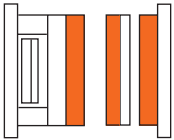
K10/095x095 x s1/	1.1730	1.2162	1.2085	1.2312	K11/095x095 x s1/	1.1730	1.2162	1.2085	1.2312
22	■◆		■◆	■◆	22	■◆		■◆	■◆

K15 K16



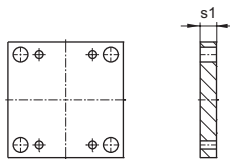
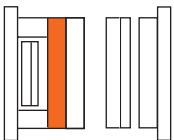
K15/095x095 x s1/	1.1730	1.2162	1.2085	1.2312	K16/095x095 x s1/	1.1730	1.2162	1.2085	1.2312
12	■		■	■	12	■		■	■
17	■		■	■	17	■		■	■

K20 K252



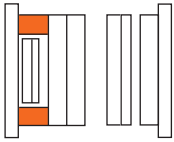
.../095x095 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
9	■	■			■◆					
12	■	■	■◆		■◆	■◆	■◆			■
17	■	■	■◆		■◆	■◆	■◆			■
22	■	■	■◆		■◆	■◆	■◆			■
27	■	■	■◆		■◆	■◆	■◆			■
36	■	■	■◆		■◆	■◆	■◆			■
46	■	■	■◆		■◆	■◆	■◆			■
56	■	■	■◆		■◆	■◆	■◆			■

K30

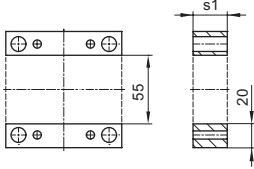


K30/095x095 x s1/	1.1730	1.2085	1.2312
6	■	■	■
12	■	■	■
17	■	■	■

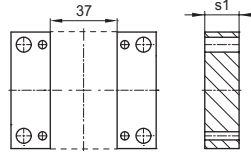
K40
K45



K40 ■

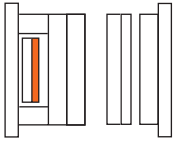


K45 ◆

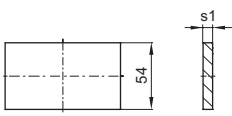


.../095x095 x s1/	1.1730	1.2085	1.2312	.../095x095 x s1/	1.1730	1.2085	1.2312
22	■ ◆	■ ◆		46	■ ◆	■ ◆	
27	■ ◆	■ ◆		56	■	■	
36	■ ◆	■ ◆		66	■	■	

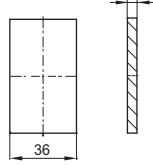
K60
K65



K60 ■

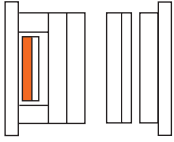


K65 ◆

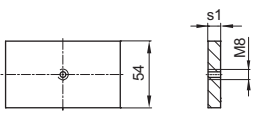


.../095x095 x s1/	1.1730	1.2085	1.2312
6	■ ◆	■ ◆	

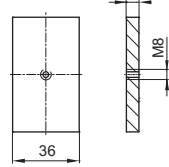
K70
K75



K70 ■

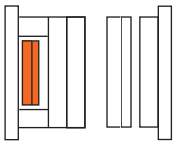


K75 ◆



.../095x095 x s1/	1.1730	1.2085	1.2312
9	■ ◆	■ ◆	■ ◆

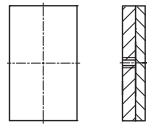
K60-70
K65-75



K60-70 ■



K65-75 ◆

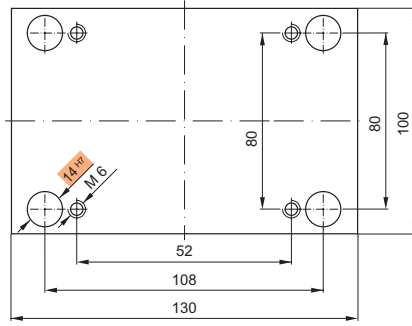


.../095x095 x	1.1730	1.2085
	■ ◆	■ ◆



100x130

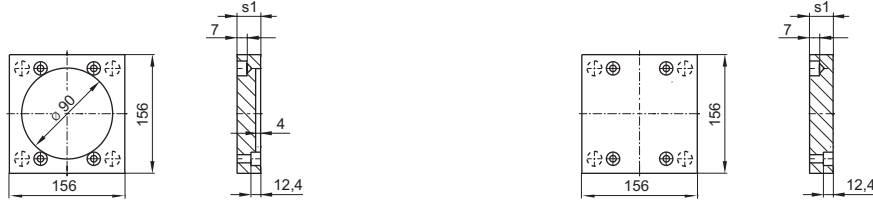
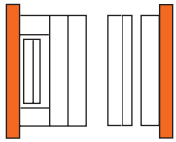
Register/Section
Répertoire K2500/...
Seite/Page 232/252



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 100x130x36 / 1.2767

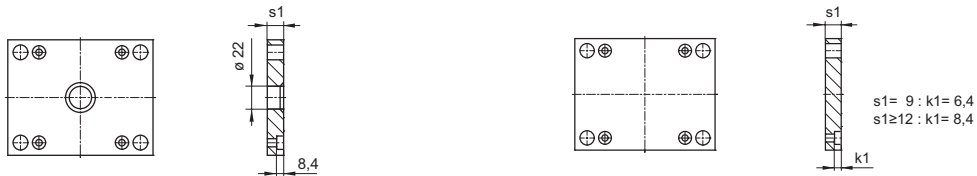
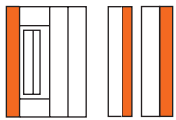
K10 K11



K10/100x130 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■

K11/100x130 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■

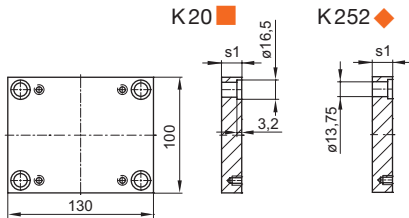
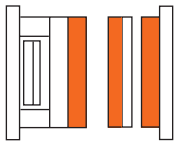
K15 K16



K15/100x130 x s1/	1.1730	1.2162	1.2085	1.2312
12	■		■	■
17	■		■	■

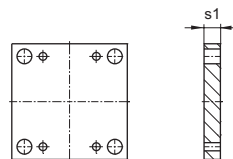
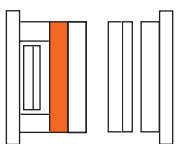
K16/100x130 x s1/	1.1730	1.2162	1.2085	1.2312
9	■	■	■	
12	■		■	■
17	■		■	■

K20 K252



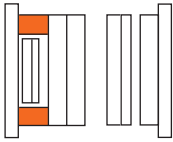
.../100x130 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
9	■	■			■					
12	■	■	■		■	■	■			■
17	■	■	■		■	■	■			■
22	■	■	■		■	■	■			■
27	■	■	■		■	■	■			■
36	■	■	■		■	■	■			■
46	■	■	■		■	■	■			■
56	■	■	■		■	■	■			■

K30

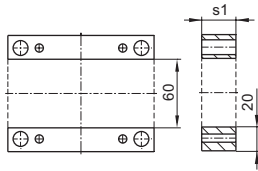


K30/100x130 x s1/	1.1730	1.2085	1.2312
6	■	■	■
12	■	■	■
17	■	■	■

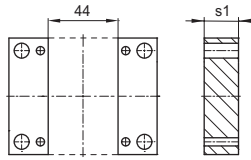
K40
K45



K40 ■

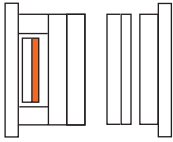


K45 ◆

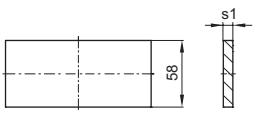


.../100x130 x s1/	1.1730	1.2085	1.2312	.../100x130 x s1/	1.1730	1.2085	1.2312
27	■ ◆	■ ◆		56	■	■	
36	■ ◆	■ ◆		66	■	■	
46	■ ◆	■ ◆					

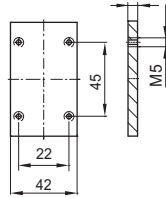
K60
K65



K60 ■

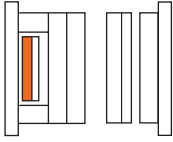


K65 ◆

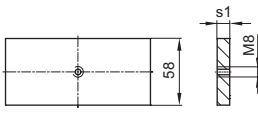


.../100x130 x s1/	1.1730	1.2085	1.2312
6	■ ◆	■ ◆	

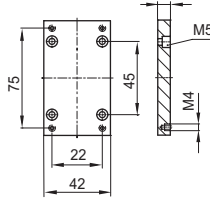
K70
K75



K70 ■

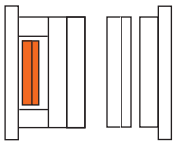


K75 ◆

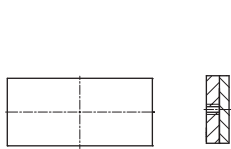


.../100x130 x s1/	1.1730	1.2085	1.2312
9	■ ◆	■ ◆	■ ◆

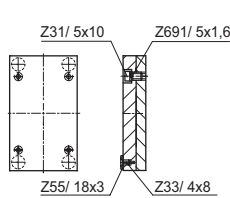
K60-70
K65-75



K60-70 ■



K65-75 ◆

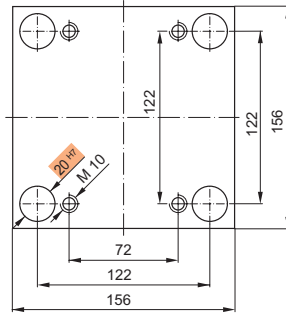


.../100x130 x	1.1730	1.2085
	■ ◆	■ ◆

156x156

Register/Section
Répertoire K2500/...
Seite/Page 234/254

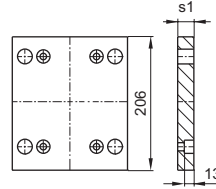
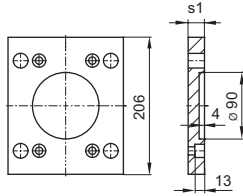
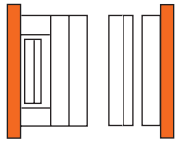
Register/Section
Répertoire KR
Seite/Page 281 (KR20/...)



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 156x156x36 / 1.2767

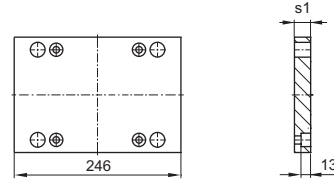
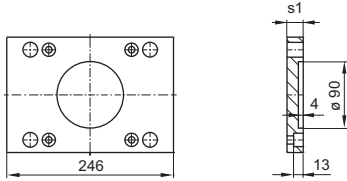
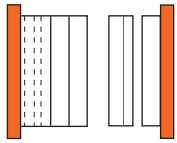
K10 K11



K10/156x156 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K11/156x156 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

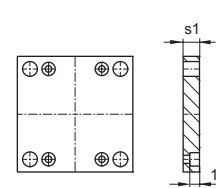
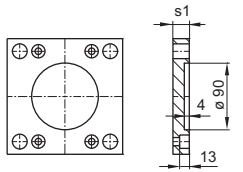
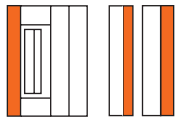
K12 K13



K12/156x156 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K13/156x156 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

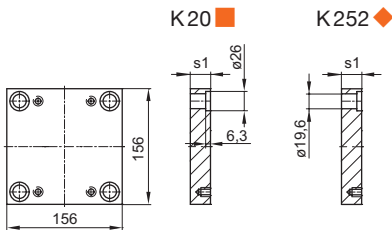
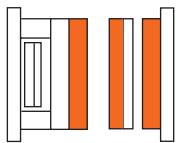
K15 K16



K15/156x156 x s1/	1.1730	1.2162	1.2085	1.2312
17	■		■	■
22	■		■	■

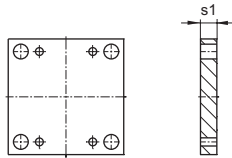
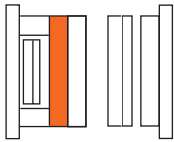
K16/156x156 x s1/	1.1730	1.2162	1.2085	1.2312
17	■	■	■	■
22	■		■	■

K20 K252



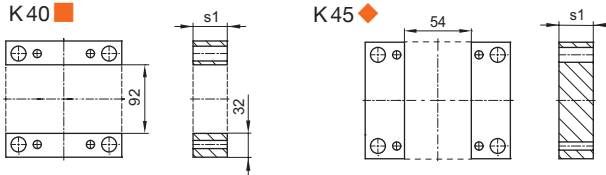
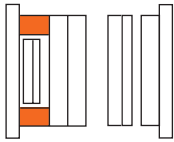
.../156x156 x s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■◆		■◆	■◆	■◆	◆		■
22	■	■	■◆	■◆	■◆	■◆	■◆	◆		■
27	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
36	■	■	■◆	■◆	■◆	■◆	■◆	◆		■
46	■	■	■◆	■◆	■◆	■◆	■◆	◆		■
56	■	■	■◆	■◆	■◆	■◆	■◆	◆		■
66	■	■	■◆	■◆	■◆	■◆	■◆	◆		■
76	■	■	■◆	■◆	■◆	■◆	■◆	◆		■
86	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
96	■					■	■			

K30



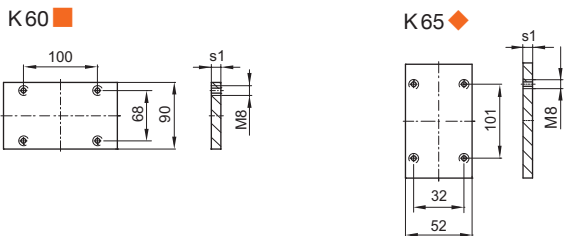
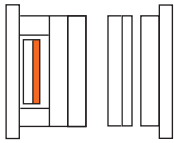
K30/156x156 x s1/	1.1730	1.2085	1.2312	K30/156x156 x s1/	1.1730	1.2085	1.2312
17	■	■	■	46	■	■	■
22	■	■	■	56	■		■
27	■	■	■	66	■		
36	■	■	■				

**K40
K45**



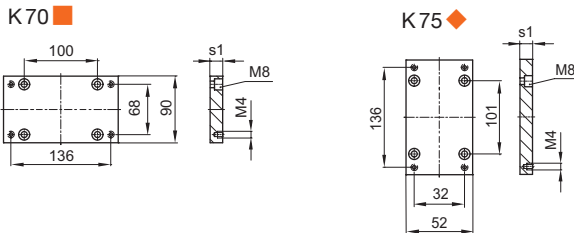
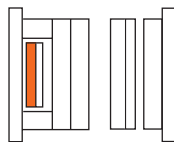
.../156x156 x s1/	1.1730	1.2085	1.2312	.../156x156 x s1/	1.1730	1.2085	1.2312
36	■	■		76	■ ◆	■ ◆	
46	■ ◆	■ ◆		86	■	■	
56	■ ◆	■ ◆		96	■	■	
66	■	■					

**K60
K65**



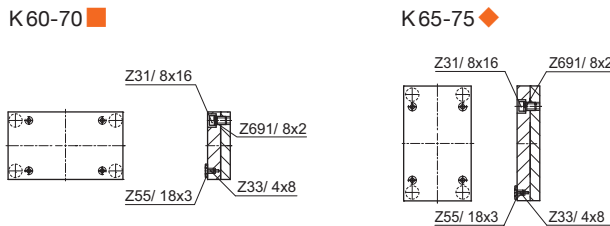
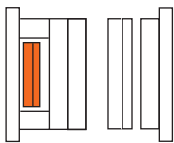
.../156x156 x s1/	1.1730	1.2085	1.2312
9	■ ◆	■ ◆	

**K70
K75**



.../156x156 x s1/	1.1730	1.2085	1.2312
17	■ ◆	■ ◆	■ ◆

**K60-70
K65-75**

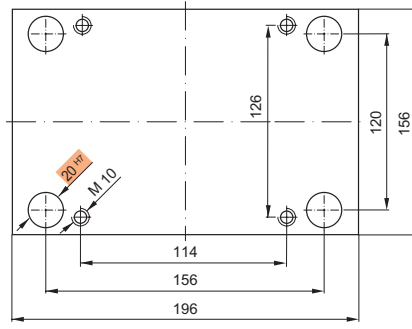


.../156x156 x	1.1730	1.2085
	■ ◆	■ ◆

156x196

Register/Section
Répertoire K2500/...
Seite/Page 236/256

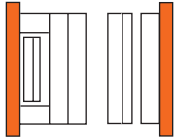
Register/Section
Répertoire KR
Seite/Page 282 (KR20/...)



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/156x196x36/1.2767

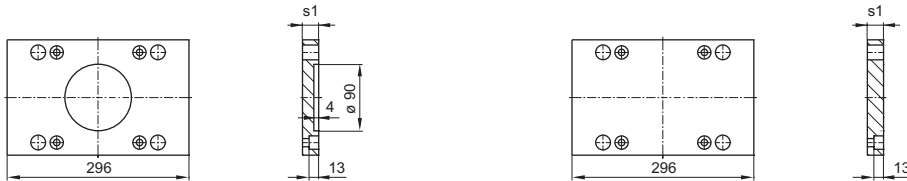
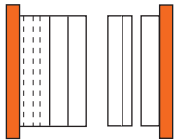
K10 K11



K10/156x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K11/156x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

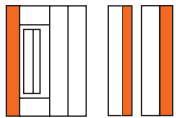
K12 K13



K12/156x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K13/156x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

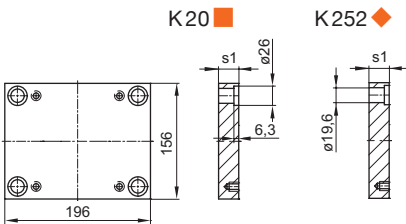
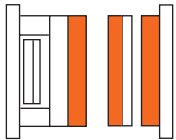
K15 K16



K15/156x196 x s1/	1.1730	1.2162	1.2085	1.2312
17	■		■	■
22	■		■	■

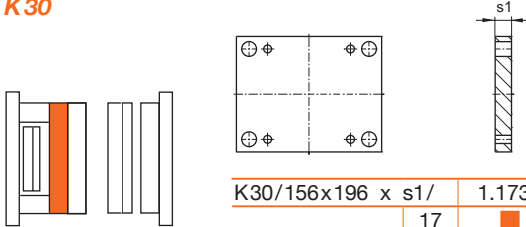
K16/156x196 x s1/	1.1730	1.2162	1.2085	1.2312
17	■	■	■	■
22	■		■	■

K20 K252



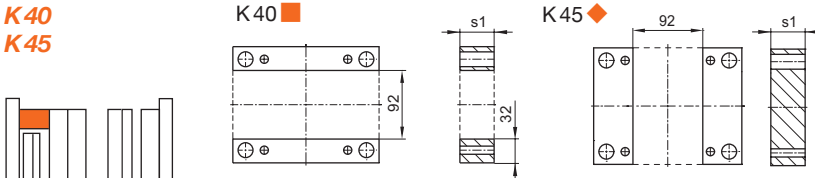
.../156x196 x s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■		■	■	■	■		■
22	■	■	■	■	■	■	■	■		■
27	■	■	■	■	■	■	■	■	■	■
36	■	■	■	■	■	■	■	■	■	■
46	■	■	■	■	■	■	■	■	■	■
56	■	■	■	■	■	■	■	■	■	■
66	■	■	■	■	■	■	■	■	■	■
76	■	■	■	■	■	■	■	■	■	■
86	■	■	■	■	■	■	■	■	■	■
96	■					■	■			

K30



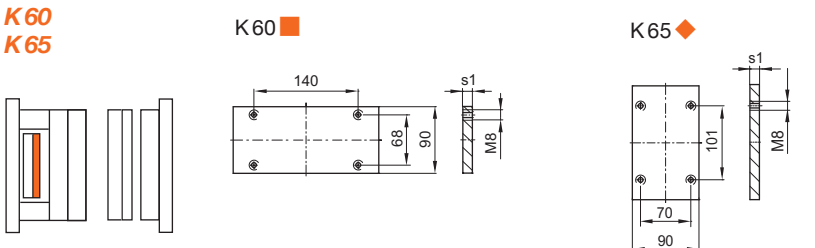
K30/156x196 x s1/	1.1730	1.2085	1.2312	K30/156x196 x s1/	1.1730	1.2085	1.2312
17	■	■	■	46	■	■	■
22	■	■	■	56	■		■
27	■	■	■	66	■		
36	■	■	■				

**K40
K45**



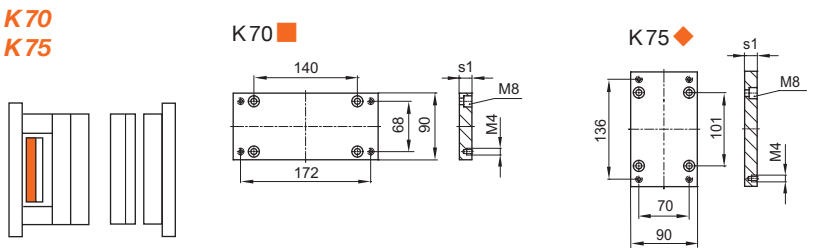
.../156x196 x s1/	1.1730	1.2085	1.2312	.../156x196 x s1/	1.1730	1.2085	1.2312
36	■	■		76	■ ◆	■ ◆	
46	■ ◆	■ ◆		86	■	■	
56	■ ◆	■ ◆		96	■	■	
66	■	■					

**K60
K65**



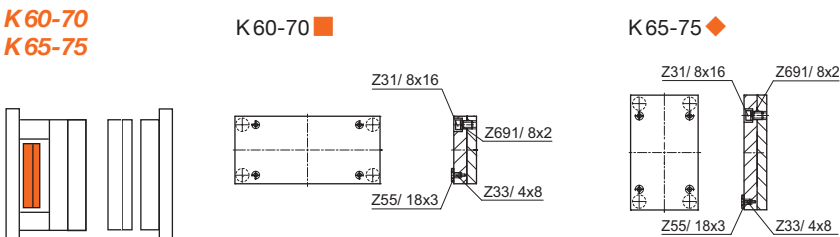
.../156x196 x s1/	1.1730	1.2085	1.2312
9	■ ◆	■ ◆	

**K70
K75**



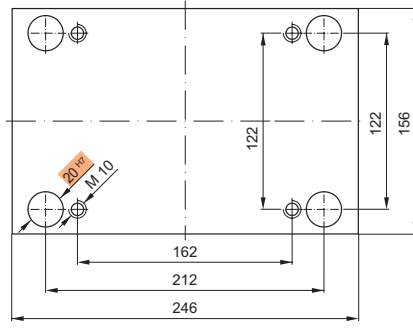
.../156x196 x s1/	1.1730	1.2085	1.2312
17	■ ◆	■ ◆	■ ◆

**K60-70
K65-75**



.../156x196 x	1.1730	1.2085
	■ ◆	■ ◆

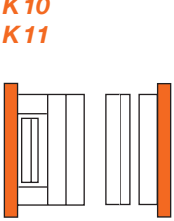
156x246



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 156x246x36 / 1.2767

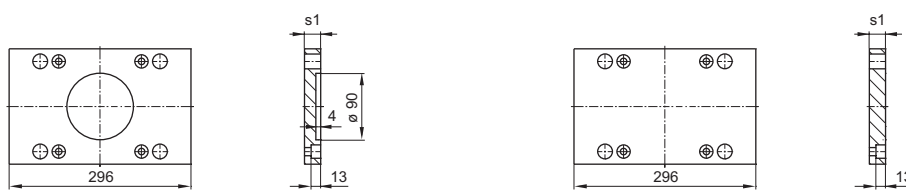
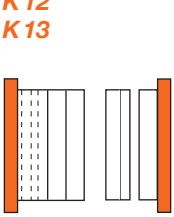
K10 K11



K10/156x246 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K11/156x246 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K12 K13



K12/156x246 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K13/156x246 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K15 K16

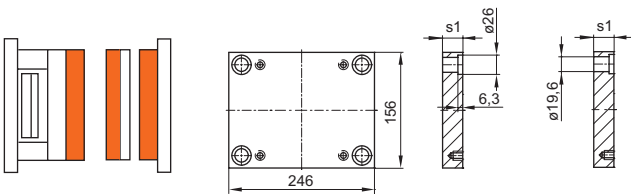


K15/156x246 x s1/	1.1730	1.2162	1.2085	1.2312
17	■		■	■
22	■		■	■

K16/156x246 x s1/	1.1730	1.2162	1.2085	1.2312
17	■	■	■	■
22	■		■	■

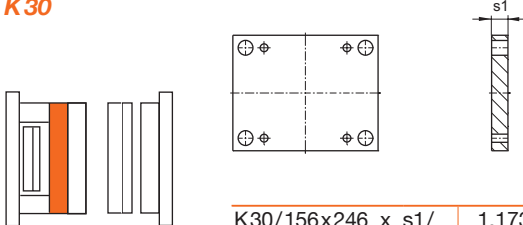
K20 K252

K20 ■ K252 ◆



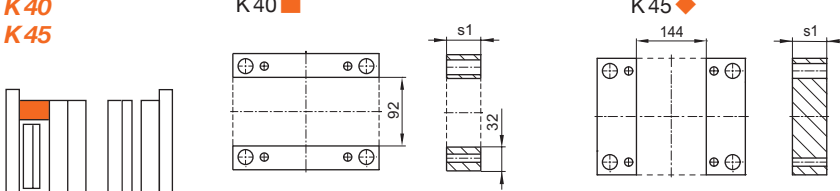
.../156x246 x s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	◆		◆	◆	◆	◆		■
22	■	■	◆	◆	◆	◆	◆	◆		■
27	■	■	◆	◆	◆	◆	◆	◆	◆	■
36	■	■	◆	◆	◆	◆	◆	◆	◆	■
46	■	■	◆	◆	◆	◆	◆	◆	◆	■
56	■	■	◆	◆	◆	◆	◆	◆	◆	■
66	■	■	◆	◆	◆	◆	◆	◆	◆	■
76	■	■	◆	◆	◆	◆	◆	◆	◆	■
86	■	■	◆	◆	◆	◆	◆	◆	◆	■
96	■					■	■			

K30



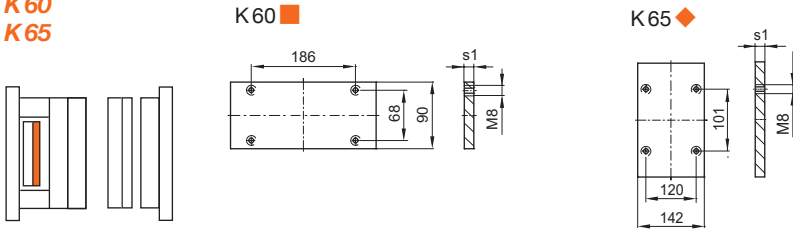
K30/156x246 x s1/	1.1730	1.2085	1.2312	K30/156x246 x s1/	1.1730	1.2085	1.2312
22	■	■	■	46	■	■	■
27	■	■	■	56	■		■
36	■	■	■				

**K40
K45**



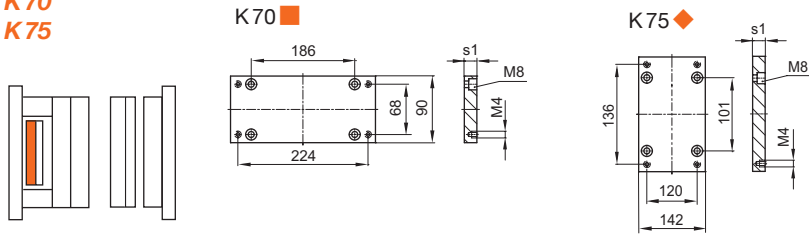
.../156x246 x s1/	1.1730	1.2085	1.2312	.../156x246 x s1/	1.1730	1.2085	1.2312
46	■ ◆	■ ◆		76	■ ◆	■ ◆	
56	■ ◆	■ ◆		86	■	■	
66	■	■		96	■	■	

**K60
K65**



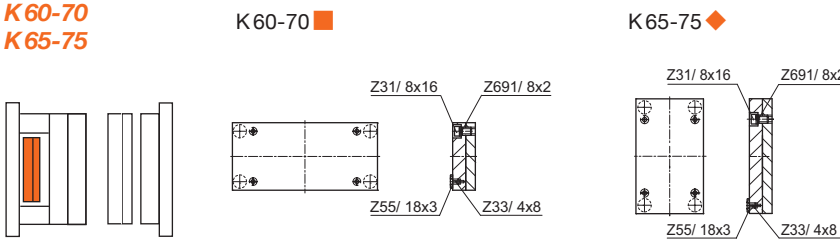
.../156x246 x s1/	1.1730	1.2085	1.2312
9	■ ◆	■ ◆	

**K70
K75**



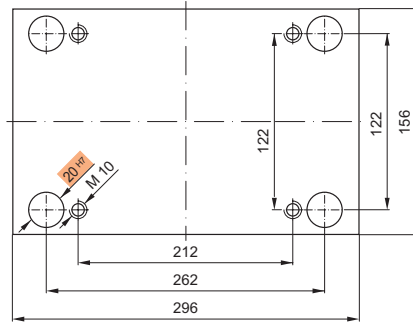
.../156x246 x s1/	1.1730	1.2085	1.2312
17	■ ◆	■ ◆	■ ◆

**K60-70
K65-75**



.../156x246 x	1.1730	1.2085
	■ ◆	■ ◆

156x296



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 156x296x36 / 1.2162

K10
K11

K10/156x296 x s1/	1.1730	1.2162	1.2085	1.2312	K11/156x296 x s1/	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■

K12
K13

K12/156x296 x s1/	1.1730	1.2162	1.2085	1.2312	K13/156x296 x s1/	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■

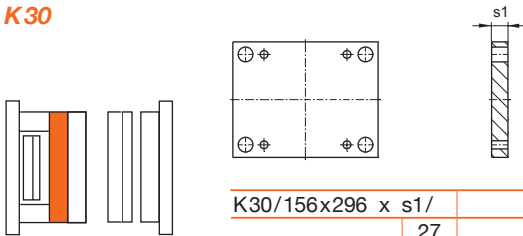
K15
K16

K15/156x296 x s1/	1.1730	1.2162	1.2085	1.2312	K16/156x296 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■	22	■		■	■

K20 ■ **K252** ◆

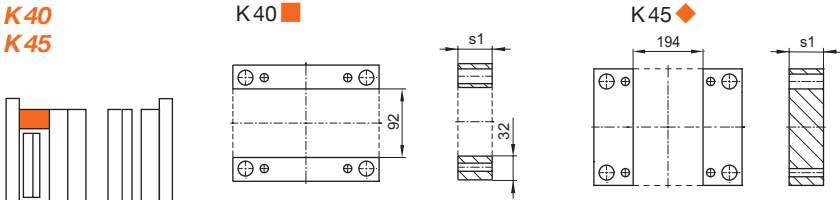
.../156x296 x s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■			■ ◆	■ ◆	■ ◆			■
22	■	■			■ ◆	■ ◆	■ ◆			■
27	■	■		■	■ ◆	■ ◆	■ ◆			■
36	■	■		■	■ ◆	■ ◆	■ ◆			■
46	■	■		■	■ ◆	■ ◆	■ ◆			■
56	■	■		■	■ ◆	■ ◆	■ ◆			■
66	■	■		■	■ ◆	■ ◆	■ ◆			■
76	■	■		■	■ ◆	■ ◆	■ ◆			■
86	■	■		■	■ ◆	■ ◆	■ ◆			■

K30



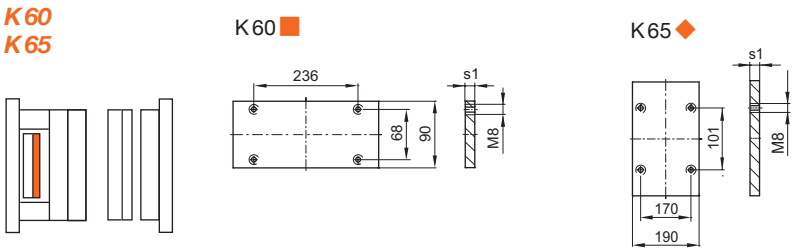
K30/156x296 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■	■	■
56	■	■	■

**K40
K45**



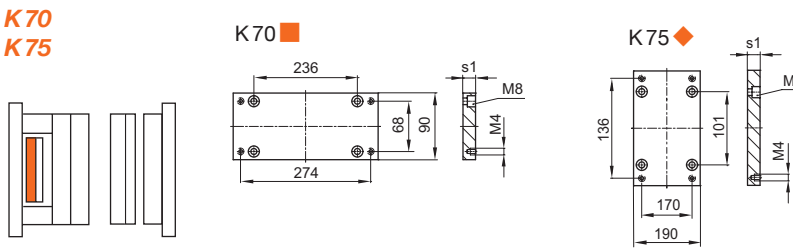
.../156x296 x s1/	1.1730	1.2085	1.2312	.../156x296 x s1/	1.1730	1.2085	1.2312
46	■ ◆	■ ◆		76	■ ◆	■ ◆	
56	■ ◆	■ ◆		86	■	■	
66	■	■		96	■	■	

**K60
K65**



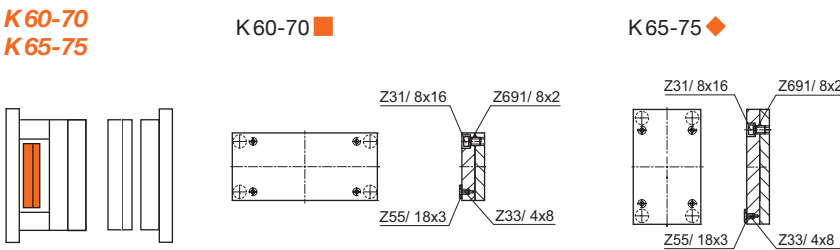
.../156x296 x s1/	1.1730	1.2085	1.2312
12	■ ◆	■ ◆	

**K70
K75**



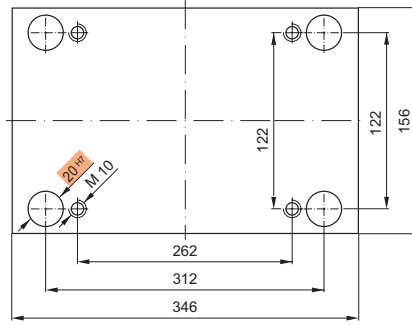
.../156x296 x s1/	1.1730	1.2085	1.2312
17	■ ◆	■ ◆	■ ◆

**K60-70
K65-75**



.../156x296 x	1.1730	1.2085
	■ ◆	■ ◆

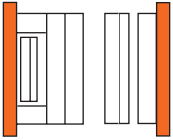
156x346



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 156x346x36 / 1.2162

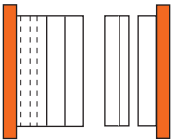
K10 K11



K10/156x346 x s1/	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K11/156x346 x s1/	1.1730	1.2162	1.2085	1.2312
27	■		■	■

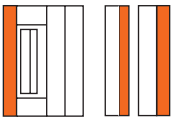
K12 K13



K12/156x346 x s1/	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K13/156x346 x s1/	1.1730	1.2162	1.2085	1.2312
27	■		■	■

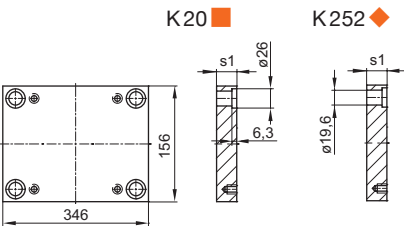
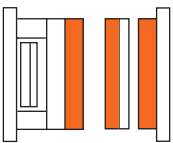
K15 K16



K15/156x346 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■

K16/156x346 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

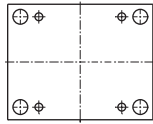
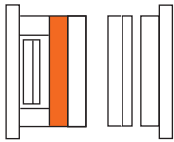
K20 K252



K20 ■ K252 ◆

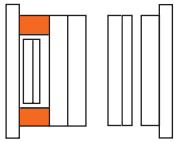
.../156x346 x s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■		◆		◆	◆	◆			■
22	■		◆	◆	◆	◆	◆	◆		■
27	■		◆	◆	◆	◆	◆	◆		■
36	■		◆	◆	◆	◆	◆	◆		■
46	■		◆	◆	◆	◆	◆	◆		■
56	■		◆	◆	◆	◆	◆	◆		■
66	■		◆	◆	◆	◆	◆	◆		■
76	■		◆	◆	◆	◆	◆	◆		■
86	■		◆	◆	◆	◆	◆	◆		■

K 30

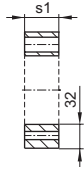
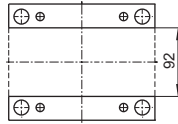


K30/156x346 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■		■
56	■		■

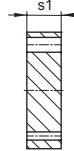
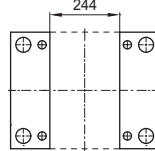
**K 40
K 45**



K 40 ■

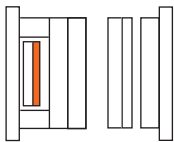


K 45 ◆

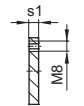
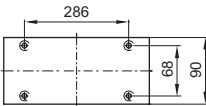


.../156x346 x s1/	1.1730	1.2085	1.2312	.../156x346 x s1/	1.1730	1.2085	1.2312
46	■ ◆	■ ◆		86	■		
56	■ ◆	■ ◆		96		■	
76	■ ◆	■ ◆					

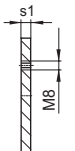
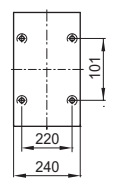
**K 60
K 65**



K 60 ■

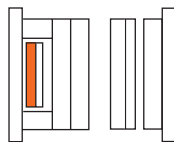


K 65 ◆

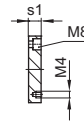
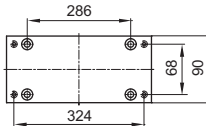


.../156x346 x s1/	1.1730	1.2085	1.2312
9	■ ◆	■ ◆	

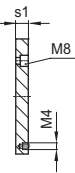
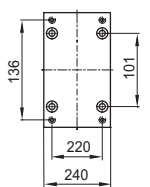
**K 70
K 75**



K 70 ■

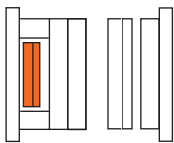


K 75 ◆

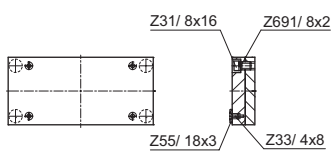


.../156x346 x s1/	1.1730	1.2085	1.2312
17	■ ◆	■ ◆	■ ◆

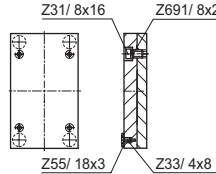
**K 60-70
K 65-75**



K 60-70 ■



K 65-75 ◆

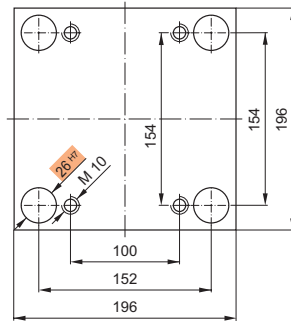


.../156x346 x	1.1730	1.2085
	■ ◆	■ ◆

196x196

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Répertoire K2500/...
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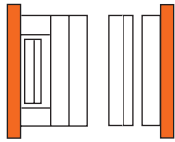
Register/Section
Répertoire KR
Seite/Page 283 (KR20/...)



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 196x196x36 / 1.2767

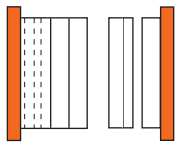
K10 K11



K10/196x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K11/196x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

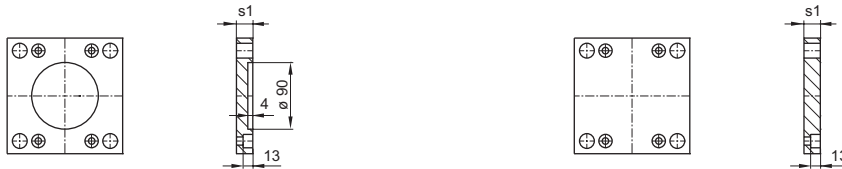
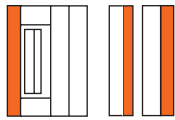
K12 K13



K12/196x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K13/196x196 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

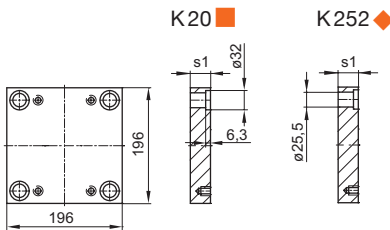
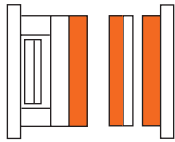
K15 K16



K15/196x196 x s1/	1.1730	1.2162	1.2085	1.2312
17	■		■	■
22	■		■	■

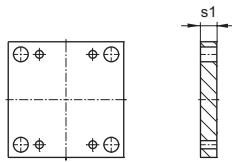
K16/196x196 x s1/	1.1730	1.2162	1.2085	1.2312
17	■	■	■	■
22	■		■	■

K20 K252



.../196x196 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■	■	■	■	■	■		■
22	■	■	■	■	■	■	■	■		■
27	■	■	■	■	■	■	■	■	■	■
36	■	■	■	■	■	■	■	■	■	■
46	■	■	■	■	■	■	■	■	■	■
56	■	■	■	■	■	■	■	■	■	■
66	■	■	■	■	■	■	■	■	■	■
76	■	■	■	■	■	■	■	■	■	■
86	■	■	■	■	■	■	■	■	■	■
96	■	■	■	■	■	■	■	■	■	■
116	■	■	■	■	■	■	■	■		■

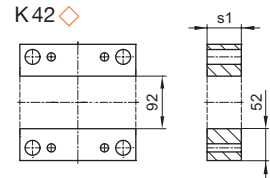
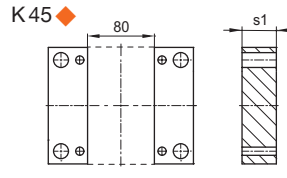
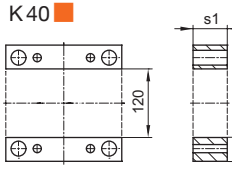
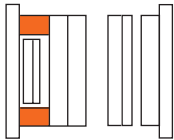
K30



K30/196x196 x s1/	1.1730	1.2085	1.2312
17	■	■	■
22	■	■	■
27	■	■	■
36	■	■	■

K30/196x196 x s1/	1.1730	1.2085	1.2312
46	■	■	■
56	■	■	■
66	■	■	■

**K40
K45
K42**

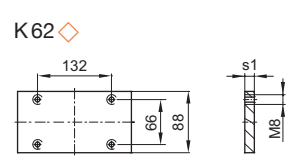
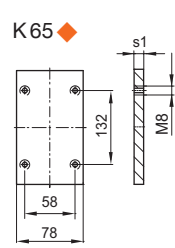
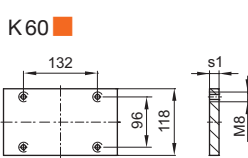
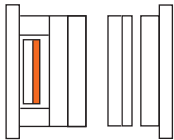


.../196x196 x s1/	1.1730	1.2085	1.2312
46	■ ◆ ◆	■ ◆	
56	■ ◆ ◆	■ ◆	
66	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆	

.../196x196 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◆	■ ◆	
96	■ ◆ ◆	■ ◆	
116	■ ◆ ◆	■ ◆	

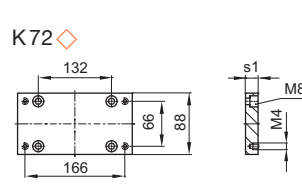
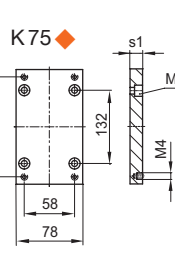
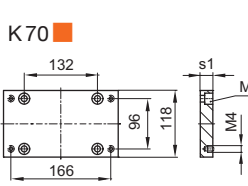
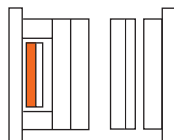


**K60
K65
K62**



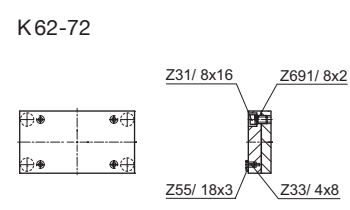
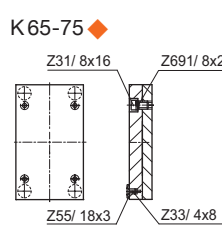
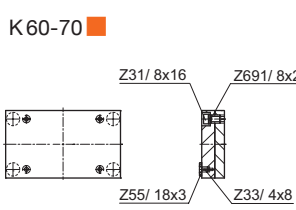
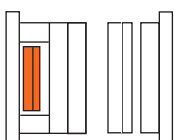
.../196x196 x s1/	1.1730	1.2085	1.2312
12	■ ◆ ◆	■ ◆	

**K70
K75
K72**



.../196x196 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	■ ◆ ◆

**K60-70
K65-75
K62-72**



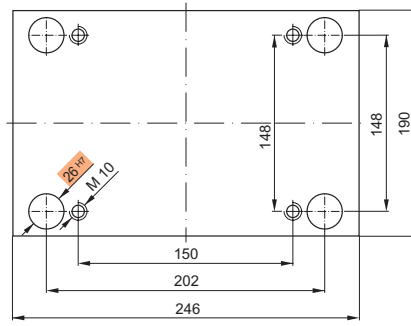
.../196x196 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/196x196/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

190x246

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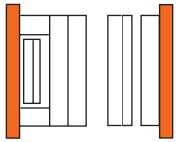
Register/Section
Répertoire KR
Seite/Page 284 (KR20/...)



Bestellbeispiel:
Ordering example:
Exemple de commande:

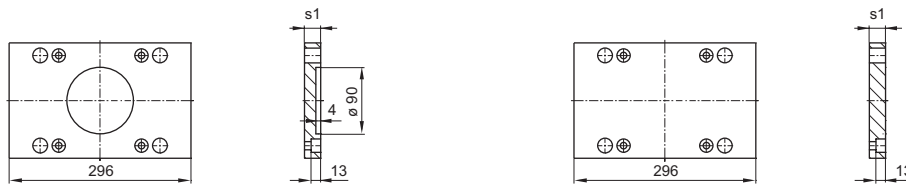
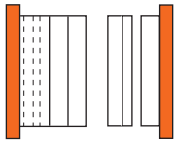
K20/190x246x36/1.2767

K10 K11



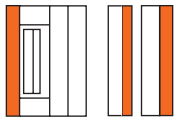
K10/190x246 x s1/	1.1730	1.2162	1.2085	1.2312	K11/190x246 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■	22	■		■	■
27	■		■	■	27	■		■	■

K12 K13



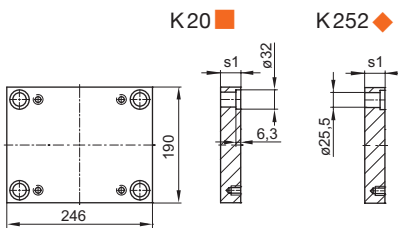
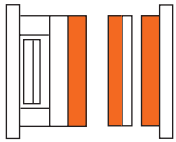
K12/190x246 x s1/	1.1730	1.2162	1.2085	1.2312	K13/190x246 x s1/	1.1730	1.2162	1.2085	1.2312
22	■		■	■	22	■		■	■
27	■		■	■	27	■		■	■

K15 K16



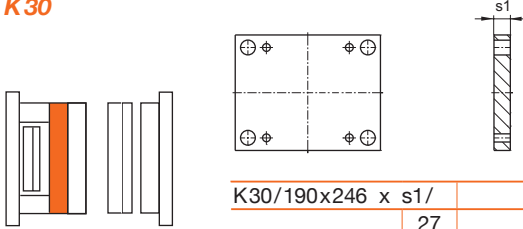
K15/190x246 x s1/	1.1730	1.2162	1.2085	1.2312	K16/190x246 x s1/	1.1730	1.2162	1.2085	1.2312
17	■		■	■	17	■	■	■	■
22	■		■	■	22	■		■	■

K20 K252



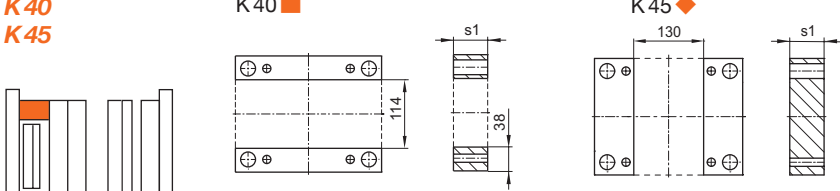
.../190x246 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■◆		■◆	■◆	■◆			■
22	■	■	■◆		■◆	■◆	■◆			■
27	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
36	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
46	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
56	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
66	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
76	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
86	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■
96	■	■	■◆	■◆	■◆	■◆	■◆	◆	◆	■

K30



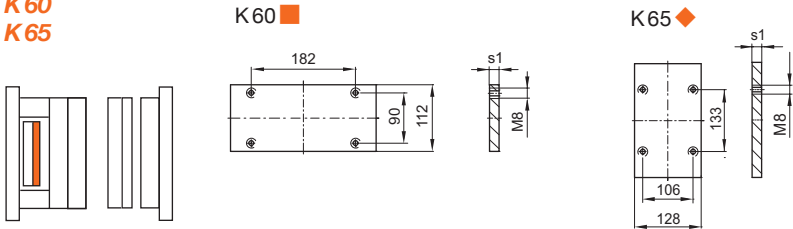
K30/190x246 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■		■
56	■		■

**K40
K45**



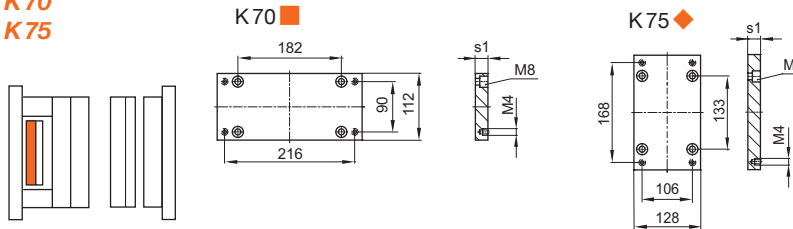
.../190x246 x s1/	1.1730	1.2085	1.2312
46	■ ◆	■ ◆	
56	■ ◆	■ ◆	
76	■ ◆	■ ◆	

**K60
K65**



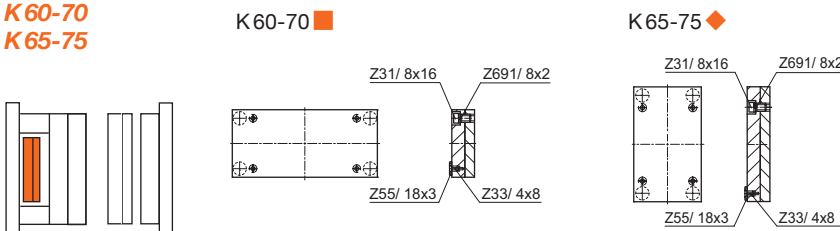
.../190x246 x s1/	1.1730	1.2085	1.2312
12	■ ◆	■ ◆	

**K70
K75**



.../190x246 x s1/	1.1730	1.2085	1.2312
17	■ ◆	■ ◆	■ ◆

**K60-70
K65-75**

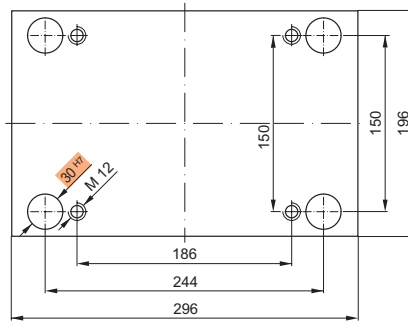


.../190x246 x	1.1730	1.2085
	■ ◆	■ ◆

196x296



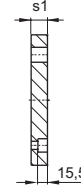
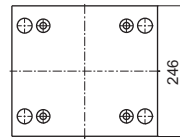
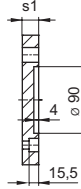
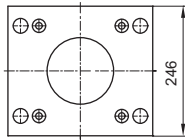
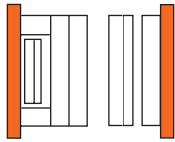
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Répertoire KR
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Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 196x296x36 / 1.2767

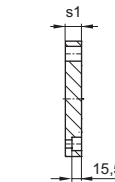
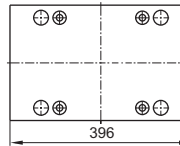
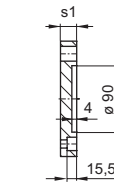
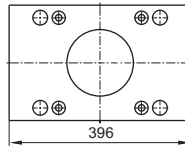
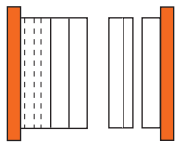
K10 K11



K10/196x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/196x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

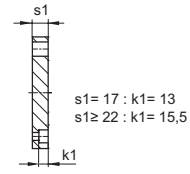
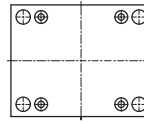
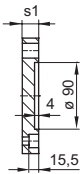
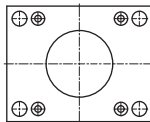
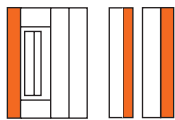
K12 K13



K12/196x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/196x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

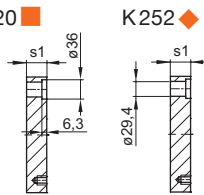
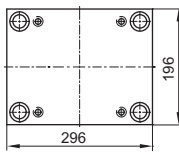
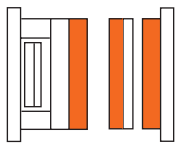
K15 K16



K15/196x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

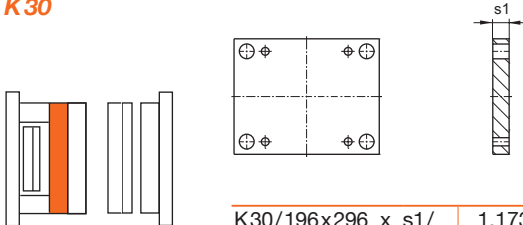
K16/196x296 / s1	1.1730	1.2162	1.2085	1.2312
17	■	■	■	
22	■		■	■
27	■		■	■

K20 K252



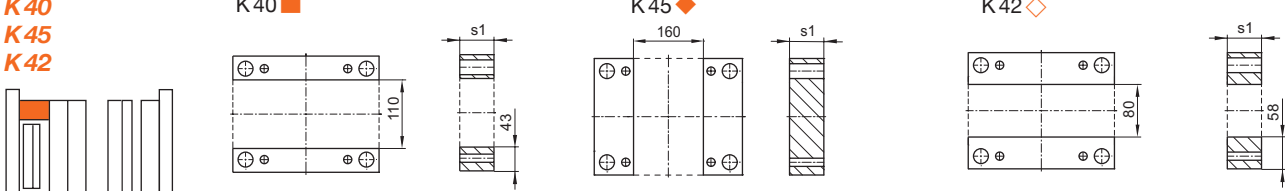
.../196x296 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■		■	■	■	■		■
22	■	■	■	■	■	■	■	■		■
27	■	■	■	■	■	■	■	■	■	■
36	■	■	■	■	■	■	■	■	■	■
46	■	■	■	■	■	■	■	■	■	■
56	■	■	■	■	■	■	■	■	■	■
66	■	■	■	■	■	■	■	■	■	■
76	■	■	■	■	■	■	■	■	■	■
86	■	■	■	■	■	■	■	■	■	■
96	■	■	■	■	■	■	■	■	■	■
116	■					■	■			

K30



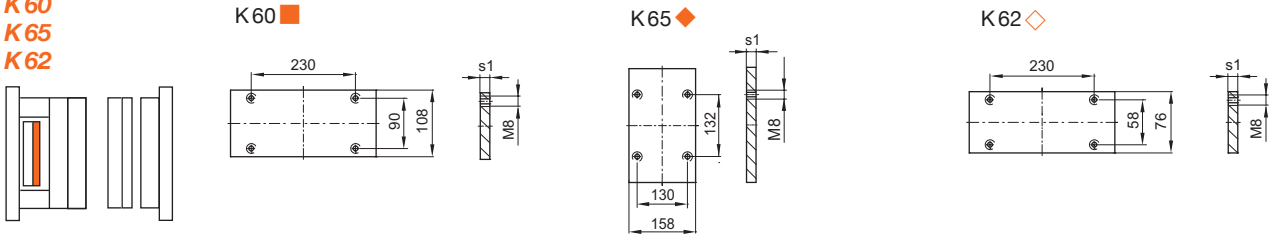
K30/196x296 x s1/	1.1730	1.2085	1.2312	K30/196x296 x s1/	1.1730	1.2085	1.2312
22	■		■	46	■	■	■
27	■	■	■	56	■		■
36	■	■	■	66	■		■

**K40
K45
K42**



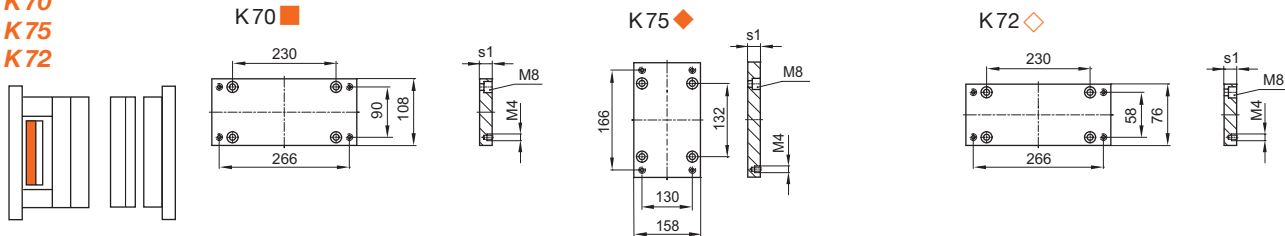
.../196x296 x s1/	1.1730	1.2085	1.2312	.../196x296 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆		86	■ ◆ ◆	■	
66	■ ◆ ◆	■		96	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■	

**K60
K65
K62**



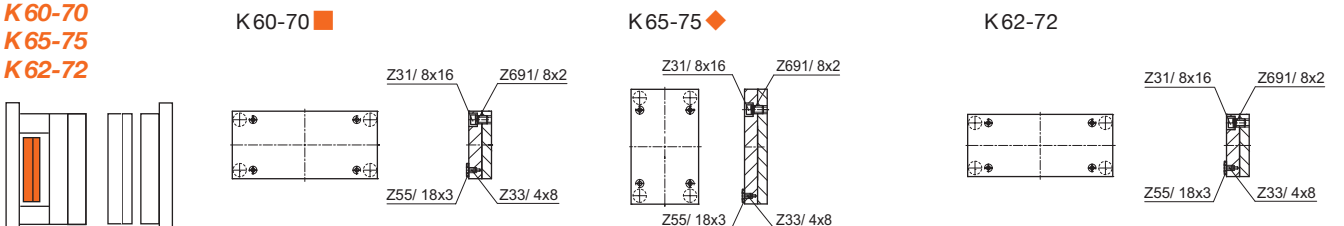
.../196x296 x s1/	1.1730	1.2085	1.2312
12	■ ◆ ◆	■ ◆	

**K70
K75
K72**



.../196x296 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	■ ◆ ◆

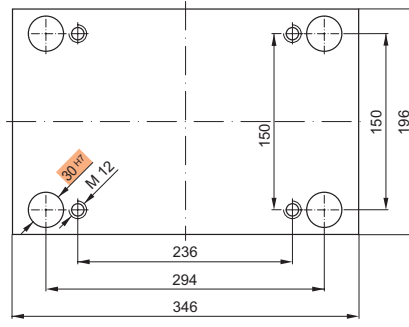
**K60-70
K65-75
K62-72**



.../196x296 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/196x296/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

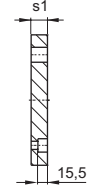
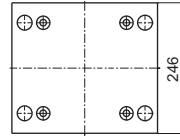
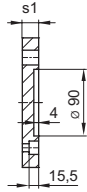
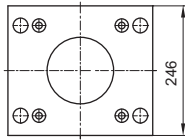
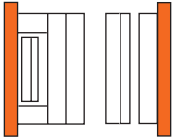
196x346



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 196x346x36 / 1.2767

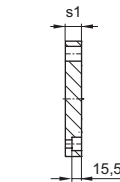
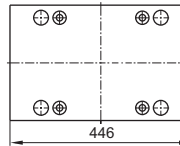
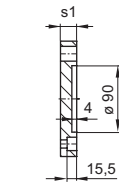
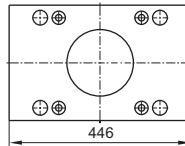
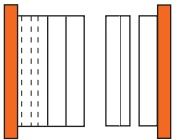
K10 K11



K10/196x346 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/196x346 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

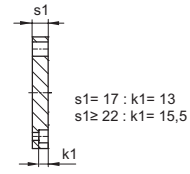
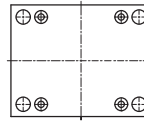
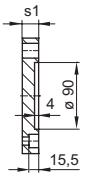
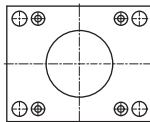
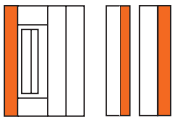
K12 K13



K12/196x346 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/196x346 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

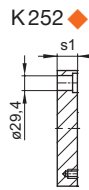
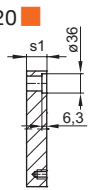
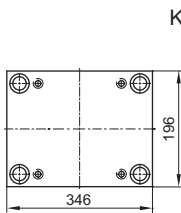
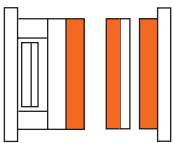
K15 K16



K15/196x346 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

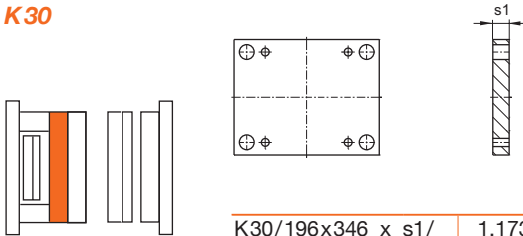
K16/196x346 / s1	1.1730	1.2162	1.2085	1.2312
17	■	■	■	
22	■		■	■
27	■		■	■

K20 K252



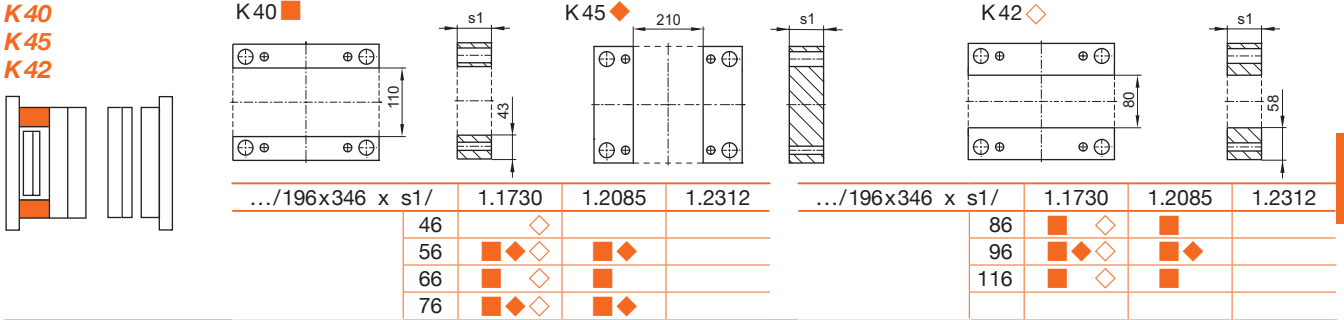
.../196x346 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■		◆		■◆	■◆	■◆			■
22	■		◆		■◆	■◆	■◆	◆		■
27	■		◆	◆	■◆	■◆	■◆	◆	◆	■
36	■		◆	◆	■◆	■◆	■◆	◆	◆	■
46	■		◆	◆	■◆	■◆	■◆	◆	◆	■
56	■		◆	◆	■◆	■◆	■◆	◆	◆	■
66	■		◆	◆	■◆	■◆	■◆	◆	◆	■
76	■		◆	◆	■◆	■◆	■◆	◆	◆	■
86	■		◆	◆	■◆	■◆	■◆	◆	◆	■
96	■		◆	◆	■◆	■◆	■◆	◆	◆	■
116						■	■			

K30



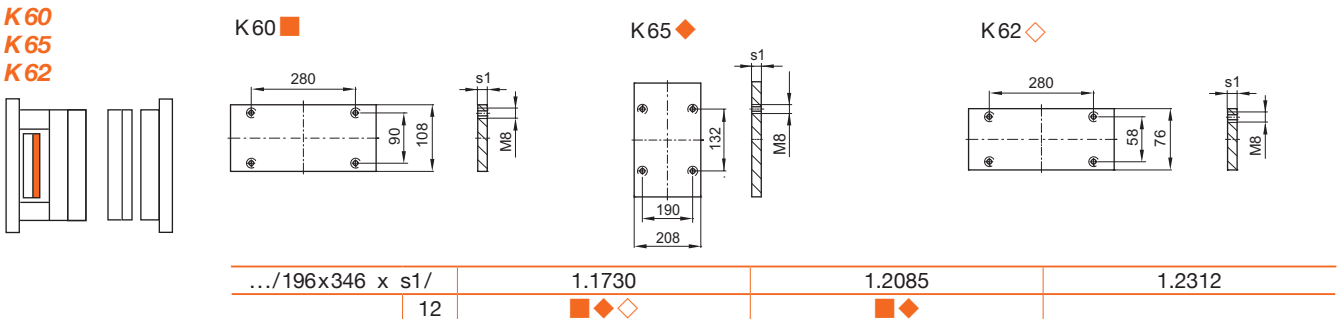
K30/196x346 x s1/	1.1730	1.2085	1.2312	K30/196x346 x s1/	1.1730	1.2085	1.2312
22	■		■	46	■	■	■
27	■	■	■	56	■	■	■
36	■	■	■				

**K40
K45
K42**



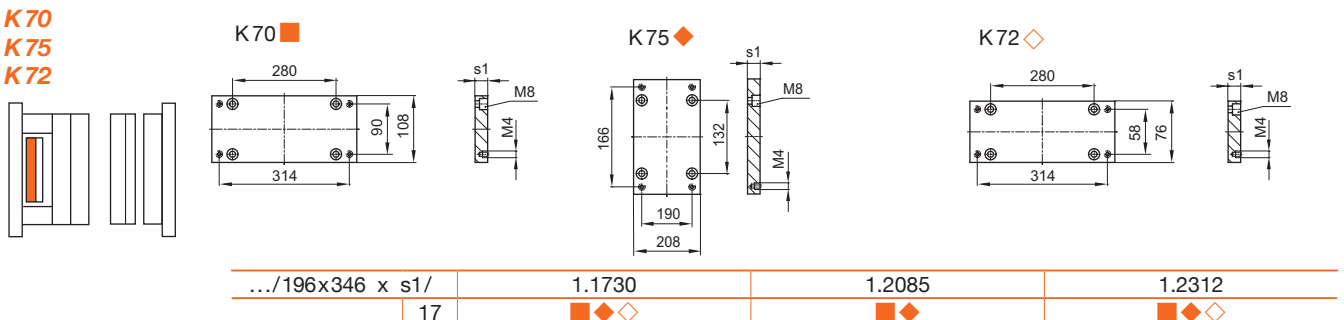
.../196x346 x s1/	1.1730	1.2085	1.2312	.../196x346 x s1/	1.1730	1.2085	1.2312
46	◇			86	■	◇	■
56	■	◇	■	96	■	◇	■
66	■	◇	■	116	■	◇	■
76	■	◇	■				

**K60
K65
K62**



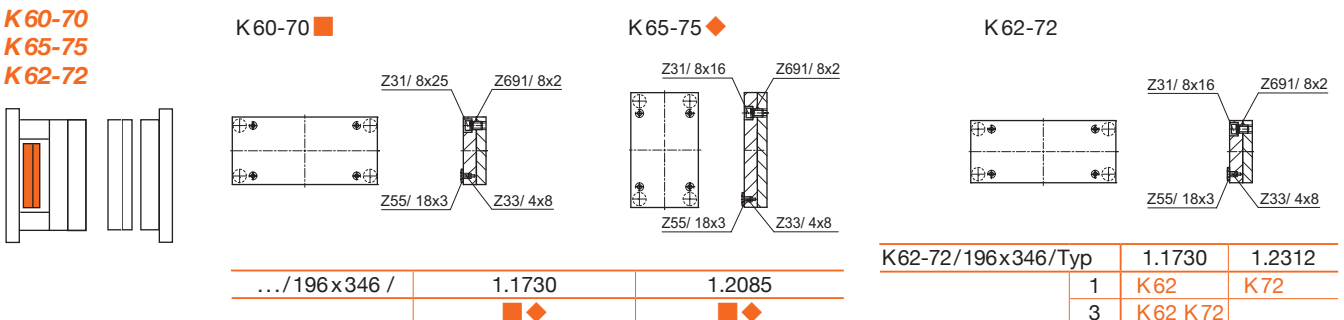
.../196x346 x s1/	1.1730	1.2085	1.2312
12	■	◇	■

**K70
K75
K72**



.../196x346 x s1/	1.1730	1.2085	1.2312
17	■	◇	■

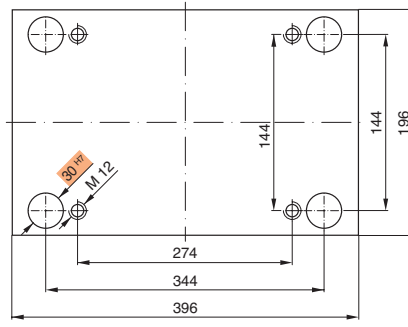
**K60-70
K65-75
K62-72**



.../196x346 /	1.1730	1.2085
	■	◇

K62-72/196x346/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

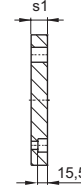
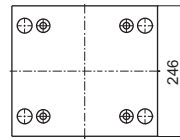
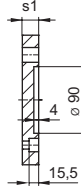
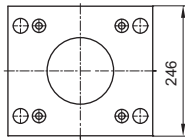
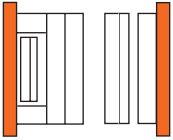
196x396



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/196x396x36/1.2162

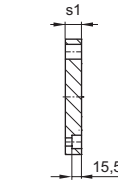
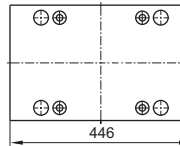
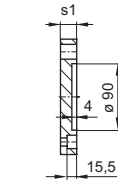
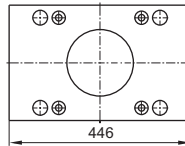
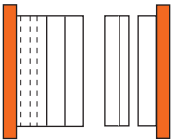
K10
K11



K10/196x396 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/196x396 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

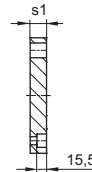
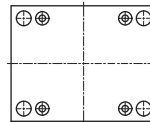
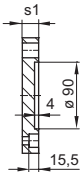
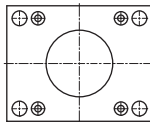
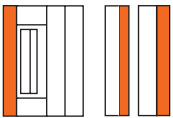
K12
K13



K12/196x396 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K13/196x396 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

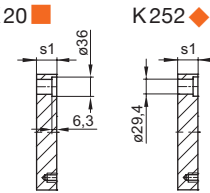
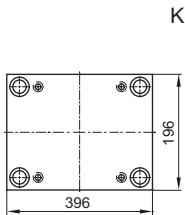
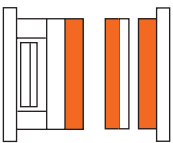
K15
K16



K15/196x396 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

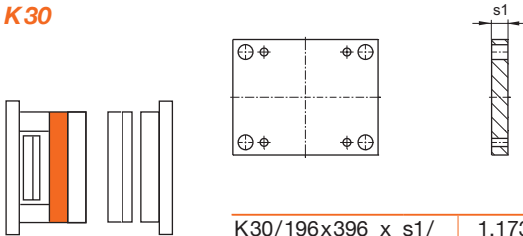
K16/196x396 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K20
K252



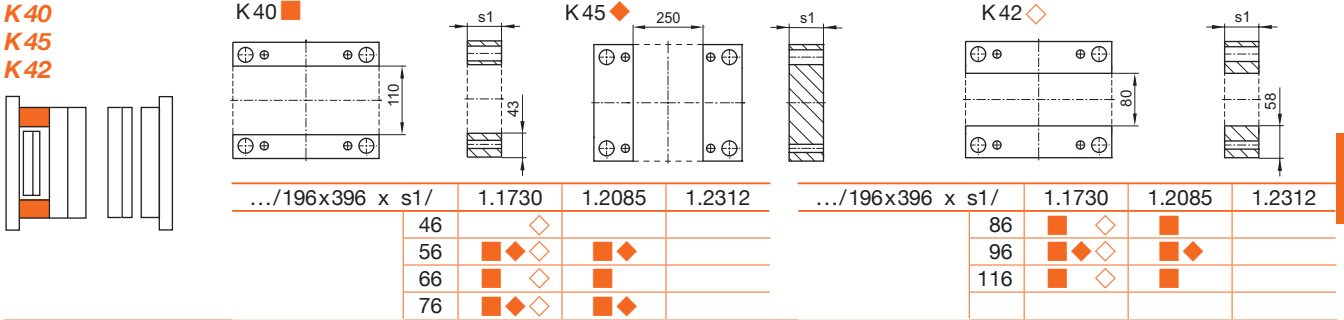
.../196x396 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■	■	■			■
27	■				■	■	■			■
36	■				■	■	■			■
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116						■	■			

K30



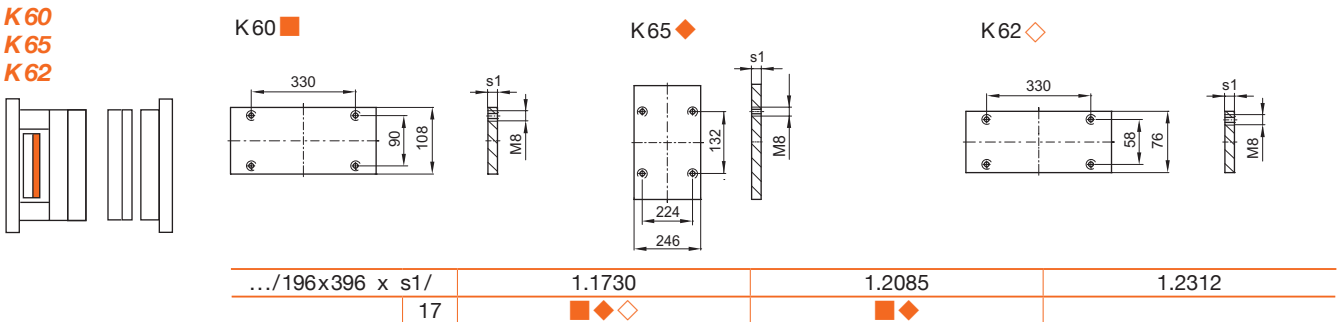
K30/196x396 x s1/	1.1730	1.2085	1.2312	K30/196x396 x s1/	1.1730	1.2085	1.2312
22	■		■	46	■	■	■
27	■	■	■	56	■		■
36	■	■	■				

**K40
K45
K42**



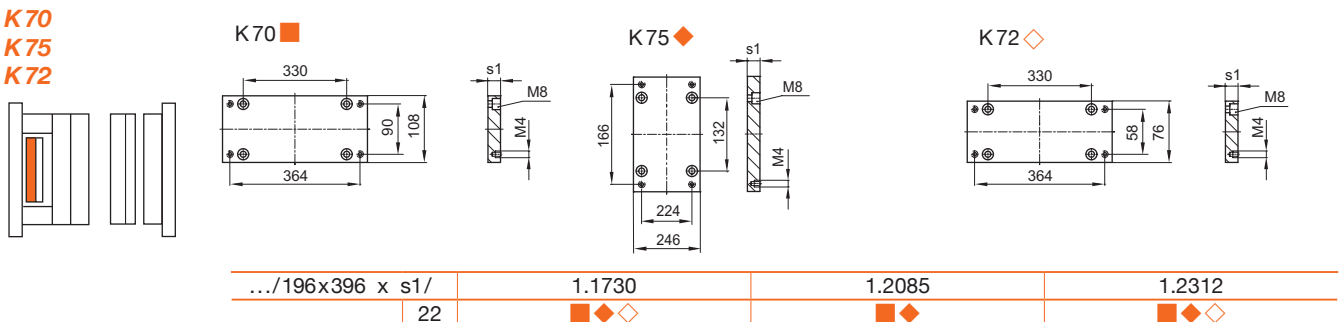
.../196x396 x s1/	1.1730	1.2085	1.2312	.../196x396 x s1/	1.1730	1.2085	1.2312
46	◇			86	■	◇	
56	■	◇	■	96	■	◇	■
66	■	◇	■	116	■	◇	■
76	■	◇	■				

**K60
K65
K62**



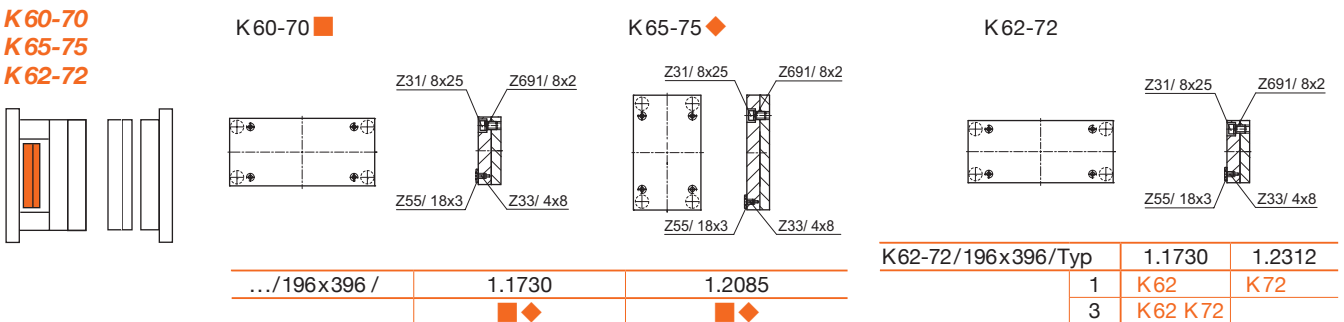
.../196x396 x s1/	1.1730	1.2085	1.2312
17	■	◇	■

**K70
K75
K72**



.../196x396 x s1/	1.1730	1.2085	1.2312
22	■	◇	■

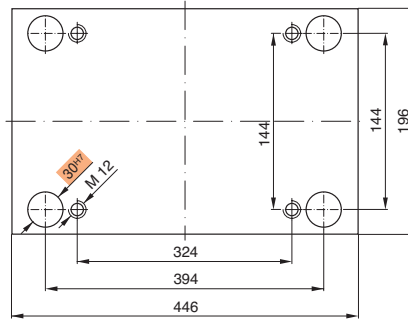
**K60-70
K65-75
K62-72**



.../196x396 /	1.1730	1.2085
	■	◇

K62-72/196x396/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

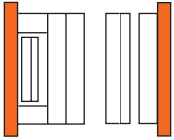
196x446



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 196x446x36 / 1.2162

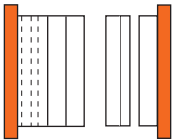
K10
K11



K10/196x446 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/196x446 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

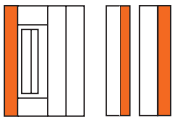
K12
K13



K12/196x446 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K13/196x446 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

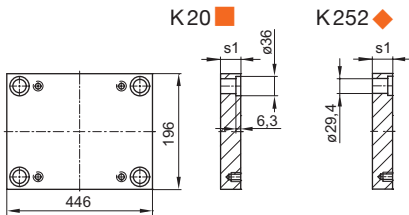
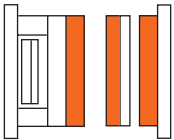
K15
K16



K15/196x446 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

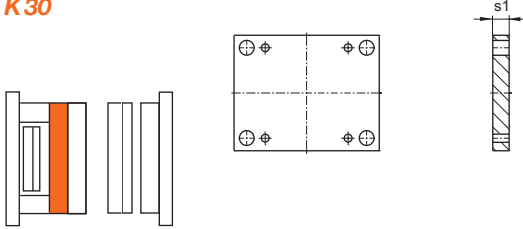
K16/196x446 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K20
K252



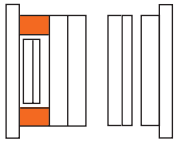
.../196x446 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■		◆		■◆	■◆	■◆			■
27	■		◆	◆	■◆	■◆	■◆	◆		■
36	■		◆	◆	■◆	■◆	■◆	◆		■
46	■		◆	◆	■◆	■◆	■◆	◆		■
56	■		◆	◆	■◆	■◆	■◆	◆		■
66	■		◆	◆	■◆	■◆	■◆	◆		■
76	■		◆	◆	■◆	■◆	■◆	◆		■
86	■		◆	◆	■◆	■◆	■◆	◆		■
96	■		◆		■◆	■◆	■◆	◆		■

K30



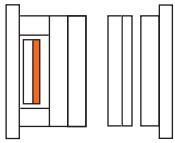
K30/196x446 x s1/	1.1730	1.2085	1.2312	K30/196x446 x s1/	1.1730	1.2085	1.2312
27	■		■	46	■		■
36	■	■	■	56	■		■

**K40
K45
K42**



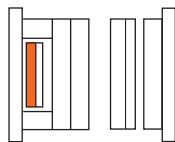
.../196x446 x s1/	1.1730	1.2085	1.2312	.../196x446 x s1/	1.1730	1.2085	1.2312
46	◇			86	■ ◇	■	
56	■ ◇ ◇	■ ◇		96	■ ◇ ◇	■ ◇	
66	■ ◇	■		116	◇		
76	■ ◇ ◇	■ ◇					

**K60
K65
K62**



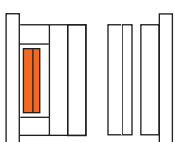
.../196x446 x s1/	1.1730	1.2085	1.2312
17	■ ◇ ◇	■ ◇	

**K70
K75
K72**



.../196x446 x s1/	1.1730	1.2085	1.2312
22	■ ◇ ◇	■ ◇	■ ◇ ◇

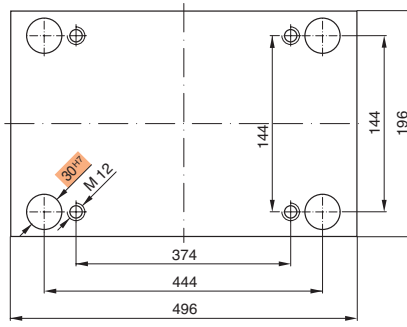
**K60-70
K65-75
K62-72**



.../196x446 /	1.1730	1.2085
	■ ◇	■ ◇

K62-72/196x446/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

196x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 196x496x36 / 1.2162

K10
K11

K10/196x496 / s1	1.1730	1.2162	1.2085	1.2312	K11/196x496 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■	36	■		■	■

K12
K13

K12/196x496 / s1	1.1730	1.2162	1.2085	1.2312	K13/196x496 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■	36	■		■	■

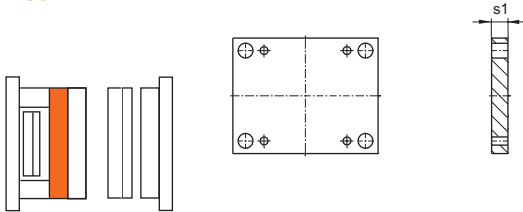
K15
K16

K15/196x496 / s1	1.1730	1.2162	1.2085	1.2312	K16/196x496 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■

K20 ■ **K252** ◆

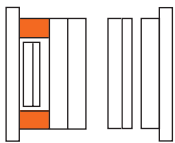
.../196x496 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■		◆		■◆	■◆	■◆			■
27	■		◆	◆	■◆	■◆	■◆	◆		■
36	■		◆	◆	■◆	■◆	■◆	◆		■
46	■		◆	◆	■◆	■◆	■◆	◆		■
56	■		◆	◆	■◆	■◆	■◆	◆		■
66	■		◆	◆	■◆	■◆	■◆	◆		■
76	■		◆	◆	■◆	■◆	■◆	◆		■
86	■		◆	◆	■◆	■◆	■◆	◆		■
96	■		◆	◆	■◆	■◆	■◆	◆		■

K30



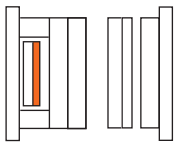
K30/196x496 x s1/	1.1730	1.2085	1.2312	K30/196x496 x s1/	1.1730	1.2085	1.2312
27	■		■	46	■		■
36	■	■	■	56	■		■

**K40
K45
K42**



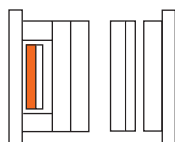
.../196x496 x s1/	1.1730	1.2085	1.2312	.../196x496 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆		86	■ ◆ ◆	■	
66	■ ◆ ◆	■		96	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■	

**K60
K65
K62**



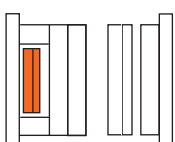
.../196x496 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	

**K70
K75
K72**



.../196x496 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	■ ◆ ◆

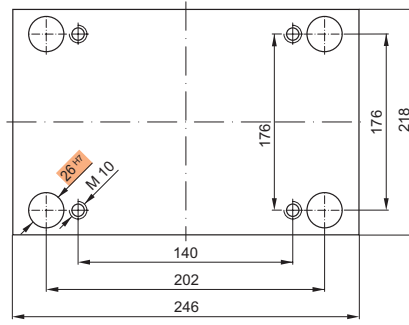
**K60-70
K65-75
K62-72**



.../196x496 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/196x496/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

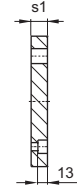
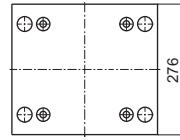
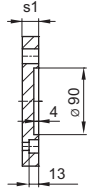
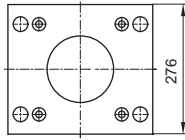
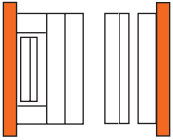
218x246



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/218x246x36/1.2767

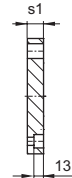
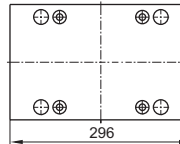
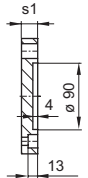
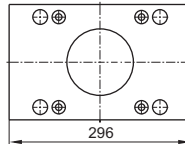
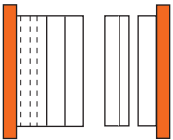
K10 K11



K10/218x246 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K11/218x246 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

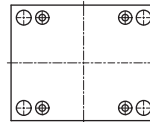
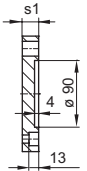
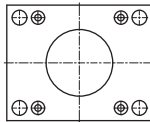
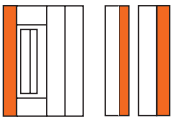
K12 K13



K12/218x246 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K13/218x246 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

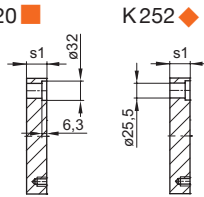
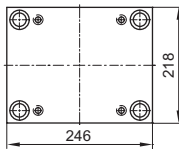
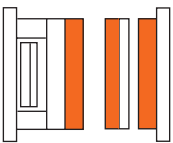
K15 K16



K15/218x246 / s1	1.1730	1.2162	1.2085	1.2312
17	■		■	■
22	■		■	■

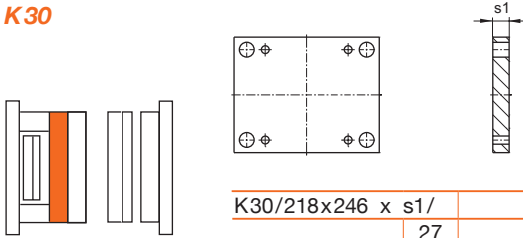
K16/218x246 / s1	1.1730	1.2162	1.2085	1.2312
17	■		■	■
22	■		■	■

K20 K252



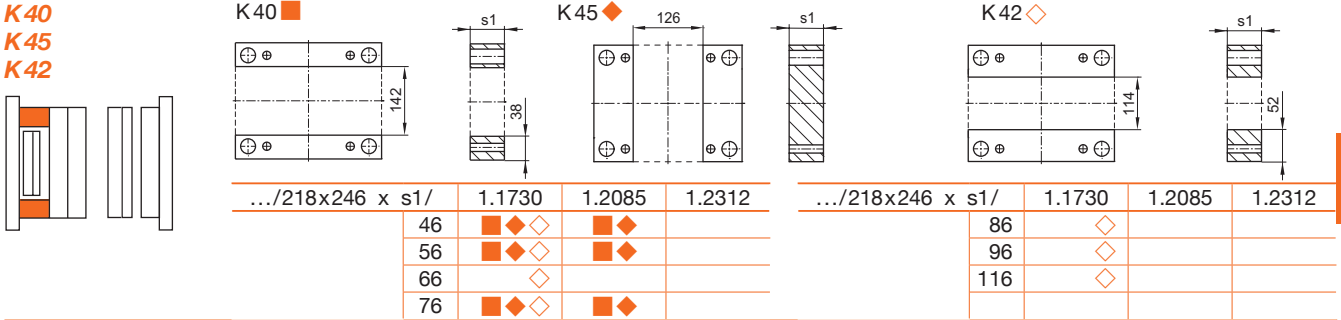
.../218x246 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■◆		■◆	■◆	■◆			■
22	■	■	■◆		■◆	■◆	■◆			■
27	■	■	■◆		■◆	■◆	■◆			■
36	■	■	■◆		■◆	■◆	■◆			■
46	■	■	■◆		■◆	■◆	■◆			■
56	■	■	■◆		■◆	■◆	■◆			■
66	■	■	■◆		■◆	■◆	■◆			■
76	■	■	■◆		■◆	■◆	■◆			■
86	■	■	■◆		■◆	■◆	■◆			■
96	■	■	■◆		■◆	■◆	■◆			■

K30



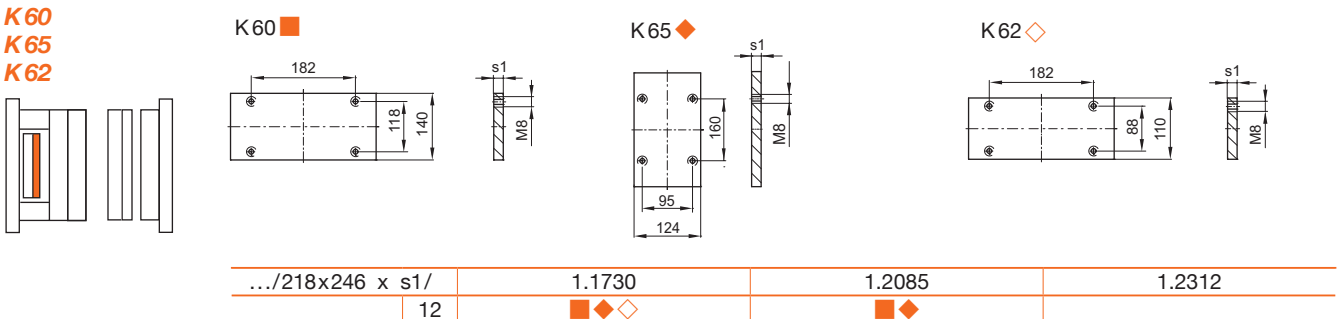
K30/218x246 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■		■
56	■		■

**K40
K45
K42**



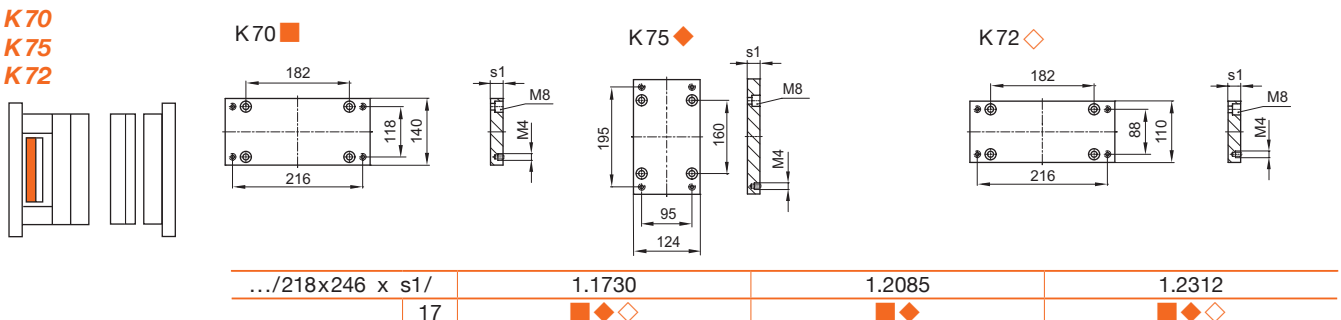
.../218x246 x s1/	1.1730	1.2085	1.2312	.../218x246 x s1/	1.1730	1.2085	1.2312
46	■ ◆ ◆	■ ◆		86	◆		
56	■ ◆ ◆	■ ◆		96	◆		
66	◆ ◆			116	◆		
76	■ ◆ ◆	■ ◆					

**K60
K65
K62**



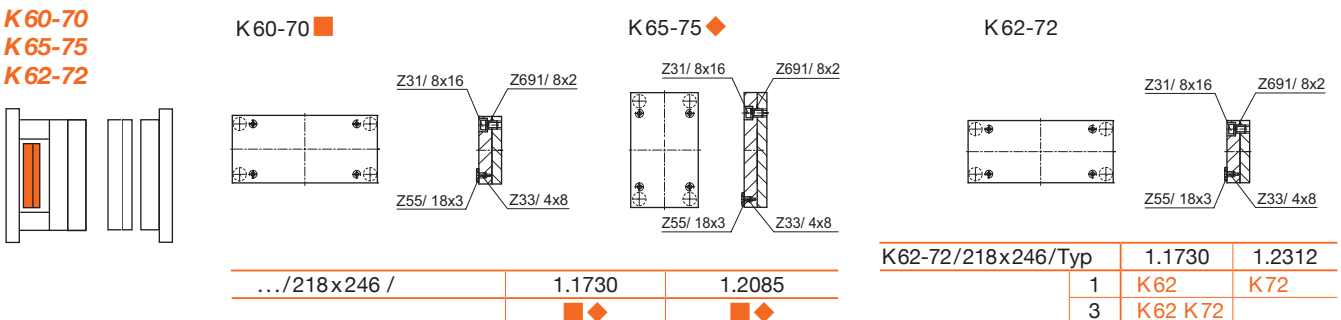
.../218x246 x s1/	1.1730	1.2085	1.2312
12	■ ◆ ◆	■ ◆	

**K70
K75
K72**



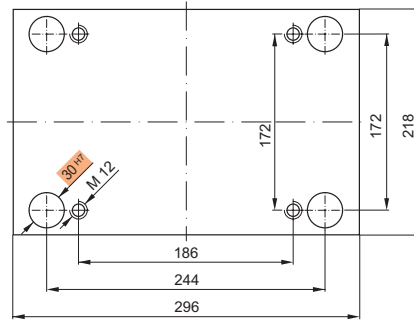
.../218x246 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	■ ◆ ◆

**K60-70
K65-75
K62-72**



.../218x246 /	1.1730	1.2085	K62-72/218x246/Typ	
	■ ◆	■ ◆	1	K62 K72
			3	K62 K72

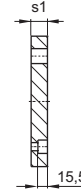
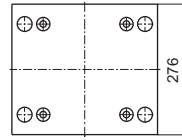
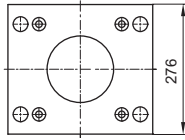
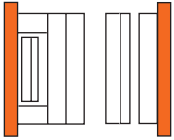
218x296



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/218x296x36/1.2767

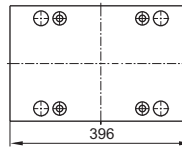
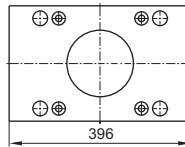
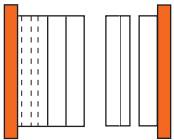
K10 K11



K10/218x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/218x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

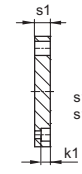
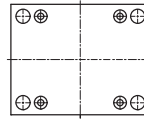
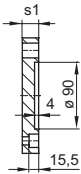
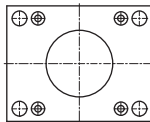
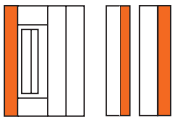
K12 K13



K12/218x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■
36	■		■	■

K13/218x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■
36	■		■	■

K15 K16

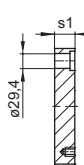
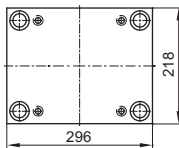
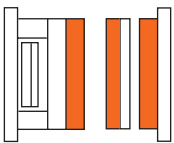


K15/218x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K16/218x296 / s1	1.1730	1.2162	1.2085	1.2312
17	■	■	■	
22	■		■	■
27	■		■	■

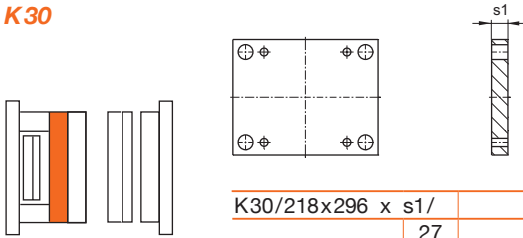
K20 K252

K20 ■ K252 ◆



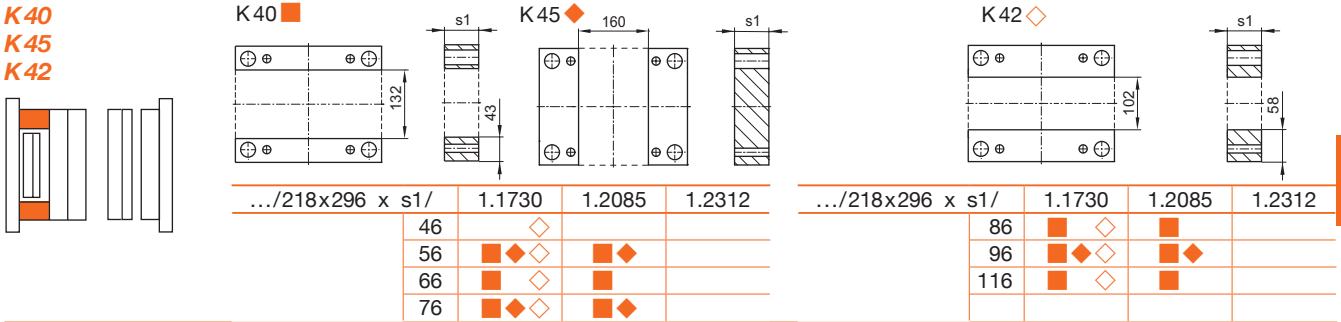
.../218x296 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■◆		■◆	■◆	■◆			■
22	■	■	■◆		■◆	■◆	■◆			■
27	■	■	■◆		■◆	■◆	■◆			■
36	■	■	■◆		■◆	■◆	■◆			■
46	■	■	■◆		■◆	■◆	■◆			■
56	■	■	■◆		■◆	■◆	■◆			■
66	■	■	■◆		■◆	■◆	■◆			■
76	■	■	■◆		■◆	■◆	■◆			■
86	■	■	■◆		■◆	■◆	■◆			■
96	■	■	■◆		■◆	■◆	■◆			■

K30



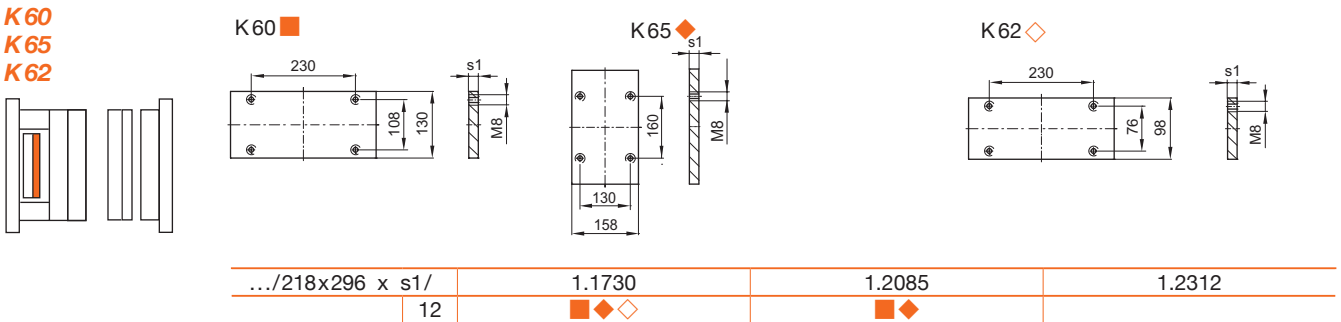
K30/218x296 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■		■
56	■		■

**K40
K45
K42**



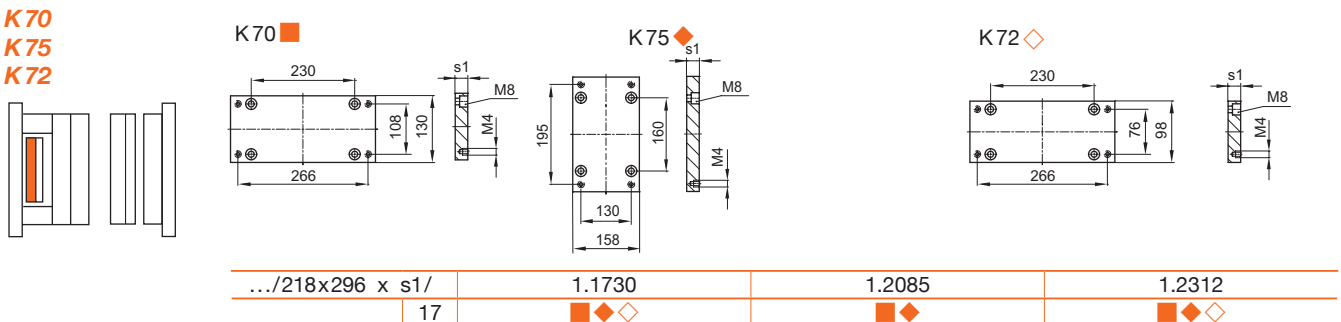
.../218x296 x s1/	1.1730	1.2085	1.2312	.../218x296 x s1/	1.1730	1.2085	1.2312
46	◇			86	■ ◇	■	
56	■ ◇ ◇	■ ◇		96	■ ◇ ◇	■ ◇	
66	■ ◇	■		116	■ ◇	■	
76	■ ◇ ◇	■ ◇					

**K60
K65
K62**



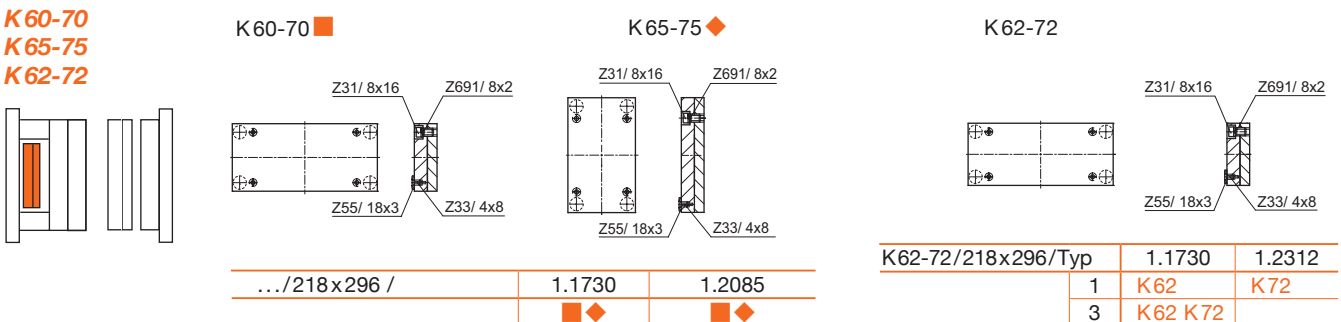
.../218x296 x s1/	1.1730	1.2085	1.2312
12	■ ◇ ◇	■ ◇	

**K70
K75
K72**



.../218x296 x s1/	1.1730	1.2085	1.2312
17	■ ◇ ◇	■ ◇	■ ◇ ◇

**K60-70
K65-75
K62-72**

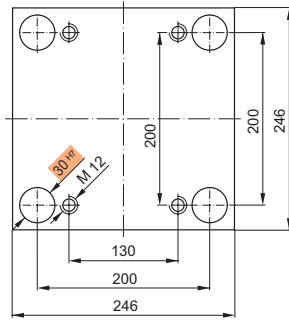


.../218x296 /	1.1730	1.2085	K62-72/218x296/Typ	
	■ ◇	■ ◇	1	K62 K72
			3	K62 K72

246x246

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Répertoire K2500/...
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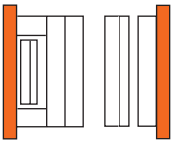
Register/Section
Répertoire KR
Seite/Page 286 (KR20/...)



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x246x36/1.2767

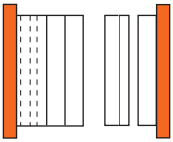
K10 K11



K10/246x246 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/246x246 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

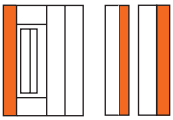
K12 K13



K12/246x246 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/246x246 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

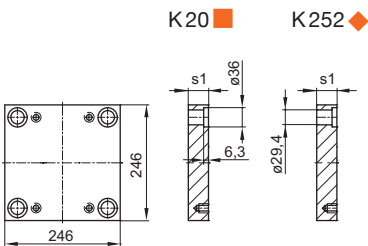
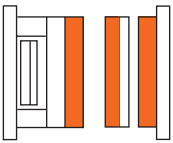
K15 K16



K15/246x246 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

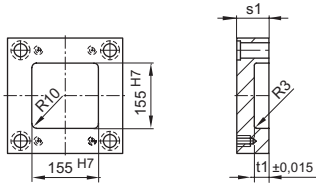
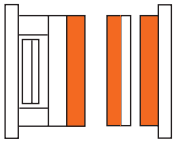
K16/246x246 / s1	1.1730	1.2162	1.2085	1.2312
17	■	■	■	
22	■		■	■
27	■		■	■

K20 K252



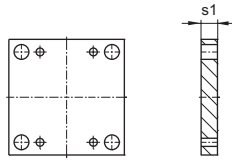
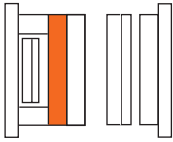
.../246x246 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■	◆	◆	◆	◆	◆		■
22	■	■	◆	◆	◆	◆	◆	◆		■
27	■	■	◆	◆	◆	◆	◆	◆	◆	■
36	■	■	◆	◆	◆	◆	◆	◆	◆	■
46	■	■	◆	◆	◆	◆	◆	◆	◆	■
56	■	■	◆	◆	◆	◆	◆	◆	◆	■
66	■	■	◆	◆	◆	◆	◆	◆	◆	■
76	■	■	◆	◆	◆	◆	◆	◆	◆	■
86	■	■	◆	◆	◆	◆	◆	◆	◆	■
96	■	■	◆	◆	◆	◆	◆	◆	◆	■
116	■		◆		◆	◆	◆	◆		
136	■					■	■			

KR25



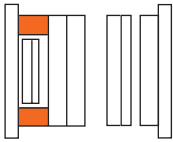
KR25/246x246xs1/	1.1730	1.2085	1.2312	t1	KR25/246x246xs1/	1.1730	1.2085	1.2312	t1
36	■	■	■	16,8	66	■	■	■	26,8
46	■	■	■	21,8	76	■	■	■	35,8
56	■	■	■	26,8	86	■	■	■	45,8

K30



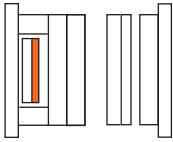
K30/246x246 x s1/	1.1730	1.2085	1.2312	K30/246x246 x s1/	1.1730	1.2085	1.2312
22	■	■	■	56	■	■	■
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■				

**K40
K45
K42**



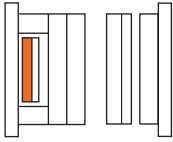
... /246x246 / s1 /	1.1730	1.2085	1.2312	... /246x246 / s1 /	1.1730	1.2085	1.2312
46	■	◆		86	■	◆	■
56	■	◆	■	96	■	◆	■
66	■	◆	■	116	■	◆	■
76	■	◆	■				

**K60
K65
K62**



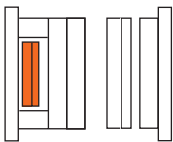
... / 246 x 246 / s1 /	1.1730	1.2085	1.2312
12	■	◆	◆

**K70
K75
K72**



... / 246x246 / s1 /	1.1730	1.2085	1.2312
17	■	◆	◆

**K60-70
K65-75
K62-72**

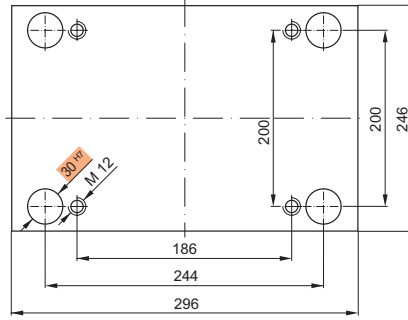


.../246x246 /	1.1730	1.2085	K62-72/246x246/Typ	1.1730	1.2312
	■	◆	1	K62	K72
			3	K62 K72	

246x296

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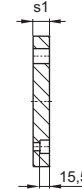
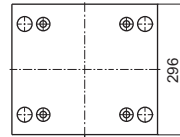
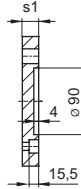
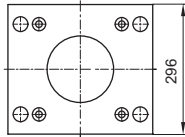
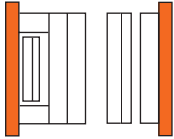
Register/Section
Répertoire KR
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Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x296x36/1.2767

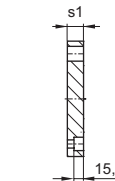
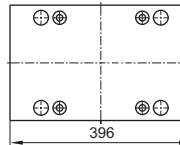
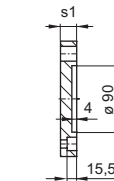
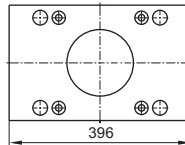
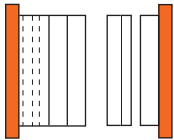
K10 K11



K10/246x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/246x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

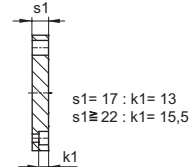
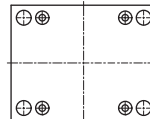
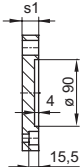
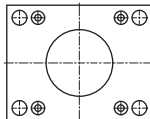
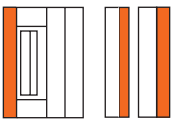
K12 K13



K12/246x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/246x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

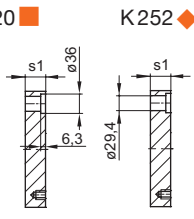
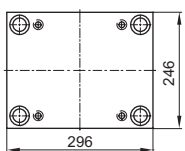
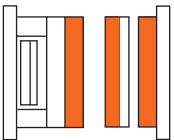
K15 K16



K15/246x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

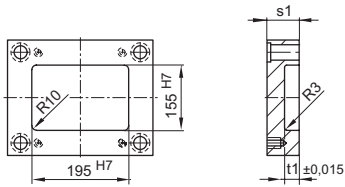
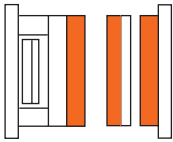
K16/246x296 / s1	1.1730	1.2162	1.2085	1.2312
17	■	■	■	
22	■		■	■
27	■		■	■

K20 K252



.../246x296 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■	■	■		■	■	■			■
22	■	■	■	■	■	■	■	■		■
27	■	■	■	■	■	■	■	■	■	■
36	■	■	■	■	■	■	■	■	■	■
46	■	■	■	■	■	■	■	■	■	■
56	■	■	■	■	■	■	■	■	■	■
66	■	■	■	■	■	■	■	■	■	■
76	■	■	■	■	■	■	■	■	■	■
86	■	■	■	■	■	■	■	■	■	■
96	■	■	■	■	■	■	■	■	■	■
116	■	■	■	■	■	■	■	■	■	■
136	■	■	■	■	■	■	■	■	■	■

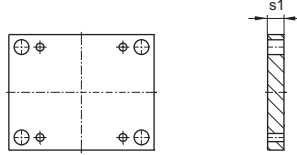
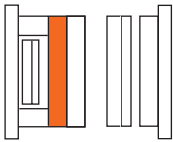
KR25



KR25/246x296 / s1 /	1.1730	1.2085	1.2312	t1
36	■	■	■	16,8
46	■	■	■	21,8
56	■	■	■	26,8

KR25/246x296 / s1	1.1730	1.2085	1.2312	t1
66	■	■	■	26,8
76	■	■	■	35,8
86	■	■	■	45,8

K30



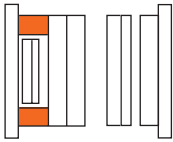
K30/246x296 x s1 /	1.1730	1.2085	1.2312
22	■	■	■
27	■	■	■
36	■	■	■
46	■	■	■

K30/246x296 x s1 /	1.1730	1.2085	1.2312
56	■	■	■
66	■	■	■
76	■	■	■
86	■	■	■

K40

K45

K42



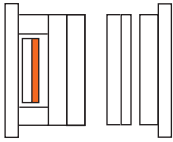
.../246x296 / s1 /	1.1730	1.2085	1.2312
46	■	■	■
56	■	■	■
66	■	■	■
76	■	■	■

.../246x296 / s1 /	1.1730	1.2085	1.2312
86	■	■	■
96	■	■	■
116	■	■	■

K60

K65

K62

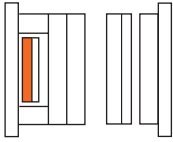


.../246x296 / s1 /	1.1730	1.2085	1.2312
12	■	■	■

K70

K75

K72

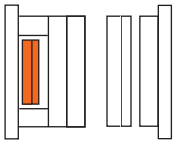


... /246x296 / s1 /	1.1730	1.2085	1.2312
17	■	■	■

K60-70

K65-75

K62-72



.../246x296 /	1.1730	1.2085
	■	■

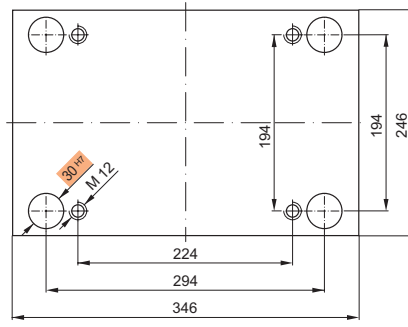
K62-72/246x296/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

246x346

Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x346x36/1.2767

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K10
K11

K10/246x346 / s1	1.1730	1.2162	1.2085	1.2312	K11/246x346 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■

K12
K13

K12/246x346 / s1	1.1730	1.2162	1.2085	1.2312	K13/246x346 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■

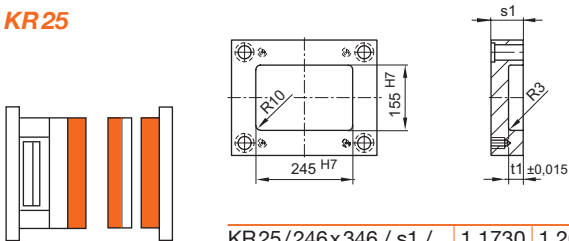
K15
K16

.../246x346 / s1	1.1730	1.2162	1.2085	1.2312	K16/246x346 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■	22	■	■	■	■
27	■		■	■	27	■		■	■

K20 ■ **K252** ◆

K20/246x346 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■				■	■	■			
22	■		◆		■	◆	■	◆		■
27	■		◆	◆	■	◆	■	◆	◆	■
36	■		◆	◆	■	◆	■	◆	◆	■
46	■		◆	◆	■	◆	■	◆	◆	■
56	■		◆	◆	■	◆	■	◆	◆	■
66	■		◆	◆	■	◆	■	◆	◆	■
76	■		◆	◆	■	◆	■	◆	◆	■
86	■		◆	◆	■	◆	■	◆	◆	■
96	■		◆	◆	■	◆	■	◆	◆	■
116	■		◆	◆	■	◆	■	◆	◆	■

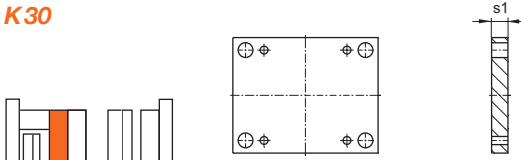
KR25



KR25/246x346 / s1 /	1.1730	1.2085	1.2312	t1
36	■	■	■	16,8
46	■	■	■	21,8
56	■	■	■	26,8

KR25/246x346 / s1	1.1730	1.2085	1.2312	t1
66	■	■	■	26,8
76	■	■	■	35,8
86	■	■	■	45,8

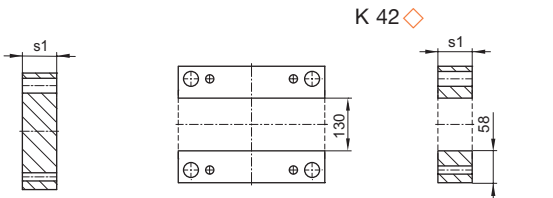
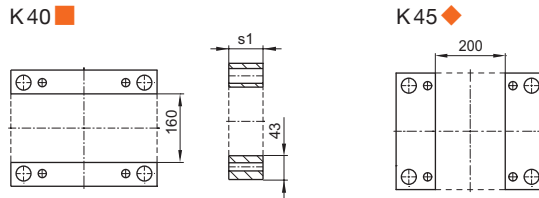
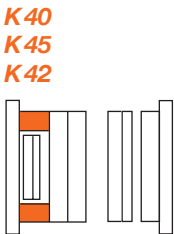
K30



K30/246x346 x s1 /	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■	■	■
56	■	■	■

K30/246x346 x s1 /	1.1730	1.2085	1.2312
66	■	■	■
76	■	■	■
86	■	■	■

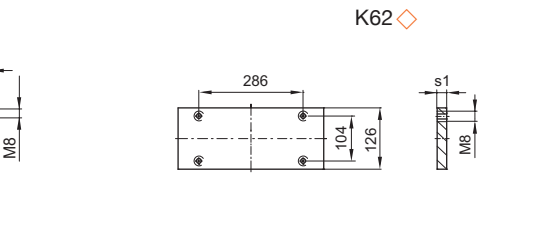
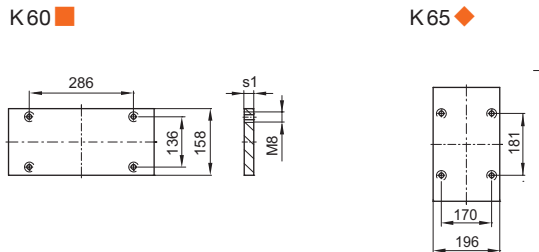
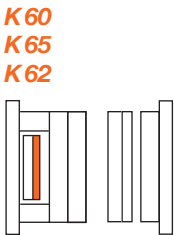
**K40
K45
K42**



.../246x346 / s1 /	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆	
66	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆	

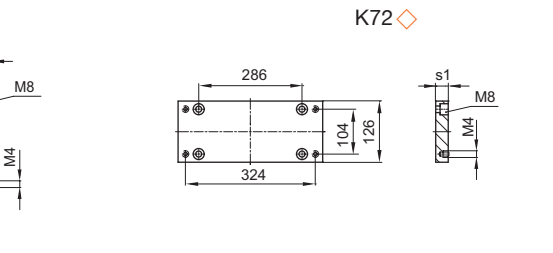
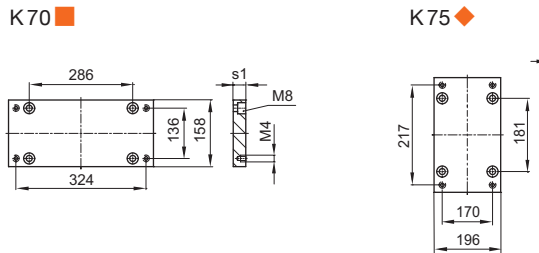
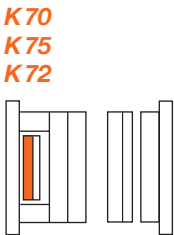
.../246x346 / s1 /	1.1730	1.2085	1.2312
86	■ ◆ ◆	■ ◆	
96	■ ◆ ◆	■ ◆	
116	■ ◆ ◆	■ ◆	

**K60
K65
K62**



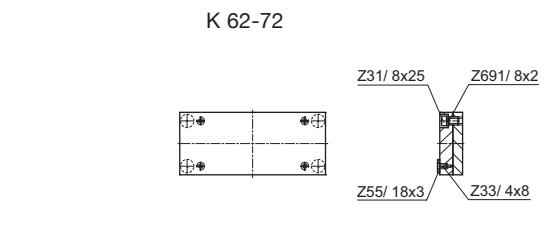
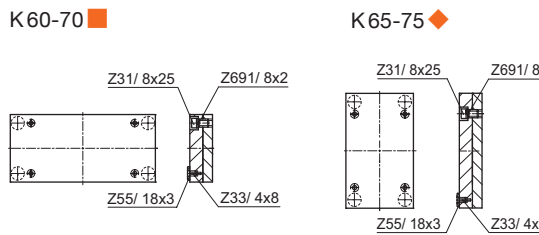
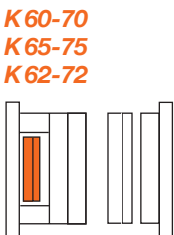
.../246x346 / s1 /	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	

**K70
K75
K72**



.../246x346 / s1 /	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	■ ◆ ◆

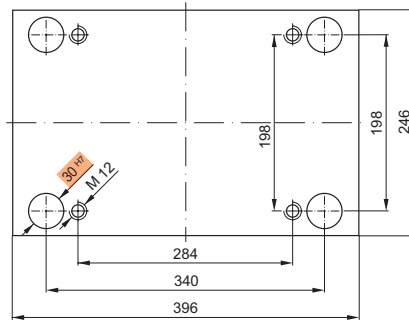
**K60-70
K65-75
K62-72**



.../246x346 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/246x346/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

246x396



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x396x36/1.2767

K10
K11

K10/246x396 / s1	1.1730	1.2162	1.2085	1.2312	K11/246x396 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■

K12
K13

K12/246x396 / s1	1.1730	1.2162	1.2085	1.2312	K13/246x396 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■

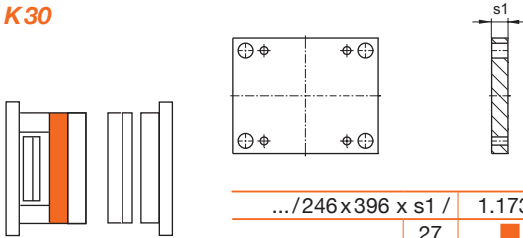
K15
K16

K15/246x396 / s1	1.1730	1.2162	1.2085	1.2312	K16/246x396 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■	22	■	■	■	■
27	■		■	■	27	■		■	■

K20 ■ **K252** ◆

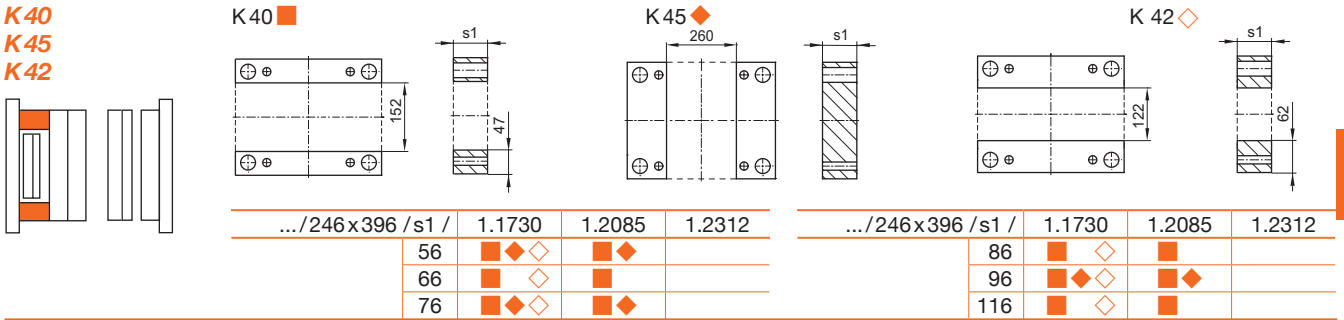
.../246x396 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■				■	■	■			
22	■		◆		■◆	■◆	■◆	◆		■
27	■		◆	◆	■◆	■◆	■◆	◆		■
36	■		◆	◆	■◆	■◆	■◆	◆	◆	■
46	■		◆	◆	■◆	■◆	■◆	◆	◆	■
56	■		◆	◆	■◆	■◆	■◆	◆	◆	■
66	■		◆	◆	■◆	■◆	■◆	◆	◆	■
76	■		◆	◆	■◆	■◆	■◆	◆	◆	■
86	■		◆	◆	■◆	■◆	■◆	◆	◆	■
96	■		◆	◆	■◆	■◆	■◆	◆	◆	■
116	■		◆	◆	■◆	■◆	■◆	◆	◆	■
136	■					■	■			

K30



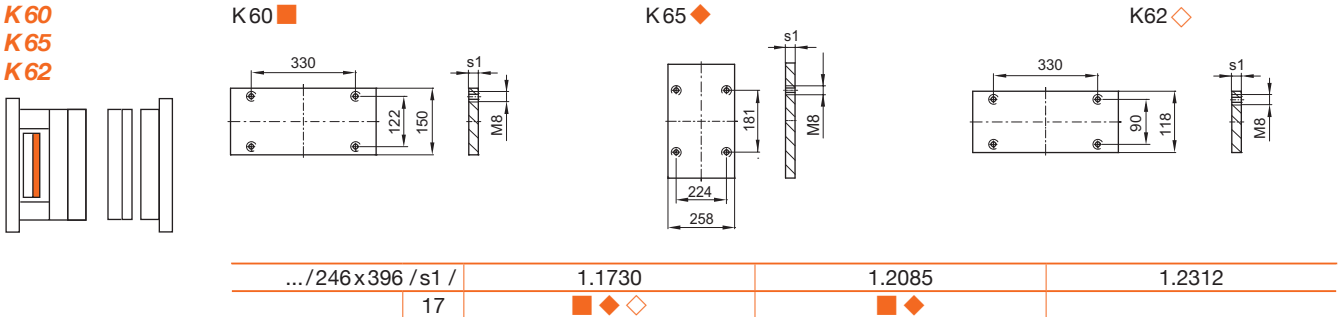
.../246x396 x s1 /	1.1730	1.2085	1.2312	.../246x396 x s1 /	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■		■
46	■	■	■	86	■		■
56	■	■					

**K40
K45
K42**



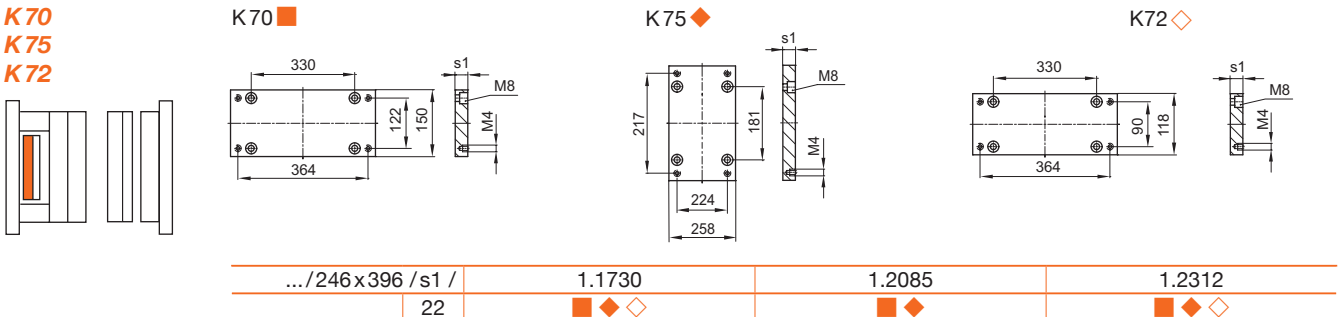
.../246x396 /s1 /	1.1730	1.2085	1.2312	.../246x396 /s1 /	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆		86	■ ◆ ◆	■ ◆	
66	■ ◆ ◆	■ ◆		96	■ ◆ ◆	■ ◆ ◆	
76	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■ ◆	

**K60
K65
K62**



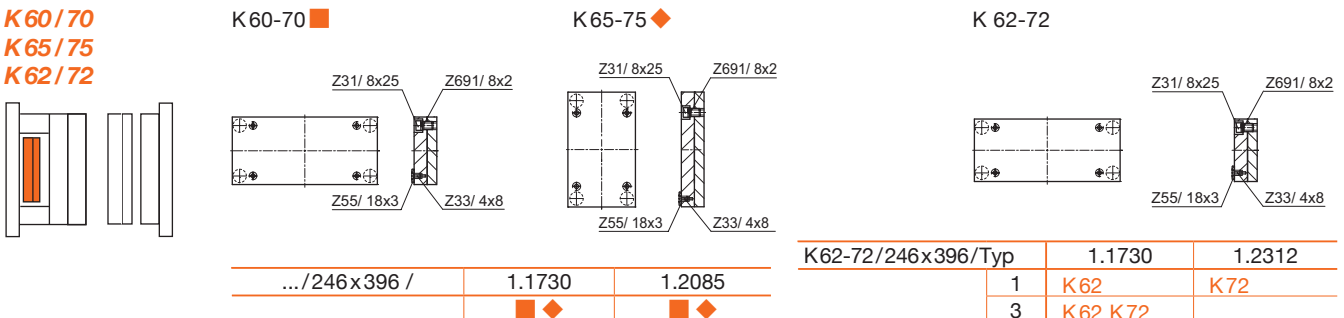
.../246x396 /s1 /	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	

**K70
K75
K72**



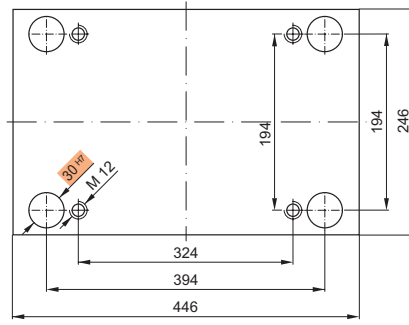
.../246x396 /s1 /	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	■ ◆ ◆

**K60/70
K65/75
K62/72**



.../246x396 /	1.1730	1.2085	K62-72/246x396/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

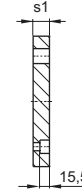
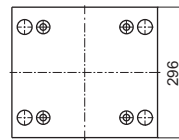
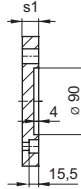
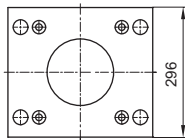
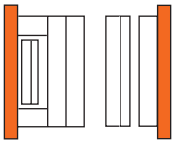
246x446



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x446x36/1.2162

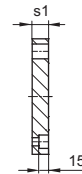
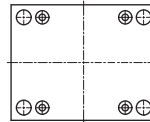
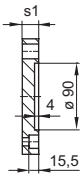
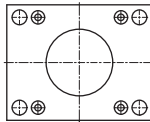
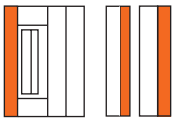
K10 K11



K10/246x446 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/246x446 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15 K16

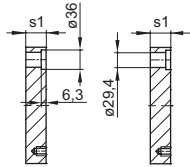
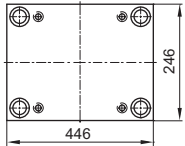
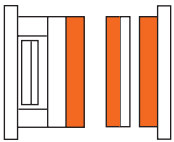


K15/246x446 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/246x446 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

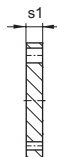
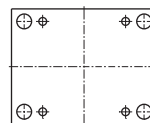
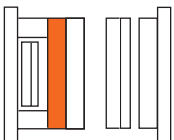
K20 K252

K20 ■ K252 ◆



.../246x446 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■ ◆	■ ◆	■ ◆			■
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■					■	■			

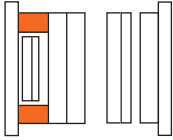
K30



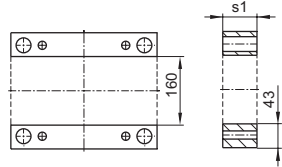
K30/246x446 x s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■
46	■		■	■

K30/246x446 x s1	1.1730	1.2162	1.2085	1.2312
56	■		■	■
66	■			■

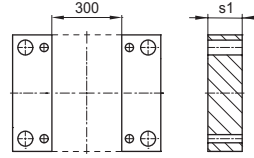
K40
K45
K42



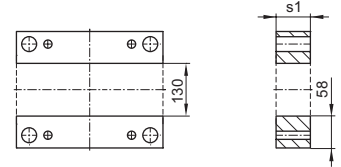
K40 ■



K45 ◆



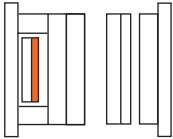
K42 ◇



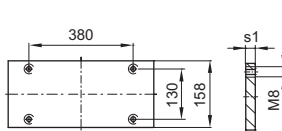
.../246x446 / s1 /	1.1730	1.2085	1.2312
56	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■	
76	■ ◆ ◇	■ ◆	

.../246x446 / s1 /	1.1730	1.2085	1.2312
86	■ ◆ ◇	■	
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

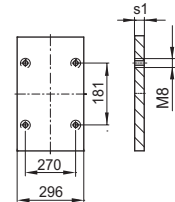
K60
K65
K62



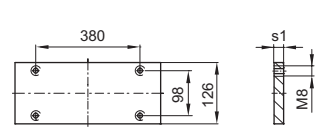
K60 ■



K65 ◆

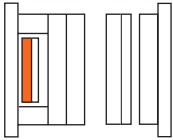


K62 ◇

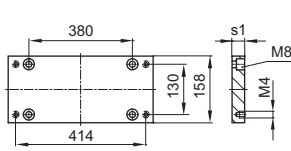


.../246x446 / s1 /	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

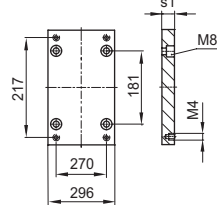
K70
K75
K72



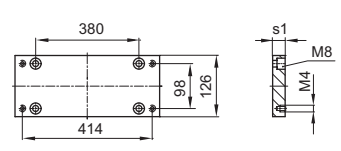
K70 ■



K75 ◆

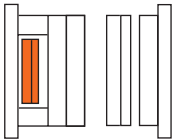


K72 ◇

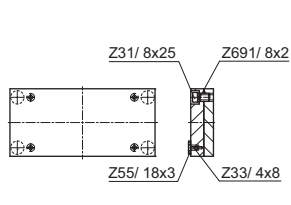


.../246x446 / s1 /	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	■ ◆ ◇

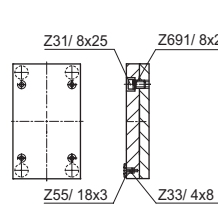
K60-70
K65-75
K62-72



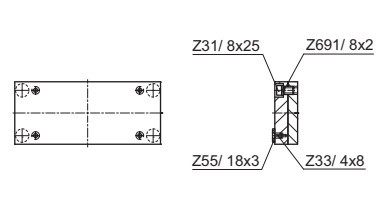
K60-70 ■



K65-75 ◆



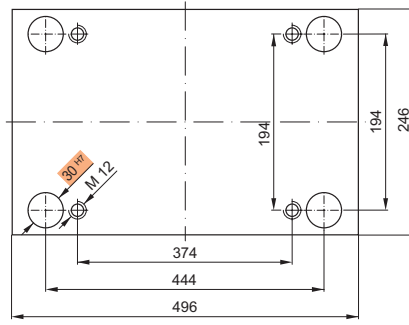
K62-72



.../246x446 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/246x446/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

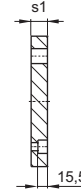
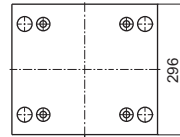
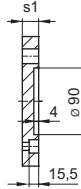
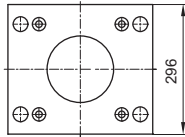
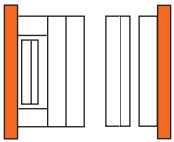
246x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x496x36/1.2162

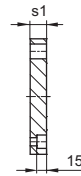
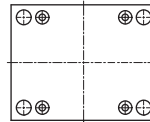
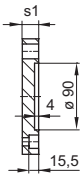
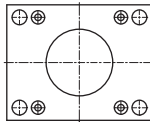
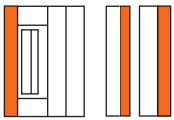
K10
K11



K10/246x496 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/246x496 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15
K16

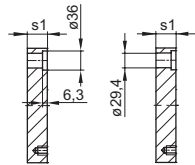
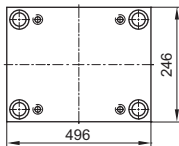
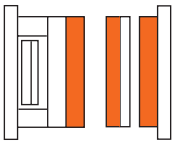


K15/246x496 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/246x496 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

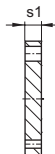
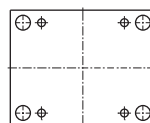
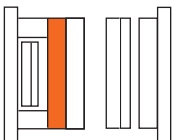
K20
K252

K20 ■ K252 ◆



.../246x496 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■ ◆	■ ◆	■ ◆			■
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■					■	■			

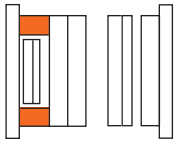
K30



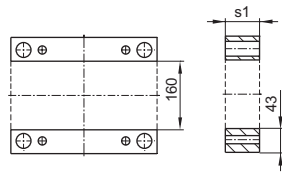
K30/246x496 x s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

K30/246x496 x s1	1.1730	1.2162	1.2085	1.2312
56	■		■	■
66	■			■

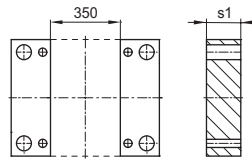
K40
K45
K42



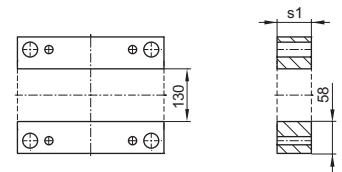
K40 ■



K45 ◆

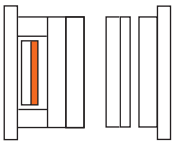


K42 ◆

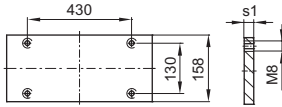


.../246x496 / s1 /	1.1730	1.2085	1.2312	.../246x496 / s1 /	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆		86	■ ◆ ◆	■	
66	■ ◆ ◆	■		96	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■ ◆	

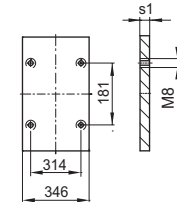
K60
K65
K62



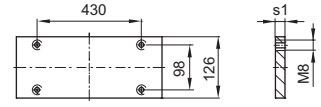
K60 ■



K65 ◆

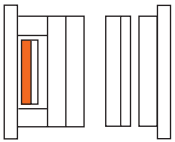


K62 ◆

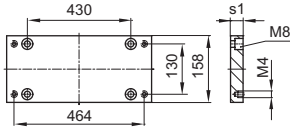


.../246x496 / s1 /	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	

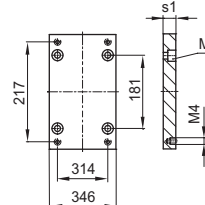
K70
K75
K72



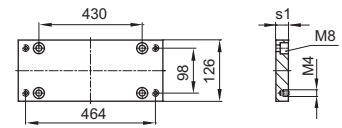
K70 ■



K75 ◆

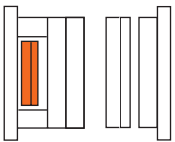


K72 ◆

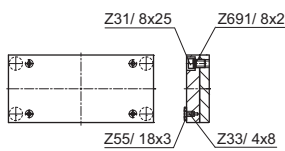


.../246x496 / s1 /	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	■ ◆ ◆

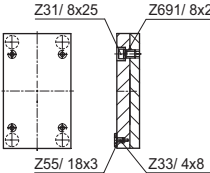
K60-70
K65-75
K62-72



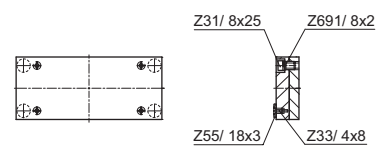
K60-70 ■



K65-75 ◆

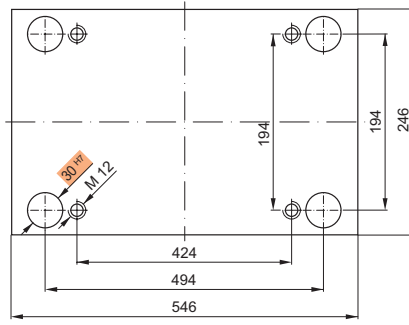


K62-72



.../246x496 /	1.1730	1.2085	K62-72/246x496/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

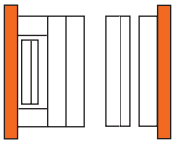
246x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x546x36/1.2162

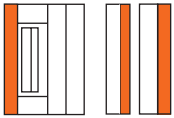
K10 K11



K10/246x546 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/246x546 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15 K16

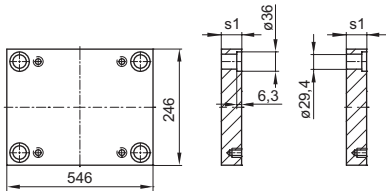
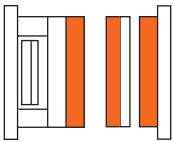


K15/246x546 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/246x546 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

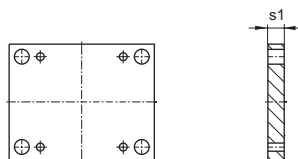
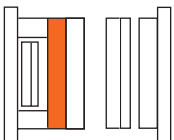
K20 K252

K20 ■ K252 ◆



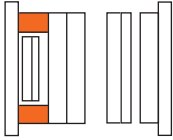
K20/246x546 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■			◆	◆	◆	◆	◆		■
36	■			◆	◆	◆	◆	◆		■
46	■			◆	◆	◆	◆	◆		■
56	■			◆	◆	◆	◆	◆		■
66	■			◆	◆	◆	◆	◆		■
76	■			◆	◆	◆	◆	◆		■
86	■			◆	◆	◆	◆	◆		■
96	■			◆	◆	◆	◆	◆		■
116	■			◆	◆	◆	◆	◆		■

K30

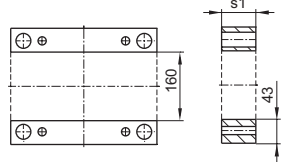


K30/246x546 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■		■	■

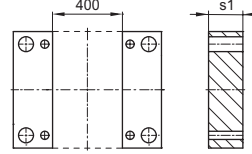
K40
K45
K42



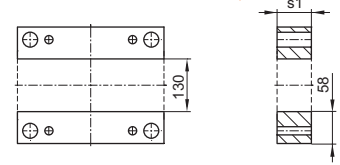
K40 ■



K45 ◆

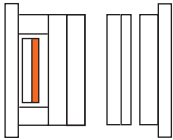


K42 ◇

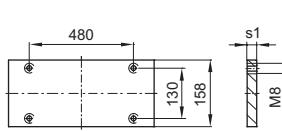


.../246x546 / s1	1.1730	1.2085	1.2312	.../246x546 / s1	1.1730	1.2085	1.2312
56	■ ◆ ◇	■ ◆		96	■ ◆ ◇	■ ◆	
66		◇		116	◆ ◇	◆	
76	■ ◆ ◇	■ ◆		136	◇		
86		◇					

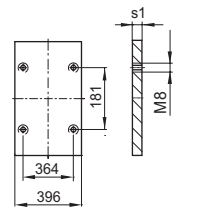
K60
K65
K62



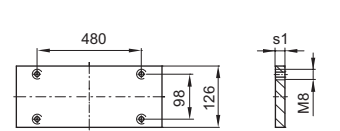
K60 ■



K65 ◆

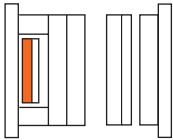


K62 ◇

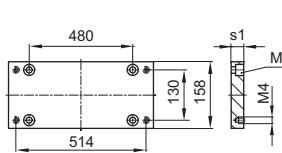


.../246x546 / s1 /	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

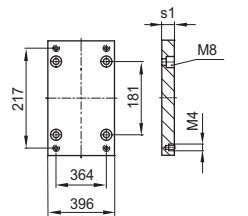
K70
K75
K72



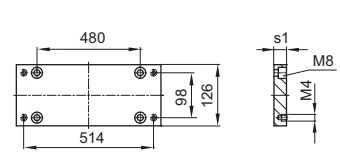
K70 ■



K75 ◆

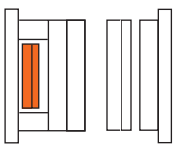


K72 ◇

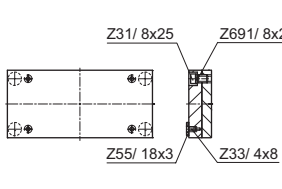


.../246x546 / s1 /	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	■ ◆ ◇

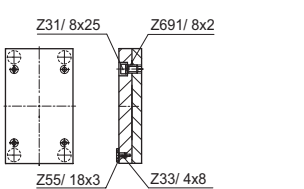
K60/70
K65/75
K62/72



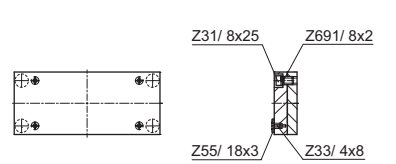
K60-70 ■



K65-75 ◆

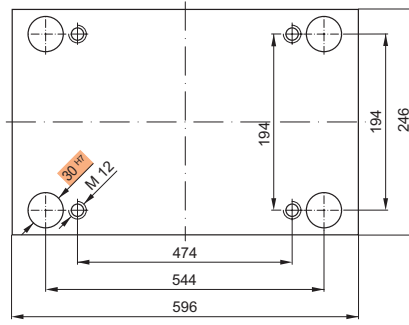


K62-72



.../246x546 /	1.1730	1.2085	K62-72/246x546/Typ	
	■ ◆	■ ◆	1	K62 K72
			3	K62 K72

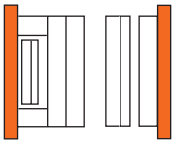
246x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/246x596x36/1.2162

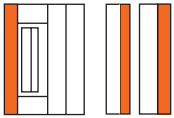
K10
K11



K10/246x596 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/246x596 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15
K16

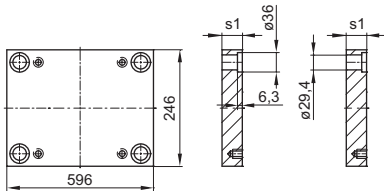
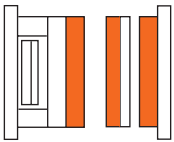


K15/246x596 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/246x596 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■

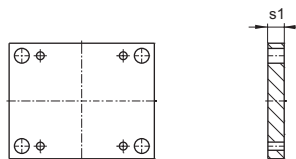
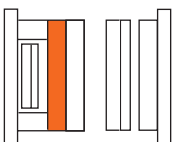
K20
K252

K20 ■ K252 ◆



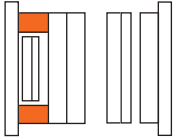
K20/246x596 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■◆	■◆	■◆	◆		■
36	■				■◆	■◆	■◆	◆		■
46	■			◆	■◆	■◆	■◆	◆		■
56	■			◆	■◆	■◆	■◆	◆		■
66	■			◆	■◆	■◆	■◆	◆		■
76	■			◆	■◆	■◆	■◆	◆		■
86	■			◆	■◆	■◆	■◆	◆		■
96	■				■◆	■◆	■◆	◆		■
116	■				■◆	■◆	■◆	◆		■
136	■					■	■			

K30

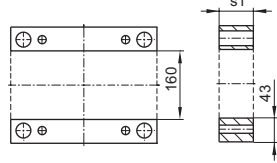


K30/246x596 / s1	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■			■

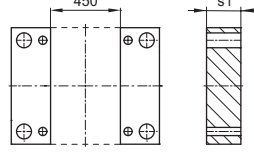
K40
K45
K42



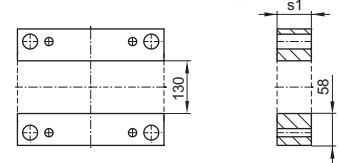
K40 ■



K45 ◆

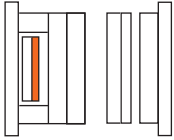


K42 ◇

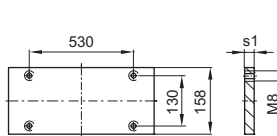


.../246x596 / s1 /	1.1730	1.2085	1.2312	.../246x596 / s1 /	1.1730	1.2085	1.2312
56	◆	◆		96	◆ ◆ ◆	◆ ◆	
66	◇			116	◆ ◆ ◆	◆ ◆	
76	◆ ◆ ◆	◆ ◆		136	◇		
86	◇						

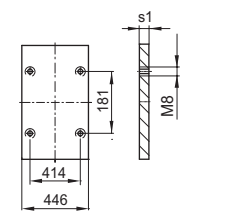
K60
K65
K62



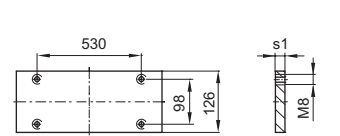
K60 ■



K65 ◆

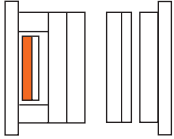


K62 ◇

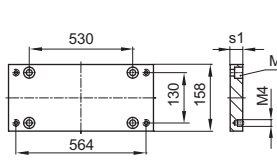


.../246x596 / s1 /	1.1730	1.2085	1.2312
17	◆ ◆ ◆	◆ ◆	

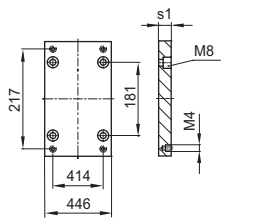
K70
K75
K72



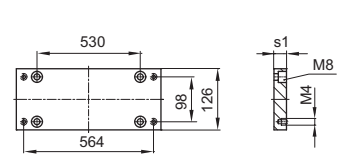
K70 ■



K75 ◆

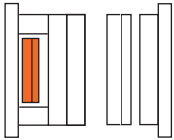


K72 ◇

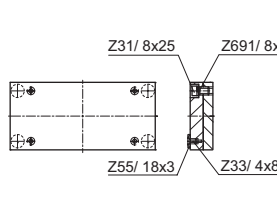


.../246x596 / s1 /	1.1730	1.2085	1.2312
22	◆ ◆ ◆	◆ ◆	◆ ◆ ◆

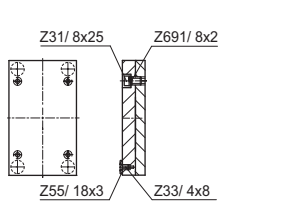
K60/70
K65/75
K62/72



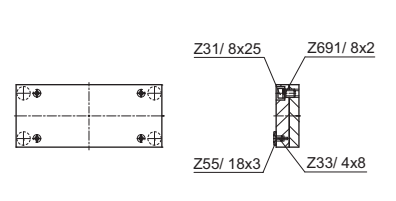
K60-70 ■



K65-75 ◆



K62-72

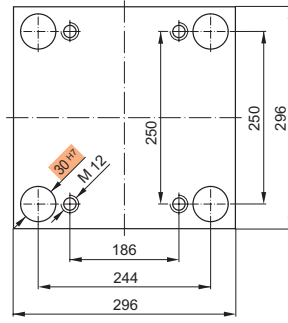


.../246x596 /	1.1730	1.2085	K62-72/246x596/Typ	1.1730	1.2312
	◆ ◆	◆ ◆	1	K62	K72
			3	K62 K72	

296x296

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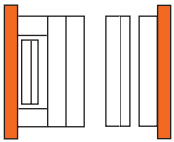
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Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x296x36/1.2767

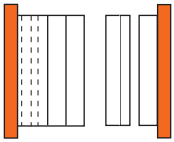
K10 K11



K10/296x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/296x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

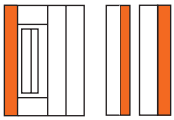
K12 K13



K12/296x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/296x296 / s1	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

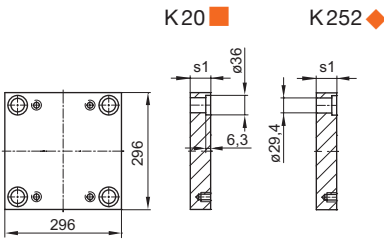
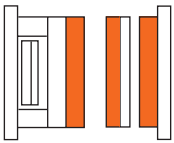
K15 K16



K15/296x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

K16/296x296 / s1	1.1730	1.2162	1.2085	1.2312
22	■	■	■	■
27	■		■	■

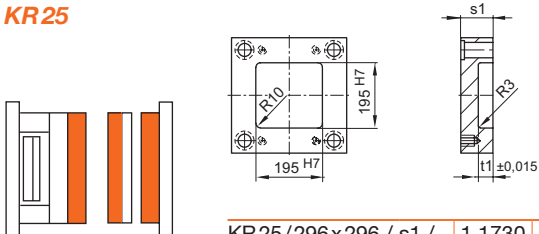
K20 K252



K20 ■ K252 ◆

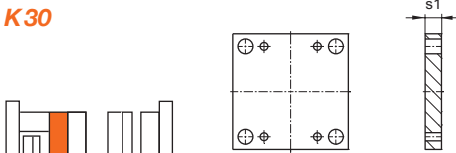
K20/296x296 / s1	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17	■				■		■			
22	■	■		◆	■	◆	■	◆		■
27	■	■	◆	◆	■	◆	■	◆	◆	■
36	■	■	◆	◆	■	◆	■	◆	◆	■
46	■	■	◆	◆	■	◆	■	◆	◆	■
56	■	■	◆	◆	■	◆	■	◆	◆	■
66	■	■	◆	◆	■	◆	■	◆	◆	■
76	■	■	◆	◆	■	◆	■	◆	◆	■
86	■	■	◆	◆	■	◆	■	◆	◆	■
96	■	■	◆	◆	■	◆	■	◆	◆	■
116	■	■	◆	◆	■	◆	■	◆	◆	■
136	■				■	◆	■	◆		
156	■				■	■	■			

KR25



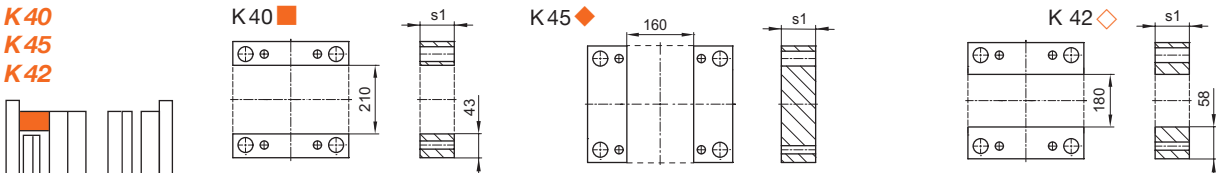
KR25/296x296 / s1 /	1.1730	1.2085	1.2312	t1	KR25/296x296 / s1 /	1.1730	1.2085	1.2312	t1
36	■	■	■	16,8	66	■	■	■	26,8
46	■	■	■	21,8	76	■	■	■	35,8
56	■	■	■	26,8	86	■	■	■	45,8

K30



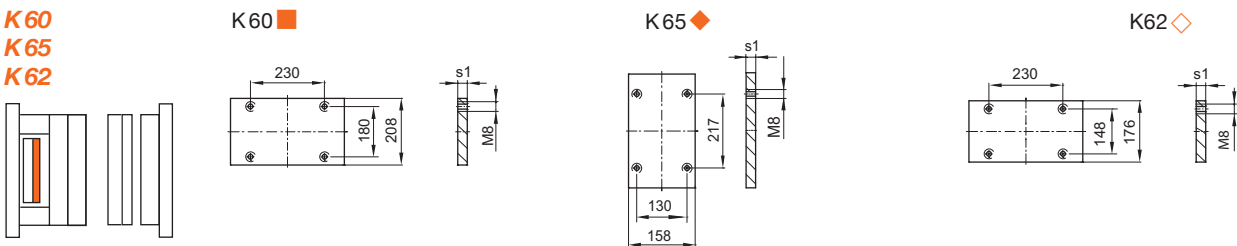
K30/296x296 / s1 /	1.1730	1.2085	1.2312	K30/296x296 / s1 /	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■				

**K40
K45
K42**



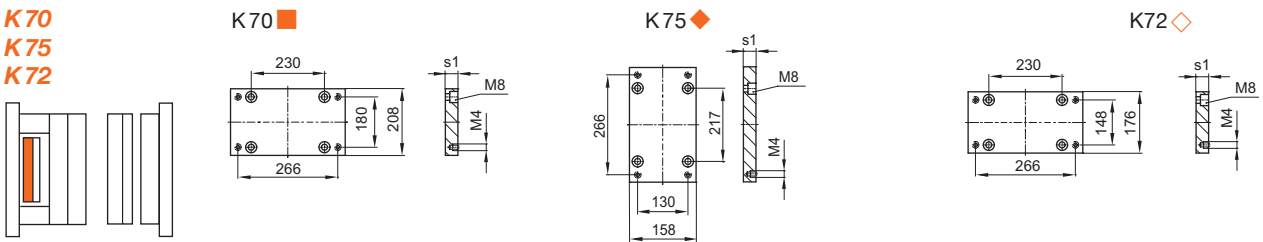
.../296x296 / s1 /	1.1730	1.2085	1.2312	.../296x296 / s1 /	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆		96	■ ◆ ◆	■ ◆	
66	■ ◆ ◆			116	■ ◆ ◆		
76	■ ◆ ◆	■ ◆		136	■ ◆ ◆		
86	■ ◆ ◆						

**K60
K65
K62**



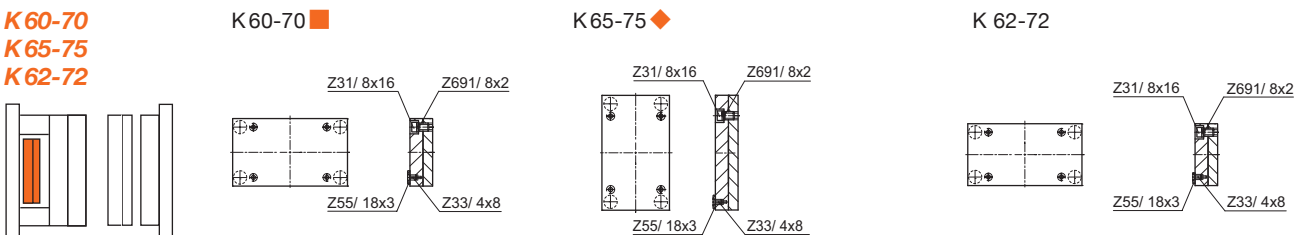
.../296x296 / s1 /	1.1730	1.2085	1.2312
12	■ ◆ ◆	■ ◆	

**K70
K75
K72**



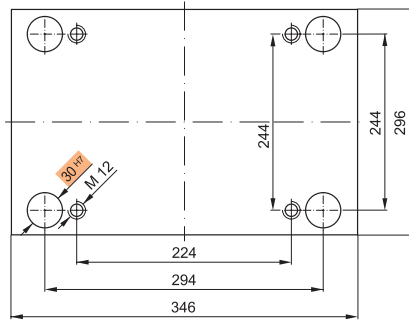
.../296x296 / s1 /	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	■ ◆ ◆

**K60-70
K65-75
K62-72**



.../296x296 /	1.1730	1.2085	K62-72/296x296/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

296x346

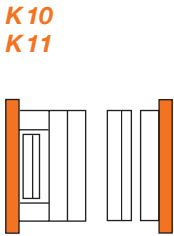


Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 296x346x36 / 1.2767

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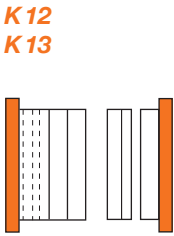
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K10
K11



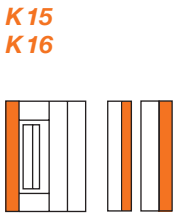
K10/296x346x s1 /	1.1730	1.2162	1.2085	1.2312	K11/296x346x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■



K12
K13



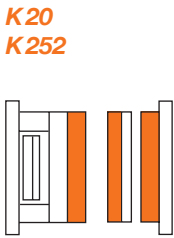
K12/296x346x s1 /	1.1730	1.2162	1.2085	1.2312	K13/296x346x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■



K15
K16

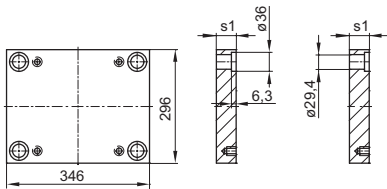


K15/296x346x s1 /	1.1730	1.2162	1.2085	1.2312	K16/296x346x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	■	22	■	■	■	■
27	■		■	■	27	■		■	■



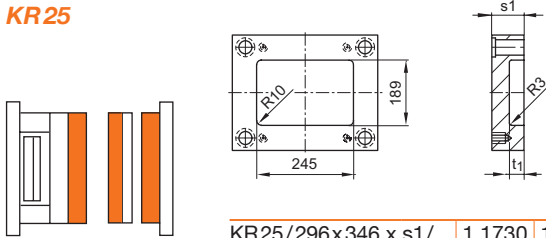
K20
K252

K20 ■ K252 ◆



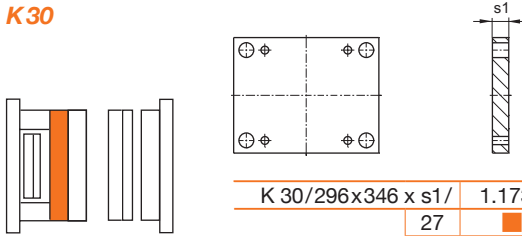
.../296x346 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17							■			
22	■		◆		■ ◆	■ ◆	■ ◆	◆		■
27	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
36	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
46	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
56	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
66	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
76	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
86	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
96	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
116	■		◆	◆	■ ◆	■ ◆	■ ◆	◆	◆	■
136	■				■ ◆	■ ◆	■ ◆	◆		
156	■					■	■			

KR25



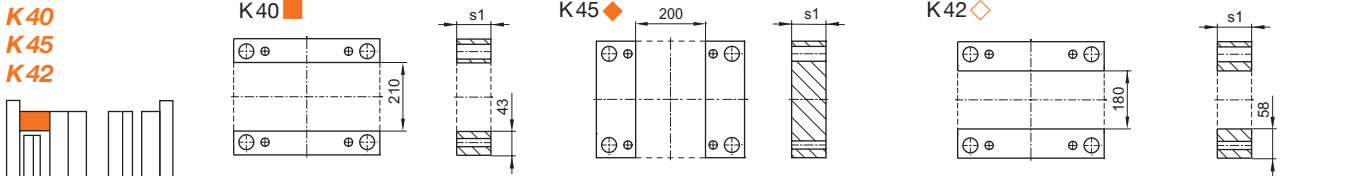
KR25/296x346 x s1/	1.1730	1.2085	1.2312	t1	KR25/296x346 x s1/	1.1730	1.2085	1.2312	t1
36	■	■	■	16,8	66	■	■	■	26,8
46	■	■	■	21,8	76	■	■	■	35,8
56	■	■	■	26,8	86	■	■	■	45,8

K30



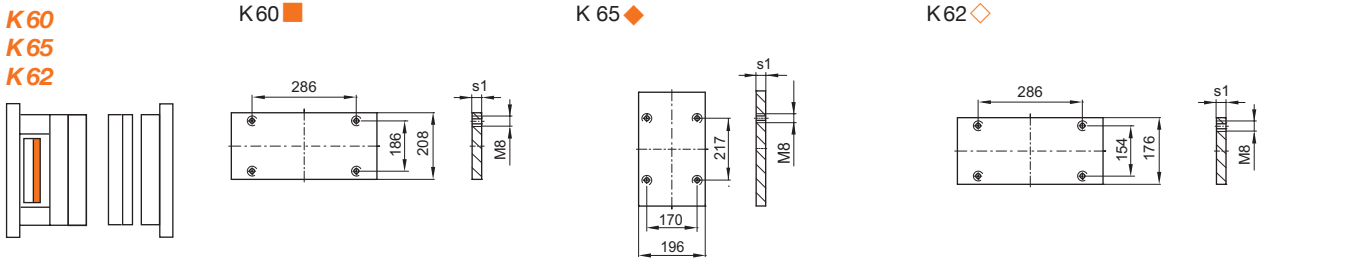
K 30/296x346 x s1/	1.1730	1.2085	1.2312	K 30/296x346 x s1/	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■				

**K40
K45
K42**



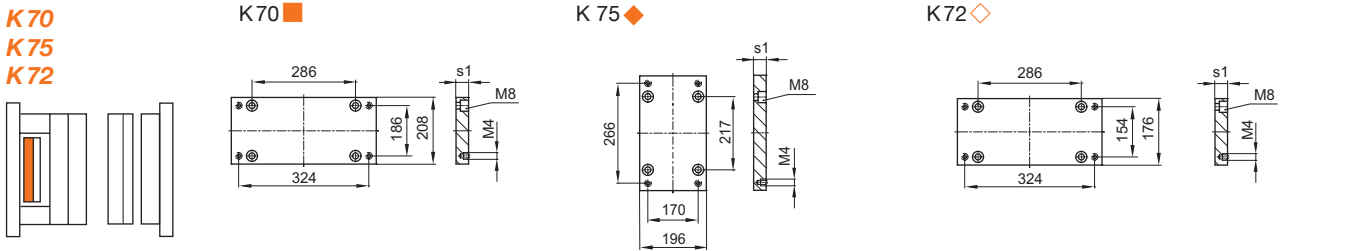
.../296x346 x s1/	1.1730	1.2085	1.2312	.../296x346 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◆	■ ◆		96	■ ◆ ◆	■ ◆	
66	◆ ◆ ◆			116	◆ ◆ ◆	◆	
76	■ ◆ ◆	■ ◆		136	◆		
86	◆ ◆ ◆						

**K60
K65
K62**



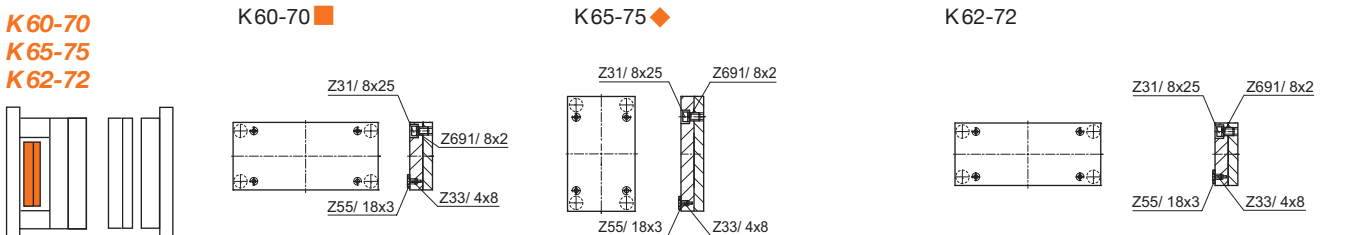
.../296x346 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	

**K70
K75
K72**



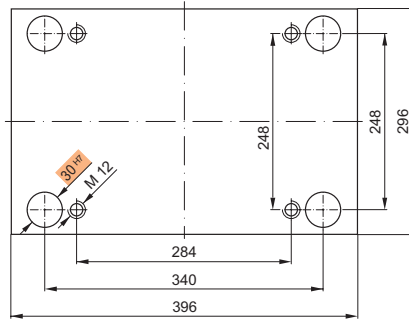
.../296x346 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	■ ◆

**K60-70
K65-75
K62-72**



.../296x346 /	1.1730	1.2085	K62-72/296x346/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

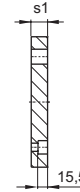
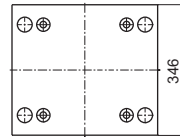
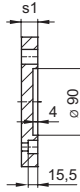
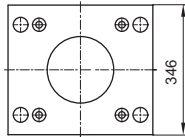
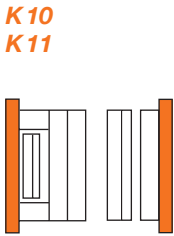
296x396



Bestellbeispiel:
Ordering example:
Exemple de commande:

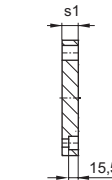
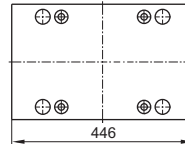
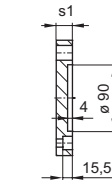
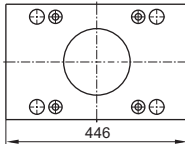
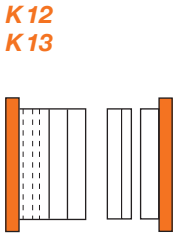
K20/296x396x36/1.2767

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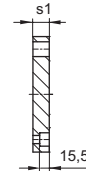
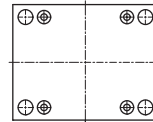
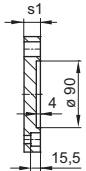
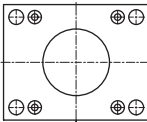
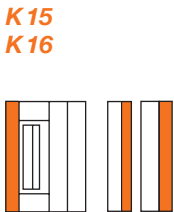
K10/296x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/296x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■



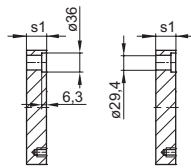
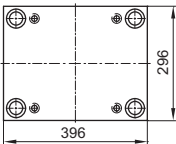
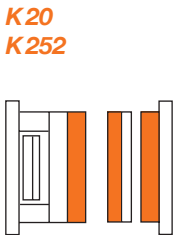
K12/296x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/296x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■



K15/296x396x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

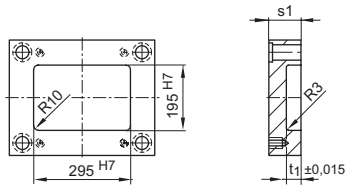
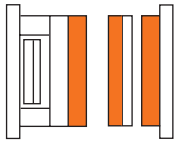
K16/296x396x s1 /	1.1730	1.2162	1.2085	1.2312
22	■	■	■	■
27	■		■	■



K20 ■ K252 ◆

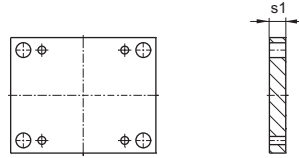
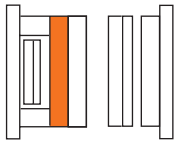
.../296x396 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17							■			
22	■		◆		■◆	■◆	■◆	◆		■
27	■		◆	◆	■◆	■◆	■◆	◆	◆	■
36	■		◆	◆	■◆	■◆	■◆	◆	◆	■
46	■		◆	◆	■◆	■◆	■◆	◆	◆	■
56	■		◆	◆	■◆	■◆	■◆	◆	◆	■
66	■		◆	◆	■◆	■◆	■◆	◆	◆	■
76	■		◆	◆	■◆	■◆	■◆	◆	◆	■
86	■		◆	◆	■◆	■◆	■◆	◆	◆	■
96	■		◆	◆	■◆	■◆	■◆	◆	◆	■
116	■		◆	◆	■◆	■◆	■◆	◆	◆	■
136	■				■◆	■◆	■◆	◆		
156	■					■	■			

KR25



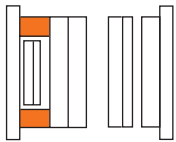
KR25/296x396 x s1/	1.1730	1.2085	1.2312	t1	KR25/296x396 x s1/	1.1730	1.2085	1.2312	t1
36	■	■	■	16,8	66	■	■	■	26,8
46	■	■	■	21,8	76	■	■	■	35,8
56	■	■	■	26,8	86	■	■	■	45,8

K30



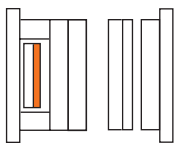
K 30/296x396 x s1/	1.1730	1.2085	1.2312	K 30/296x396 x s1/	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■				

**K40
K45
K42**



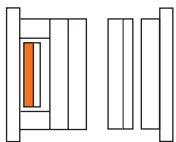
...	296x396 x s1/	1.1730	1.2085	1.2312	...	296x396 x s1/	1.1730	1.2085	1.2312
	56	■ ◆ ◆	■ ◆			96	■ ◆ ◆	■ ◆	
	66	◆ ◆ ◆				116	◆ ◆		
	76	■ ◆ ◆	■ ◆			136	◆ ◆		
	86	◆ ◆ ◆							

**K60
K65
K62**



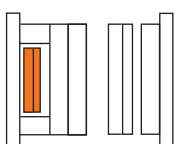
...	296x396 x s1/	1.1730	1.2085	1.2312
	17	■ ◆ ◆	■ ◆	

**K70
K75
K72**



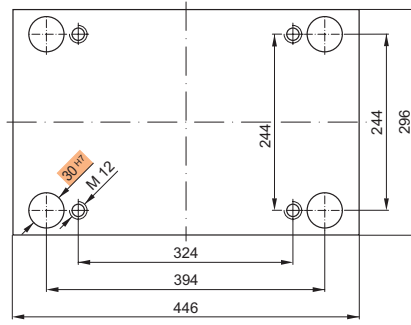
...	296x396 x s1/	1.1730	1.2085	1.2312
	22	■ ◆ ◆	■ ◆	■ ◆ ◆

**K60-70
K65-75
K62-72**



...	296x396 /	1.1730	1.2085	K62-72/296x396/Typ	1.1730	1.2312
		■ ◆	■ ◆	1	K62	K72
				3	K62 K72	

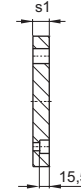
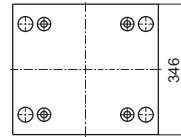
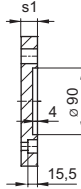
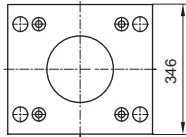
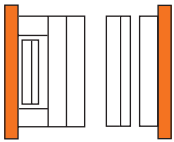
296x446



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x446x36/1.2767

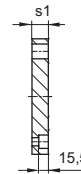
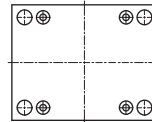
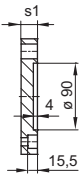
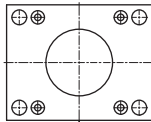
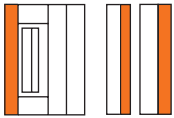
K10
K11



K10/296x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/296x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15
K16

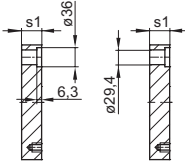
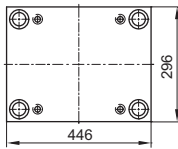
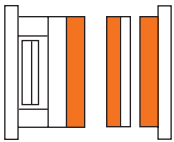


K15/296x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/296x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

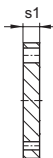
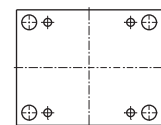
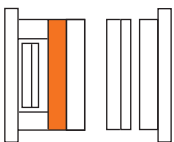
K20
K252

K20 ■ K252 ◆



.../296x446 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
17							■			
22	■				■		■			
27	■				■ ◆	■ ◆	■ ◆			■
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			■
156	■					■	■			

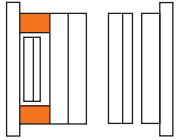
K30



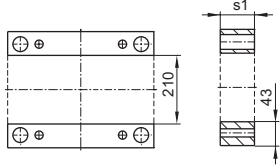
K30/296x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■		■	■

K30/296x446x s1 /	1.1730	1.2162	1.2085	1.2312
66	■		■	■
76	■		■	■
86	■		■	■

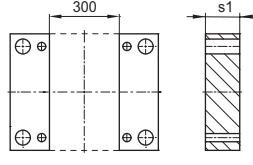
K40
K45
K42



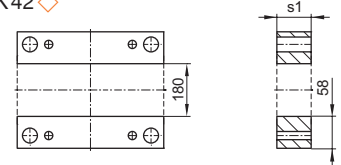
K40 ■



K45 ◆

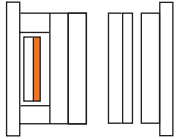


K42 ◇

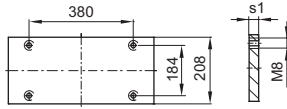


.../296x446 x s1/	1.1730	1.2085	1.2312	.../296x446 x s1/	1.1730	1.2085	1.2312
56	■◆◇	■◆		96	■◆◇	■◆	
66	◇			116	◆◇	◆	
76	■◆◇	■◆		136	◇		
86	◇						

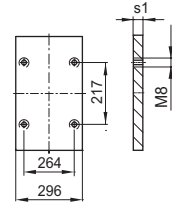
K60
K65
K62



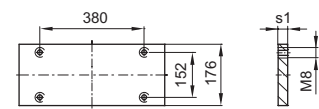
K60 ■



K65 ◆

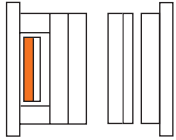


K62 ◇

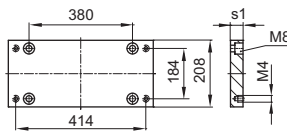


.../296x446 x s1/	1.1730	1.2085	1.2312
17	■◆◇	■◆	

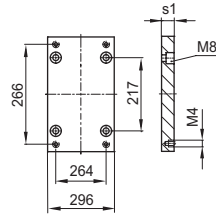
K70
K75
K72



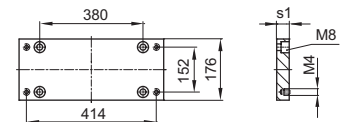
K70 ■



K75 ◆

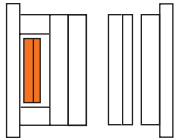


K72 ◇

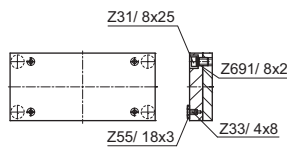


.../296x446 x s1/	1.1730	1.2085	1.2312
22	■◆◇	■◆	■◆◇

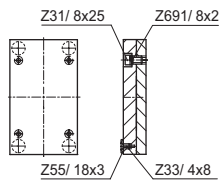
K60-70
K65-75
K62-72



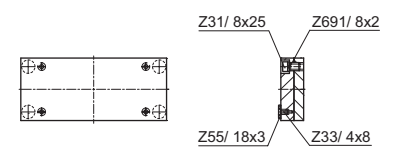
K60-70 ■



K65-75 ◆

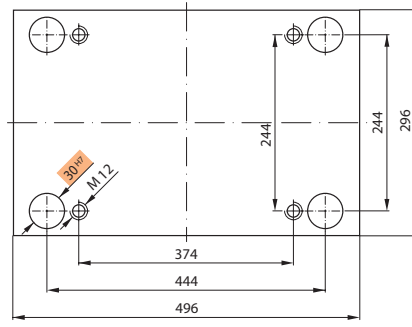


K62-72



.../296 x 446 /	1.1730	1.2085	K62-72/296x446/Typ	1.1730	1.2312
	■◆	■◆	1	K62	K72
			3	K62 K72	

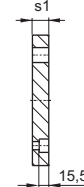
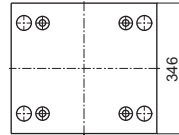
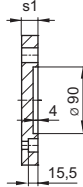
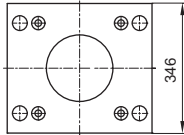
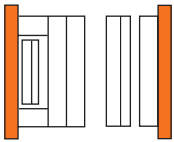
296x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x496x36/1.2767

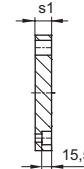
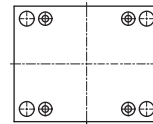
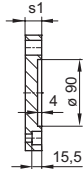
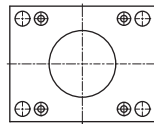
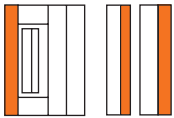
K10 K11



K10/296x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/296x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15 K16

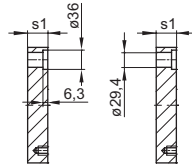
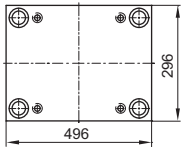
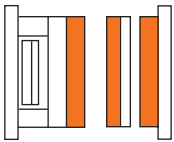


K15/296x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/296x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

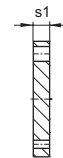
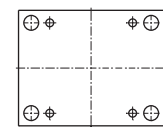
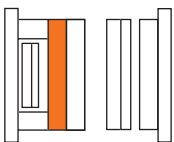
K20 K252

K20 ■ K252 ◆



.../296x496 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■ ◆	■ ◆	■ ◆			■
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■					■	■			

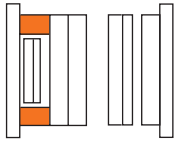
K30



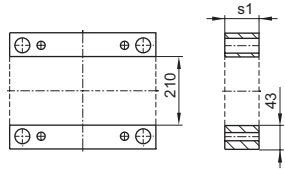
K30/296x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■		■	■

K30/296x496x s1 /	1.1730	1.2162	1.2085	1.2312
66	■		■	■
76	■			■

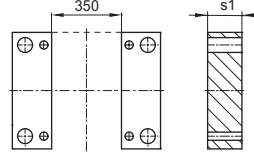
K40
K45
K42



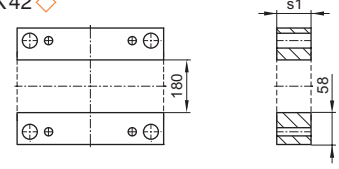
K40 ■



K45 ◆

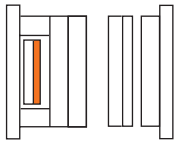


K42 ◇

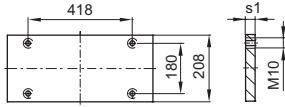


.../296x496 x s1/	1.1730	1.2085	1.2312	.../296x496 x s1/	1.1730	1.2085	1.2312
56	■◆◇	■◆		96	■◆◇	■◆	
66	◇			116	◆◇	◆	
76	■◆◇	■◆		136	◇		
86	◇						

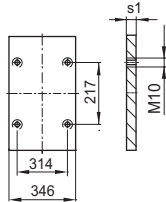
K60
K65
K62



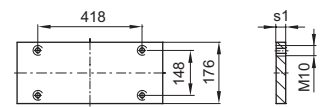
K60 ■



K65 ◆

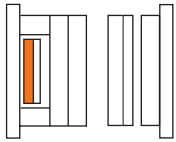


K62 ◇

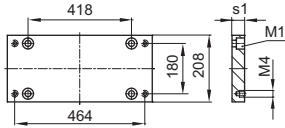


.../296x496 x s1/	1.1730	1.2085	1.2312
17	■◆◇	■◆	

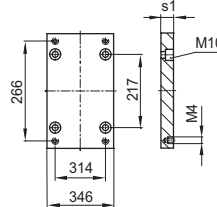
K70
K75
K72



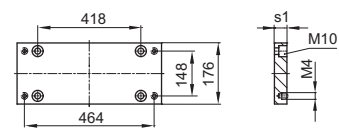
K70 ■



K75 ◆

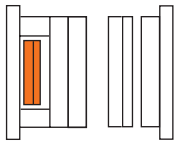


K72 ◇

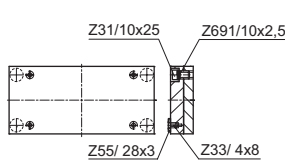


.../296x496 x s1/	1.1730	1.2085	1.2312
22	■◆◇	■◆	■◆◇

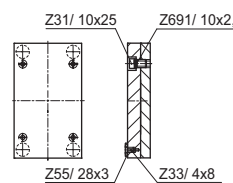
K60-70
K65-75
K62-72



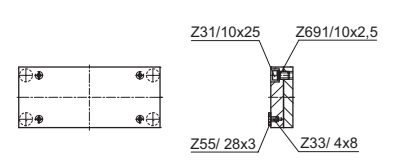
K60-70 ■



K65-75 ◆

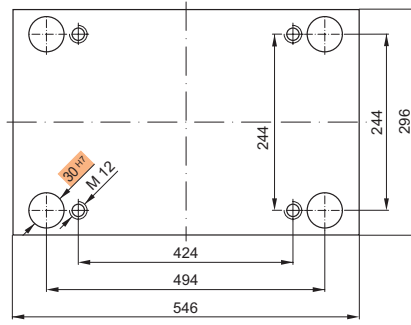


K62-72 ◇



.../296 x 496 /	1.1730	1.2085	K62-72/296x496/Typ	1.1730	1.2312
	■◆	■◆	1	K62	K72
			3	K62 K72	

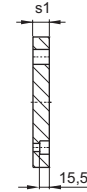
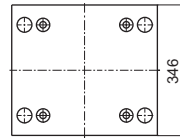
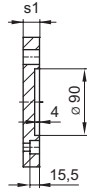
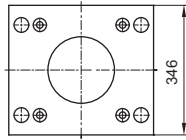
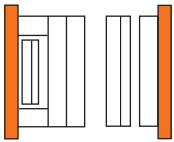
296x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x546x36/1.2767

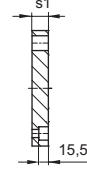
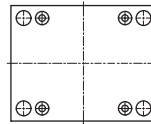
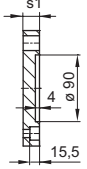
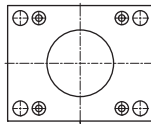
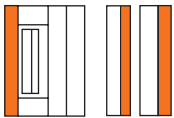
K10
K11



K10/296x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/296x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15
K16

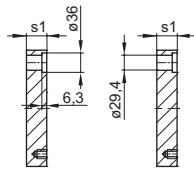
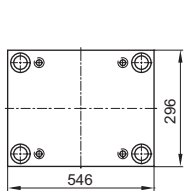
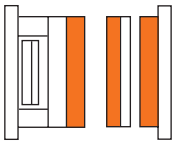


K15/296x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/296x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

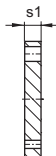
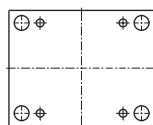
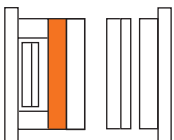
K20
K252

K20 ■ K252 ◆



.../296x546 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■◆	■◆	■◆			■
36	■				■◆	■◆	■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■	■	■			
156	■					■	■			

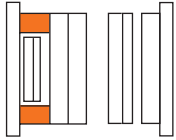
K30



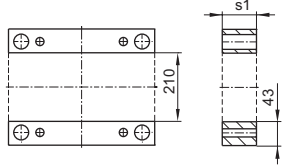
K30/296x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■
46	■		■	■

K30/296x546x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■
66	■		■	■
76	■		■	■

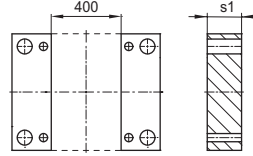
K40
K45
K42



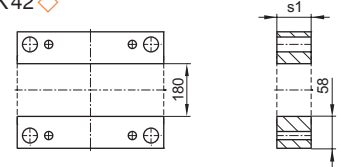
K40 ■



K45 ◆

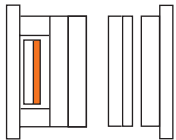


K42 ◇

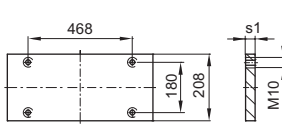


.../296x546 x s1/	1.1730	1.2085	1.2312	.../296x546 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◇	■ ◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■	
86	■ ◆ ◇	■					

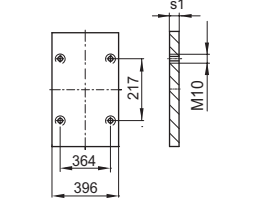
K60
K65
K62



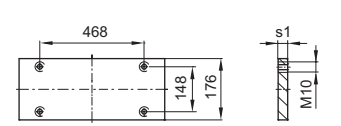
K60 ■



K65 ◆

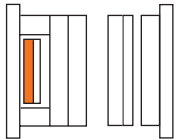


K62 ◇

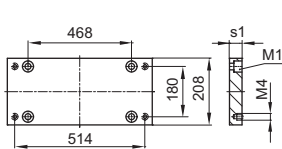


.../296x546 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

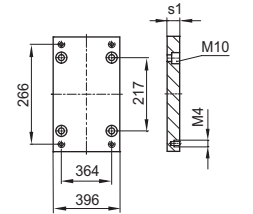
K70
K75
K72



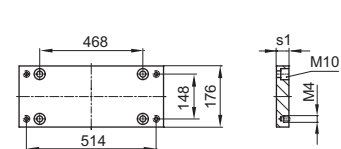
K70 ■



K75 ◆

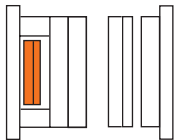


K72 ◇

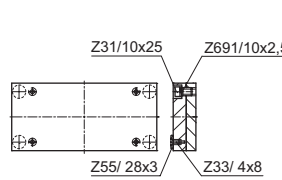


.../296x546 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	■ ◆ ◇

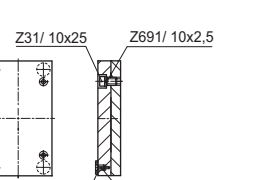
K60-70
K65-75
K62-72



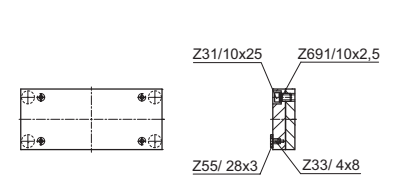
K60-70 ■



K65-75 ◆

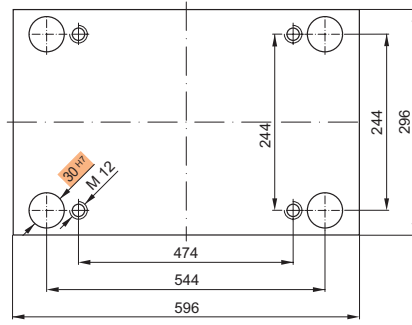


K62-72 ◇



.../296 x 546 /	1.1730	1.2085	K62-72/296x546/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

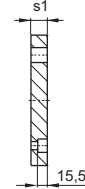
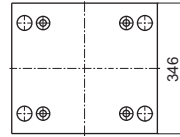
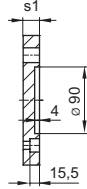
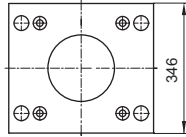
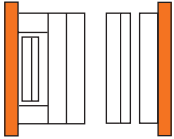
296x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x596x36/1.2767

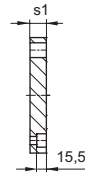
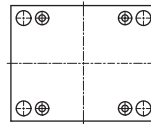
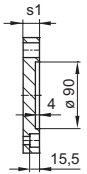
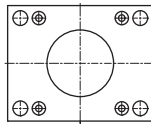
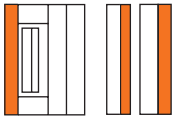
K10 K11



K10/296x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/296x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15 K16

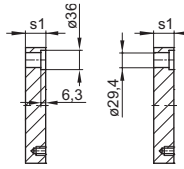
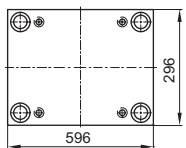
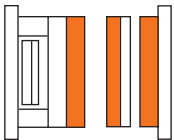


K15/296x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/296x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

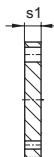
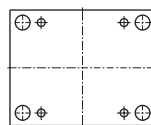
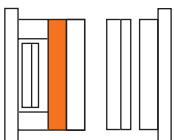
K20 K252

K20 ■ K252 ◆



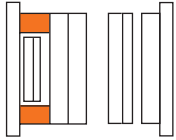
.../296x596 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■◆	■◆	■◆			■
36	■				■◆	■◆	■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■	■	■			
156	■					■	■			

K30

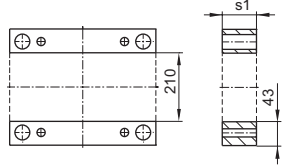


K30/296x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■			■

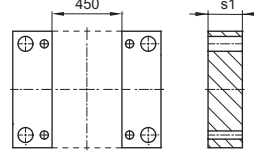
K40
K45
K42



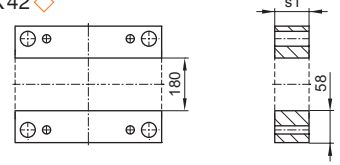
K40 ■



K45 ◆

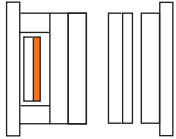


K42 ◇

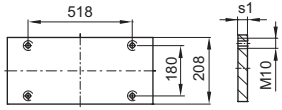


.../296x596 x s1/	1.1730	1.2085	1.2312	.../296x596 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆	■	
86	■ ◆ ◇	■					

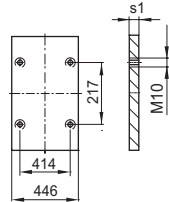
K60
K65
K62



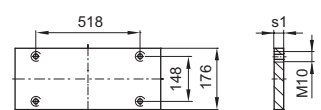
K60 ■



K65 ◆

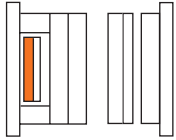


K62 ◇

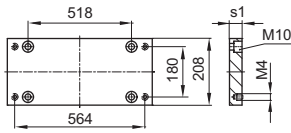


.../296x596 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

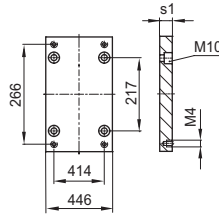
K70
K75
K72



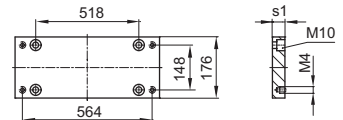
K70 ■



K75 ◆

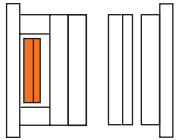


K72 ◇

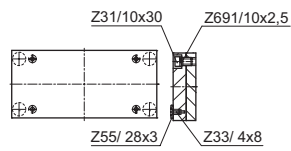


.../296x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

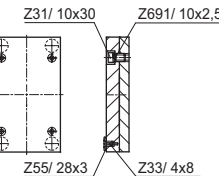
K60-70
K65-75
K62-72



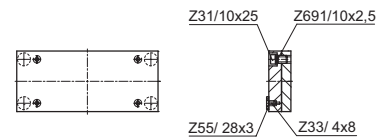
K60-70 ■



K65-75 ◆

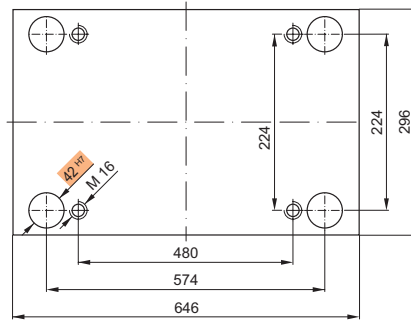


K62-72



.../296 x 596 /	1.1730	1.2085	K62-72/296x596/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

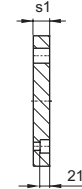
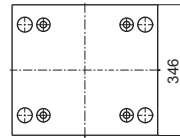
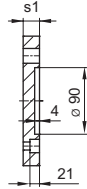
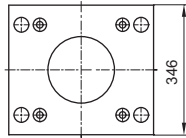
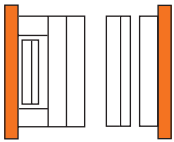
296x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x646x36/1.2085

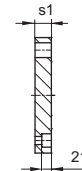
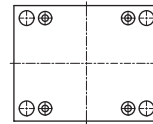
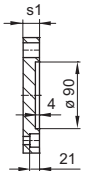
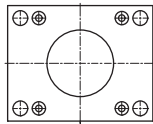
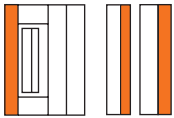
K10
K11



K10/296x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K11/296x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■

K15
K16

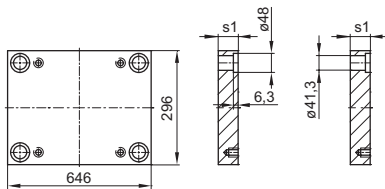
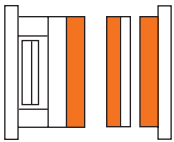


K15/296x646x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

K16/296x646x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■

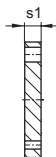
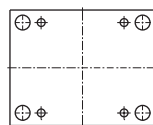
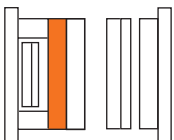
K20
K252

K20 ■ K252 ◆



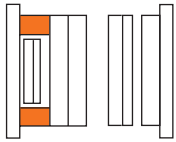
.../296x646 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				◆	◆	◆			■
36	■				◆	◆	◆			■
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			■
156	■					■	■			

K30

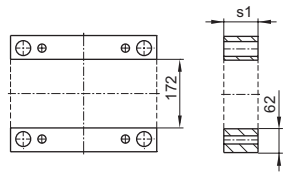


K30/296x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■			■

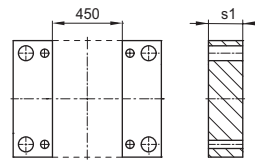
K40
K45
K42



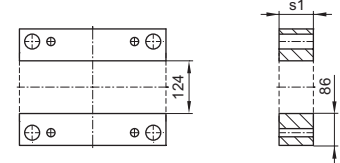
K40 ■



K45 ◆

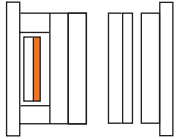


K42 ◇

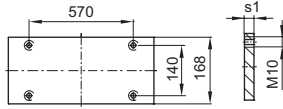


.../296x646 x s1/	1.1730	1.2085	1.2312	.../296x646 x s1/	1.1730	1.2085	1.2312
66	■ ◆ ◇	■		96	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	

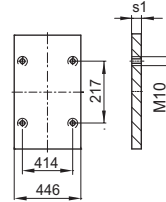
K60
K65
K62



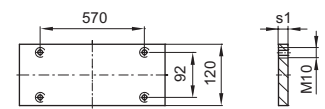
K60 ■



K65 ◆

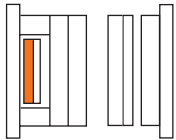


K62 ◇

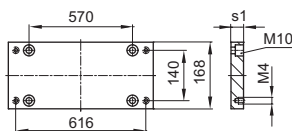


.../296x646 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

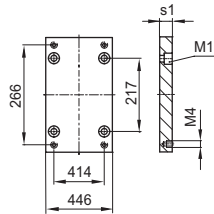
K70
K75
K72



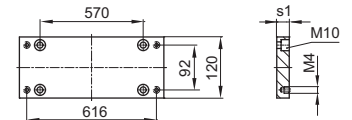
K70 ■



K75 ◆

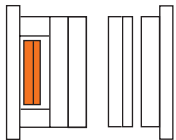


K72 ◇

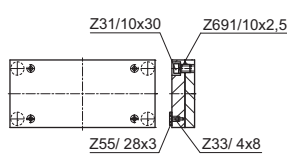


.../296x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

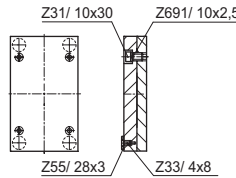
K60-70
K65-75
K62-72



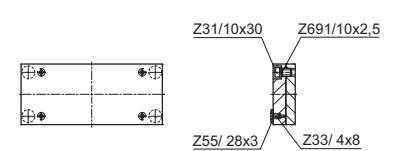
K60-70 ■



K65-75 ◆

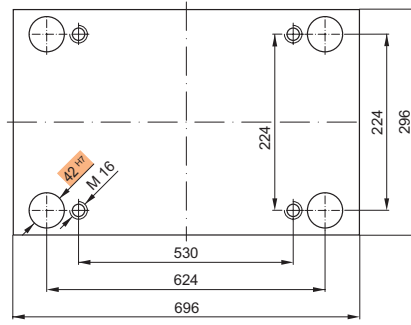


K62-72



.../296x646 /	1.1730	1.2085	K62-72/296x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

296x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/296x696x36/1.2085

K10
K11

K10/296x696x s1 /	1.1730	1.2162	1.2085	1.2312	K11/296x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

K15
K16

K15/296x696x s1 /	1.1730	1.2162	1.2085	1.2312	K16/296x696x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■		27	■		■	
36	■		■	■	36	■		■	■

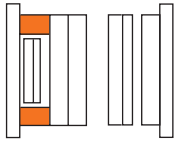
K20 ■ **K252** ◆

.../296x696 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■	■	■			■
36	■				■	■	■			■
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116	■				■	■	■			■
136	■				■	■	■			■
156	■					■	■			

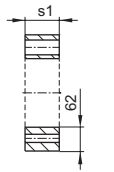
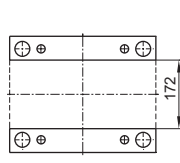
K30

K30/296x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■
56	■			■

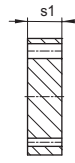
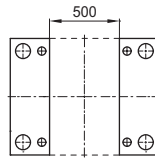
K40
K45
K42



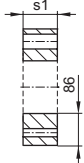
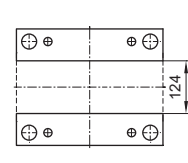
K40 ■



K45 ◆

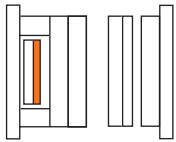


K42 ◇

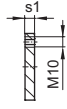
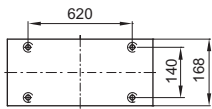


.../296x696 x s1/	1.1730	1.2085	1.2312	.../296x696 x s1/	1.1730	1.2085	1.2312
66	■ ◆	■		96	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■ ◆	
86	■ ◆ ◆	■ ◆		136	■ ◆ ◆	■ ◆	

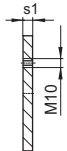
K60
K65
K62



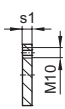
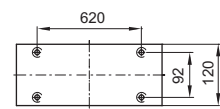
K60 ■



K65 ◆

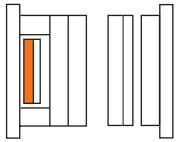


K62 ◇

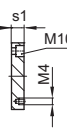
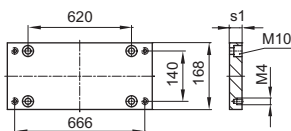


.../296x696 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	

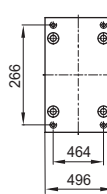
K70
K75
K72



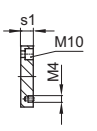
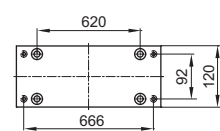
K70 ■



K75 ◆

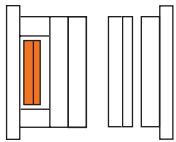


K72 ◇

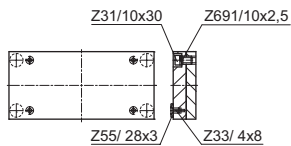


.../296x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	■ ◆ ◆

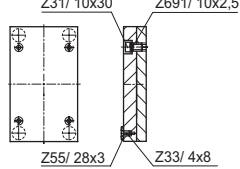
K60-70
K65-75
K62-72



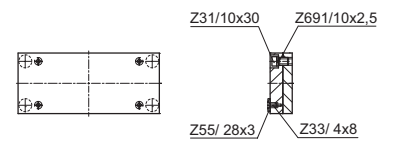
K60-70 ■



K65-75 ◆

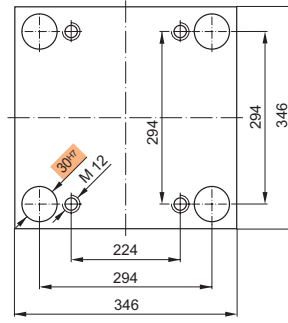


K62-72



.../296 x 696 /	1.1730	1.2085	K62-72/296x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

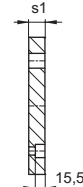
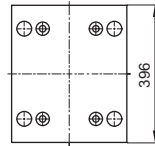
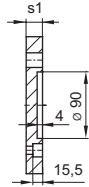
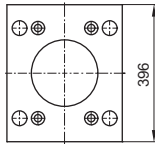
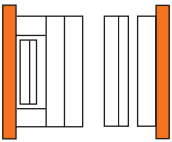
346x346



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x346x36/1.2767

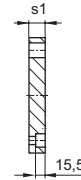
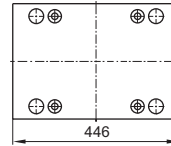
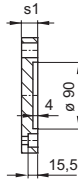
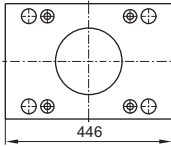
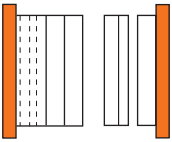
K10 K11



K10/346x346x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K11/346x346x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

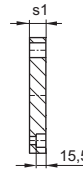
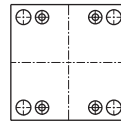
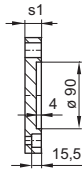
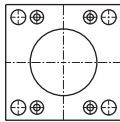
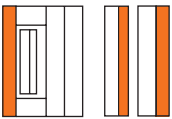
K12 K13



K12/346x346x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K13/346x346x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

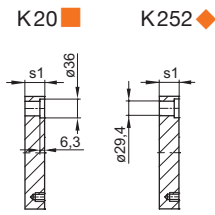
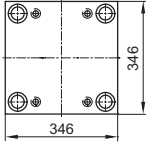
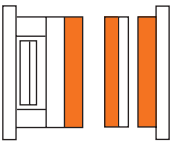
K15 K16



K15/346x346x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	■
27	■		■	■

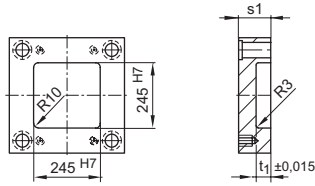
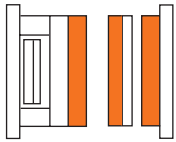
K16/346x346x s1 /	1.1730	1.2162	1.2085	1.2312
22	■	■	■	■
27	■		■	■

K20 K252



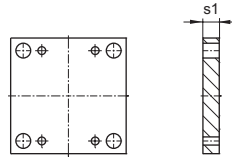
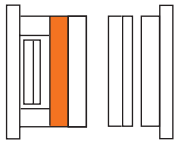
.../346x346 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■		◆		◆	◆	◆			■
27	■		◆		◆	◆	◆	◆		■
36	■		◆	◆	◆	◆	◆	◆	◆	■
46	■		◆	◆	◆	◆	◆	◆	◆	■
56	■		◆	◆	◆	◆	◆	◆	◆	■
66	■		◆	◆	◆	◆	◆	◆	◆	■
76	■		◆	◆	◆	◆	◆	◆	◆	■
86	■		◆	◆	◆	◆	◆	◆	◆	■
96	■		◆	◆	◆	◆	◆	◆	◆	■
116	■		◆	◆	◆	◆	◆	◆	◆	■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■					◆	◆			

KR25



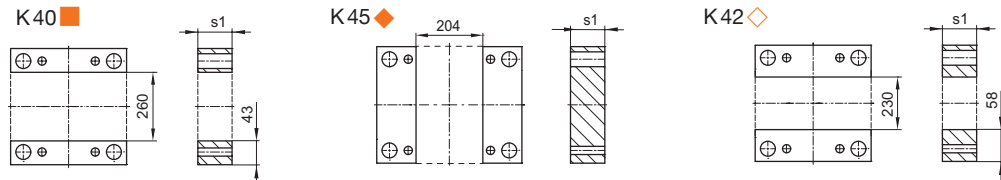
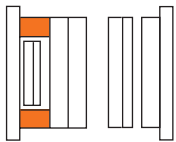
KR25/346x346 x s1/	1.1730	1.2085	1.2312	t1	KR25/346x346 x s1/	1.1730	1.2085	1.2312	t1
46	■	■	■	21,8	76	■	■	■	35,8
56	■	■	■	26,8	86	■	■	■	45,8
66	■	■	■	26,8	96	■	■	■	45,8

K30



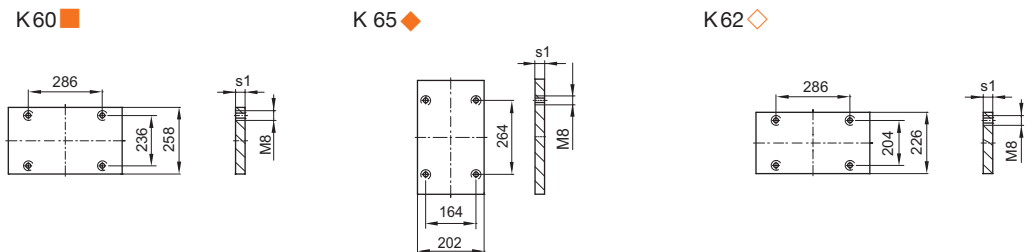
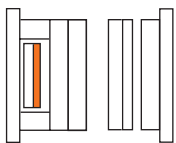
K 30/346x346 x s1/	1.1730	1.2085	1.2312	K 30/346x346 x s1/	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■				

**K40
K45
K42**



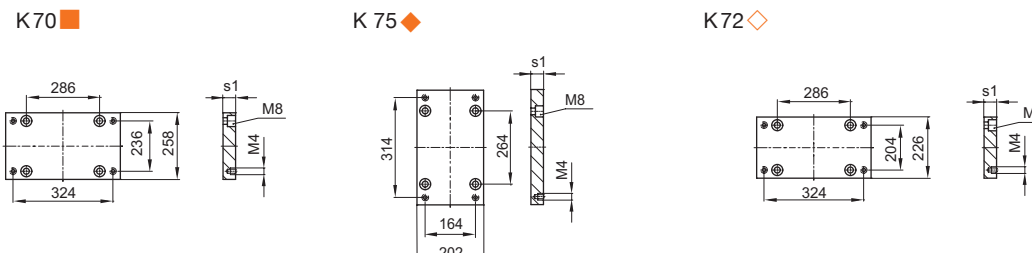
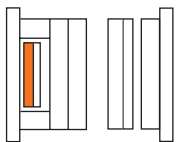
.../346x346 x s1/	1.1730	1.2085	1.2312	.../346x346 x s1/	1.1730	1.2085	1.2312
56	■◆◆	■◆		96	■◆◆	■◆	
66	■◆◆	■◆		116	■◆◆	■◆	
76	■◆◆	■◆		136	■◆◆	■◆	
86	■◆◆	■◆					

**K60
K65
K62**



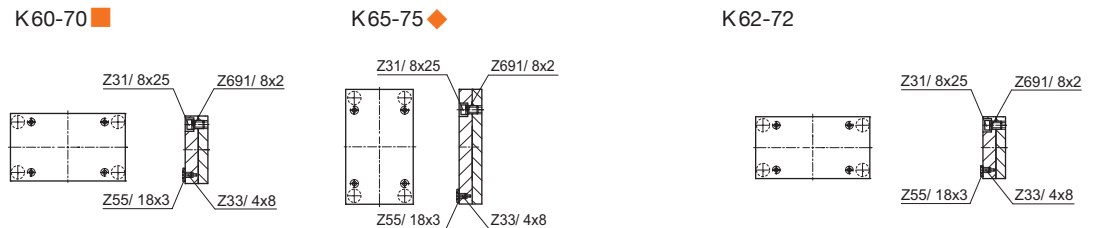
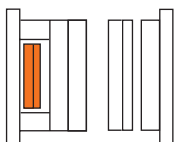
.../346x346 x s1/	1.1730	1.2085	1.2312
17	■◆◆	■◆	

**K70
K75
K72**



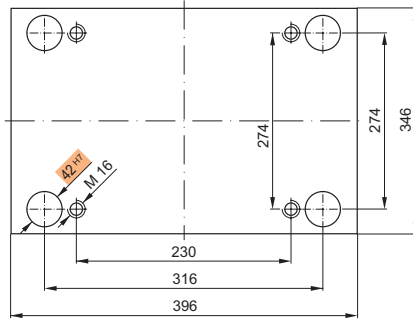
.../346x346 x s1/	1.1730	1.2085	1.2312
22	■◆◆	■◆	■◆◆

**K60-70
K65-75
K62-72**



.../346x346 /	1.1730	1.2085	K62-72/346x346/Typ	1.1730	1.2312
	■◆	■◆	1	K62	K72
			3	K62 K72	

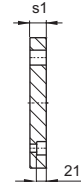
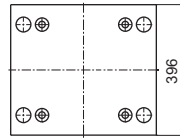
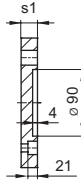
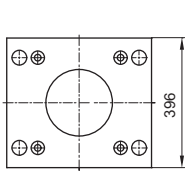
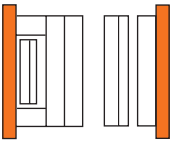
346x396



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x396x36/1.2767

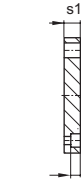
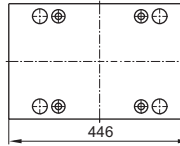
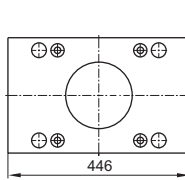
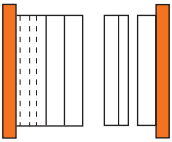
K10 K11



K10/346x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K11/346x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

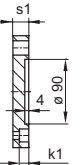
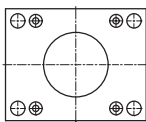
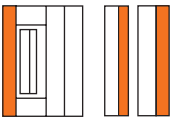
K12 K13



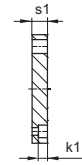
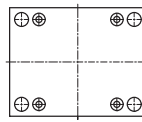
K12/346x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K13/346x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K15 K16



s1=22: k1=17,5
s1=27: k1=21



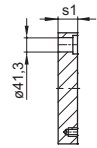
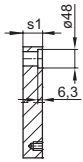
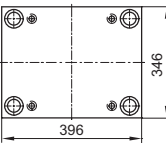
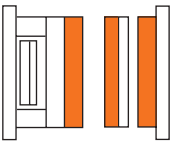
s1= 22 : k1= 17,5
s1= 27 : k1= 21

K15/346x396x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	
27	■		■	■
36	■		■	■

K16/346x396x s1 /	1.1730	1.2162	1.2085	1.2312
22	■	■	■	
27	■		■	■
36	■		■	■

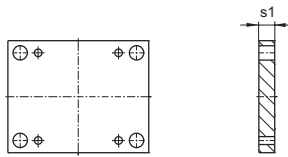
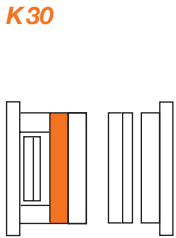
K20 K252

K20 ■ K252 ◆



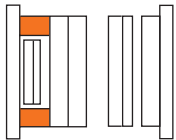
.../346x396 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■	■	■			■
27	■		◆		■	■	■	◆		■
36	■		◆	◆	■	■	■	◆	◆	■
46	■		◆	◆	■	■	■	◆	◆	■
56	■		◆	◆	■	■	■	◆	◆	■
66	■		◆	◆	■	■	■	◆	◆	■
76	■		◆	◆	■	■	■	◆	◆	■
86	■		◆	◆	■	■	■	◆	◆	■
96	■		◆	◆	■	■	■	◆	◆	■
116	■		◆	◆	■	■	■	◆	◆	■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			

K 30



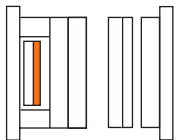
K 30/346x396 x s1/	1.1730	1.2085	1.2312	K 30/346x396 x s1/	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■				

**K 40
K 45
K 42**



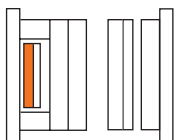
...	346x396 x s1/	1.1730	1.2085	1.2312	...	346x396 x s1/	1.1730	1.2085	1.2312
56	■	◆	◆		96	■	◆	◆	
66	■	◆	◆		116	■	◆	◆	
76	■	◆	◆		136	■	◆	◆	
86	■	◆	◆						

**K 60
K 65
K 62**



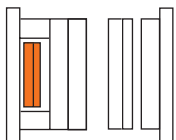
...	346x396 x s1/	1.1730	1.2085	1.2312
17		■	◆	◆

**K 70
K 75
K 72**



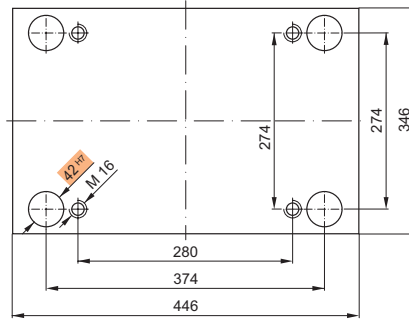
...	346x396 x s1/	1.1730	1.2085	1.2312
22		■	◆	◆

**K 60-70
K 65-75
K 62-72**



...	346 x 396 /	1.1730	1.2085	K 62-72/346x396/Typ	1.1730	1.2312
		■	◆	1	K 62	K 72
				3	K 62 K 72	

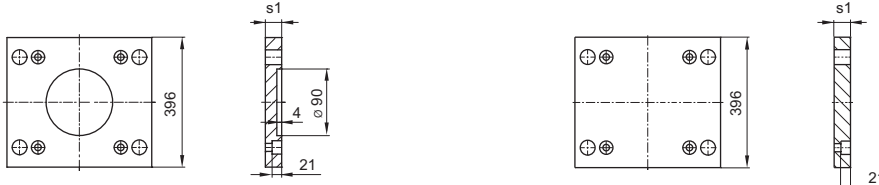
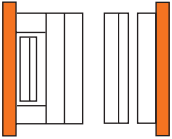
346x446



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x446x36/1.2767

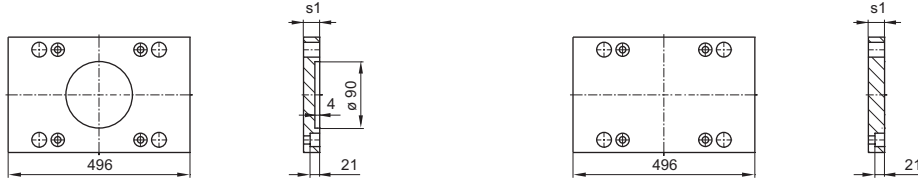
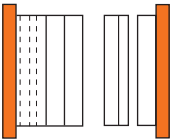
K10 K11



K10/346x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K11/346x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

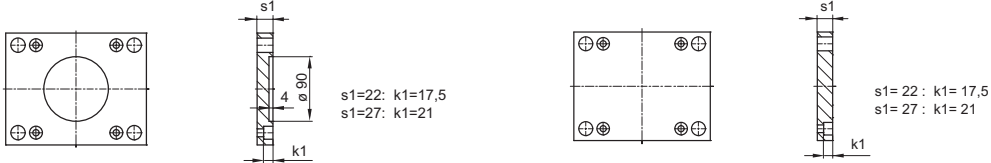
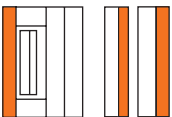
K12 K13



K12/346x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	

K13/346x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	

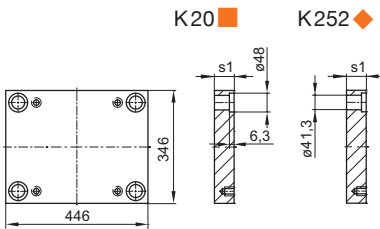
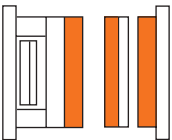
K15 K16



K15/346x446x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	
27	■		■	■
36	■		■	■

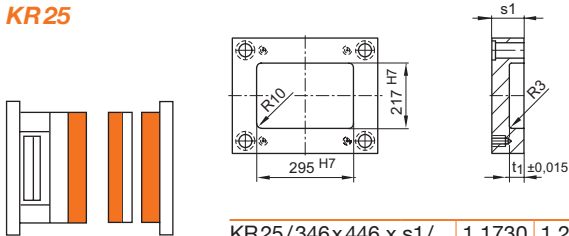
K16/346x446x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	
27	■		■	■
36	■		■	■

K20 K252



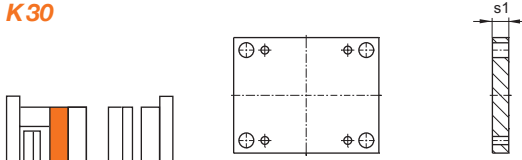
.../346x446 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■	■	■			■
27	■				■	■	■			■
36	■		◆	◆	■	■	■	◆	◆	■
46	■		◆	◆	■	■	■	◆	◆	■
56	■		◆	◆	■	■	■	◆	◆	■
66	■		◆	◆	■	■	■	◆	◆	■
76	■		◆	◆	■	■	■	◆	◆	■
86	■		◆	◆	■	■	■	◆	◆	■
96	■		◆	◆	■	■	■	◆	◆	■
116	■		◆	◆	■	■	■	◆	◆	■
136	■				■	■	■			■
156	■				■	■	■			■
176	■				■	■	■			■

KR25



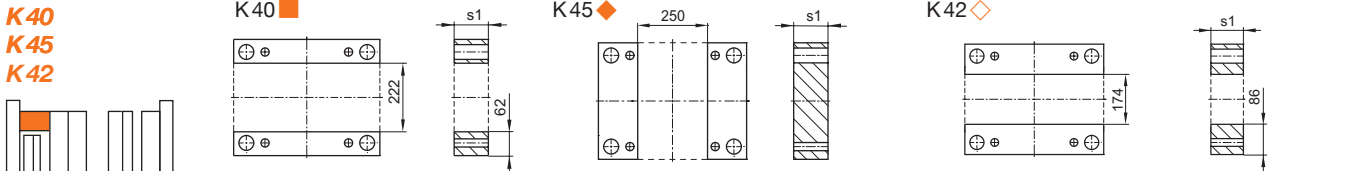
KR25/346x446 x s1/	1.1730	1.2085	1.2312	t1	KR25/346x446 x s1/	1.1730	1.2085	1.2312	t1
46	■	■	■	21,8	76	■	■	■	35,8
56	■	■	■	26,8	86	■	■	■	45,8
66	■	■	■	26,8	96	■	■	■	45,8

K30



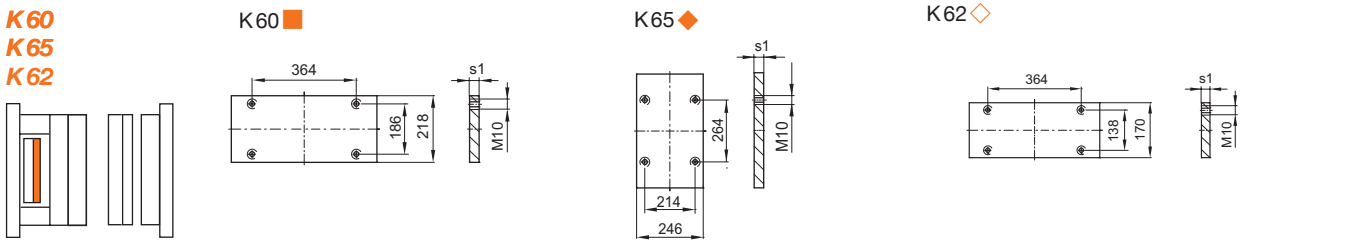
K 30/346x446 x s1/	1.1730	1.2085	1.2312	K 30/346x446 x s1/	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■	96	■	■	■

**K40
K45
K42**



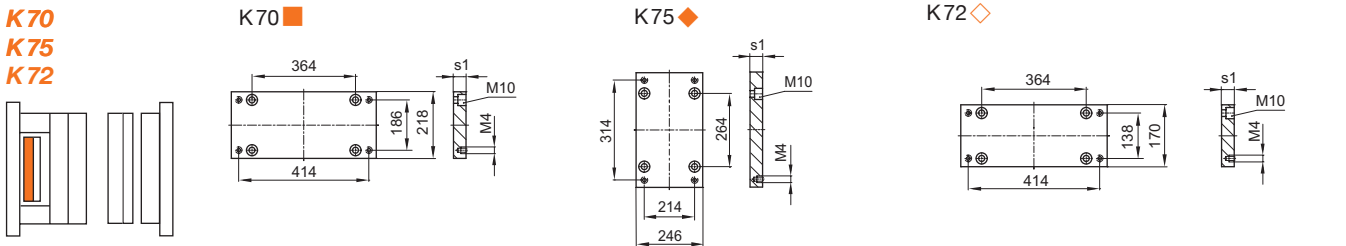
.../346x446 x s1/	1.1730	1.2085	1.2312	.../346x446 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◇	■ ◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆	■ ◆	

**K60
K65
K62**



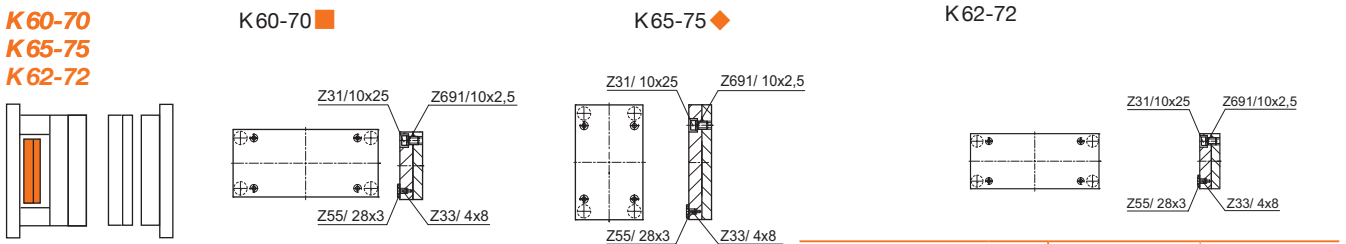
.../346x446 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

**K70
K75
K72**



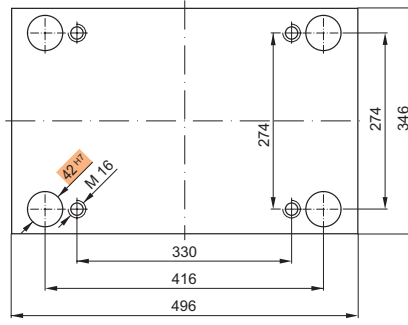
.../346x446 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	■ ◆ ◇

**K60-70
K65-75
K62-72**



.../346x446 /	1.1730	1.2085	K62-72/346x446/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

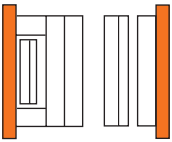
346x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x496x36/1.2767

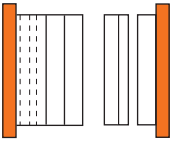
K10 K11



K10/346x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K11/346x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

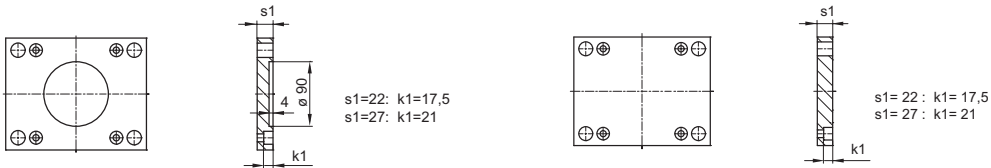
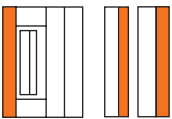
K12 K13



K12/346x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	

K13/346x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	

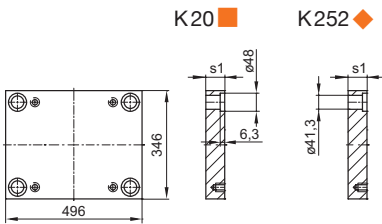
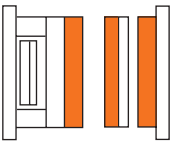
K15 K16



K15/346x496x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	
27	■		■	■
36	■		■	■

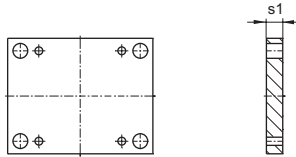
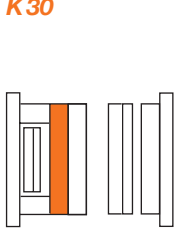
K16/346x496x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	
27	■		■	■
36	■		■	■

K20 K252



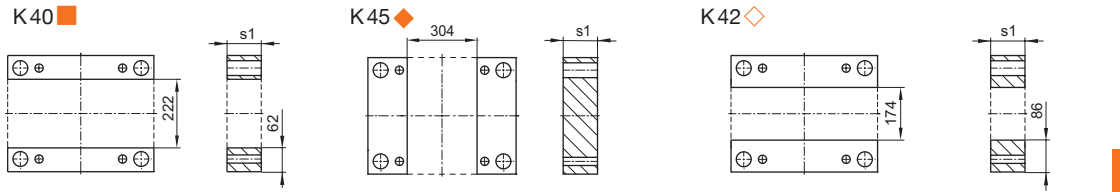
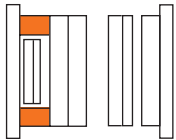
.../346x496 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■					■
27	■		◆		■	◆	■			■
36	■		◆		■	◆	■			■
46	■		◆	◆	■	◆	■	◆		■
56	■		◆	◆	■	◆	■	◆	◆	■
66	■		◆	◆	■	◆	■	◆		■
76	■		◆	◆	■	◆	■	◆	◆	■
86	■		◆	◆	■	◆	■	◆		■
96	■		◆	◆	■	◆	■	◆	◆	■
116	■		◆	◆	■	◆	■	◆	◆	■
136	■				■	◆	■			■
156	■				■	◆	■			■
176	■				■	◆	■			■

K 30



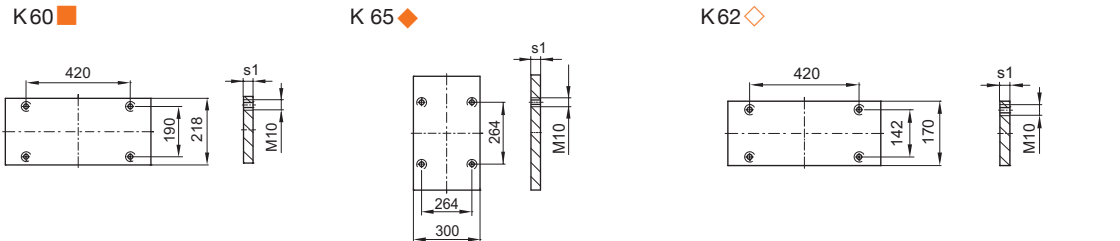
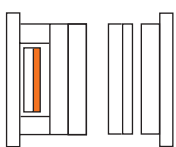
K 30/346x496 x s1/	1.1730	1.2085	1.2312	K 30/346x496 x s1/	1.1730	1.2085	1.2312
27	■	■	■	66	■	■	■
36	■	■	■	76	■	■	■
46	■	■	■	86	■	■	■
56	■	■	■	96	■	■	■

**K 40
K 45
K 42**



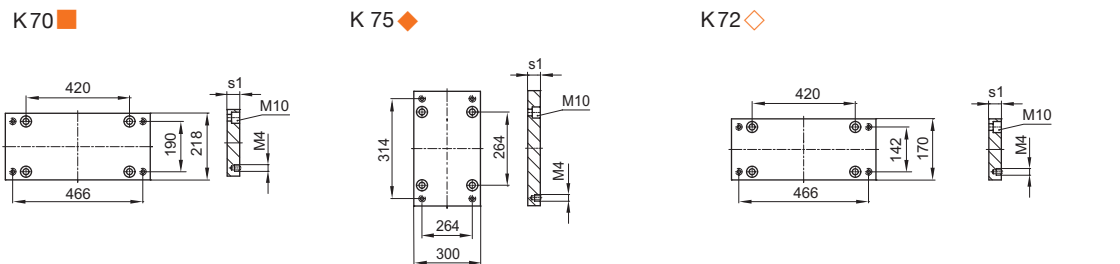
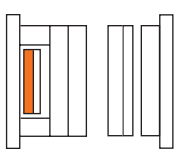
.../346x496 x s1/	1.1730	1.2085	1.2312	.../346x496 x s1/	1.1730	1.2085	1.2312
56	■ ◆	■ ◆		96	■ ◆ ◆	■ ◆	
66	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		136	■ ◆ ◆	■ ◆	
86	■ ◆ ◆	■ ◆		156	◆		

**K 60
K 65
K 62**



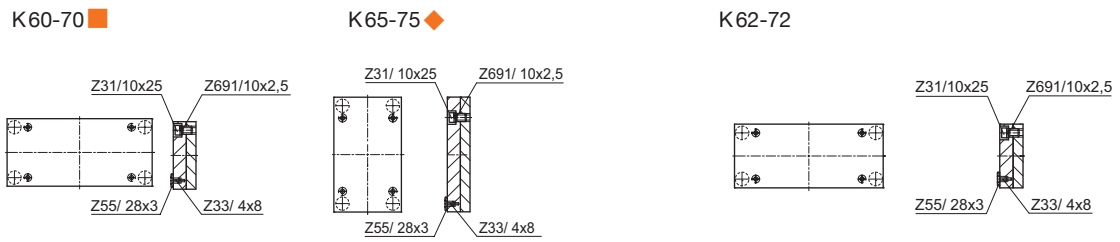
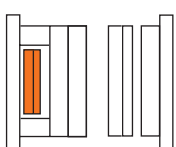
.../346x496 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◆	■ ◆	

**K 70
K 75
K 72**



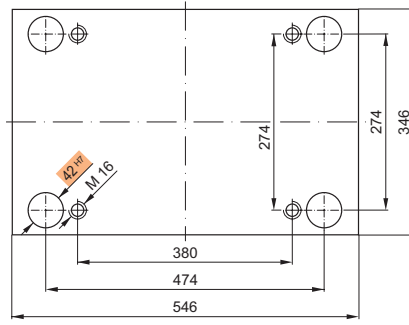
.../346x496 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	■ ◆ ◆

**K 60-70
K 65-75
K 62-72**



.../346 x 496 /	1.1730	1.2085	K 62-72/346x496/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K 62	K 72
			3	K 62 K 72	

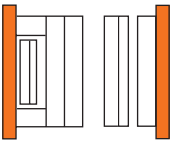
346x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x546x36/1.2162

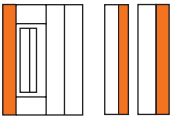
K10 K11



K10/346x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

K11/346x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

K15 K16

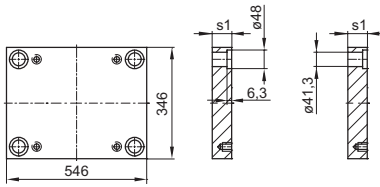
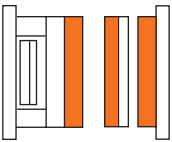


K15/346x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K16/346x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

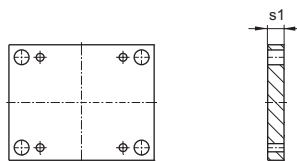
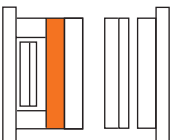
K20 K252

K20 ■ K252 ◆



.../346x546 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■	■	■			■
36	■				■	■	■	■		■
46	■				■	■	■	■		■
56	■				■	■	■	■	■	■
66	■				■	■	■	■		■
76	■				■	■	■	■	■	■
86	■				■	■	■	■		■
96	■				■	■	■	■	■	■
116	■				■	■	■	■	■	■
136	■				■	■	■	■	■	■
156	■				■	■	■	■	■	■
176	■				■	■	■	■		■

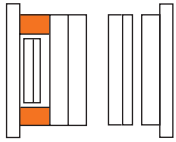
K30



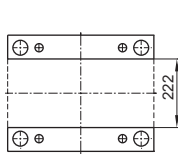
K30/346x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■		■	■

K30/346x546x s1 /	1.1730	1.2162	1.2085	1.2312
66	■		■	■
76	■		■	■
86	■		■	■

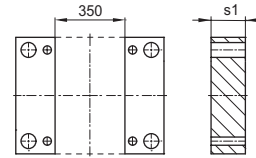
K40
K45
K42



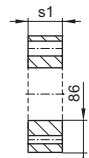
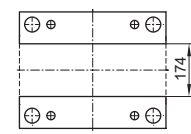
K40 ■



K45 ◆

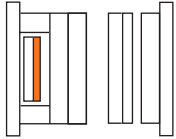


K42 ◇

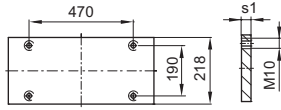


.../346x546 x s1/	1.1730	1.2085	1.2312	.../346x546 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

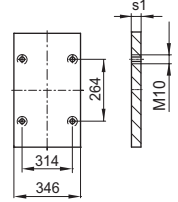
K60
K65
K62



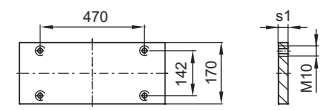
K60 ■



K65 ◆

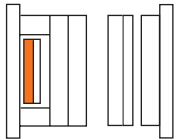


K62 ◇

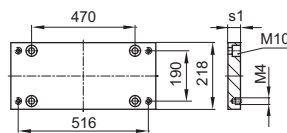


.../346x546 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

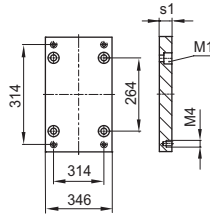
K70
K75
K72



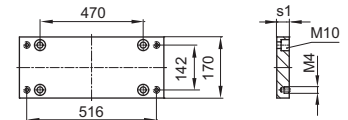
K70 ■



K75 ◆

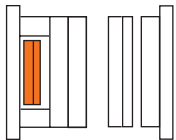


K72 ◇

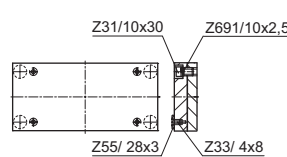


.../346x546 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

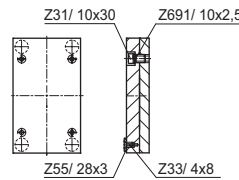
K60-70
K65-75
K62-72



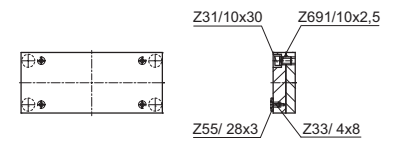
K60-70 ■



K65-75 ◆

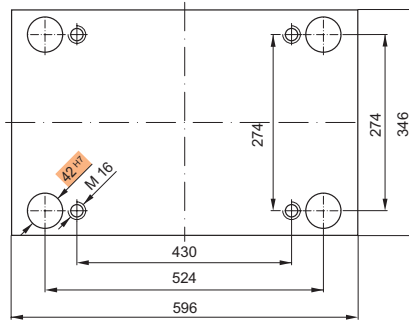


K62-72



.../346x546 /	1.1730	1.2085	K62-72/346x546/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

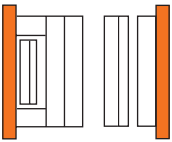
346x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

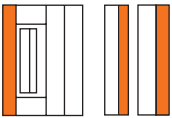
K20/346x596x36/1.2162

K10 K11



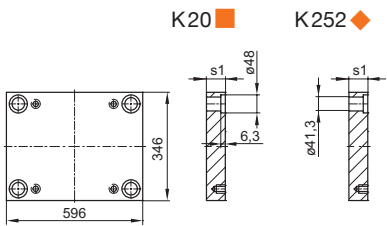
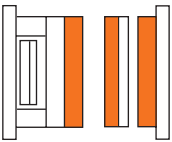
K10/346x596x s1 /	1.1730	1.2162	1.2085	1.2312	K11/346x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

K15 K16



K15/346x596x s1 /	1.1730	1.2162	1.2085	1.2312	K16/346x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■		27	■		■	
36	■		■	■	36	■		■	■

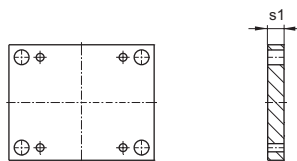
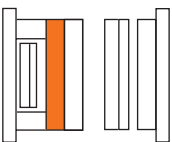
K20 K252



K20 ■ K252 ◆

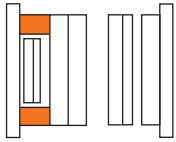
.../346x596 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■	■	■			■
36	■				■	■	■	■		■
46	■				■	■	■	■		■
56	■				■	■	■	■	■	■
66	■				■	■	■	■		■
76	■				■	■	■	■	■	■
86	■				■	■	■	■		■
96	■				■	■	■	■	■	■
116	■				■	■	■	■	■	■
136	■				■	■	■	■	■	■
156	■				■	■	■	■		
176	■				■	■	■			

K30

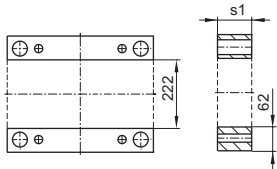


K30/346x596x s1 /	1.1730	1.2162	1.2085	1.2312	K30/346x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■	66	■		■	■
46	■		■	■	76	■			■
56	■		■	■					

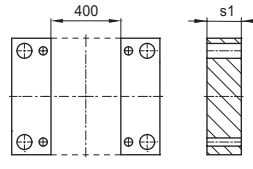
K40
K45
K42



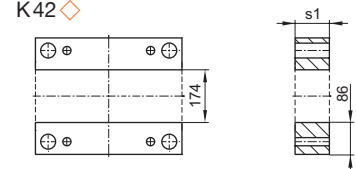
K40 ■



K45 ◆

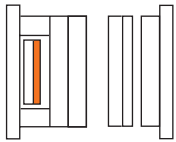


K42 ◇

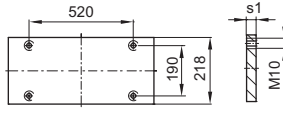


.../346x596 x s1/	1.1730	1.2085	1.2312	.../346x596 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

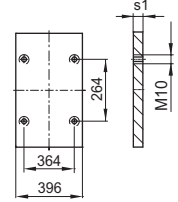
K60
K65
K62



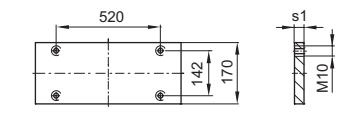
K60 ■



K65 ◆

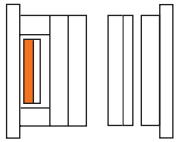


K62 ◇

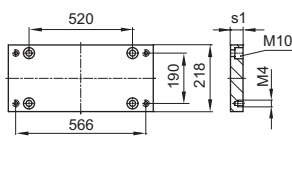


.../346x596 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

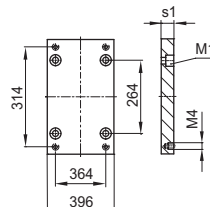
K70
K75
K72



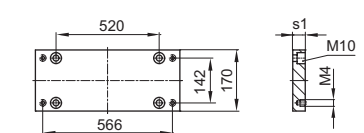
K70 ■



K75 ◆

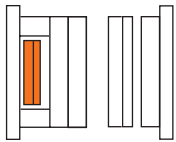


K72 ◇

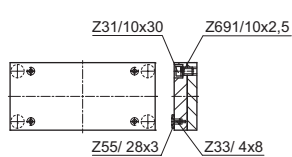


.../346x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

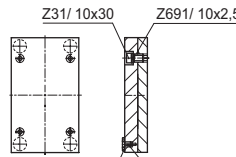
K60-70
K65-75
K62-72



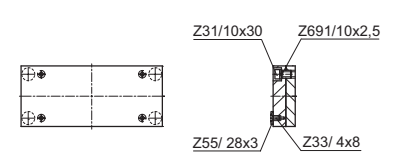
K60-70 ■



K65-75 ◆

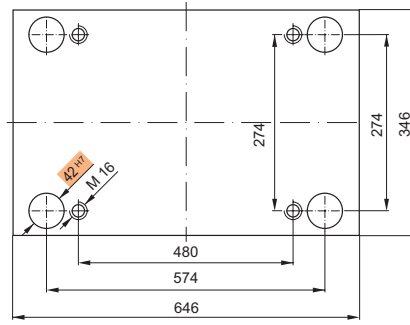


K62-72



.../346 x 596 /	1.1730	1.2085	K62-72/346x596/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

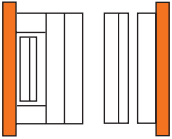
346x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x646x36/1.2085

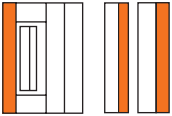
K10 K11



K10/346x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K11/346x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K15 K16

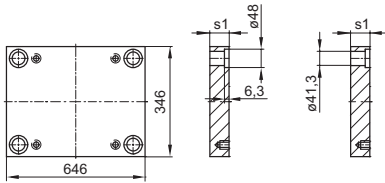
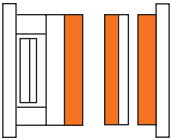


K15/346x646x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

K16/346x646x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

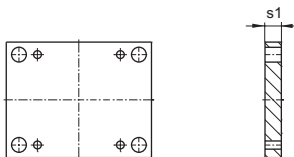
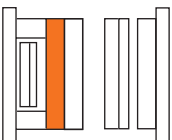
K20 K252

K20 ■ K252 ◆



.../346x646 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■ ◆		■ ◆			■
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			■
156	■				■ ◆	■ ◆	■ ◆			■
176	■					■	■			

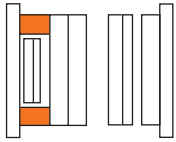
K30



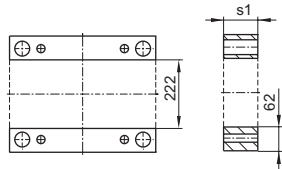
K30/346x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■
56	■		■	■

K30/346x646x s1 /	1.1730	1.2162	1.2085	1.2312
66	■			■
76	■			■

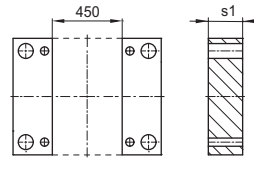
K40
K45
K42



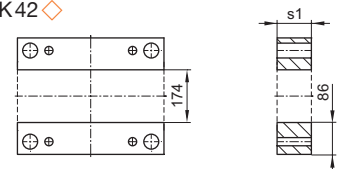
K40 ■



K45 ◆

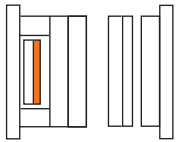


K42 ◇

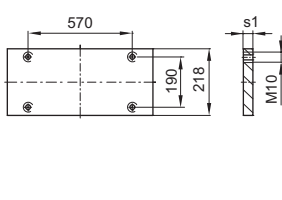


.../346x646 x s1/	1.1730	1.2085	1.2312	.../346x646 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

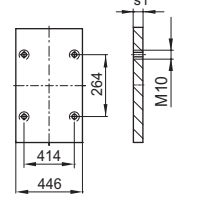
K60
K65
K62



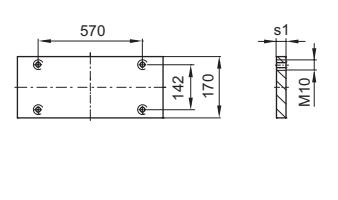
K60 ■



K65 ◆

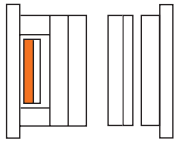


K62 ◇

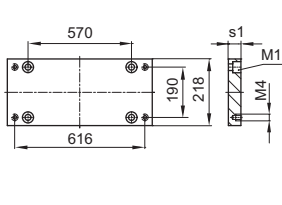


.../346x646 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

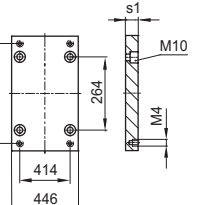
K70
K75
K72



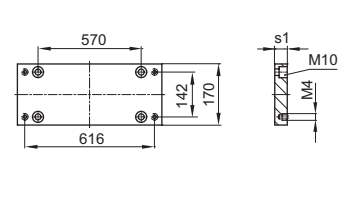
K70 ■



K75 ◆

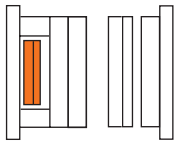


K72 ◇

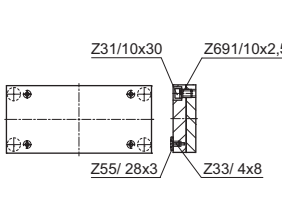


.../346x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

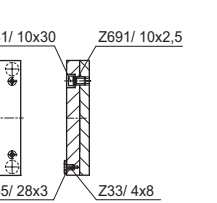
K60-70
K65-75
K62-72



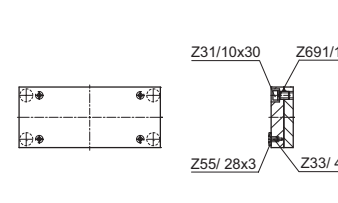
K60-70 ■



K65-75 ◆

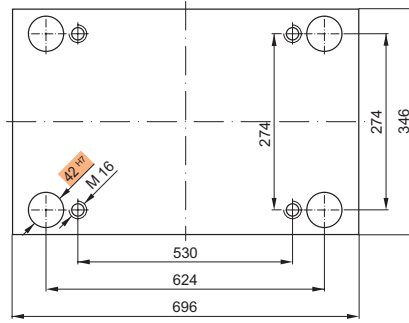


K62-72



.../346x646 /	1.1730	1.2085	K62-72/346x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

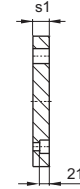
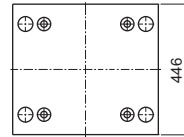
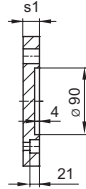
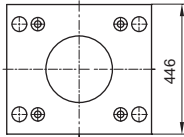
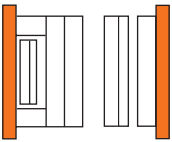
346x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/346x696x36/1.2085

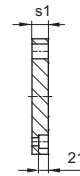
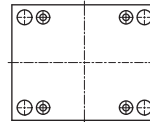
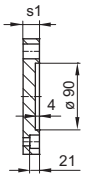
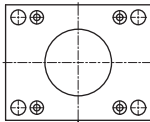
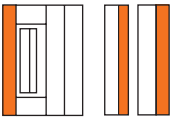
K10 K11



K10/346x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K11/346x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K15 K16

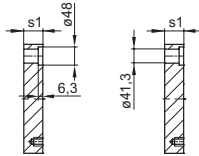
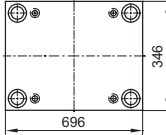
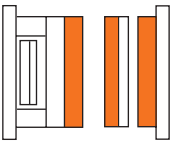


K15/346x696x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

K16/346x696x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

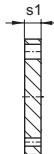
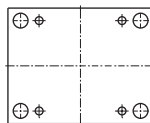
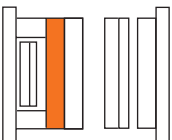
K20 K252

K20 ■ K252 ◆



.../346x696 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■		■			■
36	■				■	◆	■			■
46	■				■	◆	■			■
56	■				■	◆	■			■
66	■				■	◆	■			■
76	■				■	◆	■			■
86	■				■	◆	■			■
96	■				■	◆	■			■
116	■				■	◆	■			■
136	■				■	◆	■			■
156	■				■	◆	■			■
176							■			

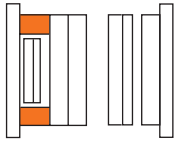
K30



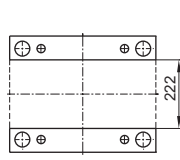
K30/346x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■
56	■		■	■

K30/346x696x s1 /	1.1730	1.2162	1.2085	1.2312
66	■			■
76	■			■

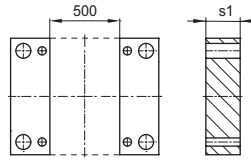
K40
K45
K42



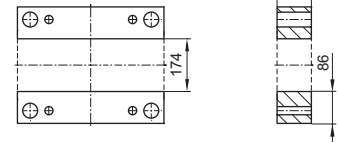
K40 ■



K45 ◆

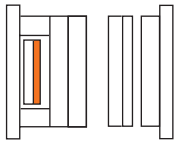


K42 ◇

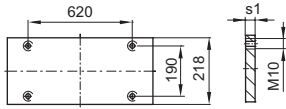


.../346x696 x s1/	1.1730	1.2085	1.2312	.../346x696 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	◆ ◇	◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

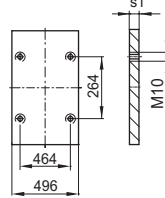
K60
K65
K62



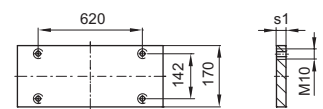
K60 ■



K65 ◆

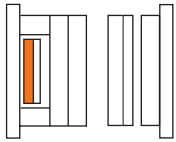


K62 ◇

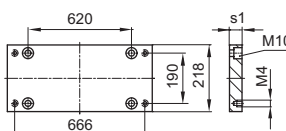


.../346x696 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

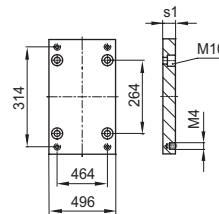
K70
K75
K72



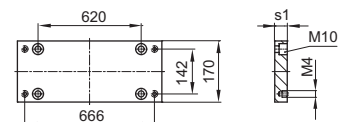
K70 ■



K75 ◆

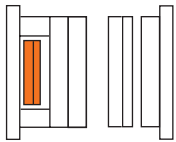


K72 ◇

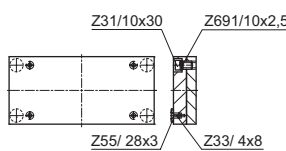


.../346x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

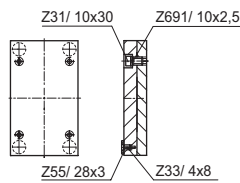
K60-70
K65-75
K62-72



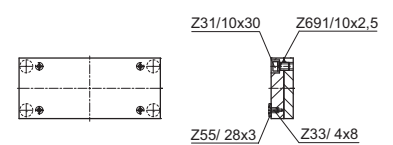
K60-70 ■



K65-75 ◆

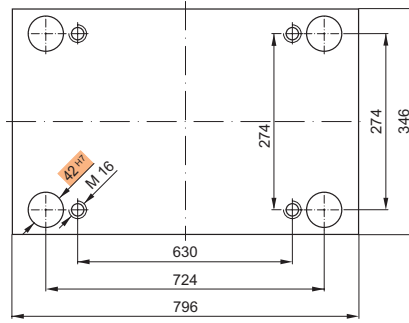


K62-72



.../346 x 696 /	1.1730	1.2085	K62-72/346x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

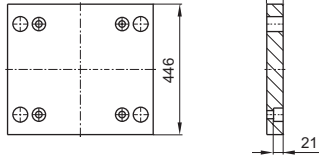
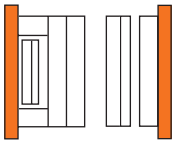
346x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

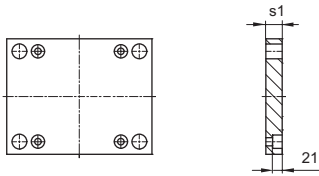
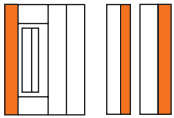
K20 / 346x796x36 / 1.2085

K11



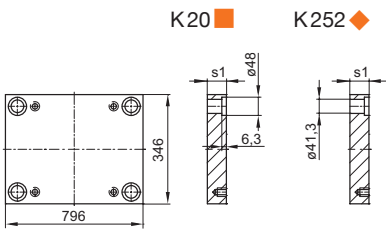
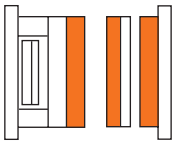
K11/346x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K16



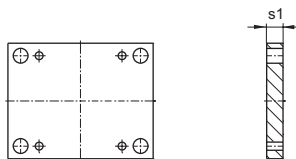
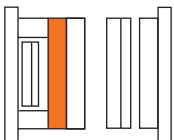
K16/346x796x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K20 K252



.../346x796 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■	■	■			■
36	■				■	■	■			■
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116	■				■	■	■			■
136	■				■	■	■			■
156	■				■	■	■			■
176						■	■			

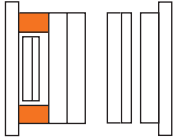
K30



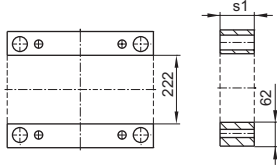
K30/346x796x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■
56	■		■	■

K30/346x796x s1 /	1.1730	1.2162	1.2085	1.2312
66	■			■
76	■			■

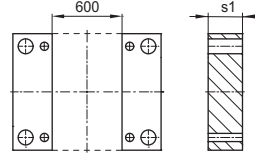
K40
K45
K42



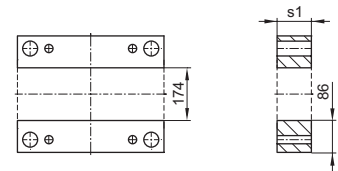
K40 ■



K45 ◆

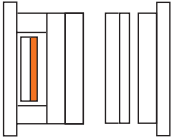


K42 ◇

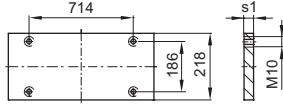


.../346x796 x s1/	1.1730	1.2085	1.2312	.../346x796 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	◆	◆		116	■ ◆ ◇	■ ◆	
76	◆ ◇	◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

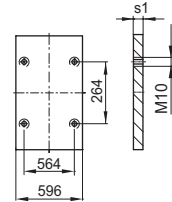
K60
K65
K62



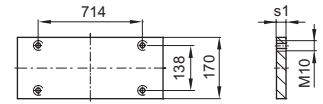
K60 ■



K65 ◆

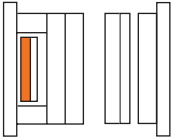


K62 ◇

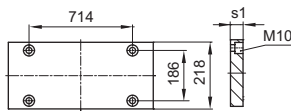


.../346x796 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

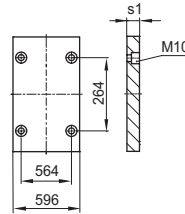
K70
K75
K72



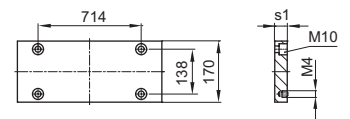
K70 ■



K75 ◆

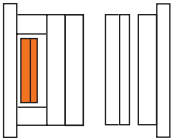


K72 ◇

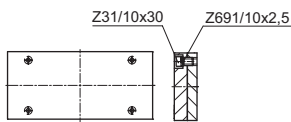


.../346x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

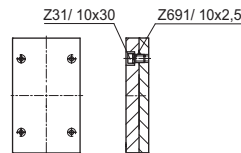
K60-70
K65-75
K62-72



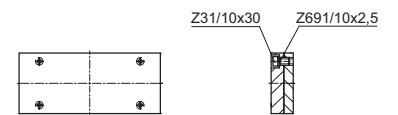
K60-70 ■



K65-75 ◆

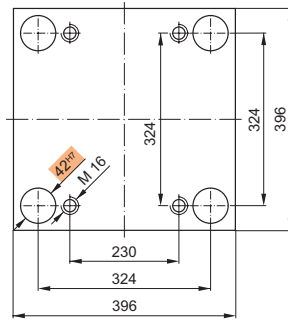


K62-72 ◇



.../346 x 796 /	1.1730	1.2085	K62-72/346x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

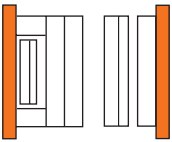
396x396



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x396x36/1.2767

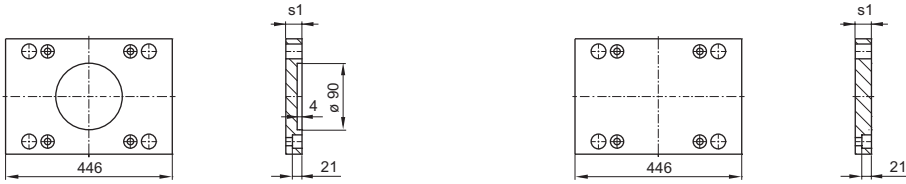
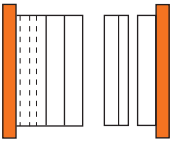
K10 K11



K10/396x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K11/396x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

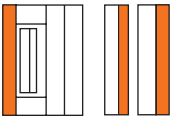
K12 K13



K12/396x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K13/396x396x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

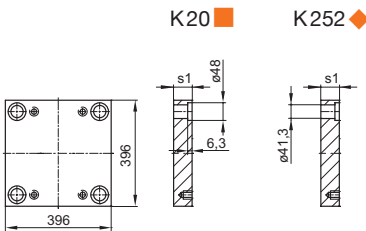
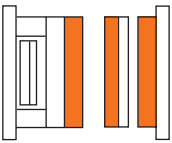
K15 K16



K15/396x396x s1 /	1.1730	1.2162	1.2085	1.2312
22	■		■	
27	■		■	■
36	■		■	■

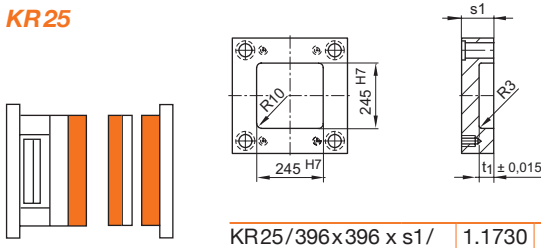
K16/396x396x s1 /	1.1730	1.2162	1.2085	1.2312
22	■	■	■	
27	■		■	■
36	■		■	■

K20 K252



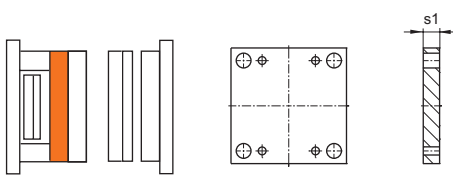
.../396x396 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■	■	■			■
27	■		◆		■	■	■	◆		■
36	■		◆		■	■	■	◆		■
46	■		◆		■	■	■	◆		■
56	■		◆		■	■	■	◆	◆	■
66	■		◆		■	■	■	◆		■
76	■		◆		■	■	■	◆	◆	■
86	■		◆		■	■	■	◆		■
96	■		◆		■	■	■	◆	◆	■
116	■		◆		■	■	■	◆	◆	■
136	■				■	■	■			■
156	■				■	■	■			■
176	■				■	■	■			■

KR25



KR25/396x396 x s1/	1.1730	1.2085	1.2312	t1	KR25/396x396 x s1/	1.1730	1.2085	1.2312	t1
56	■	■	■	26,8	86	■	■	■	45,8
66	■	■	■	26,8	96	■	■	■	45,8
76	■	■	■	35,8	116	■	■	■	55,8

K30



K 30/396x396 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■	■	■
56	■	■	■
66	■	■	■
76	■	■	■
86	■	■	■
96	■	■	■
116	■	■	■

**K40
K45
K42**

.../396x396 x s1/	1.1730	1.2085	1.2312	.../396x396 x s1/	1.1730	1.2085	1.2312
56	■	◆	◇	96	■	◆	◇
66	■	◆	◇	116	■	◆	◇
76	■	◆	◇	136	■	◆	◇
86	■	◆	◇	156	■	◆	◇

**K60
K65
K62**

.../396x396 x s1/	1.1730	1.2085	1.2312				
17	■	◆	◇	1.2085	■	◆	

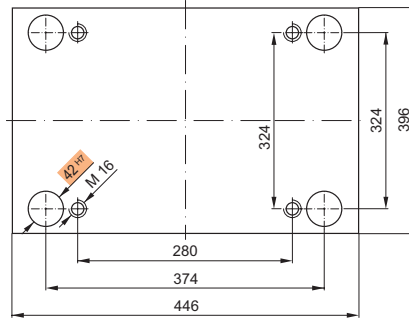
**K70
K75
K72**

.../396x396 x s1/	1.1730	1.2085	1.2312				
22	■	◆	◇	1.2085	■	◆	

**K60-70
K65-75
K62-72**

.../396 x 396 /	1.1730	1.2085	K62-72/396x396/Typ	1.1730	1.2312
	■	◆	1	K62	K72
			3	K62 K72	

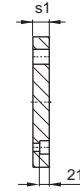
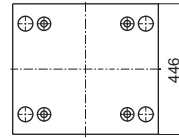
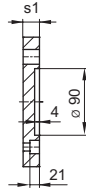
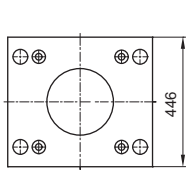
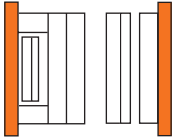
396x446



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x446x36/1.2162

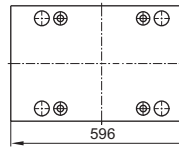
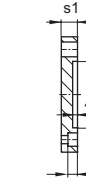
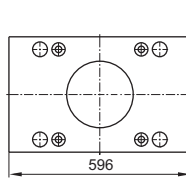
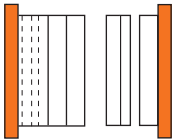
K10 K11



K10/396x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K11/396x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

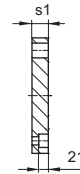
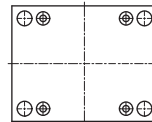
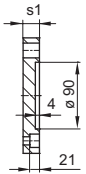
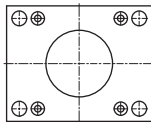
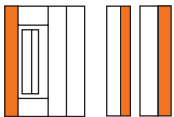
K12 K13



K12/396x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

K13/396x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■
46	■		■	■

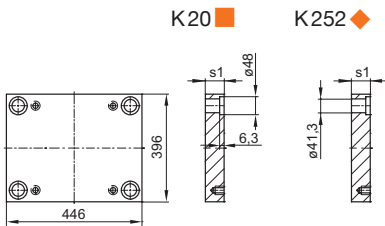
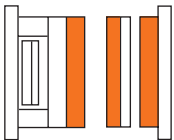
K15 K16



K15/396x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K16/396x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

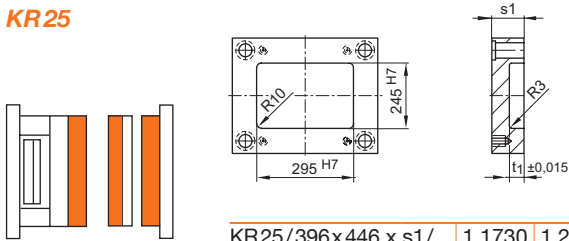
K20 K252



K20 ■ K252 ◆

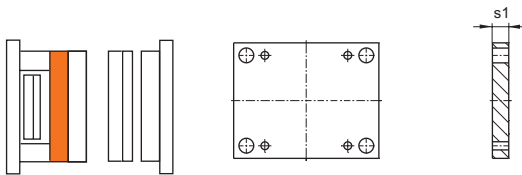
.../396x446 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■	■	■	◆		■
36	■		◆		■	■	■	◆		■
46	■		◆		■	■	■	◆		■
56	■		◆		■	■	■	◆	◆	■
66	■		◆		■	■	■	◆		■
76	■		◆		■	■	■	◆	◆	■
86	■		◆		■	■	■	◆		■
96	■		◆		■	■	■	◆	◆	■
116	■		◆		■	■	■	◆	◆	■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			

KR25



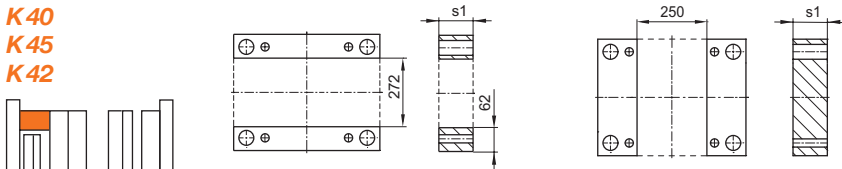
KR25/396x446 x s1/	1.1730	1.2085	1.2312	t1	KR25/396x446 x s1/	1.1730	1.2085	1.2312	t1
56	■	■	■	26,8	86	■	■	■	45,8
66	■	■	■	26,8	96	■	■	■	45,8
76	■	■	■	35,8	116	■	■	■	55,8

K30



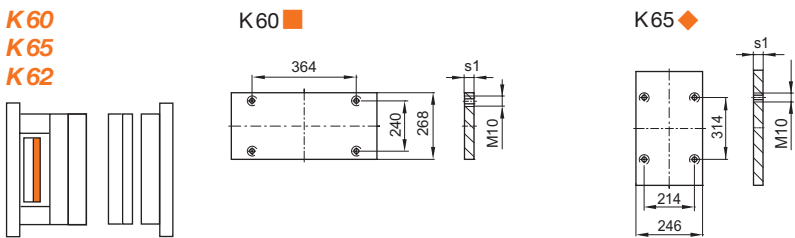
K 30/396x446 x s1/	1.1730	1.2085	1.2312
27	■	■	■
36	■	■	■
46	■	■	■
56	■	■	■
66	■	■	■
76	■	■	■
86	■	■	■
96	■	■	■
116	■	■	■

**K40
K45
K42**



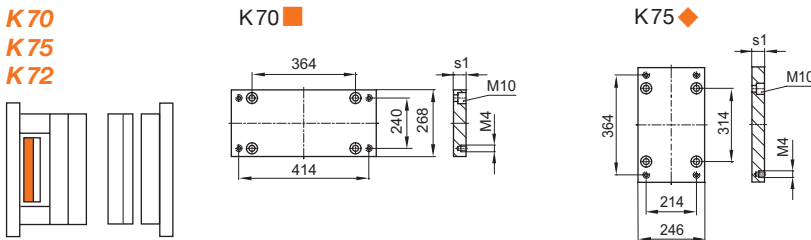
.../396x446 x s1/	1.1730	1.2085	1.2312	.../396x446 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◇	■ ◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

**K60
K65
K62**



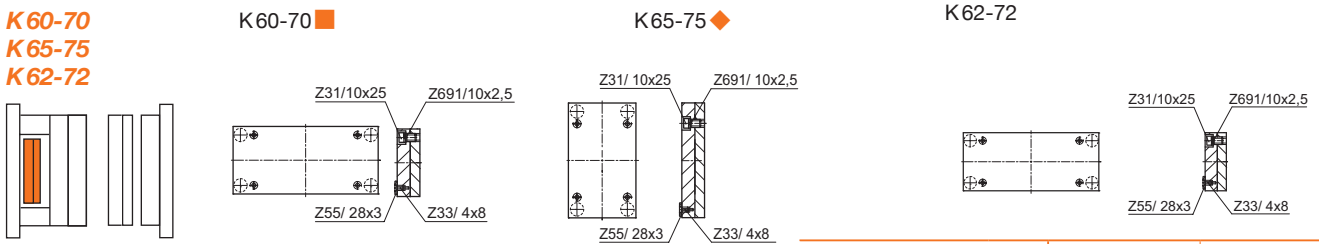
.../396x446 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

**K70
K75
K72**



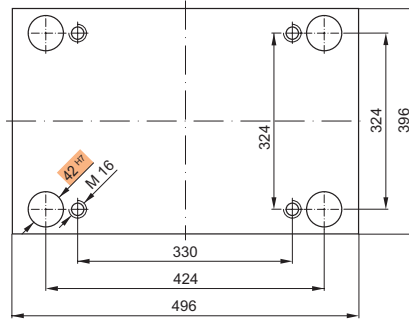
.../396x446 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	■ ◆ ◇

**K60-70
K65-75
K62-72**



.../396x446 /	1.1730	1.2085	K62-72/396x446/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

396x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x496x36/1.2162

K10
K11

K10/396x496x s1 /	1.1730	1.2162	1.2085	1.2312	K11/396x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■	36	■		■	■
46	■		■	■	46	■		■	■

K12
K13

K12/396x496x s1 /	1.1730	1.2162	1.2085	1.2312	K13/396x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

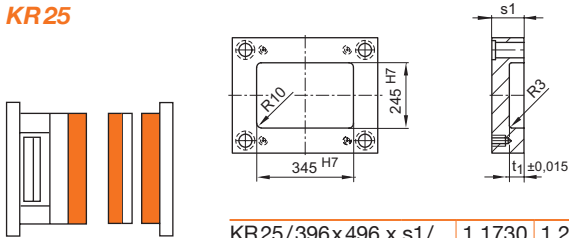
K15
K16

K15/396x496x s1 /	1.1730	1.2162	1.2085	1.2312	K16/396x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■	27	■		■	■
36	■		■	■	36	■		■	■

K20 ■ **K252** ◆

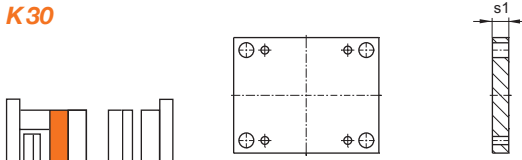
.../396x496 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■		◆		■	◆	■	◆		■
36	■		◆		■	◆	■	◆		■
46	■		◆		■	◆	■	◆		■
56	■		◆		■	◆	■	◆	◆	■
66	■		◆		■	◆	■	◆		■
76	■		◆		■	◆	■	◆	◆	■
86	■		◆		■	◆	■	◆		■
96	■		◆		■	◆	■	◆	◆	■
116	■		◆		■	◆	■	◆	◆	■
136	■				■	◆	■	◆	◆	
156	■				■	◆	■	◆		
176						■	■			

KR25



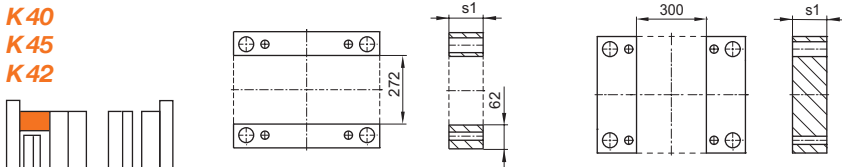
KR25/396x496 x s1/	1.1730	1.2085	1.2312	t1	KR25/396x496 x s1/	1.1730	1.2085	1.2312	t1
56	■	■	■	26,8	86	■	■	■	45,8
66	■	■	■	26,8	96	■	■	■	45,8
76	■	■	■	35,8	116	■	■	■	55,8

K30

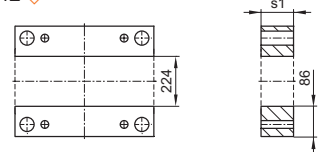


K 30/396x496 x s1/	1.1730	1.2085	1.2312	K 30/396x496 x s1/	1.1730	1.2085	1.2312
36	■	■		76	■		
46	■	■	■	86	■		
56	■	■	■	96	■		
66	■	■		116	■		

**K40
K45
K42**

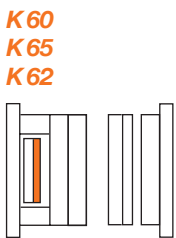


K42 ◆

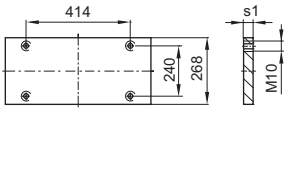


.../396x496 x s1/	1.1730	1.2085	1.2312	.../396x496 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◆	■ ◆	
66	■ ◆ ◆	■ ◆		116	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		136	■ ◆ ◆	■ ◆	
86	■ ◆ ◆	■ ◆		156	■ ◆ ◆	■ ◆	

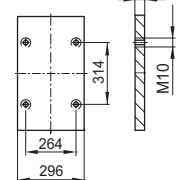
**K60
K65
K62**



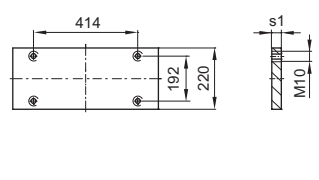
K60 ■



K65 ◆

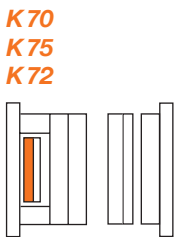


K62 ◆

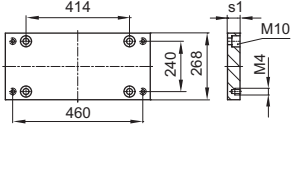


.../396x496 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◆	■ ◆	

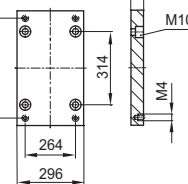
**K70
K75
K72**



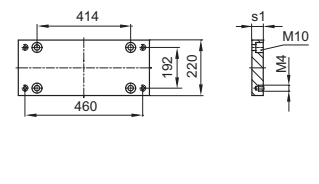
K70 ■



K75 ◆



K72 ◆

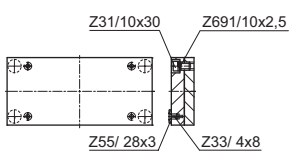


.../396x496 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	■ ◆ ◆

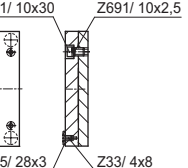
**K60-70
K65-75
K62-72**



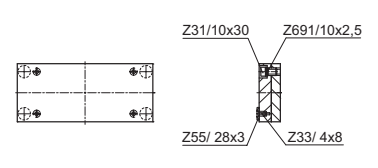
K60-70 ■



K65-75 ◆

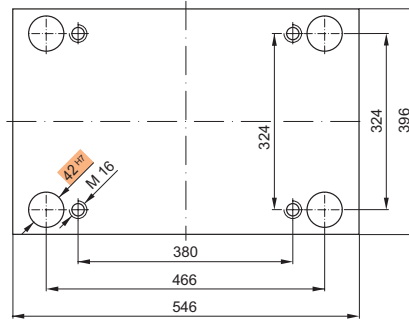


K62-72



.../396x496 /	1.1730	1.2085	K62-72/396x496/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

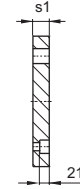
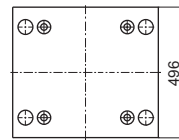
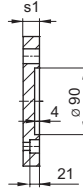
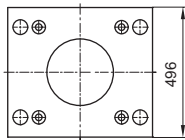
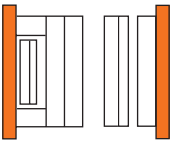
396x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x546x36/1.2162

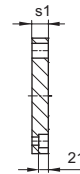
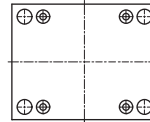
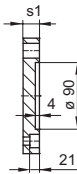
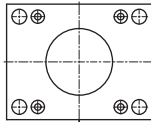
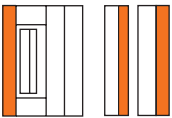
K10 K11



K10/396x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

K11/396x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

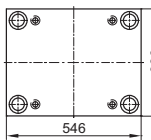
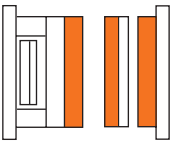
K15 K16



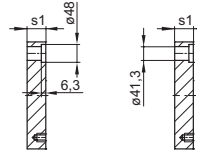
K15/396x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	■
36	■		■	■

K16/396x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■	■	■	■
36	■		■	■

K20 K252

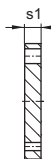
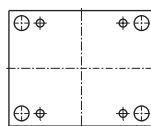
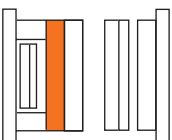


K20 ■ K252 ◆



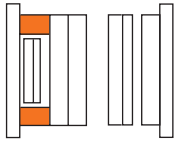
.../396x546 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■		◆		■	■	■			■
36	■		◆		■	■	■			■
46	■		◆		■	■	■	◆		■
56	■		◆		■	■	■	◆	◆	■
66	■		◆		■	■	■	◆		■
76	■		◆		■	■	■	◆	◆	■
86	■		◆		■	■	■	◆		■
96	■		◆		■	■	■	◆	◆	■
116	■		◆		■	■	■	◆	◆	■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			

K30

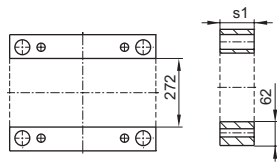


K30/396x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■		■	■
66	■		■	■
76	■		■	■
86	■		■	■
96	■		■	■
116	■		■	■

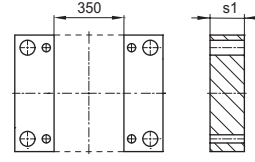
K40
K45
K42



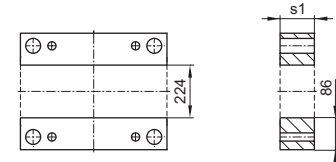
K40 ■



K45 ◆

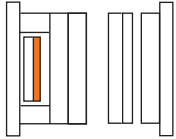


K42 ◇

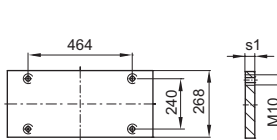


.../396x546 x s1/	1.1730	1.2085	1.2312	.../396x546 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	

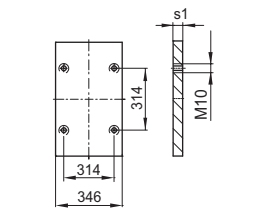
K60
K65
K62



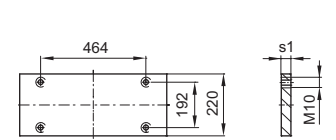
K60 ■



K65 ◆

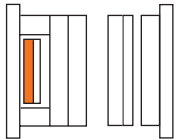


K62 ◇

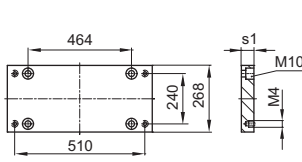


.../396x546 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

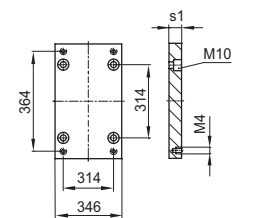
K70
K75
K72



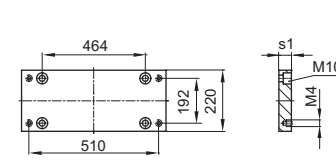
K70 ■



K75 ◆

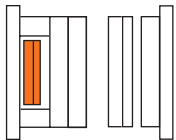


K72 ◇

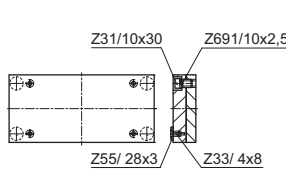


.../396x546 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

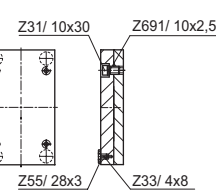
K60-70
K65-75
K62-72



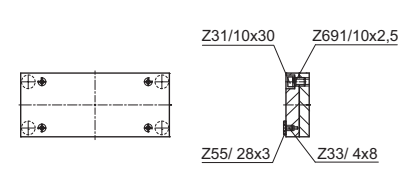
K60-70 ■



K65-75 ◆

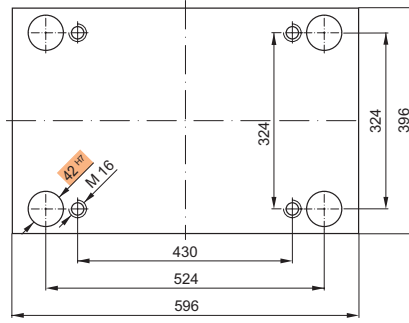


K62-72



.../396 x 546 /	1.1730	1.2085	K62-72/396x546/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

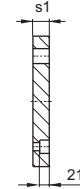
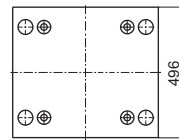
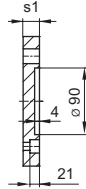
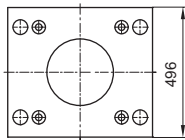
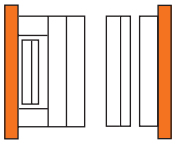
396x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x596x36/1.2085

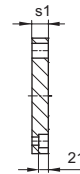
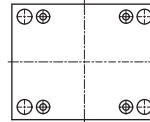
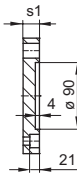
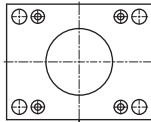
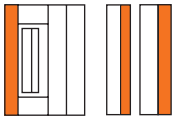
K10 K11



K10/396x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K11/396x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

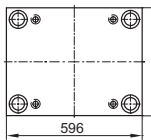
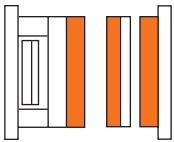
K15 K16



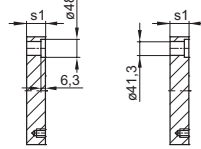
K15/396x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

K16/396x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

K20 K252

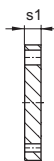
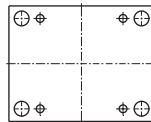
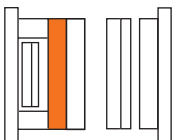


K20 ■ K252 ◆



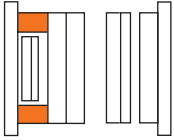
.../396x596 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■ ◆		■ ◆			■
36	■		◆		■ ◆	■ ◆	■ ◆	◆		■
46	■		◆		■ ◆	■ ◆	■ ◆	◆		■
56	■		◆		■ ◆	■ ◆	■ ◆	◆	◆	■
66	■		◆		■ ◆	■ ◆	■ ◆	◆		■
76	■		◆		■ ◆	■ ◆	■ ◆	◆	◆	■
86	■		◆		■ ◆	■ ◆	■ ◆	◆		■
96	■		◆		■ ◆	■ ◆	■ ◆	◆	◆	■
116	■		◆		■ ◆	■ ◆	■ ◆	◆	◆	■
136	■				■ ◆	■ ◆	■ ◆	◆	◆	
156	■				■ ◆	■ ◆	■ ◆			
176	■					■	■			

K30

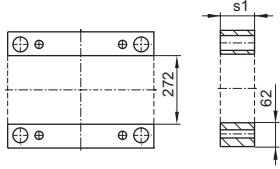


K30/396x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56			■	
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

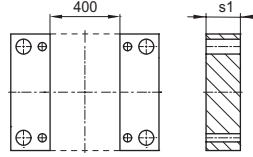
K40
K45
K42



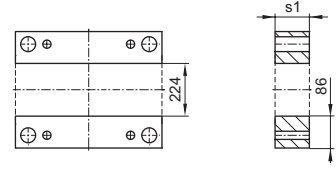
K40 ■



K45 ◆



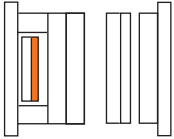
K42 ◇



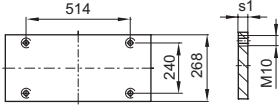
.../396x596 x s1/	1.1730	1.2085	1.2312
56	◆	◆	
66	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆	

.../396x596 x s1/	1.1730	1.2085	1.2312
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	

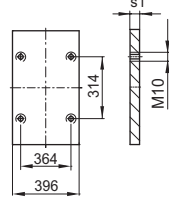
K60
K65
K62



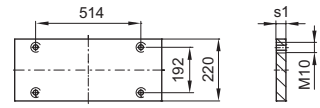
K60 ■



K65 ◆

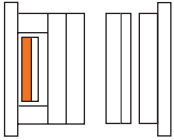


K62 ◇

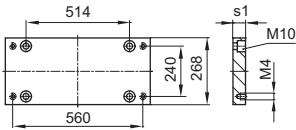


.../396x596 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

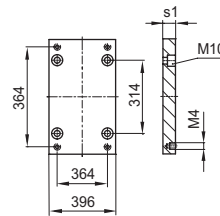
K70
K75
K72



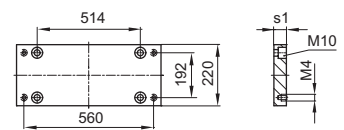
K70 ■



K75 ◆

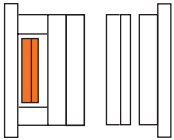


K72 ◇

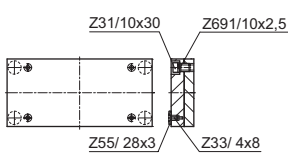


.../396x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

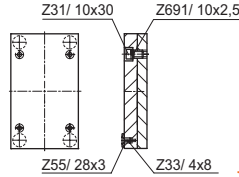
K60-70
K65-75
K62-72



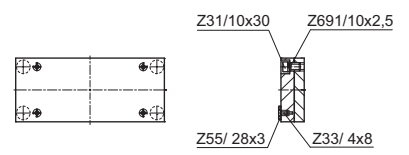
K60-70 ■



K65-75 ◆

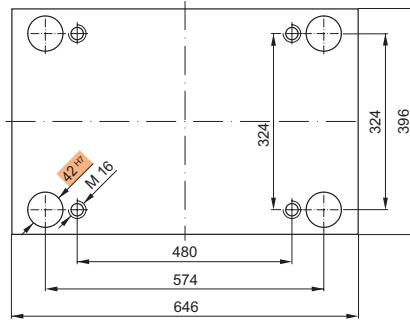


K62-72 ◇



.../396 x 596 /	1.1730	1.2085	K62-72/396x596/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

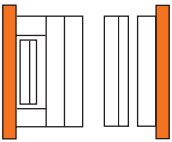
396x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x646x36/1.2085

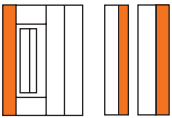
K10 K11



K10/396x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/396x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K15 K16

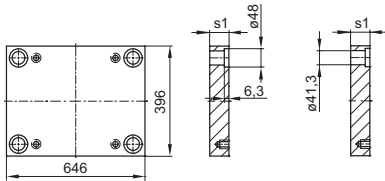
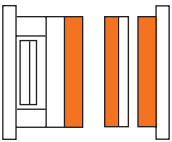


K15/396x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/396x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

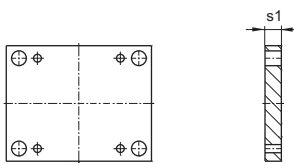
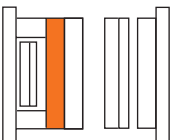
K20 K252

K20 ■ K252 ◆



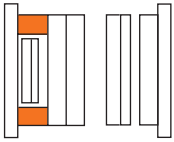
.../396x646 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■		■			
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			

K30

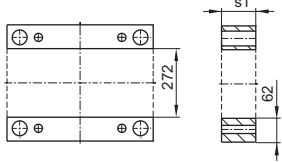


K30/396x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■			■
46	■		■	■
56	■		■	■
66	■		■	■
76	■			■
86	■			■
96	■			■
116	■			■

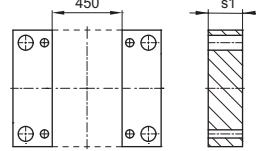
K40
K45
K42



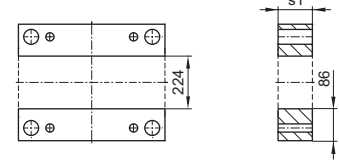
K40 ■



K45 ◆

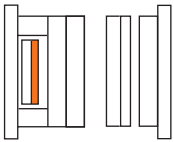


K42 ◆

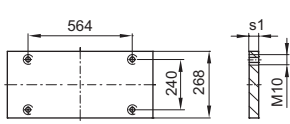


.../396x646 x s1/	1.1730	1.2085	1.2312	.../396x646 x s1/	1.1730	1.2085	1.2312
66	■ ◆	■		116	■ ◆ ◆	■ ◆	
76	■ ◆ ◆	■ ◆		136	■ ◆ ◆	■ ◆	
86	■ ◆ ◆	■ ◆		156	■ ◆ ◆	■ ◆	
96	■ ◆ ◆	■ ◆					

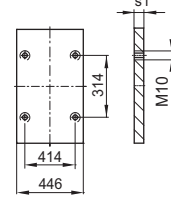
K60
K65
K62



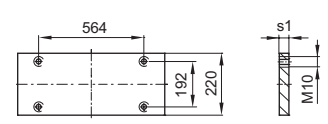
K60 ■



K65 ◆

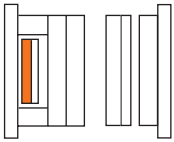


K62 ◆

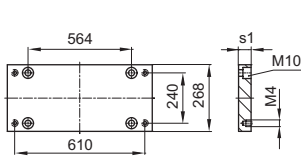


.../396x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	

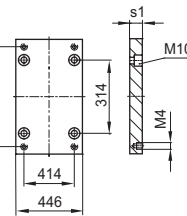
K70
K75
K72



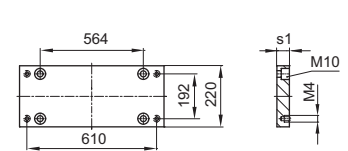
K70 ■



K75 ◆

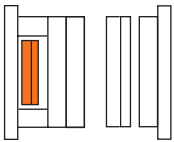


K72 ◆

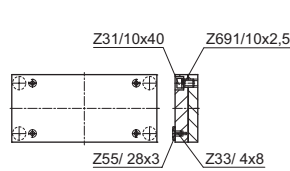


.../396x646 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◆	■ ◆	■ ◆ ◆

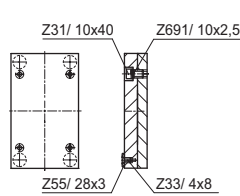
K60-70
K65-75
K62-72



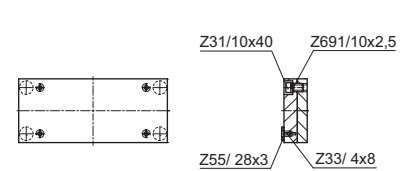
K60-70 ■



K65-75 ◆

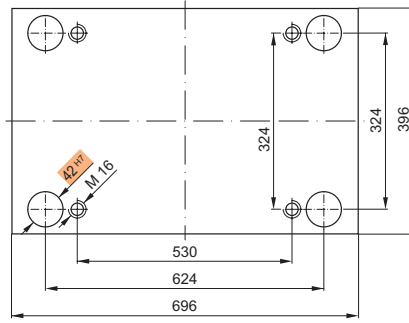


K62-72



.../396 x 646 /	1.1730	1.2085	K62-72/396x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

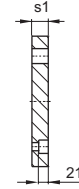
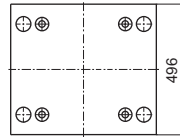
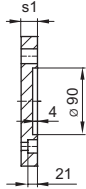
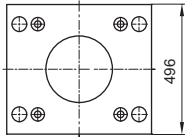
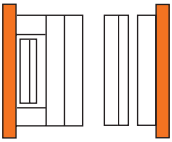
396 x 696



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/396x696x36/1.2085

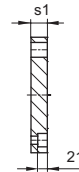
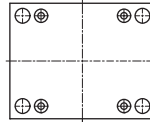
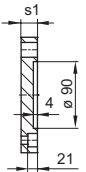
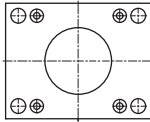
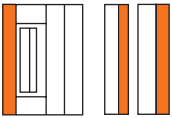
K10 K11



K10/396x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/396x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K15 K16

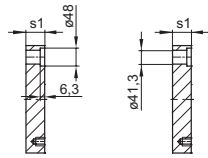
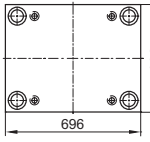
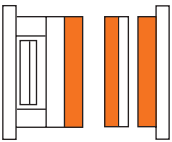


K15/396x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/396x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

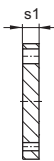
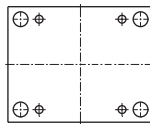
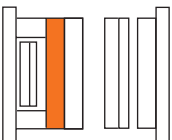
K20 K252

K20 ■ K252 ◆



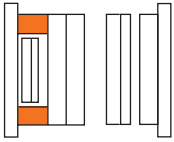
.../396x696 x s1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■		■			
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			

K30

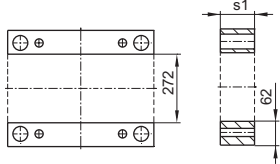


K30/396x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■			■
46	■		■	■
56	■		■	■
66	■		■	■
76	■		■	■
86	■		■	■
96	■		■	■
116	■		■	■

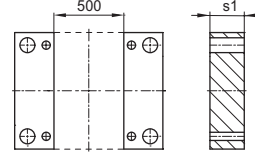
K40
K45
K42



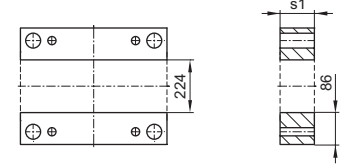
K40 ■



K45 ◆

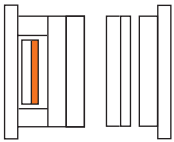


K42 ◇

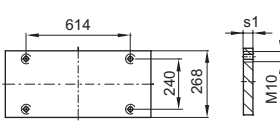


.../396x696 x s1/	1.1730	1.2085	1.2312	.../396x696 x s1/	1.1730	1.2085	1.2312
66	■	■		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆					

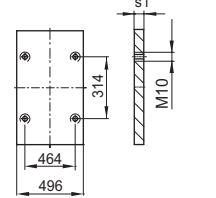
K60
K65
K62



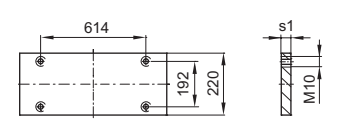
K60 ■



K65 ◆

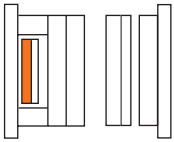


K62 ◇

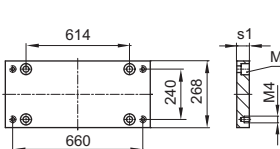


.../396x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

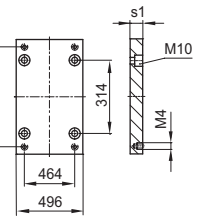
K70
K75
K72



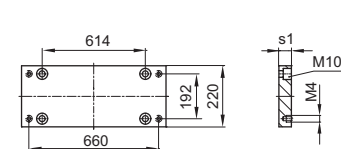
K70 ■



K75 ◆

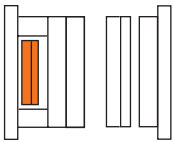


K72 ◇

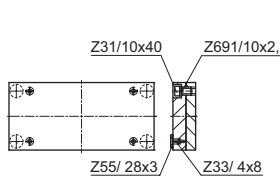


.../396x696 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

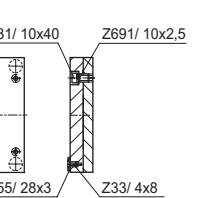
K60-70
K65-75
K62-72



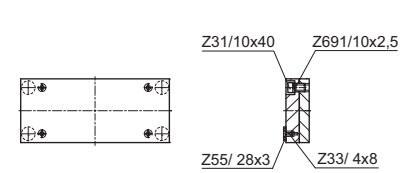
K60-70 ■



K65-75 ◆

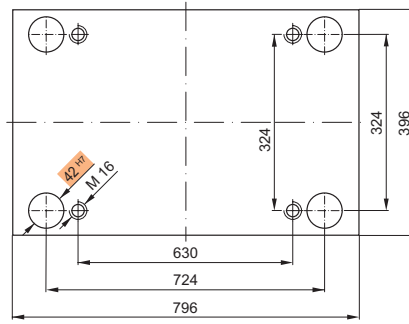


K62-72 ◇



.../396x696 /	1.1730	1.2085	K62-72/396x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

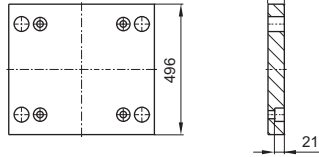
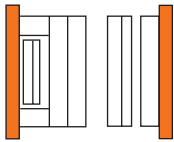
396x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

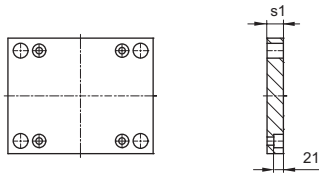
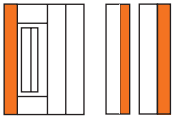
K 20 / 396x796x36 / 1.2085

K11



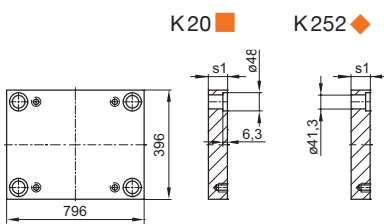
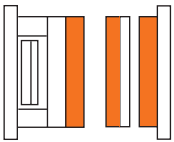
K11/396x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K16



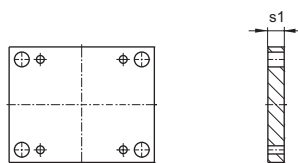
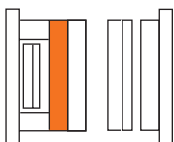
K16/396x796x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K20 K252



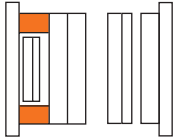
.../396x796 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
22	■				■		■			
27	■				■		■			
36	■				■	■	■			■
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116	■				■	■	■			■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			

K30

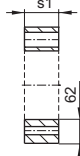
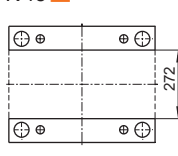


K30/396x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

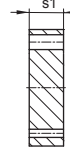
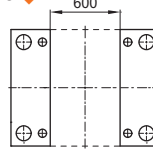
K40
K45
K42



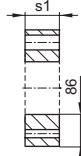
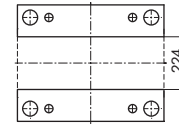
K40 ■



K45 ◆

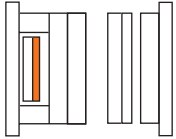


K42 ◇

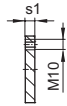
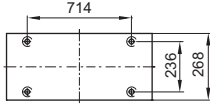


.../396x796 x s1/	1.1730	1.2085	1.2312	.../396x796 x s1/	1.1730	1.2085	1.2312
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆					

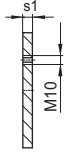
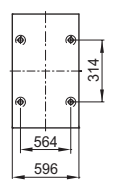
K60
K65
K62



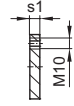
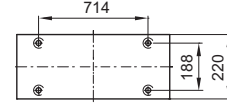
K60 ■



K65 ◆

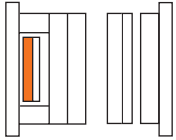


K62 ◇

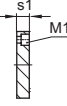
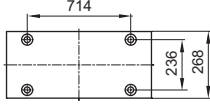


.../396x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

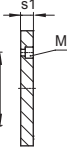
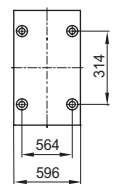
K70
K75
K72



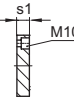
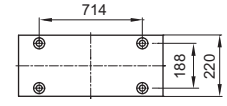
K70 ■



K75 ◆

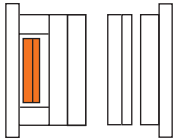


K72 ◇

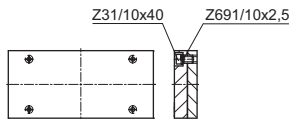


.../396x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

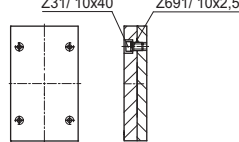
K60-70
K65-75
K62-72



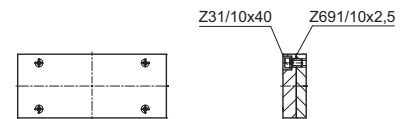
K60-70 ■



K65-75 ◆

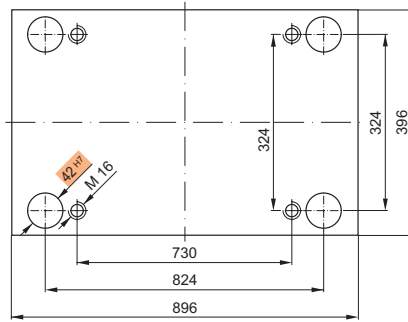


K62-72



.../396 x 796 /	1.1730	1.2085	K62-72/396x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

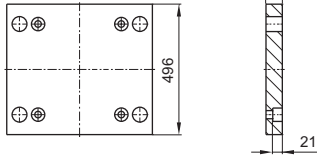
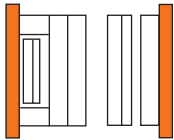
396x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

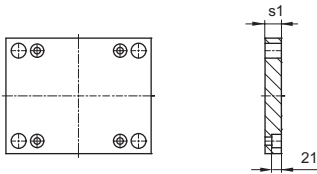
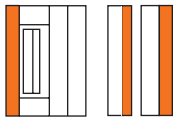
K 20 / 396x896x46 / 1.2085

K11



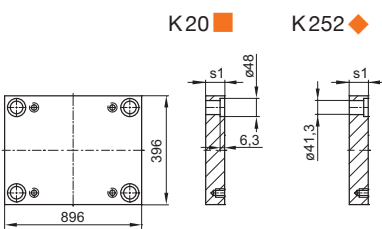
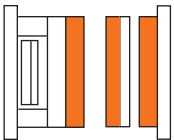
K11/396x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K16



K16/396x896x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

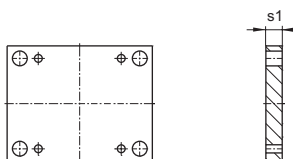
K20 K252



K20 ■ K252 ◆

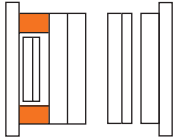
.../396x896 xs1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			■
156	■				■ ◆	■ ◆	■ ◆			■
176	■				■ ◆	■ ◆	■ ◆			■

K30

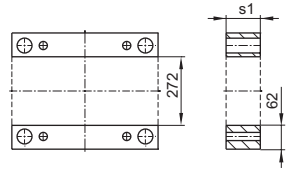


K30/396x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■

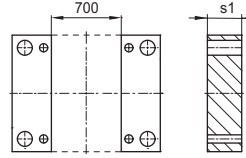
K40
K45
K42



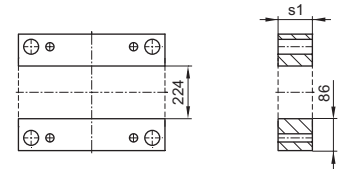
K40 ■



K45 ◆



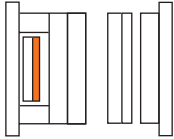
K42 ◇



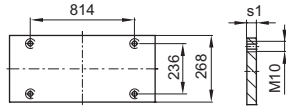
.../396x896 x s1/	1.1730	1.2085	1.2312
76	◆	◆	
86	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆	

.../396x896 x s1/	1.1730	1.2085	1.2312
116	■ ◆ ◇	■ ◆	
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	

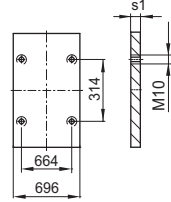
K60
K65
K62



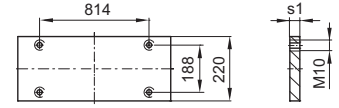
K60 ■



K65 ◆

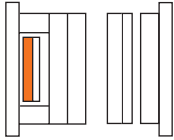


K62 ◇

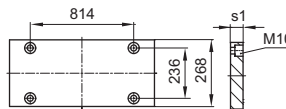


.../396x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

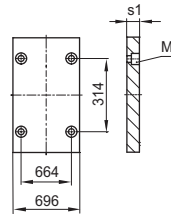
K70
K75
K72



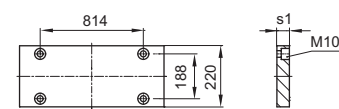
K70 ■



K75 ◆

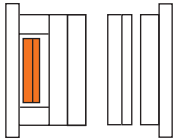


K72 ◇

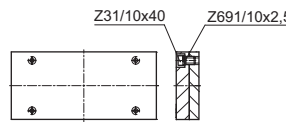


.../396x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

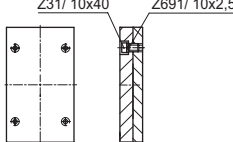
K60-70
K65-75
K62-72



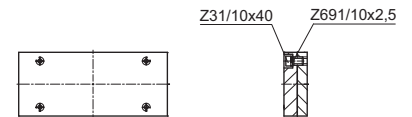
K60-70 ■



K65-75 ◆



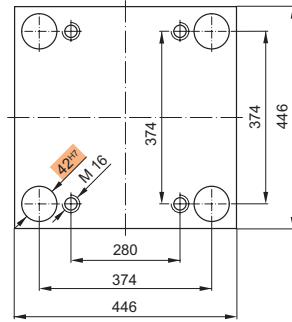
K62-72



.../396 x 896 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/396x896/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

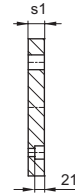
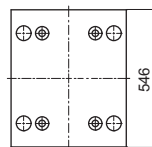
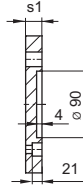
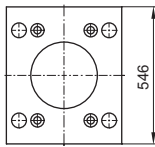
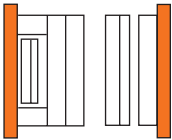
446x446



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 446x446x36 / 1.2162

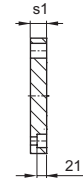
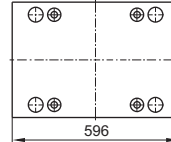
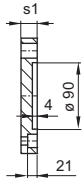
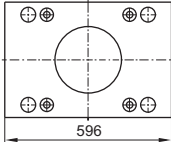
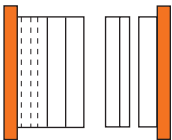
K10 K11



K10/446x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

K11/446x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

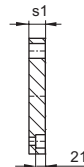
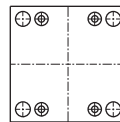
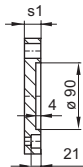
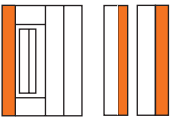
K12 K13



K12/446x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

K13/446x446x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■

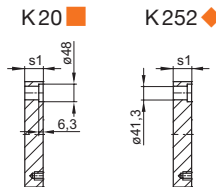
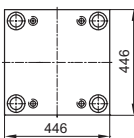
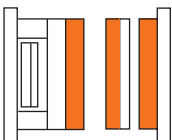
K15 K16



K15/446x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

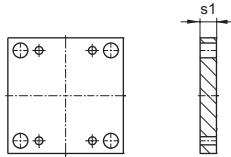
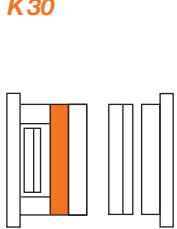
K16/446x446x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

K20 K252



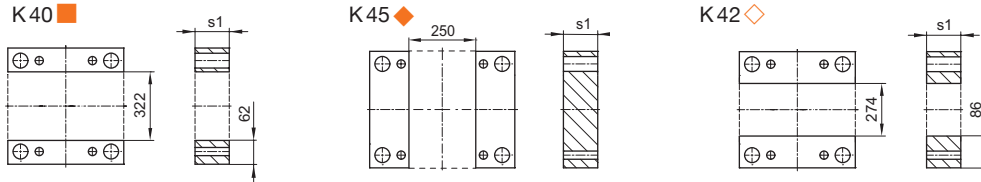
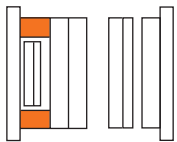
.../446x446 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				◆		◆			■
36	■				◆	◆	◆	◆		■
46	■				◆	◆	◆	◆		■
56	■				◆	◆	◆	◆	◆	■
66	■				◆	◆	◆	◆		■
76	■				◆	◆	◆	◆	◆	■
86	■				◆	◆	◆	◆		■
96	■				◆	◆	◆	◆	◆	■
116	■				◆	◆	◆	◆	◆	■
136	■				◆	◆	◆	◆		
156	■				◆	◆	◆			
176	■				◆	◆	◆			

K 30



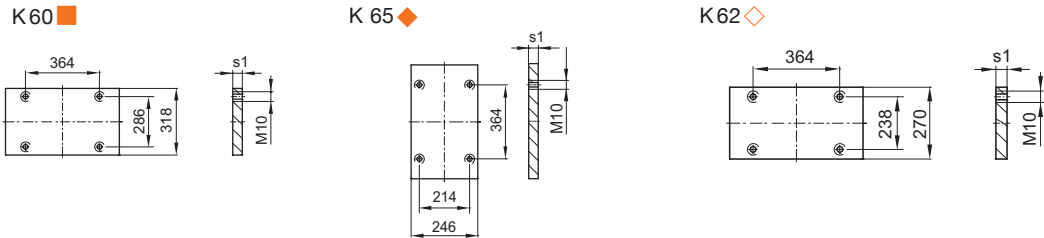
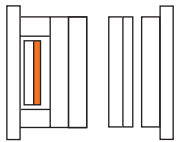
K 30 / 446x446 x s1/	1.1730	1.2085	1.2312	K 30 / 446x446 x s1/	1.1730	1.2085	1.2312
36	■	■	■	76	■		■
46	■	■	■	86	■		■
56	■	■	■	96	■		■
66	■	■	■	116	■		■

**K 40
K 45
K 42**



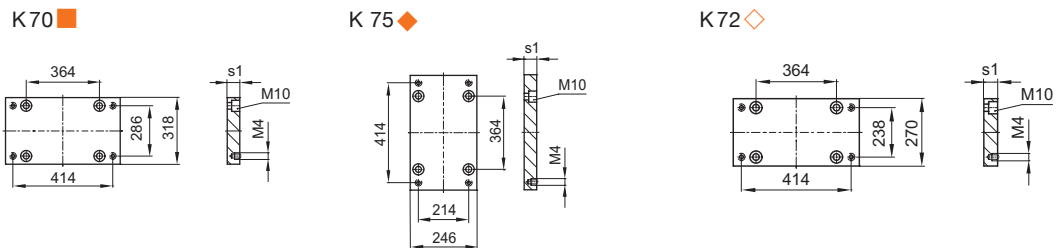
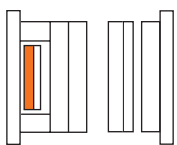
.../446x446 x s1/	1.1730	1.2085	1.2312	.../446x446 x s1/	1.1730	1.2085	1.2312
56	■ ◆ ◇	■ ◆		96	■ ◆ ◇	■ ◆	
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆	■ ◆	

**K 60
K 65
K 62**



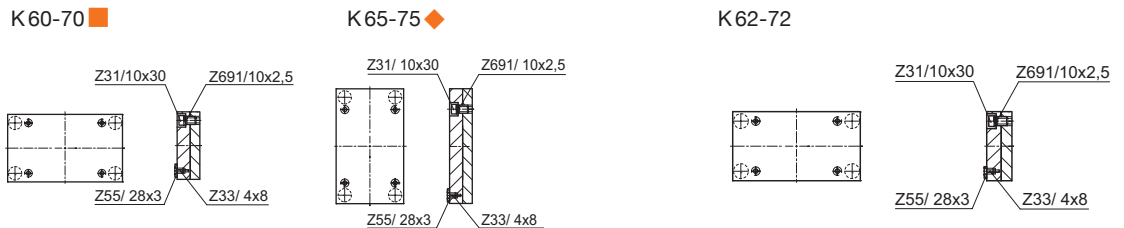
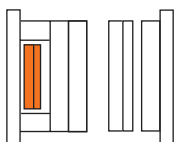
.../446x446 x s1/	1.1730	1.2085	1.2312
17	■ ◆ ◇	■ ◆	

**K 70
K 75
K 72**



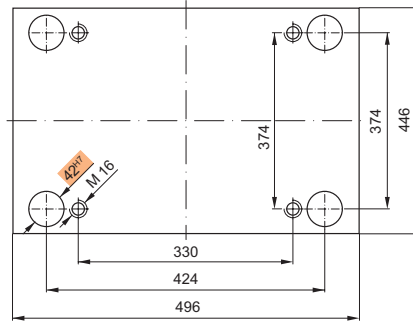
.../446x446 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

**K 60-70
K 65-75
K 62-72**



.../446x446 /	1.1730	1.2085	K 62-72/446x446/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K 62	K 72
			3	K 62 K 72	

446x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/446x496x36/1.2085

K10
K11

K10/446x496x s1 /	1.1730	1.2162	1.2085	1.2312	K11/446x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

K12
K13

K12/446x496x s1 /	1.1730	1.2162	1.2085	1.2312	K13/446x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

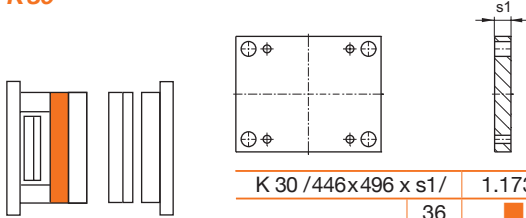
K15
K16

K15/446x496x s1 /	1.1730	1.2162	1.2085	1.2312	K16/446x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■		27	■		■	
36	■		■	■	36	■		■	■

K20 ■ **K252** ◆

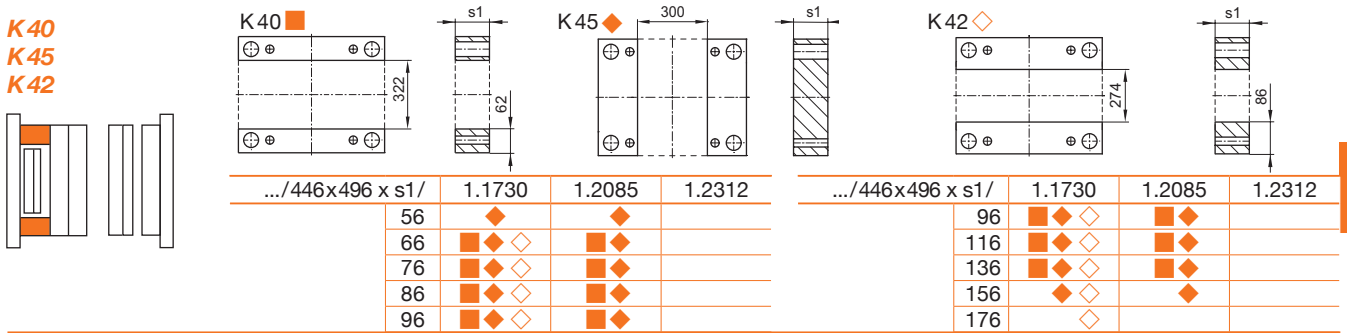
.../446x496 xs1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				◆		◆			■
36	■				◆	◆	◆			■
46	■				◆	◆	◆	◆		■
56	■				◆	◆	◆		◆	■
66	■				◆	◆	◆	◆		■
76	■				◆	◆	◆	◆	◆	■
86	■				◆	◆	◆	◆		■
96	■				◆	◆	◆	◆	◆	■
116	■				◆	◆	◆	◆	◆	■
136	■				◆	◆	◆	◆	◆	
156	■				◆	◆	◆			
176	■				◆	◆	◆			

K 30



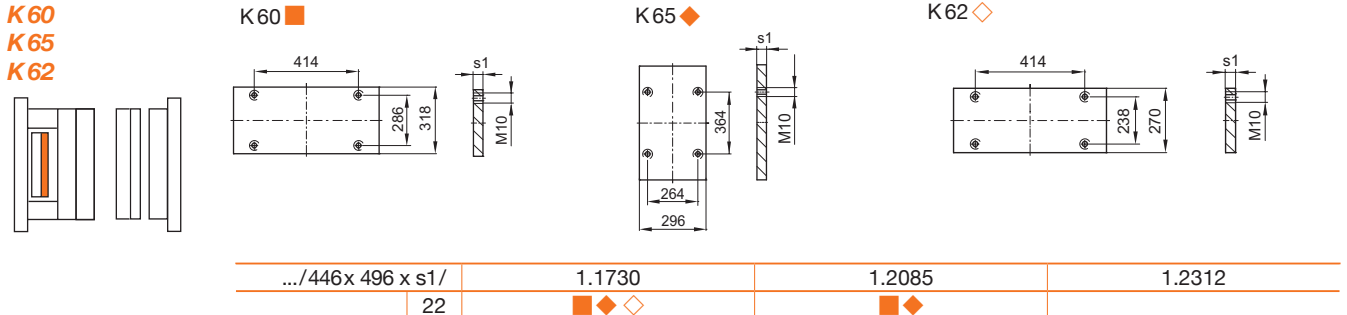
K 30 / 446x496 x s1/	1.1730	1.2085	1.2312	K 30 / 446x496 x s1/	1.1730	1.2085	1.2312
36	■	■	■	76	■		■
46	■	■	■	86	■		■
56	■	■	■	96	■		■
66	■	■	■	116	■		■

**K 40
K 45
K 42**



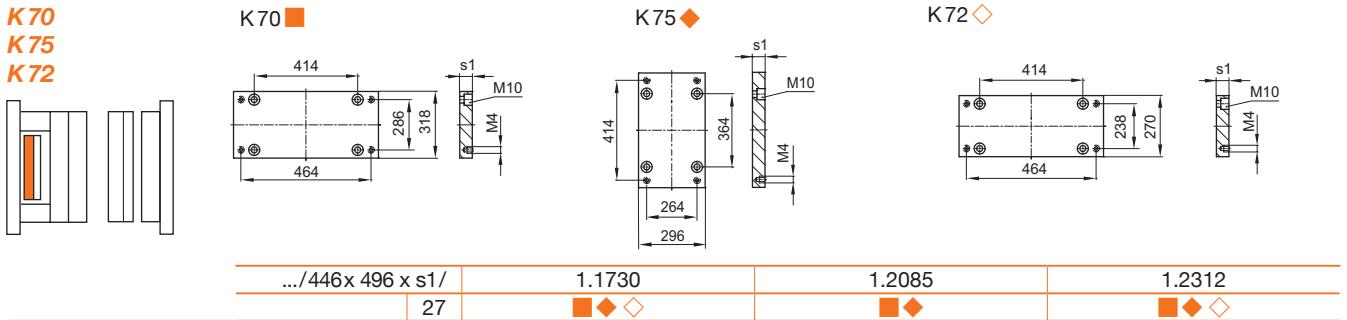
.../446x496 x s1/	1.1730	1.2085	1.2312	.../446x496 x s1/	1.1730	1.2085	1.2312
56	◆	◆		96	■◆◇	■◆	
66	■◆◇	■◆		116	■◆◇	■◆	
76	■◆◇	■◆		136	■◆◇	■◆	
86	■◆◇	■◆		156	◆◇	◆	
96	■◆◇	■◆		176	◆◇		

**K 60
K 65
K 62**



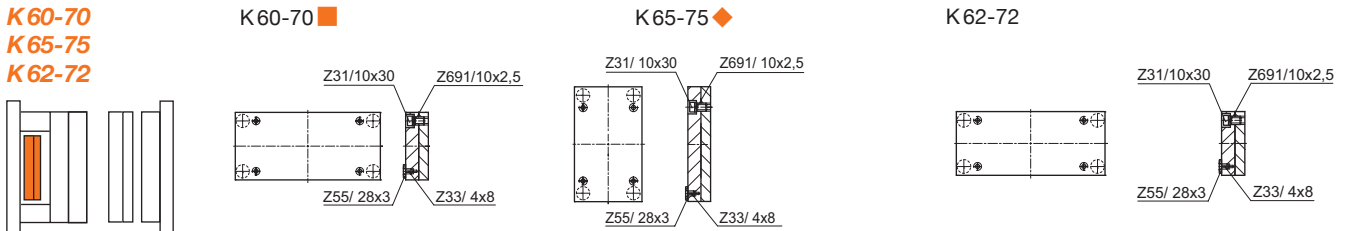
.../446x 496 x s1/	1.1730	1.2085	1.2312
22	■◆◇	■◆	

**K 70
K 75
K 72**



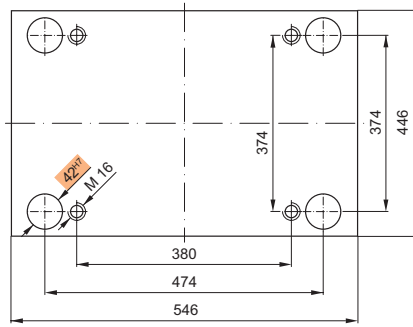
.../446x 496 x s1/	1.1730	1.2085	1.2312
27	■◆◇	■◆	■◆◇

**K 60-70
K 65-75
K 62-72**



.../446x496 /	1.1730	1.2085	K 62-72/446x496/Typ	1.1730	1.2312
	■◆	■◆	1	K 62	K 72
			3	K 62 K 72	

446x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 446x546x36 / 1.2085

K10
K11

K10/446x546x s1 /	1.1730	1.2162	1.2085	1.2312	K11/446x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

K15
K16

K15/446x546x s1 /	1.1730	1.2162	1.2085	1.2312	K16/446x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■		27	■		■	
36	■		■	■	36	■		■	■

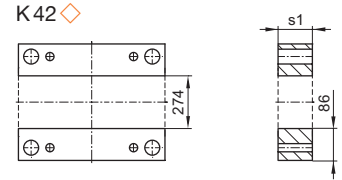
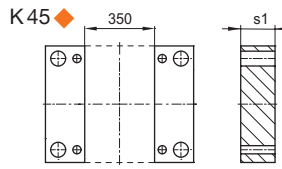
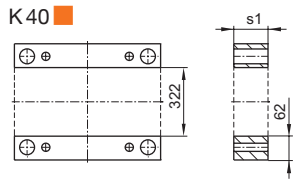
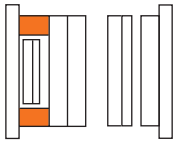
K20 ■ **K252** ◆

.../446x546 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				◆		◆			■
36	■				◆	◆	◆			■
46	■				◆	◆	◆	◆		■
56	■				◆	◆	◆	◆	◆	■
66	■				◆	◆	◆	◆		■
76	■				◆	◆	◆	◆	◆	■
86	■				◆	◆	◆	◆		■
96	■				◆	◆	◆	◆	◆	■
116	■				◆	◆	◆	◆	◆	■
136	■				◆	◆	◆	◆		
156	■				◆	◆	◆	◆		
176	■				◆	◆	◆	◆		

K30

K30/446x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■			■
46	■		■	■
56	■		■	
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

K40
K45
K42

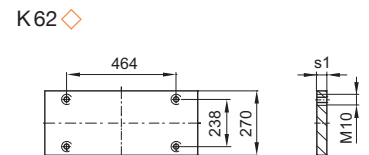
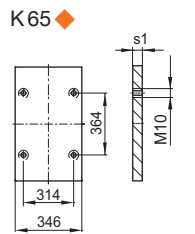
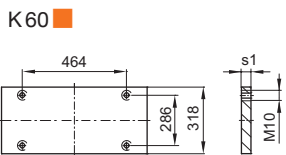
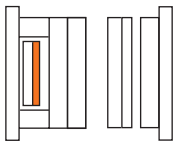


.../446x546 x s1/	1.1730	1.2085	1.2312
56	◆	◆	
66	■ ◆ ◇	◆	
76	■ ◆ ◇	◆	
86	■ ◆ ◇	◆	
96	■ ◆ ◇	◆	

.../446x546 x s1/	1.1730	1.2085	1.2312
116	■ ◆ ◇	■ ◆	
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆	■	

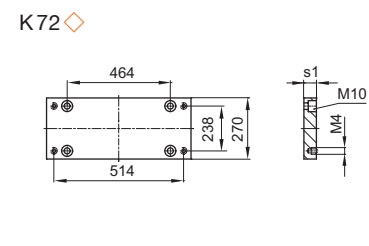
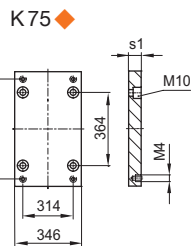
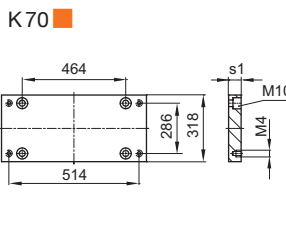
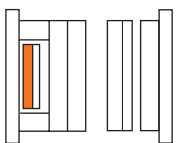


K60
K65
K62



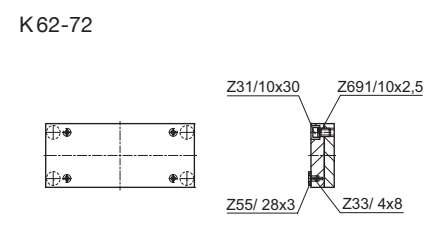
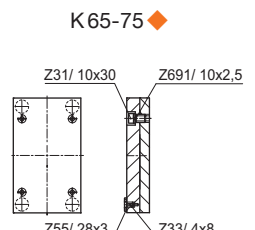
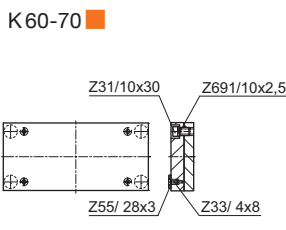
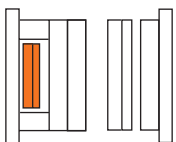
.../446x546 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

K70
K75
K72



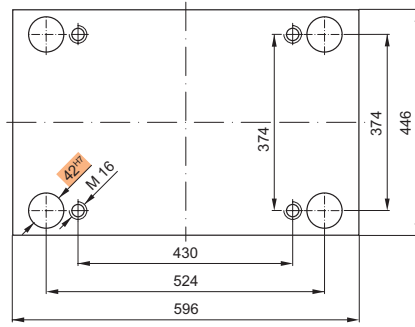
.../446x546 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

K60-70
K65-75
K62-72



.../446x546 /	1.1730	1.2085	K62-72/446x546/Typ	
	■ ◆	■ ◆	1	K62 K72
			3	K62 K72

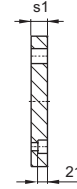
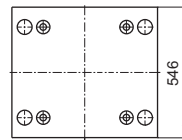
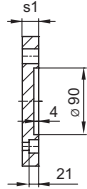
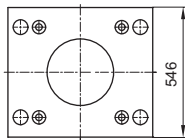
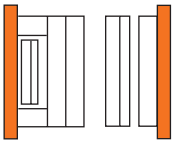
446x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 446x596x36 / 1.2085

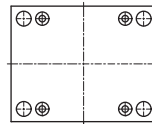
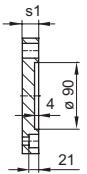
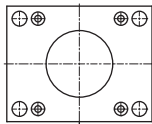
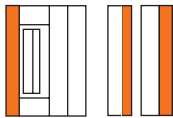
K10 K11



K10/446x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K11/446x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

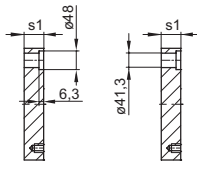
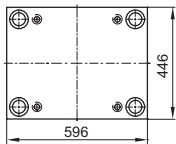
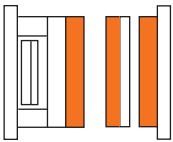
K15 K16



K15/446x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

K16/446x596x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	■

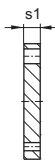
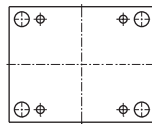
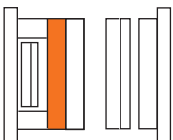
K20 K252



K20 ■ K252 ◆

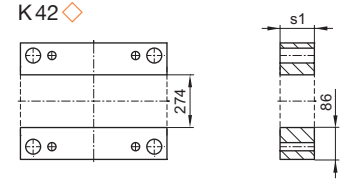
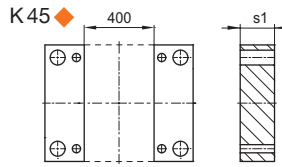
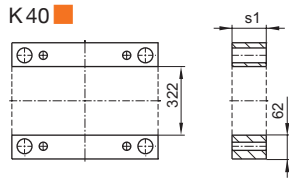
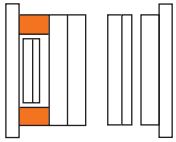
.../446x596 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■◆		■◆			■
36	■				■◆	■◆	■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆	◆	◆	■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆	◆	◆	■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆	◆	◆	■
116	■				■◆	■◆	■◆	◆	◆	■
136	■				■◆	■◆	■◆			■
156	■				■◆	■◆	■◆			■
176	■				■◆	■◆	■◆			■

K30



K30/446x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	■
46	■		■	■
56	■		■	■
66	■		■	■
76	■		■	■
86	■		■	■
96	■		■	■
116	■		■	■

K40
K45
K42

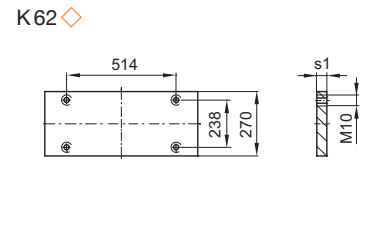
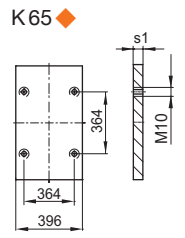
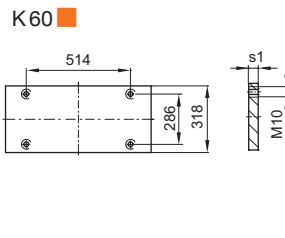
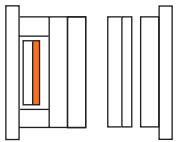


.../446x596 x s1/	1.1730	1.2085	1.2312
56	■ ◆	■ ◆	
66	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆	

.../446x596 x s1/	1.1730	1.2085	1.2312
116	■ ◆ ◇	■ ◆	
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆	■	

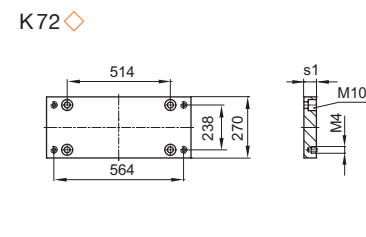
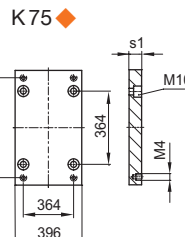
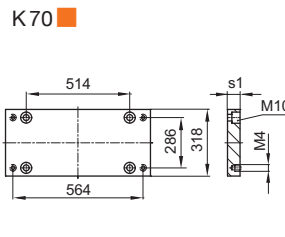
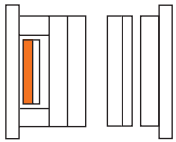


K60
K65
K62



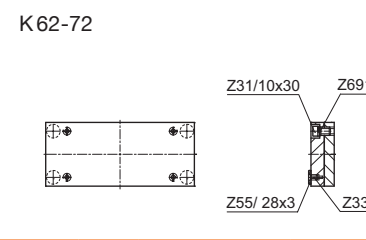
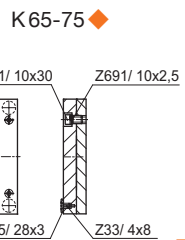
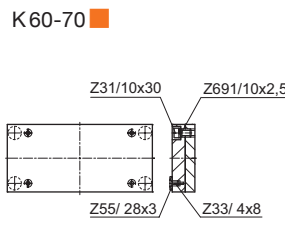
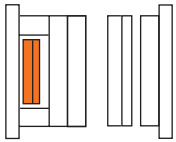
.../446x596 x s1/	1.1730	1.2085	1.2312
22	■ ◆ ◇	■ ◆	

K70
K75
K72



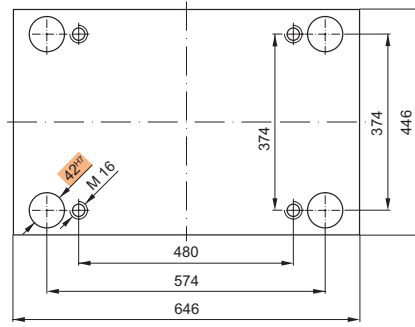
.../446x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	■ ◆ ◇

K60-70
K65-75
K62-72



.../446 x 596 /	1.1730	1.2085	K62-72/446x596/Typ	
	■ ◆	■ ◆	1	K62
			3	K62 K72

446x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 446x646x36 / 1.2085

K10
K11

K10/446x646x s1 /	1.1730	1.2162	1.2085	1.2312	K11/446x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■		46	■		■	
56	■		■	■	56	■		■	■

K15
K16

K15/446x646x s1 /	1.1730	1.2162	1.2085	1.2312	K16/446x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

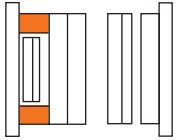
K20 ■ **K252** ◆

.../446x646 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■ ◆	■	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			

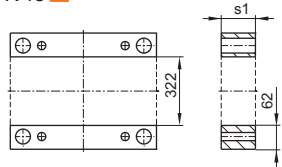
K30

K30/446x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

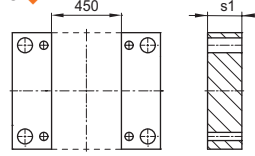
K40
K45
K42



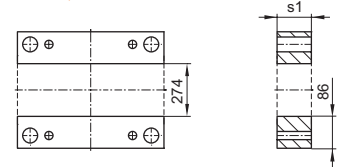
K40 ■



K45 ◆

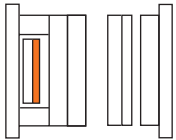


K42 ◇

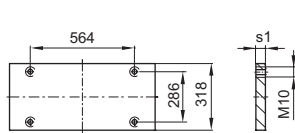


.../446x646 x s1/	1.1730	1.2085	1.2312	.../446x646 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆	■	
116	■ ◆ ◇	■ ◆					

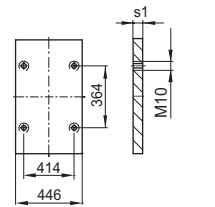
K60
K65
K62



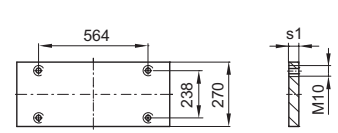
K60 ■



K65 ◆

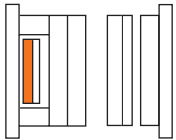


K62 ◇

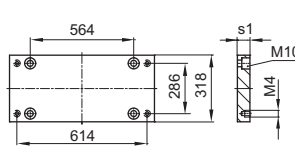


.../446x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

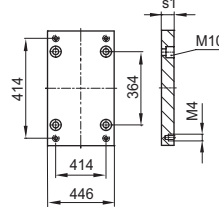
K70
K75
K72



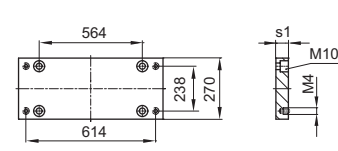
K70 ■



K75 ◆

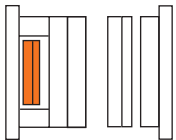


K72 ◇

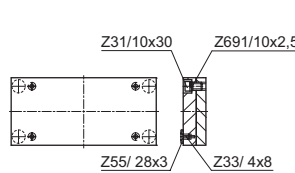


.../446x646 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

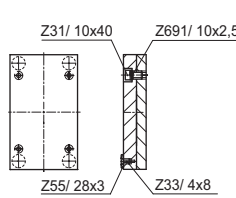
K60-70
K65-75
K62-72



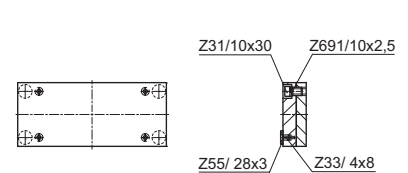
K60-70 ■



K65-75 ◆

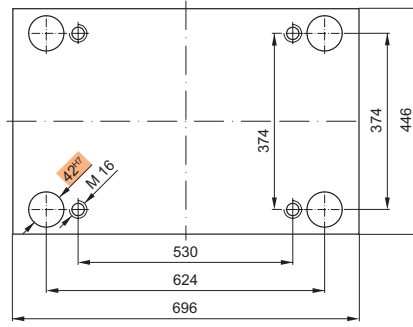


K62-72



.../446x646 /	1.1730	1.2085	K62-72/446x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

446x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/446x696x36/1.2085

K10
K11

K10/446x696x s1 /	1.1730	1.2162	1.2085	1.2312	K11/446x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■		46	■		■	
56	■		■	■	56	■		■	■

K15
K16

K15/446x696x s1 /	1.1730	1.2162	1.2085	1.2312	K16/446x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

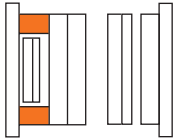
K20 ■ **K252** ◆

.../446x696 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■ ◆		■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			

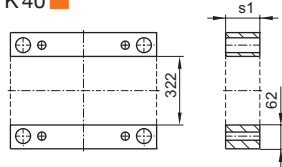
K30

K30/446x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

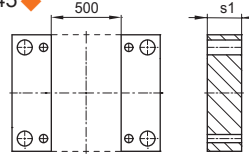
K40
K45
K42



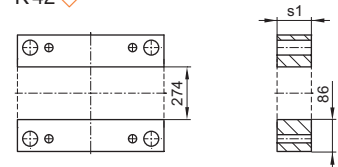
K40 ■



K45 ◆

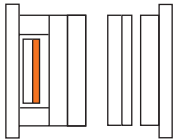


K42 ◇

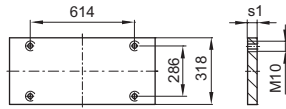


.../446x696 x s1/	1.1730	1.2085	1.2312	.../446x696 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆	■	
116	■ ◆ ◇	■ ◆					

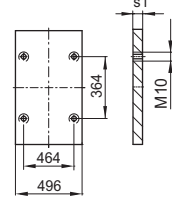
K60
K65
K62



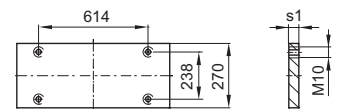
K60 ■



K65 ◆

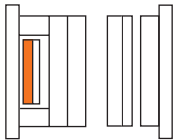


K62 ◇

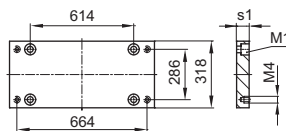


.../446x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

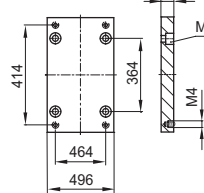
K70
K75
K72



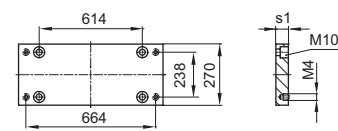
K70 ■



K75 ◆

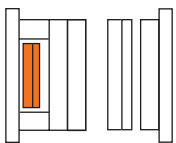


K72 ◇

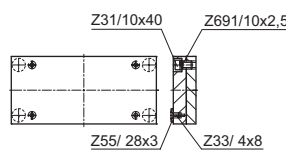


.../446x696 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

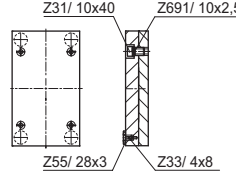
K60-70
K65-75
K62-72



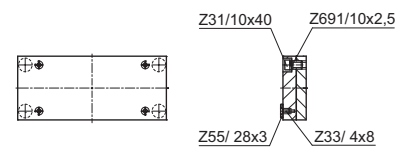
K60-70 ■



K65-75 ◆

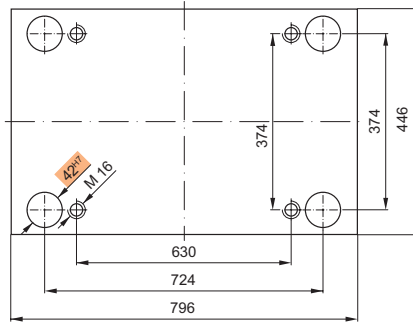


K62-72



.../446x696 /	1.1730	1.2085	K62-72/446x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

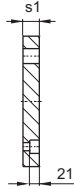
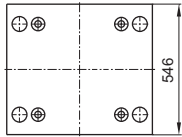
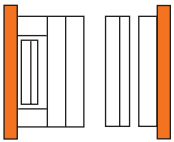
446x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

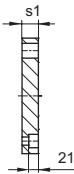
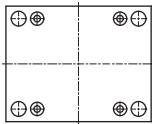
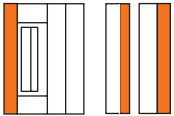
K20 / 446x796x36 / 1.2085

K11



K11/446x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

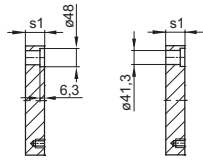
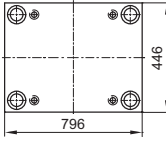
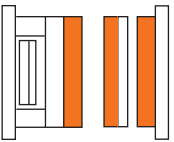
K16



K16/446x796x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

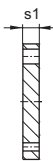
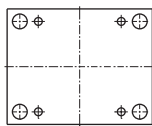
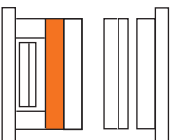
K20 K252

K20 ■ K252 ◆



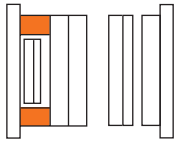
.../446x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■◆		■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			

K30

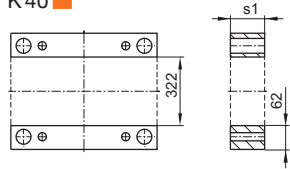


K30/446x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

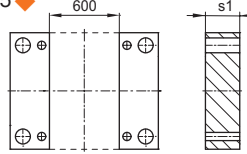
K40
K45
K42



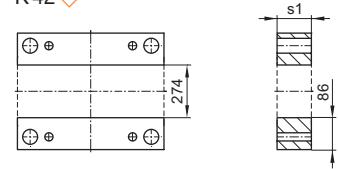
K40 ■



K45 ◆

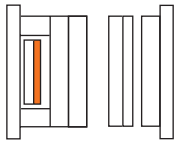


K42 ◇

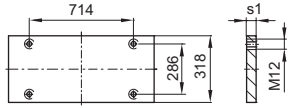


.../446x796 x s1/	1.1730	1.2085	1.2312	.../446x796 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆	■	
116	■ ◆ ◇	■ ◆					

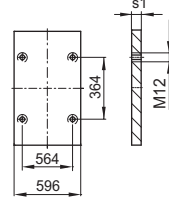
K60
K65
K62



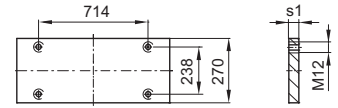
K60 ■



K65 ◆

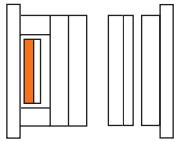


K62 ◇

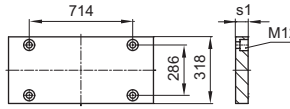


.../446x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

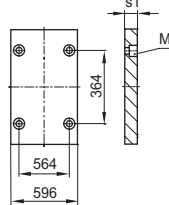
K70
K75
K72



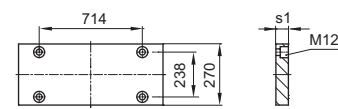
K70 ■



K75 ◆

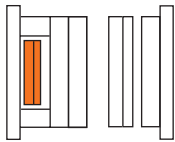


K72 ◇

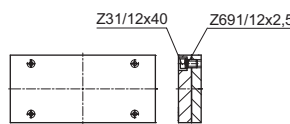


.../446x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

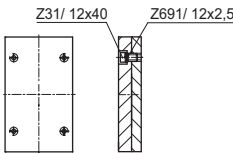
K60-70
K65-75
K62-72



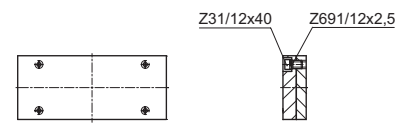
K60-70 ■



K65-75 ◆

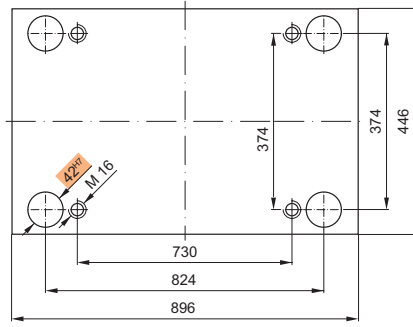


K62-72



.../446 x 796 /	1.1730	1.2085	K62-72/446x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

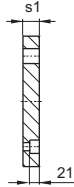
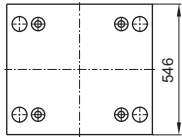
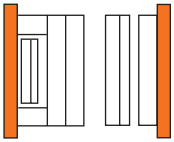
446x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

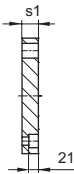
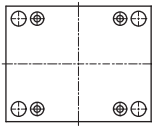
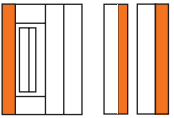
K 20 / 446x896x36 / 1.2085

K11



K11/446x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

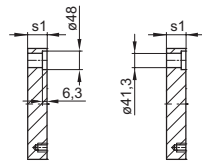
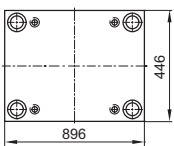
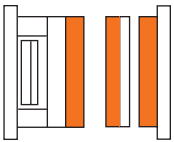
K16



K16/446x896x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

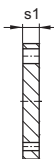
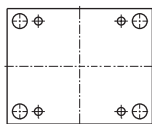
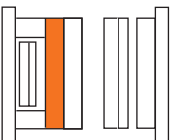
K20 K252

K20 ■ K252 ◆



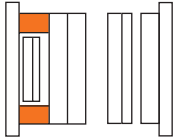
.../446x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■◆	■	■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■	■	■			
76	■				■◆	■◆	■◆			■
86	■				■	■	■			
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■					■	■			

K30

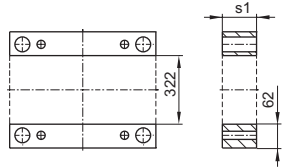


K30/446x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

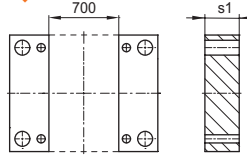
K40
K45
K42



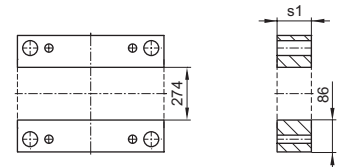
K40 ■



K45 ◆

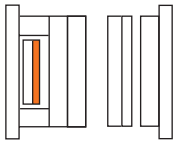


K42 ◇

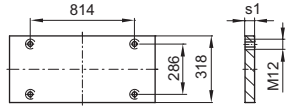


.../446x896 x s1/	1.1730	1.2085	1.2312	.../446x896 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆	■	
116	■ ◆ ◇	■ ◆					

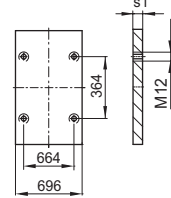
K60
K65
K62



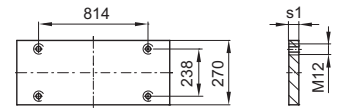
K60 ■



K65 ◆

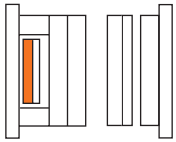


K62 ◇

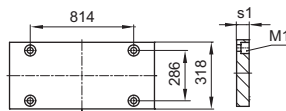


.../446x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

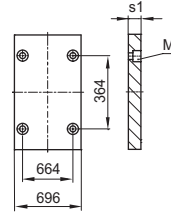
K70
K75
K72



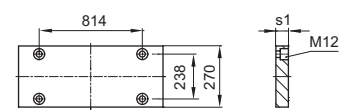
K70 ■



K75 ◆

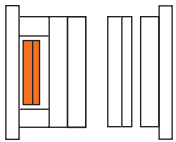


K72 ◇

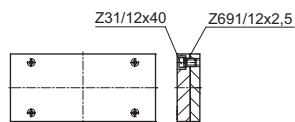


.../446x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

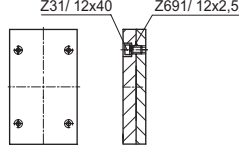
K60-70
K65-75
K62-72



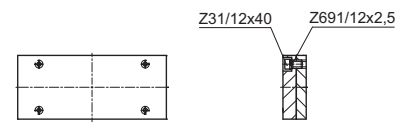
K60-70 ■



K65-75 ◆

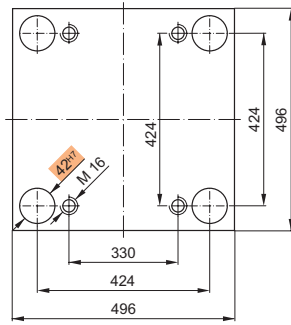


K62-72



.../446 x 896 /	1.1730	1.2085	K62-72/446x896/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

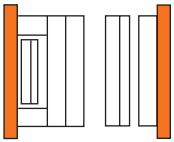
496x496



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20 / 496x496x36 / 1.2085

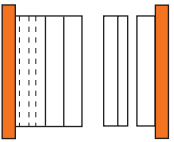
K10 K11



K10/496x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	
56	■		■	■

K11/496x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	
56	■		■	■

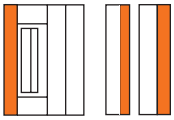
K12 K13



K12/496x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	
56	■		■	■

K13/496x496x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	
56	■		■	■

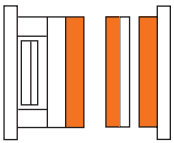
K15 K16



K15/496x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	■

K16/496x496x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	■

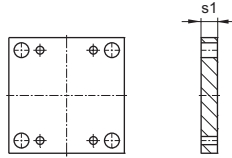
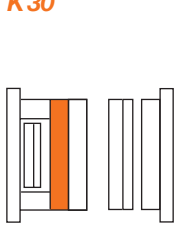
K20 K252



K20 ■ K252 ◆

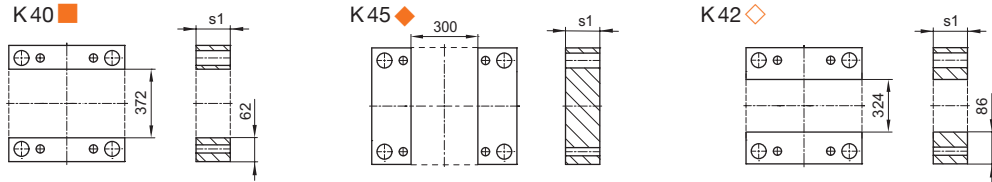
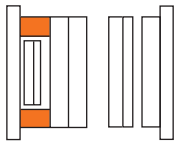
.../496x496 xs1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				◆		◆			■
36	■				◆		◆			■
46	■				◆	◆	◆	◆		■
56	■				◆	◆	◆	◆		■
66	■				◆	◆	◆	◆		■
76	■				◆	◆	◆	◆	◆	■
86	■				◆	◆	◆	◆	◆	■
96	■				◆	◆	◆	◆	◆	■
116	■				◆	◆	◆	◆	◆	■
136	■				◆	◆	◆	◆	◆	■
156	■				◆	◆	◆	◆	◆	■
176	■				◆	◆	◆	◆	◆	■

K 30



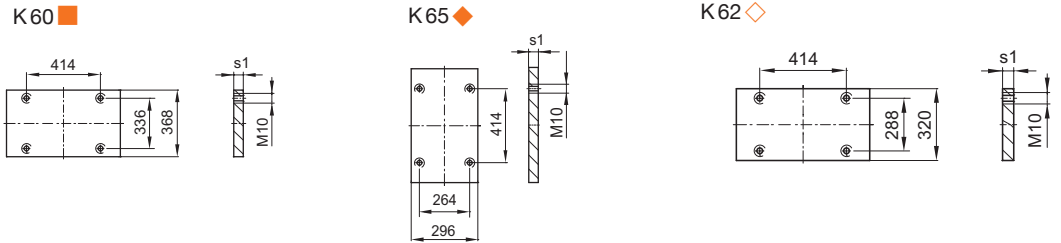
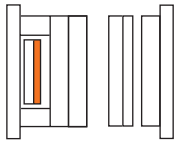
K 30/496x496 x s1/	1.1730	1.2085	1.2312	K 30/496x496 x s1/	1.1730	1.2085	1.2312
46	■	■	■	86	■		■
56	■	■	■	96	■		■
66	■		■	116	■		■
76	■		■				

**K 40
K 45
K 42**



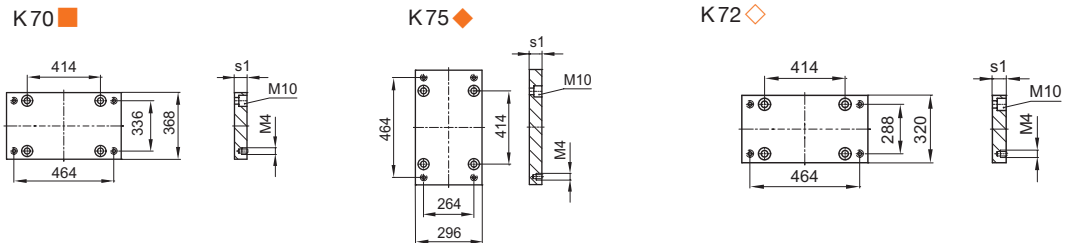
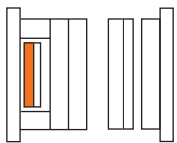
.../496x496 x s1/	1.1730	1.2085	1.2312	.../496x496 x s1/	1.1730	1.2085	1.2312
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇	■ ◆	

**K 60
K 65
K 62**



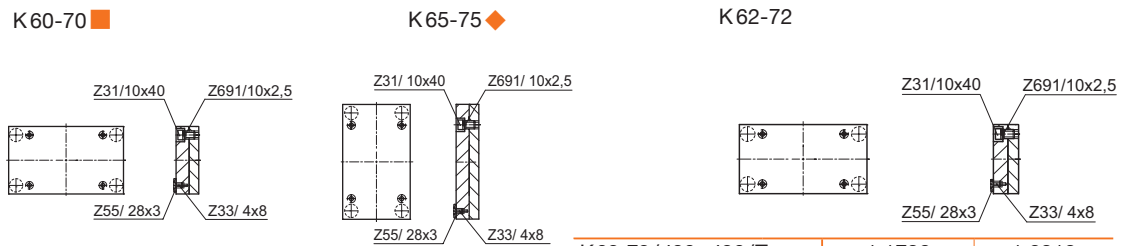
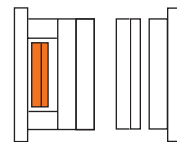
.../496x496 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

**K 70
K 75
K 72**



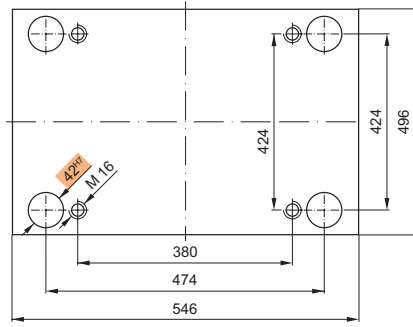
.../496x496 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

**K 60-70
K 65-75
K 62-72**



.../496x496 /	1.1730	1.2085	K 62-72/496x496/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K 62	K 72
			3	K 62 K 72	

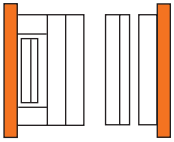
496x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/496x546x36/1.2085

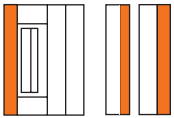
K10
K11



K10/496x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	
56	■		■	■

K11/496x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	
56	■		■	■

K15
K16

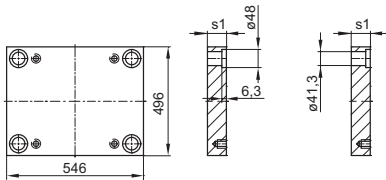
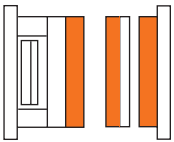


K15/496x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	■

K16/496x546x s1 /	1.1730	1.2162	1.2085	1.2312
27	■		■	
36	■		■	
46	■		■	■

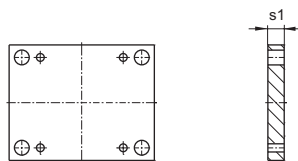
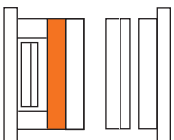
K20
K252

K20 ■ K252 ◆



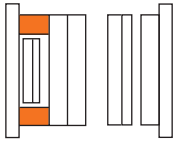
.../496x546 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■ ◆		■ ◆			■
36	■				■ ◆	■	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆	◆		■
66	■				■ ◆	■ ◆	■ ◆	◆		■
76	■				■ ◆	■ ◆	■ ◆	◆	◆	■
86	■				■ ◆	■ ◆	■ ◆	◆		■
96	■				■ ◆	■ ◆	■ ◆	◆	◆	■
116	■				■ ◆	■ ◆	■ ◆	◆	◆	■
136	■				■ ◆	■ ◆	■ ◆	◆	◆	
156	■				■ ◆	■ ◆	■ ◆	◆	◆	
176	■				■ ◆	■ ◆	■ ◆			

K30

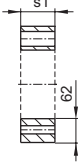
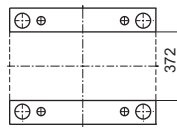


K30/496x546x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

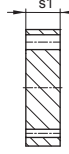
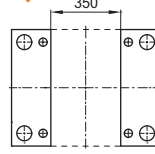
K40
K45
K42



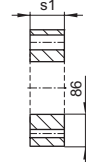
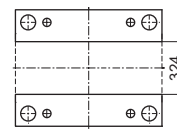
K40 ■



K45 ◆

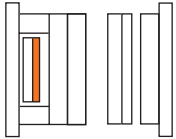


K42 ◇

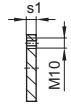
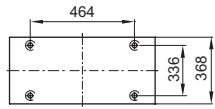


.../496x546 x s1/	1.1730	1.2085	1.2312	.../496x546 x s1/	1.1730	1.2085	1.2312
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇	■ ◆	

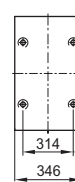
K60
K65
K62



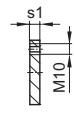
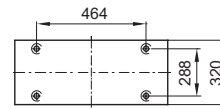
K60 ■



K65 ◆

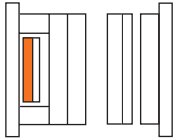


K62 ◇

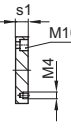
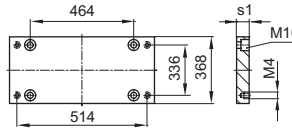


.../496x546 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

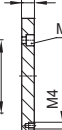
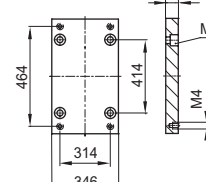
K70
K75
K72



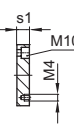
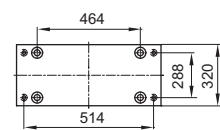
K70 ■



K75 ◆

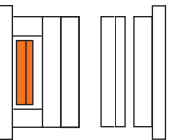


K72 ◇

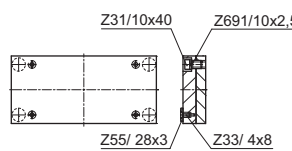


.../496x546 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

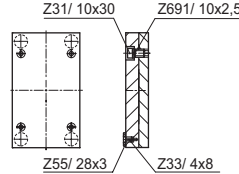
K60-70
K65-75
K62-72



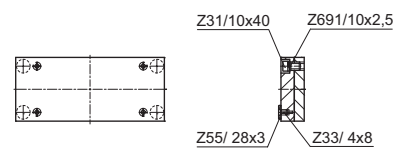
K60-70 ■



K65-75 ◆

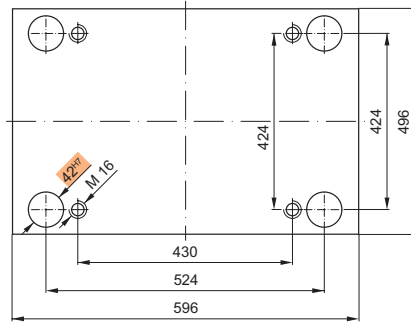


K62-72



.../ 496 x 546 /	1.1730	1.2085	K62-72/496x546/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

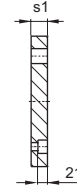
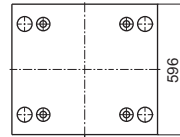
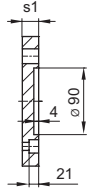
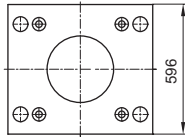
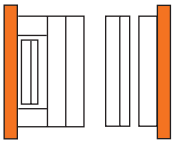
496x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/496x596x36/1.2085

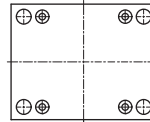
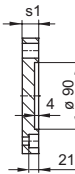
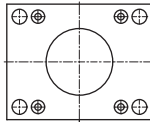
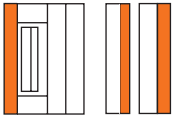
K10 K11



K10/496x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/496x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K15 K16

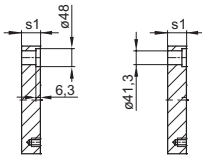
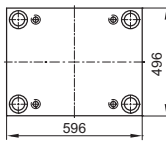
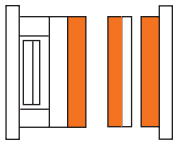


K15/496x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/496x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

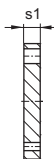
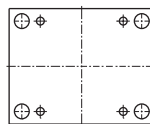
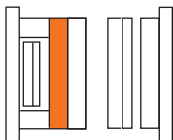
K20 K252

K20 ■ K252 ◆



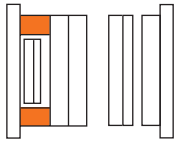
.../496x596 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■ ◆		■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆	◆		■
66	■				■ ◆	■ ◆	■ ◆	◆		■
76	■				■ ◆	■ ◆	■ ◆	◆	◆	■
86	■				■ ◆	■ ◆	■ ◆	◆		■
96	■				■ ◆	■ ◆	■ ◆	◆	◆	■
116	■				■ ◆	■ ◆	■ ◆	◆	◆	■
136	■				■ ◆	■ ◆	■ ◆	◆	◆	
156	■				■ ◆	■ ◆	■ ◆	◆	◆	
176	■				■ ◆	■ ◆	■ ◆			

K30

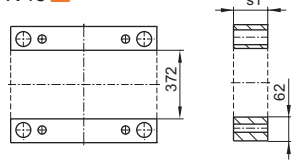


K30/496x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

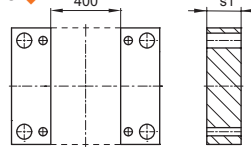
K40
K45
K42



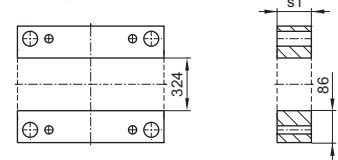
K40 ■



K45 ◆

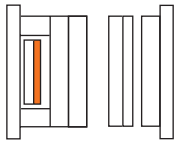


K42 ◇

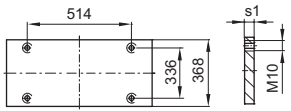


.../496x596 x s1/	1.1730	1.2085	1.2312	.../496x596 x s1/	1.1730	1.2085	1.2312
66	■ ◆ ◇	■ ◆		116	■ ◆ ◇	■ ◆	
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇	■ ◆	

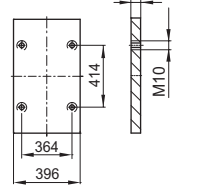
K60
K65
K62



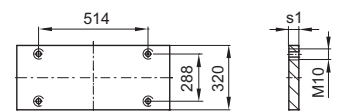
K60 ■



K65 ◆

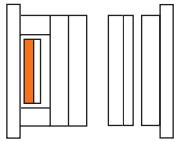


K62 ◇

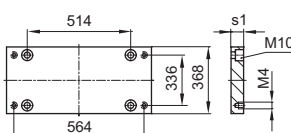


.../496x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

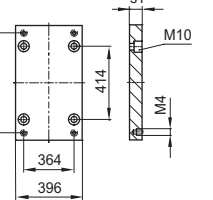
K70
K75
K72



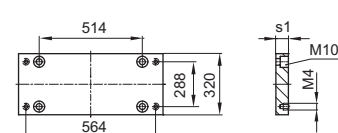
K70 ■



K75 ◆

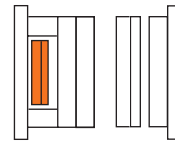


K72 ◇

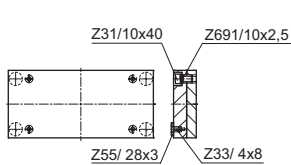


.../496x596 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

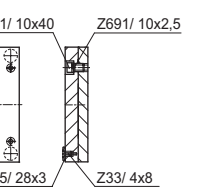
K60-70
K65-75
K62-72



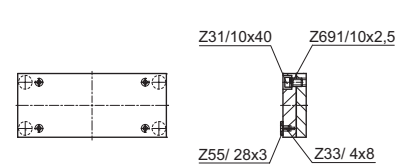
K60-70 ■



K65-75 ◆

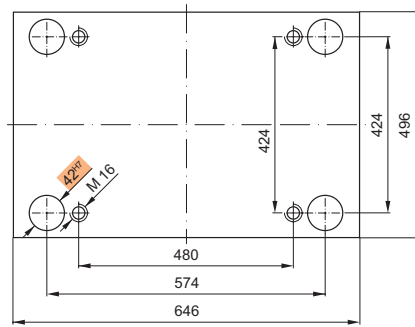


K62-72



.../496x596 /	1.1730	1.2085	K62-72/496x596/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

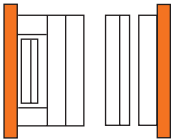
496x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

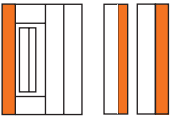
K20/496x646x36/1.2085

K10 K11



K10/496x646x s1 /	1.1730	1.2162	1.2085	1.2312	K11/496x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■		46	■		■	
56	■		■	■	56	■		■	■

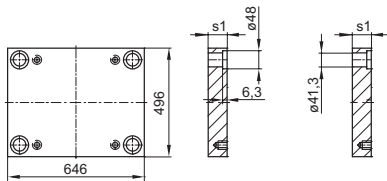
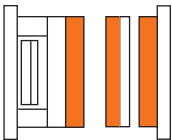
K15 K16



K15/496x646x s1 /	1.1730	1.2162	1.2085	1.2312	K16/496x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

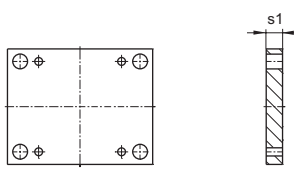
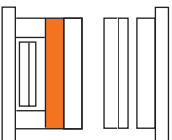
K20 K252

K20 ■ K252 ◆



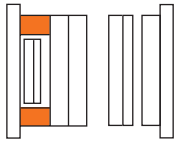
.../496x646 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			

K30

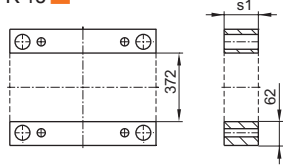


K30/496x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

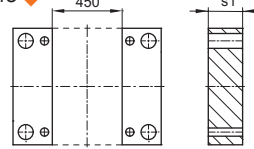
K40
K45
K42



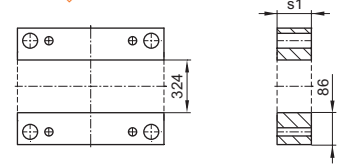
K40 ■



K45 ◆

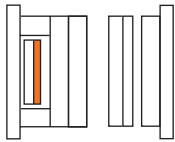


K42 ◇

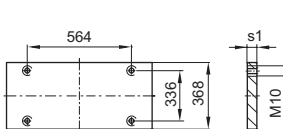


.../496x646 x s1/	1.1730	1.2085	1.2312	.../496x646 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆					

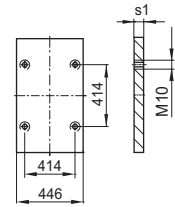
K60
K65
K62



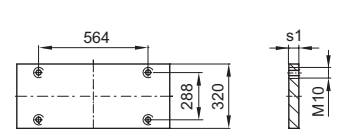
K60 ■



K65 ◆

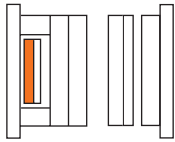


K62 ◇

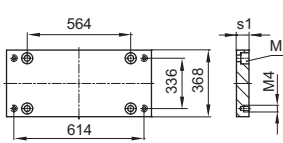


.../496x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

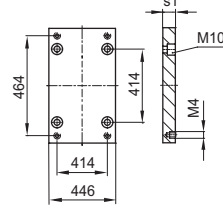
K70
K75
K72



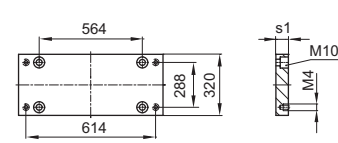
K70 ■



K75 ◆

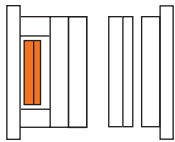


K72 ◇

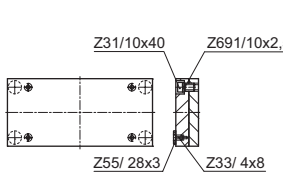


.../496x646 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

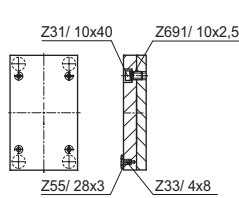
K60-70
K65-75
K62-72



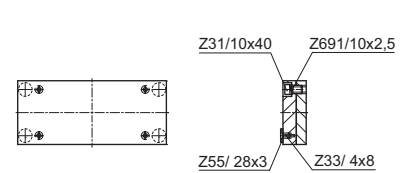
K60-70 ■



K65-75 ◆

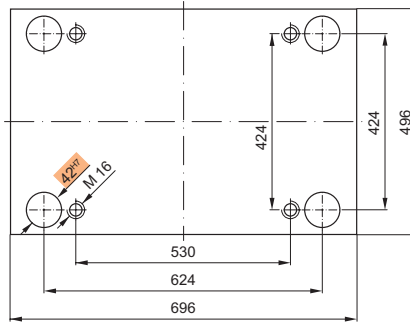


K62-72



.../496x646 /	1.1730	1.2085	K62-72/496x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

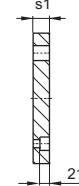
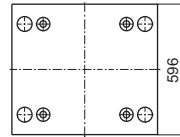
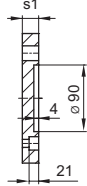
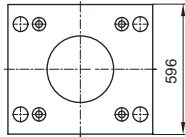
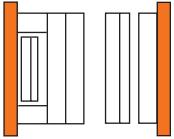
496x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/496x696x36/1.2085

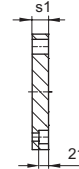
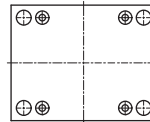
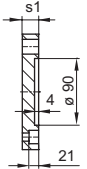
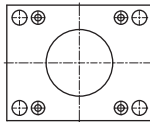
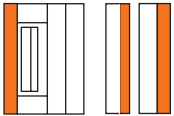
K10 K11



K10/496x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/496x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K15 K16

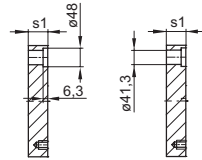
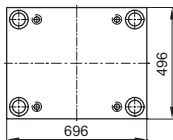
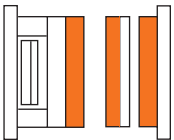


K15/496x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/496x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

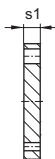
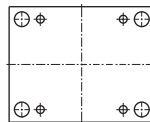
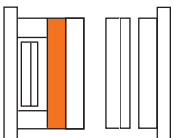
K20 K252

K20 ■ K252 ◆



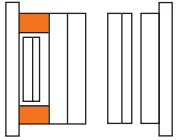
.../496x696 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■				■		■			
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			

K30

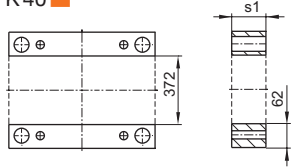


K30/496x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

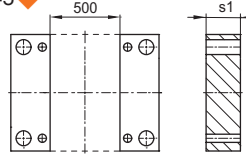
K40
K45
K42



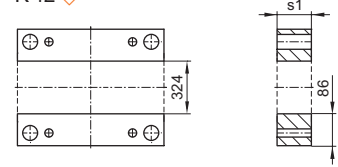
K40 ■



K45 ◆

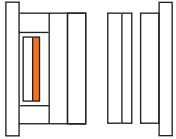


K42 ◇

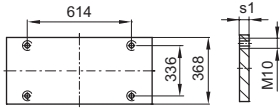


.../496x696 x s1/	1.1730	1.2085	1.2312	.../496x696 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■	
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇	■	
116	■ ◆ ◇	■ ◆					

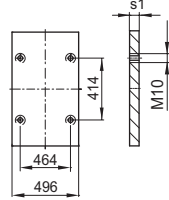
K60
K65
K62



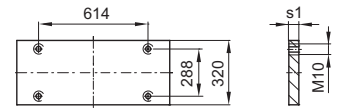
K60 ■



K65 ◆

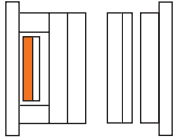


K62 ◇

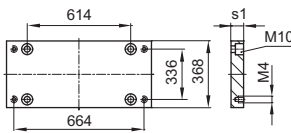


.../496x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

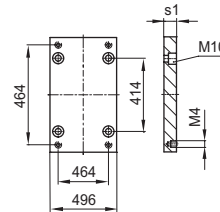
K70
K75
K72



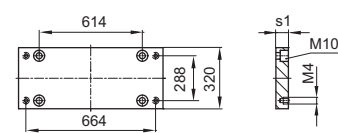
K70 ■



K75 ◆

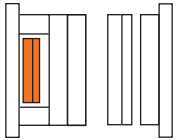


K72 ◇

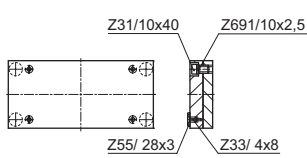


.../496x696 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

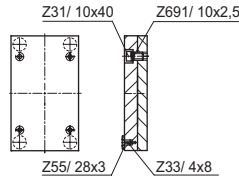
K60-70
K65-75
K62-72



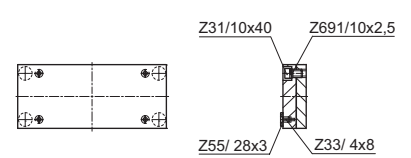
K60-70 ■



K65-75 ◆

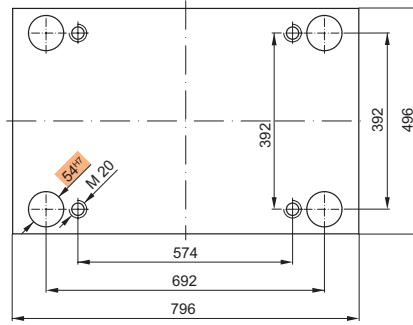


K62-72



.../496x696 /	1.1730	1.2085	K62-72/496x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

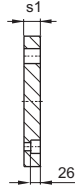
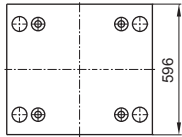
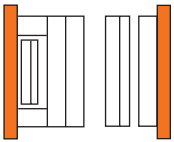
496x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

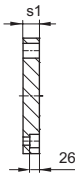
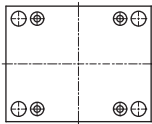
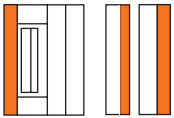
K 20 / 496x796x56 / 1.2085

K11



K11/496x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

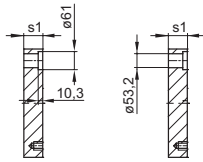
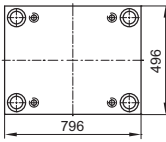
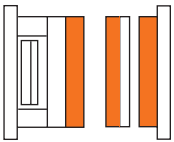
K16



K16/496x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■

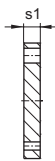
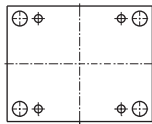
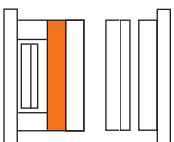
K20 K252

K20 ■ K252 ◆



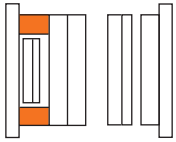
.../496x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■				■◆	■◆	■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

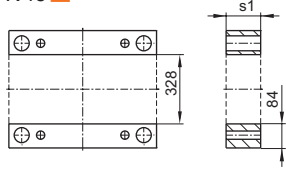


K30/496x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			■

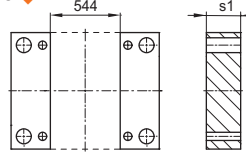
K40
K45
K42



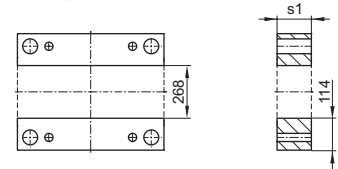
K40 ■



K45 ◆

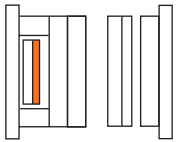


K42 ◇

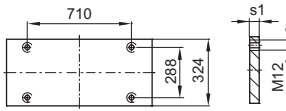


... /496x796 x s1/	1.1730	1.2085	1.2312	... /496x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇	■		136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

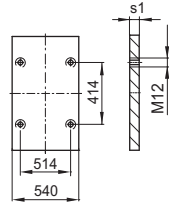
K60
K65
K62



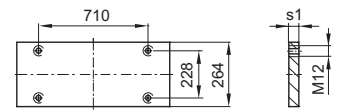
K60 ■



K65 ◆

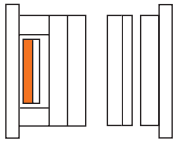


K62 ◇

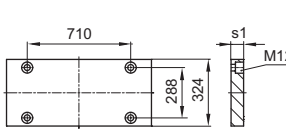


... /496x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

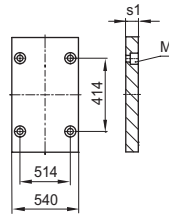
K70
K75
K72



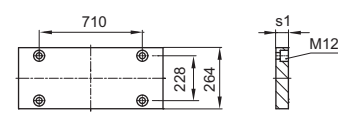
K70 ■



K75 ◆

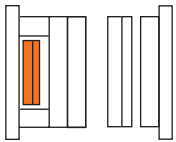


K72 ◇

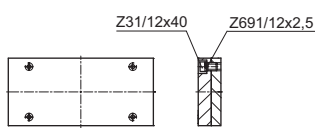


... /496x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

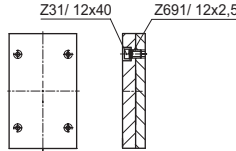
K60-70
K65-75
K62-72



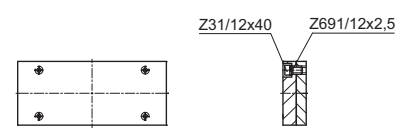
K60-70 ■



K65-75 ◆

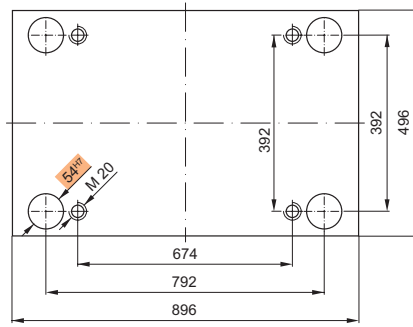


K62-72



... / 496 x 796 /	1.1730	1.2085	K62-72/496x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

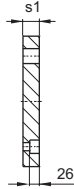
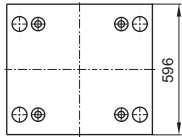
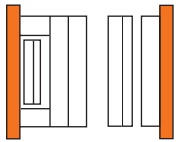
496x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

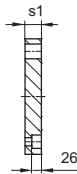
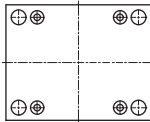
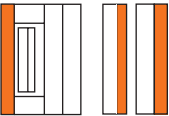
K20 / 496x896x56 / 1.2085

K11



K11/496x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

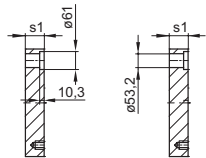
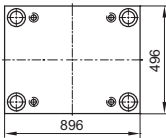
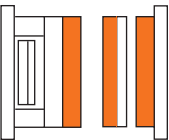
K16



K16/496x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■

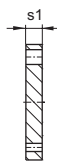
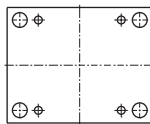
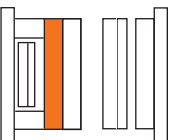
K20 K252

K20 ■ K252 ◆



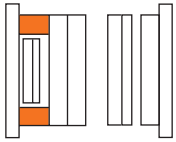
.../496x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■				■		■			
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

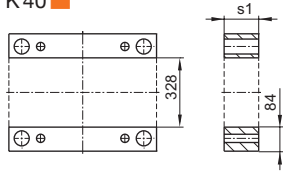


K30/496x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			

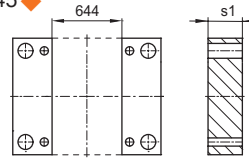
K40
K45
K42



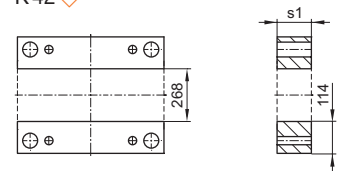
K40 ■



K45 ◆

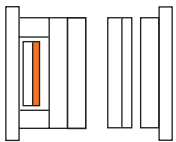


K42 ◇

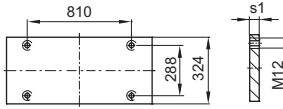


... /496x896 x s1/	1.1730	1.2085	1.2312	... /496x896 x s1/	1.1730	1.2085	1.2312
86	◆			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

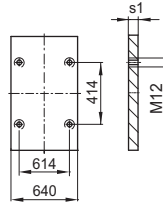
K60
K65
K62



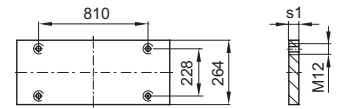
K60 ■



K65 ◆

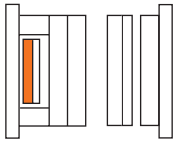


K62 ◇

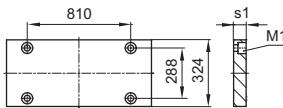


... /496x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

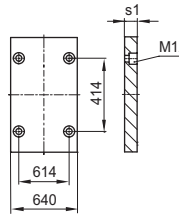
K70
K75
K72



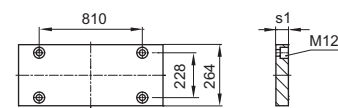
K70 ■



K75 ◆

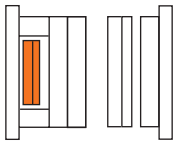


K72 ◇

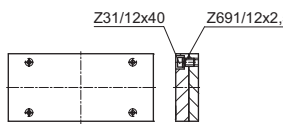


... /496x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

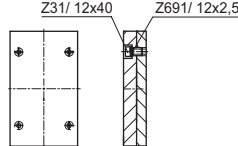
K60-70
K65-75
K62-72



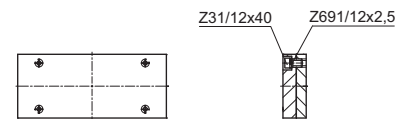
K60-70 ■



K65-75 ◆

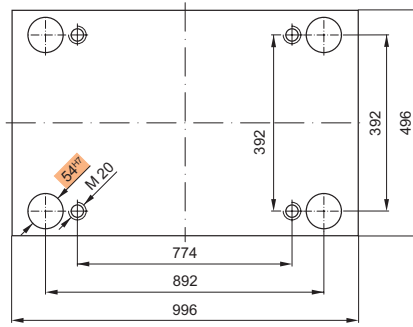


K62-72



... / 496 x 896 /	1.1730	1.2085	K62-72/496x896/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

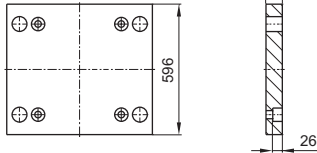
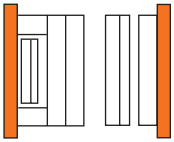
496x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

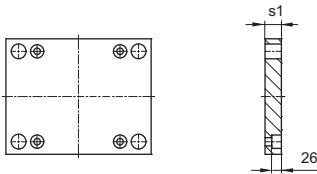
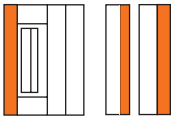
K20/496x996x56/1.2085

K11



K11/496x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

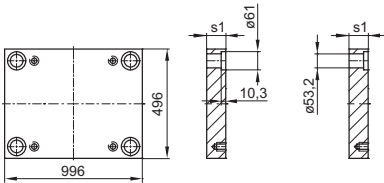
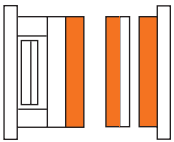
K16



K16/496x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■

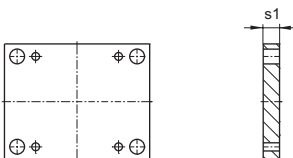
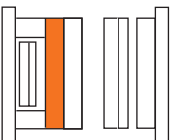
K20 K252

K20 ■ K252 ◆



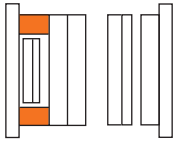
.../496x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■				■		■			
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			
196	■				■ ◆	■ ◆	■ ◆			

K30

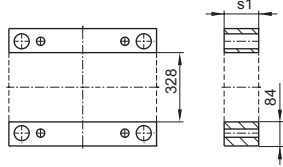


K30/496x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			

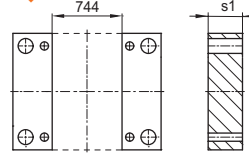
K40
K45
K42



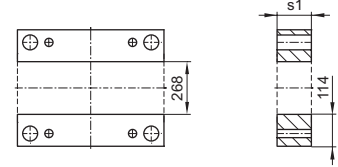
K40 ■



K45 ◆

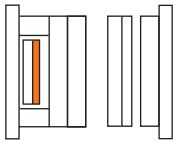


K42 ◇

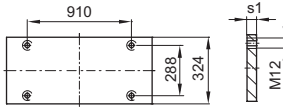


... /496x996 x s1/	1.1730	1.2085	1.2312	... /496x996 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

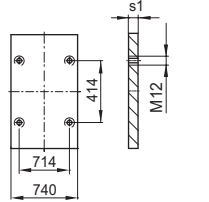
K60
K65
K62



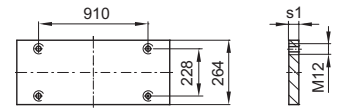
K60 ■



K65 ◆

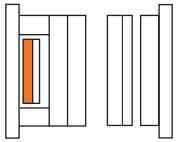


K62 ◇

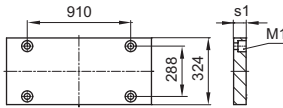


... /496x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

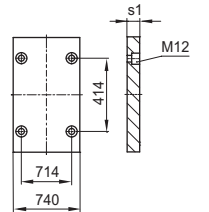
K70
K75
K72



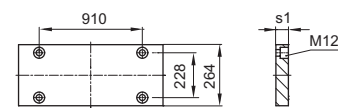
K70 ■



K75 ◆

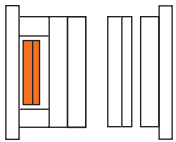


K72 ◇

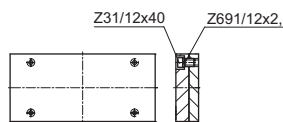


... /496x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

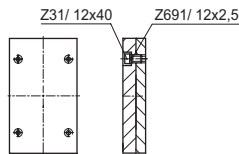
K60-70
K65-75
K62-72



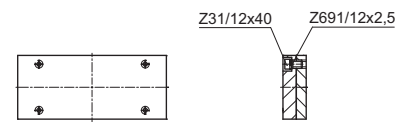
K60-70 ■



K65-75 ◆

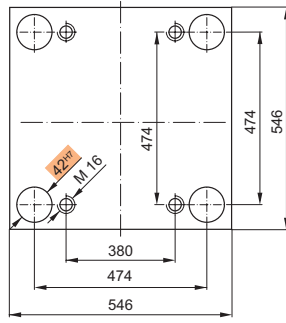


K62-72



... / 496 x 996 /	1.1730	1.2085	K62-72/496x996/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

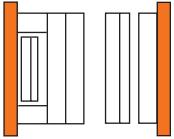
546x546



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/546x546x36/1.2085

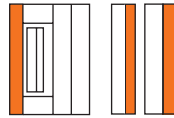
K10 K11



K10/546x546x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/546x546x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K15 K16

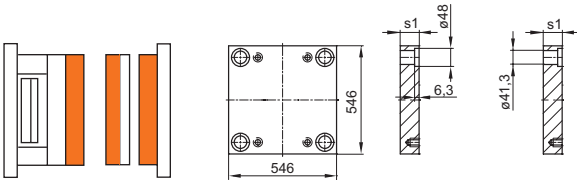


K15/546x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/546x546x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

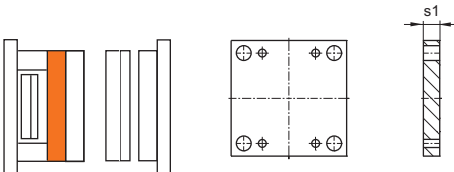
K20 K252

K20 ■ K252 ◆



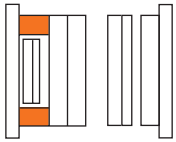
.../546x546 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■						■			
36	■				■ ◆		■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆	◆	◆	■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆	◆	◆	■
116	■				■ ◆	■ ◆	■ ◆	◆	◆	■
136	■				■ ◆	■ ◆	■ ◆	◆	◆	
156	■				■ ◆	■ ◆	■ ◆	◆	◆	
176	■				■ ◆	■ ◆	■ ◆			
196	■				■ ◆	■ ◆	■ ◆			

K30

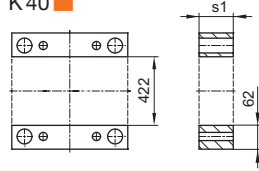


K30/546x546x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

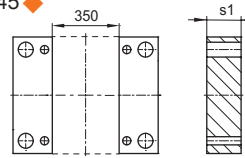
K40
K45
K42



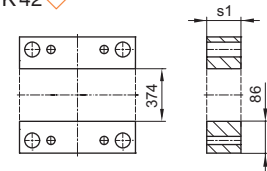
K40 ■



K45 ◆

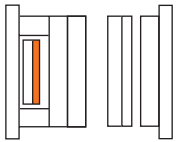


K42 ◇

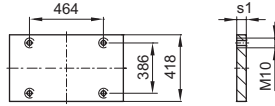


.../546x546 x s1/	1.1730	1.2085	1.2312	.../546x546 x s1/	1.1730	1.2085	1.2312
66	■◆◇	■◆		116	■◆◇	■◆	
76	■◆◇	■◆		136	■◆◇	■◆	
86	■◆◇	■◆		156	■◆◇	■◆	
96	■◆◇	■◆		176	■◆◇	■◆	

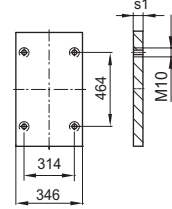
K60
K65
K62



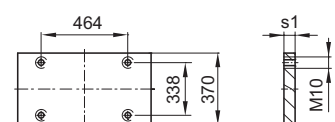
K60 ■



K65 ◆

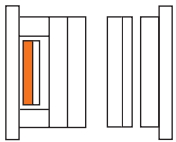


K62 ◇

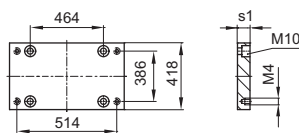


.../546x546 x s1/	1.1730	1.2085	1.2312
27	■◆◇	■◆	

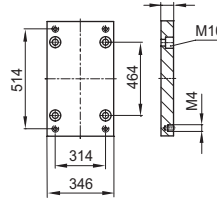
K70
K75
K72



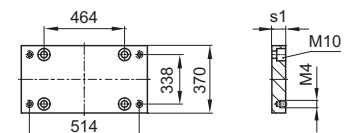
K70 ■



K75 ◆

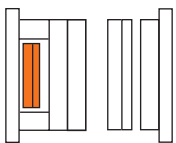


K72 ◇

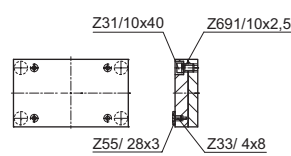


.../546x546 x s1/	1.1730	1.2085	1.2312
36	■◆◇	■◆	■◆◇

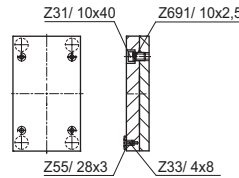
K60-70
K65-75
K62-72



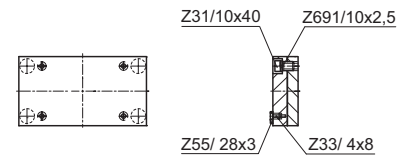
K60-70 ■



K65-75 ◆

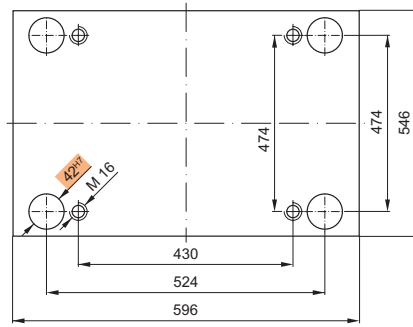


K62-72



.../546x546 /	1.1730	1.2085	K62-72/546x546/Typ	1.1730	1.2312
	■◆	■◆	1	K62	K72
			3	K62 K72	

546x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/546x596x36/1.2085

K10
K11

K10/546x596x s1 /	1.1730	1.2162	1.2085	1.2312	K11/546x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■		46	■		■	
56	■		■	■	56	■		■	■

K15
K16

K15/546x596x s1 /	1.1730	1.2162	1.2085	1.2312	K16/546x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

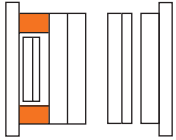
K20 ■ **K252** ◆

.../546x596 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■						■			
36	■				■ ◆		■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆	◆	◆	■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆	◆	◆	■
116	■				■ ◆	■ ◆	■ ◆	◆	◆	■
136	■				■ ◆	■ ◆	■ ◆	◆	◆	
156	■				■ ◆	■ ◆	■ ◆	◆	◆	
176	■				■ ◆	■ ◆	■ ◆			
196	■				■ ◆	■ ◆	■ ◆			

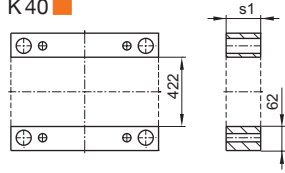
K30

K30/546x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	■
56	■		■	■
66	■			■
76	■			■
86	■			■
96	■			■
116	■			■

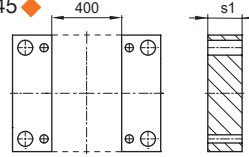
K40
K45
K42



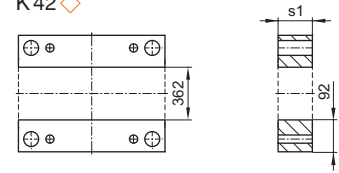
K40 ■



K45 ◆

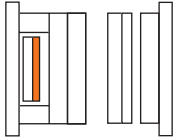


K42 ◇

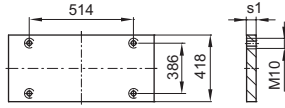


.../546x596 x s1/	1.1730	1.2085	1.2312	.../546x596 x s1/	1.1730	1.2085	1.2312
66	■ ◆	■ ◆		116	■ ◆	■ ◆	
76	■ ◆	■ ◆		136	■ ◆	■ ◆	
86	■ ◆	■ ◆		156	■ ◆		
96	■ ◆	■ ◆		176	■ ◆		

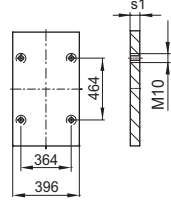
K60
K65
K62



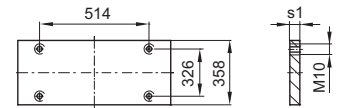
K60 ■



K65 ◆

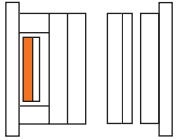


K62 ◇

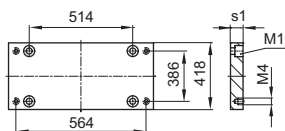


.../546x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

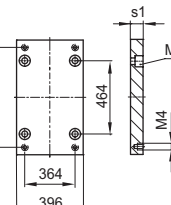
K70
K75
K72



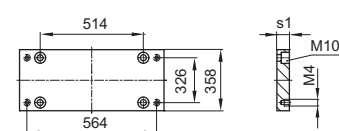
K70 ■



K75 ◆

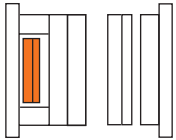


K72 ◇

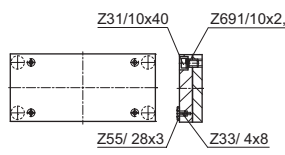


.../546x596 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

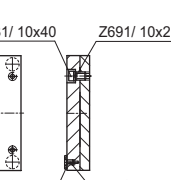
K60-70
K65-75
K62-72



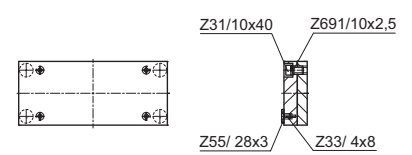
K60-70 ■



K65-75 ◆

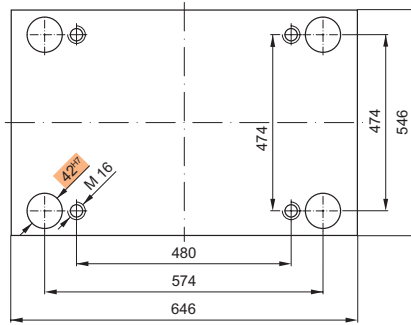


K62-72



.../546x596 /	1.1730	1.2085	K62-72/546x596/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

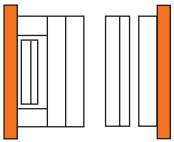
546x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

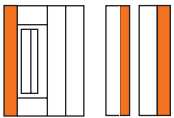
K20/546x646x36/1.2085

K10 K11



K10/546x646x s1 /	1.1730	1.2162	1.2085	1.2312	K11/546x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■		46	■		■	
56	■		■	■	56	■		■	■

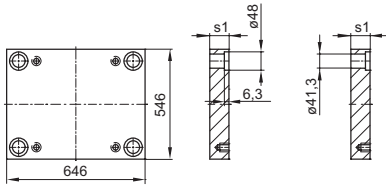
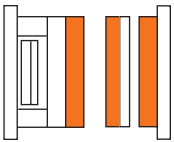
K15 K16



K15/546x646x s1 /	1.1730	1.2162	1.2085	1.2312	K16/546x646x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■		36	■		■	
46	■		■	■	46	■		■	■

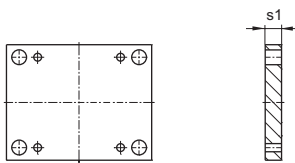
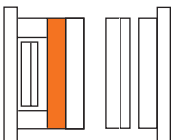
K20 K252

K20 ■ K252 ◆



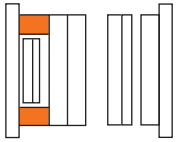
.../546x646 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■						■			
36	■				■ ◆	■ ◆	■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			
196	■				■ ◆	■ ◆	■ ◆			

K30

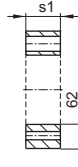
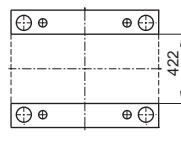


K30/546x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	
66	■			■
76	■			■
86	■			■
96	■			■
116	■			

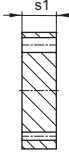
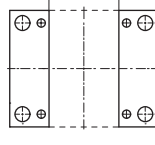
K40
K45
K42



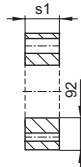
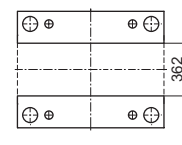
K40 ■



K45 ◆

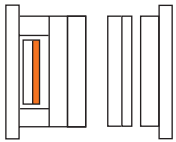


K42 ◇

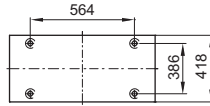


.../546x646 x s1/	1.1730	1.2085	1.2312	.../546x646 x s1/	1.1730	1.2085	1.2312
76	■ ◆ ◇	■ ◆		136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇	■ ◆		156	■ ◆ ◇		
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇		
116	■ ◆ ◇	■ ◆					

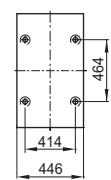
K60
K65
K62



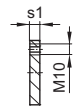
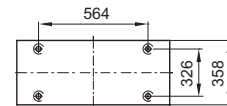
K60 ■



K65 ◆

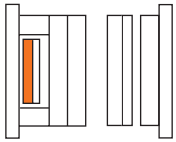


K62 ◇

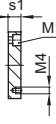
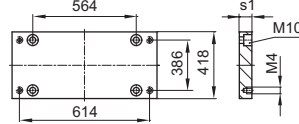


.../546x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

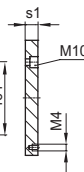
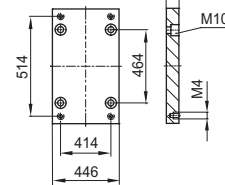
K70
K75
K72



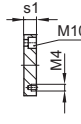
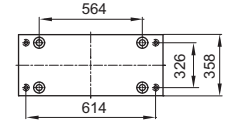
K70 ■



K75 ◆

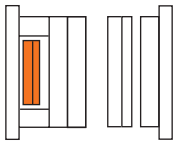


K72 ◇

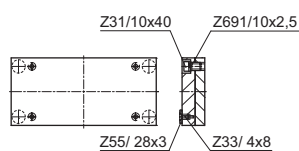


.../546x646 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

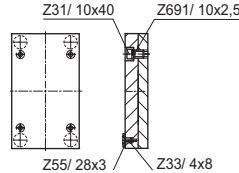
K60-70
K65-75
K62-72



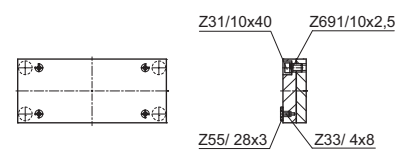
K60-70 ■



K65-75 ◆

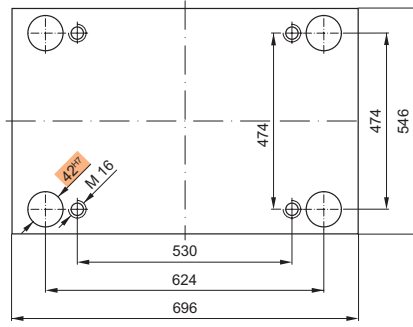


K62-72 ◇



.../546x646 /	1.1730	1.2085	K62-72/546x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

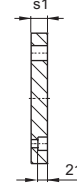
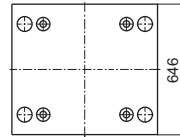
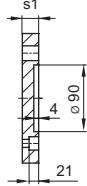
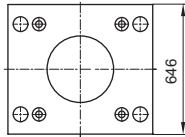
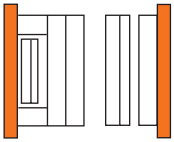
546x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/546x696x36/1.2085

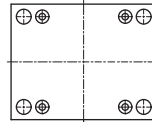
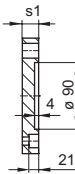
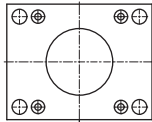
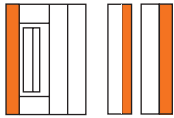
K10 K11



K10/546x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/546x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K15 K16

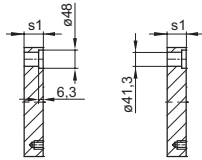
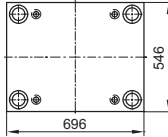
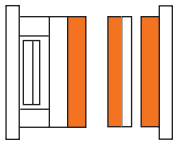


K15/546x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/546x696x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

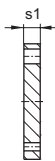
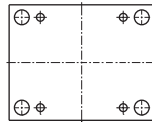
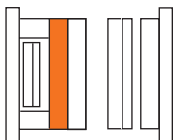
K20 K252

K20 ■ K252 ◆



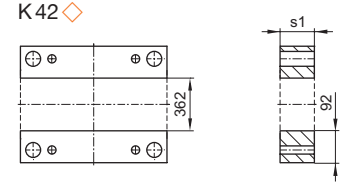
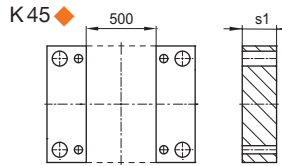
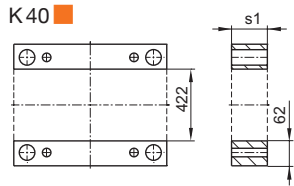
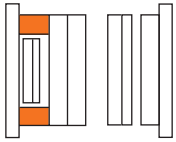
.../546x696 x s1 /	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■						■			
36	■				■ ◆		■ ◆			■
46	■				■ ◆	■ ◆	■ ◆			■
56	■				■ ◆	■ ◆	■ ◆			■
66	■				■ ◆	■ ◆	■ ◆			■
76	■				■ ◆	■ ◆	■ ◆			■
86	■				■ ◆	■ ◆	■ ◆			■
96	■				■ ◆	■ ◆	■ ◆			■
116	■				■ ◆	■ ◆	■ ◆			■
136	■				■ ◆	■ ◆	■ ◆			
156	■				■ ◆	■ ◆	■ ◆			
176	■				■ ◆	■ ◆	■ ◆			
196	■				■ ◆	■ ◆	■ ◆			

K30



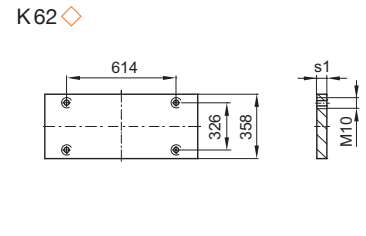
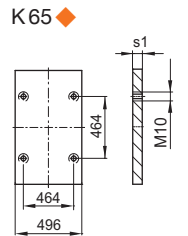
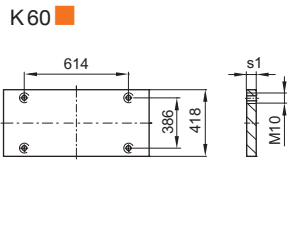
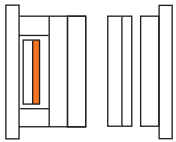
K30/546x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■
76	■			■
86	■			■
96	■			■
116	■			

K40
K45
K42



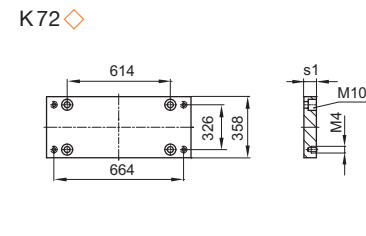
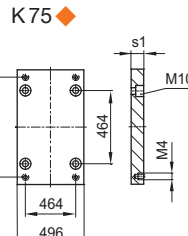
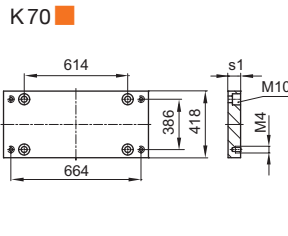
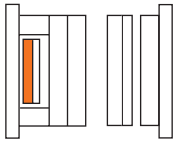
.../546x696 x s1/	1.1730	1.2085	1.2312	.../546x696 x s1/	1.1730	1.2085	1.2312
76	■◆◇	■◆		136	■◆◇	■◆	
86	■◆◇	■◆		156	■◆◇		
96	■◆◇	■◆		176	■◆◇		
116	■◆◇	■◆					

K60
K65
K62



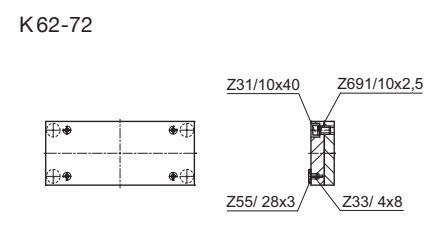
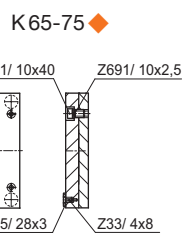
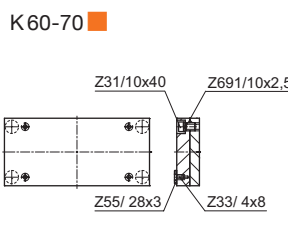
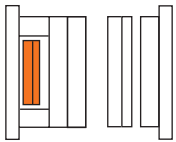
.../546x696 x s1/	1.1730	1.2085	1.2312
27	■◆◇	■◆	

K70
K75
K72



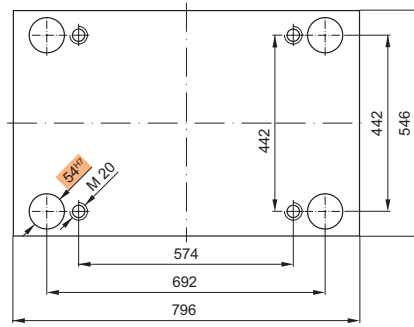
.../546x696 x s1/	1.1730	1.2085	1.2312
36	■◆◇	■◆	■◆◇

K60-70
K65-75
K62-72



.../546x696 /	1.1730	1.2085	K62-72/546x696/Typ	1.1730	1.2312
	■◆	■◆	1	K62	K72
			3	K62 K72	

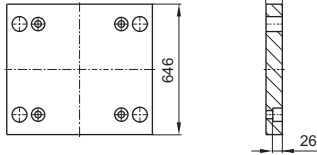
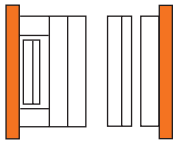
546x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

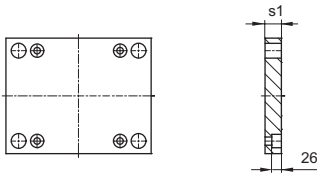
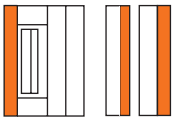
K20/546x796x56/1.2085

K11



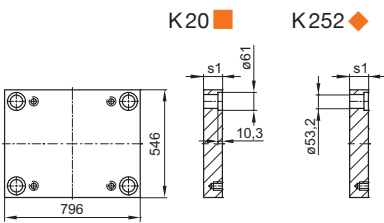
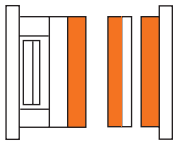
K11/546x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K16



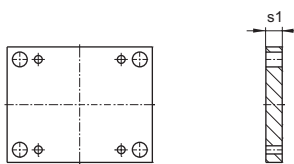
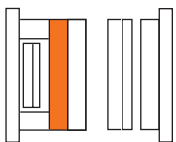
K16/546x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



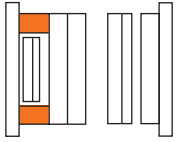
.../546x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
27	■						■			
36	■						■			
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116	■				■	■	■			■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			
196	■				■	■	■			

K30

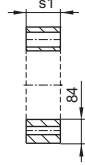
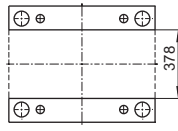


K30/546x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			

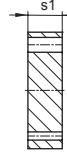
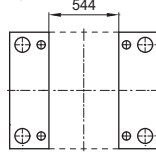
K40
K45
K42



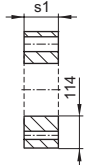
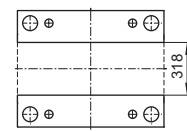
K40 ■



K45 ◆



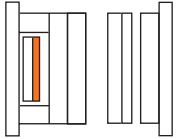
K42 ◇



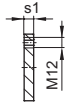
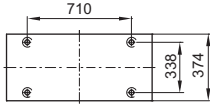
.../546x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../546x796 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

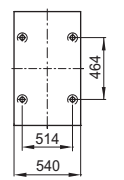
K60
K65
K62



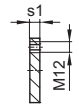
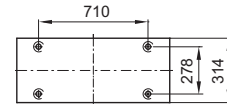
K60 ■



K65 ◆

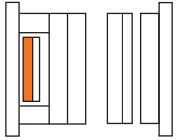


K62 ◇

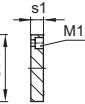
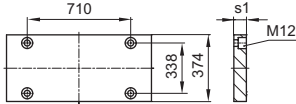


.../546x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

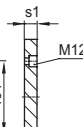
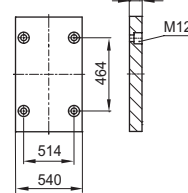
K70
K75
K72



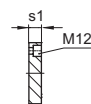
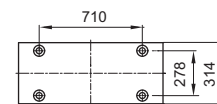
K70 ■



K75 ◆

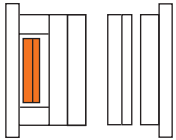


K72 ◇

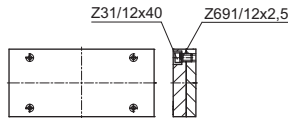


.../546x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

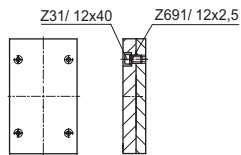
K60-70
K65-75
K62-72



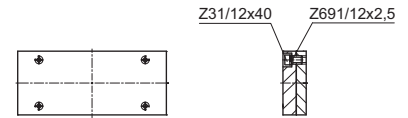
K60-70 ■



K65-75 ◆



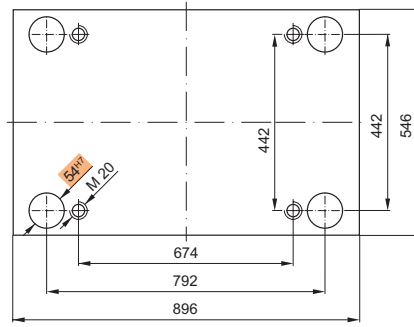
K62-72



.../546 x 796 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/546x796/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

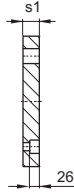
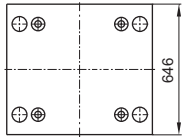
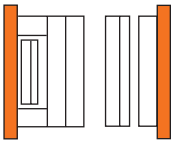
546x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

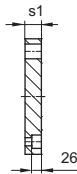
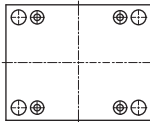
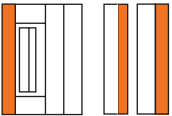
K20/546x896x56/1.2085

K11



K11/546x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

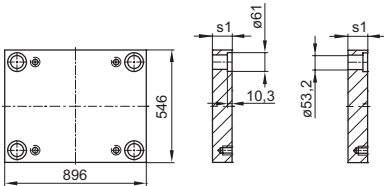
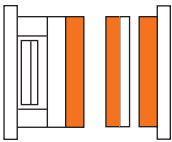
K16



K16/546x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

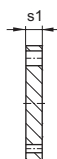
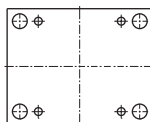
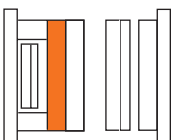
K20 K252

K20 ■ K252 ◆



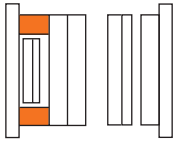
.../546x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

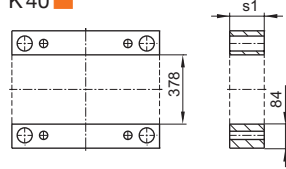


K30/546x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

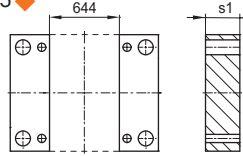
K40
K45
K42



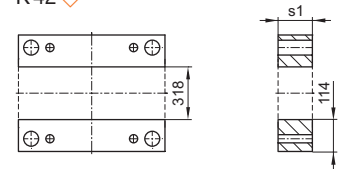
K40 ■



K45 ◆



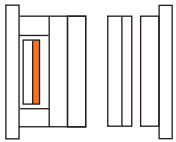
K42 ◇



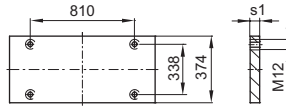
.../546x896 x s1/	1.1730	1.2085	1.2312
86	■		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../546x896 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

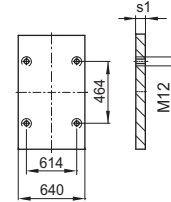
K60
K65
K62



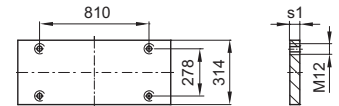
K60 ■



K65 ◆

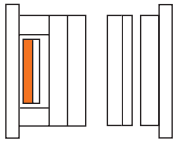


K62 ◇

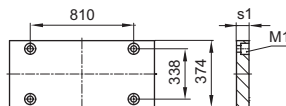


.../546x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

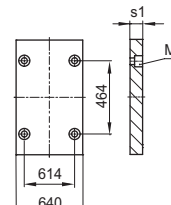
K70
K75
K72



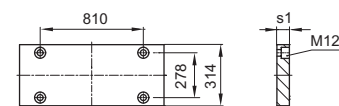
K70 ■



K75 ◆

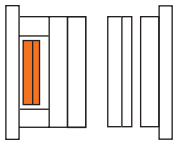


K72 ◇

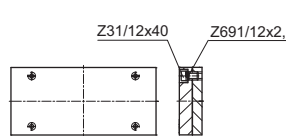


.../546x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

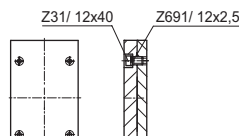
K60-70
K65-75
K62-72



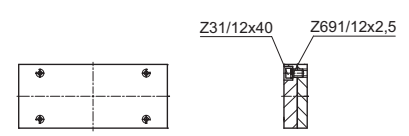
K60-70 ■



K65-75 ◆

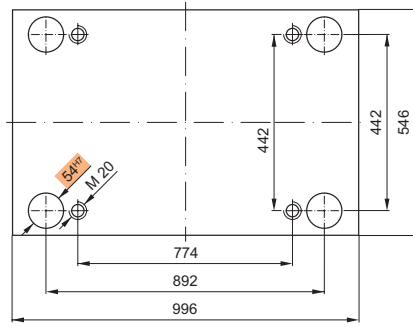


K62-72



.../546x896 /	1.1730	1.2085	K62-72/546x896/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

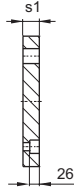
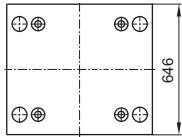
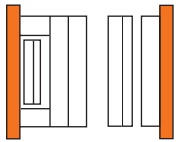
546x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

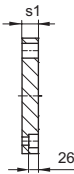
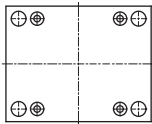
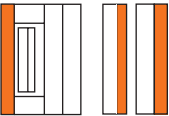
K20/546x996x56/1.2085

K11



K11/546x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

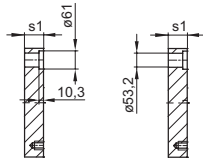
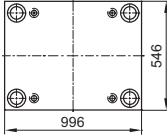
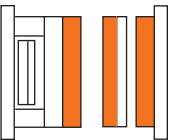
K16



K16/546x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

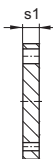
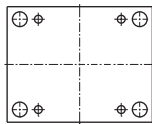
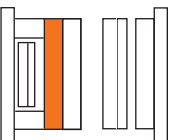
K20 K252

K20 ■ K252 ◆



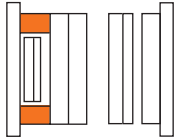
.../546x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

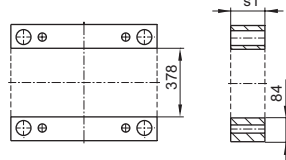


K30/546x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

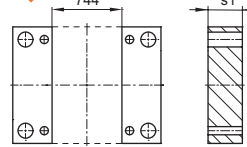
K40
K45
K42



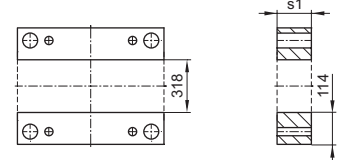
K40 ■



K45 ◆

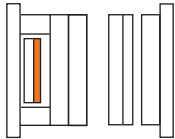


K42 ◇

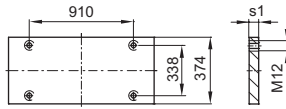


... /546x996 x s1/	1.1730	1.2085	1.2312	... /546x996 x s1/	1.1730	1.2085	1.2312
76	■			136	■ ◆ ◇	■ ◆	
86	■ ◆ ◇			156	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		176	■ ◆ ◇		
116	■ ◆ ◇	■ ◆					

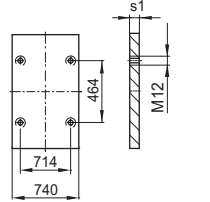
K60
K65
K62



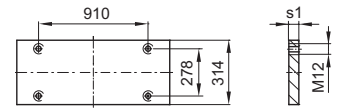
K60 ■



K65 ◆

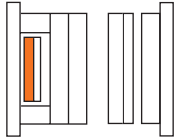


K62 ◇

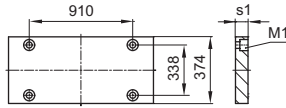


.../546x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

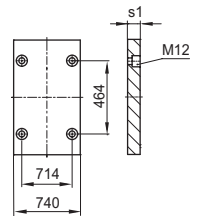
K70
K75
K72



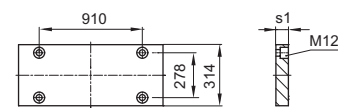
K70 ■



K75 ◆

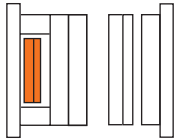


K72 ◇

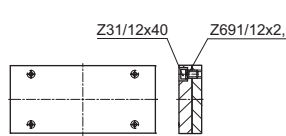


.../546x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

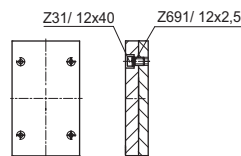
K60-70
K65-75
K62-72



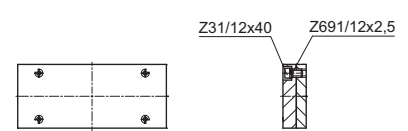
K60-70 ■



K65-75 ◆

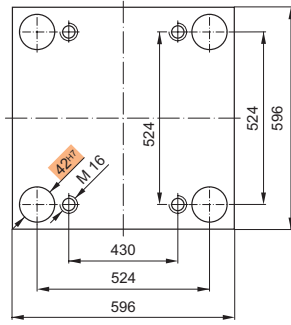


K62-72



... / 546 x 996 /	1.1730	1.2085	K62-72/546x996/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

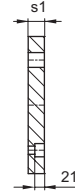
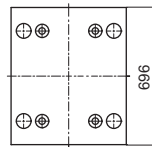
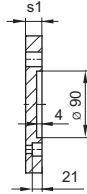
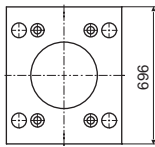
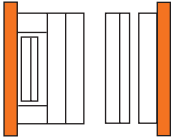
596x596



Bestellbeispiel:
Ordering example:
Exemple de commande:

K20/596x596x36/1.2085

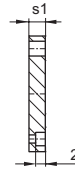
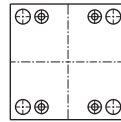
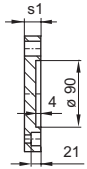
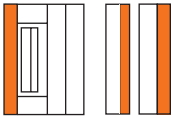
K10 K11



K10/596x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

K11/596x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■		■	■

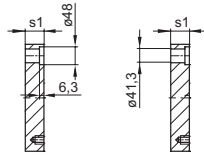
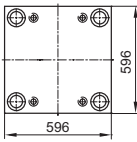
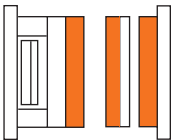
K15 K16



K15/596x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

K16/596x596x s1 /	1.1730	1.2162	1.2085	1.2312
36	■		■	
46	■		■	■

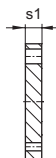
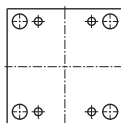
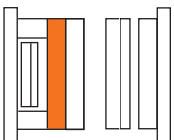
K20 K252



K20 ■ K252 ◆

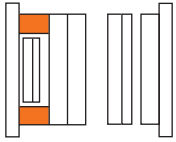
.../596x596 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■				■◆		■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆	◆	◆	■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆	◆	◆	■
116	■				■◆	■◆	■◆	◆	◆	■
136	■				■◆	■◆	■◆	◆	◆	
156	■				■◆	■◆	■◆	◆	◆	
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

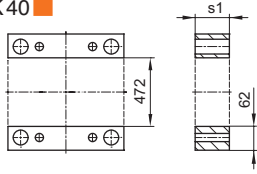


K30/596x596x s1 /	1.1730	1.2162	1.2085	1.2312
46	■		■	
56	■			■
76	■			■
86	■			■
96	■			■
116	■			

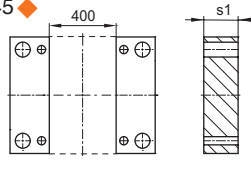
K40
K45
K42



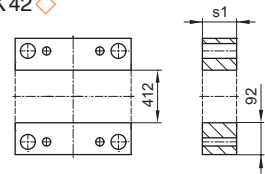
K40 ■



K45 ◆



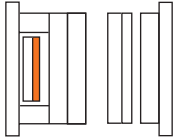
K42 ◇



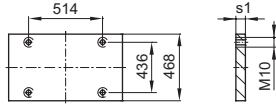
.../596x596 x s1/	1.1730	1.2085	1.2312
66	■ ◆	■	
76	■ ◆ ◆	■ ◆	
86	■ ◆ ◆	■ ◆	
96	■ ◆ ◆	■ ◆	

.../596x596 x s1/	1.1730	1.2085	1.2312
116	■ ◆ ◆	■ ◆	
136	■ ◆ ◆	■ ◆	
156	■ ◆		
176	■ ◆		

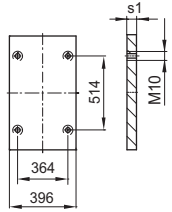
K60
K65
K62



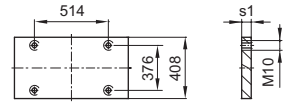
K60 ■



K65 ◆

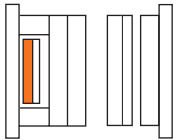


K62 ◇

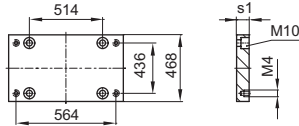


.../596x596 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	

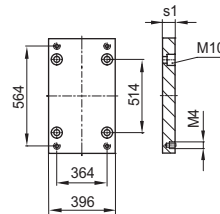
K70
K75
K72



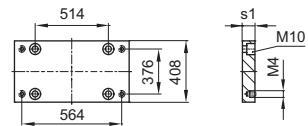
K70 ■



K75 ◆

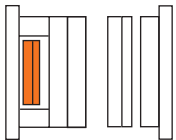


K72 ◇

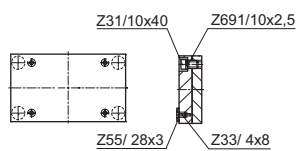


.../596x596 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◆	■ ◆	■ ◆ ◆

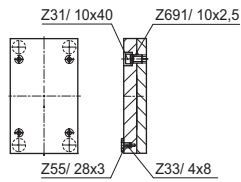
K60-70
K65-75
K62-72



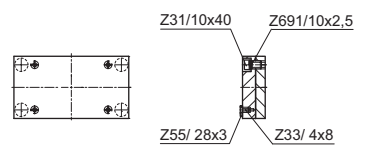
K60-70 ■



K65-75 ◆

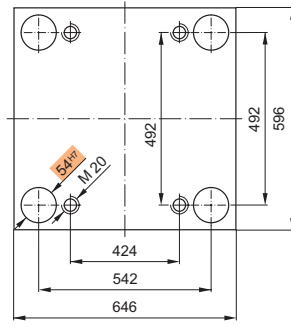


K62-72 ◇



.../596 x 596 /	1.1730	1.2085	K62-72/596x596/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

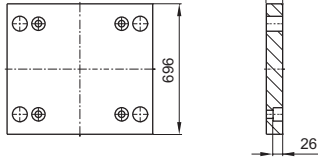
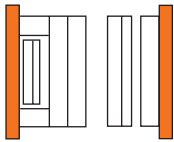
596x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

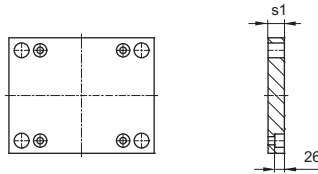
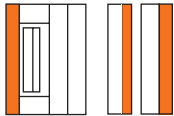
K20/596x646x56/1.2085

K11



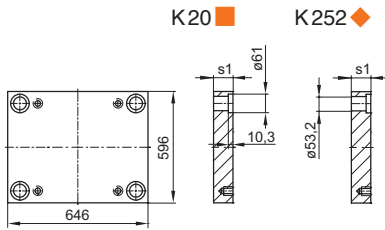
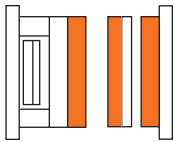
K11/596x646x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K16



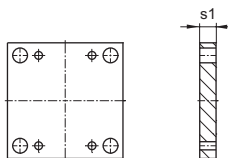
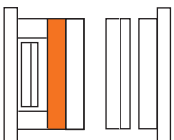
K16/596x646x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



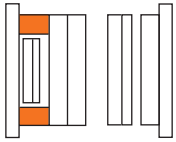
.../596x646 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■				■◆	■◆	■◆			■
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

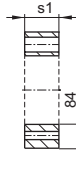
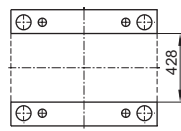


K30/596x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			

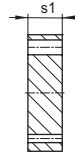
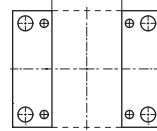
K40
K45
K42



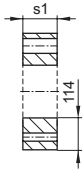
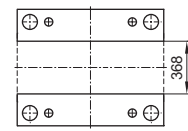
K40 ■



K45 ◆



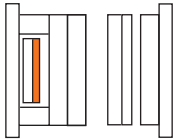
K42 ◇



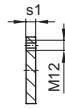
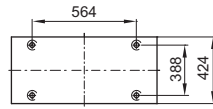
.../596x646 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../596x646 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

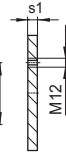
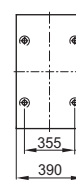
K60
K65
K62



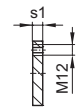
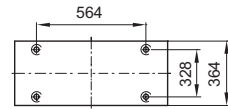
K60 ■



K65 ◆

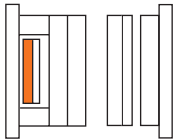


K62 ◇

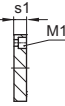
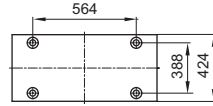


.../596x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

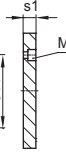
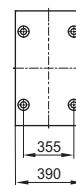
K70
K75
K72



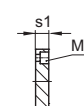
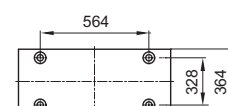
K70 ■



K75 ◆

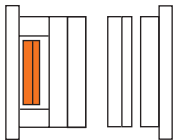


K72 ◇

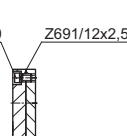
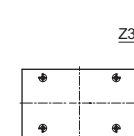


.../596x646 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

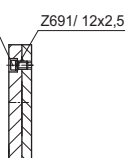
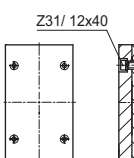
K60-70
K65-75
K62-72



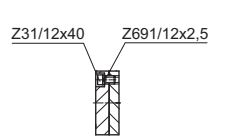
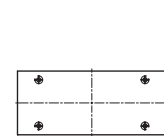
K60-70 ■



K65-75 ◆

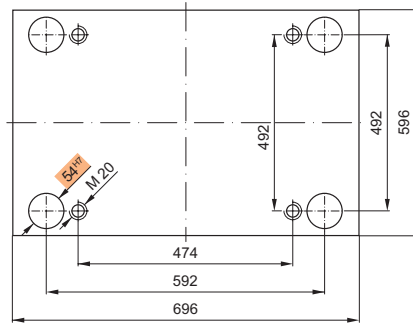


K62-72 ◇



.../596x646 /	1.1730	1.2085	K62-72/596x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

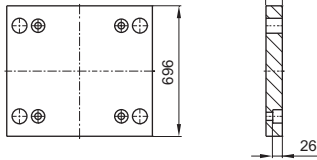
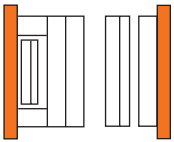
596x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

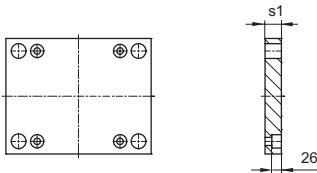
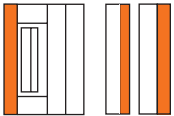
K20/596x696x56/1.2085

K11



K11/596x696x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

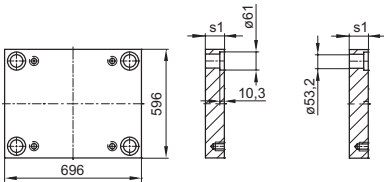
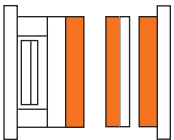
K16



K16/596x696x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

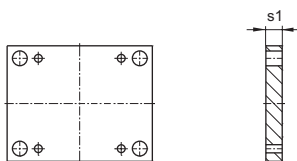
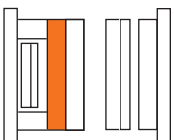
K20 K252

K20 ■ K252 ◆



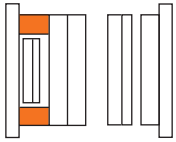
.../596x696 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

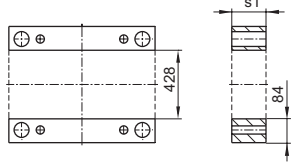


K30/596x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			

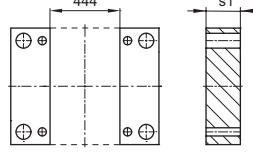
K40
K45
K42



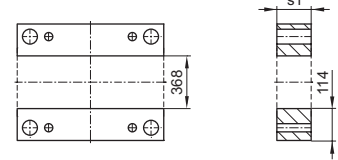
K40 ■



K45 ◆

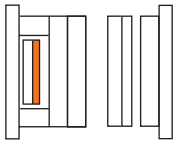


K42 ◇

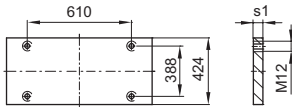


.../596x696 x s1/	1.1730	1.2085	1.2312	.../596x696 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

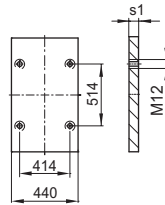
K60
K65
K62



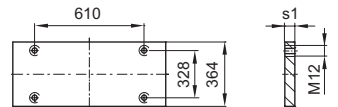
K60 ■



K65 ◆

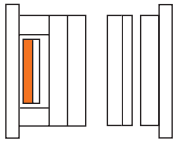


K62 ◇

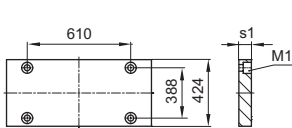


.../596x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

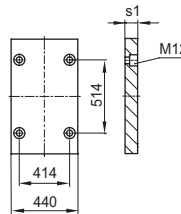
K70
K75
K72



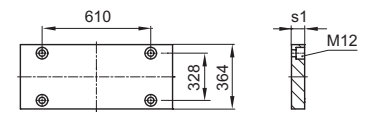
K70 ■



K75 ◆

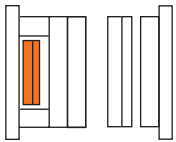


K72 ◇

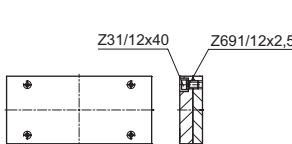


.../596x696 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

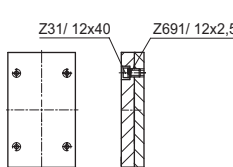
K60-70
K65-75
K62-72



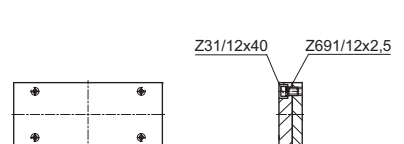
K60-70 ■



K65-75 ◆

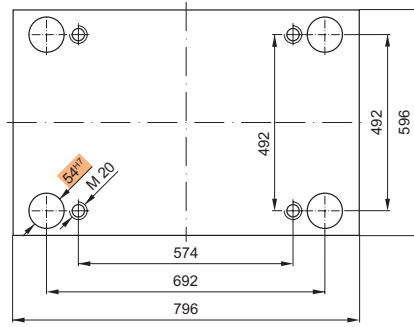


K62-72 ◇



.../596x696 /	1.1730	1.2085	K62-72/596x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

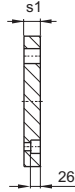
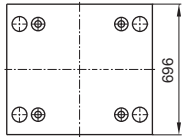
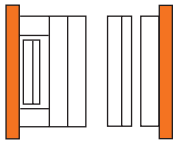
596x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

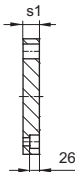
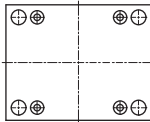
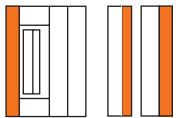
K 20 / 596 x 796 x 56 / 1.2085

K11



K11/596x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

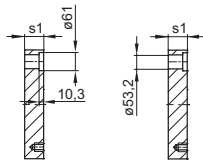
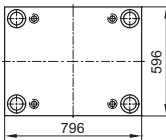
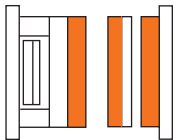
K16



K16/596x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

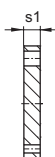
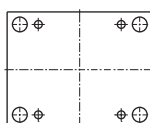
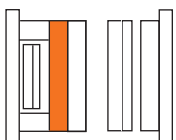
K20 K252

K20 ■ K252 ◆



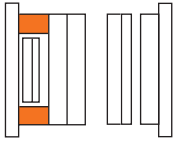
.../596x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

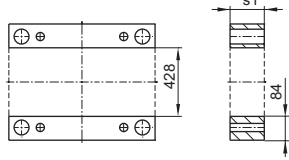


K30/596x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			
96	■			
116	■			

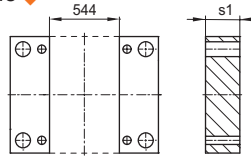
K40
K45
K42



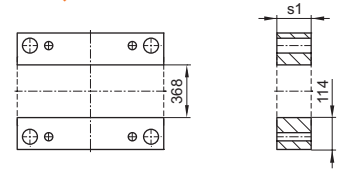
K40 ■



K45 ◆

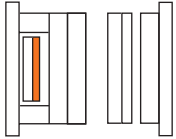


K42 ◇

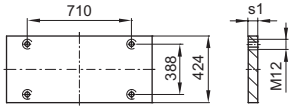


.../596x796 x s1/	1.1730	1.2085	1.2312	.../596x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆		

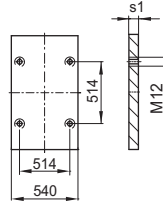
K60
K65
K62



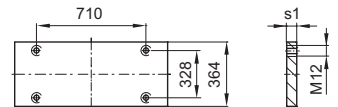
K60 ■



K65 ◆

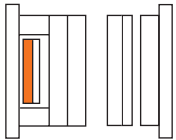


K62 ◇

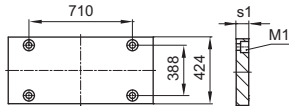


.../596x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

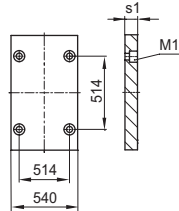
K70
K75
K72



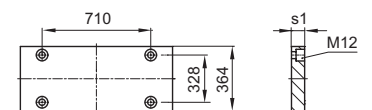
K70 ■



K75 ◆

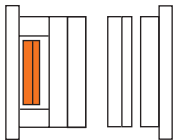


K72 ◇

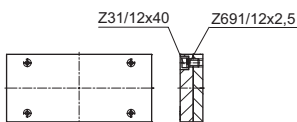


.../596x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

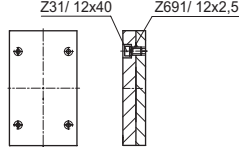
K60-70
K65-75
K62-72



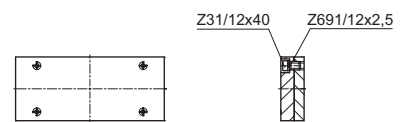
K60-70 ■



K65-75 ◆

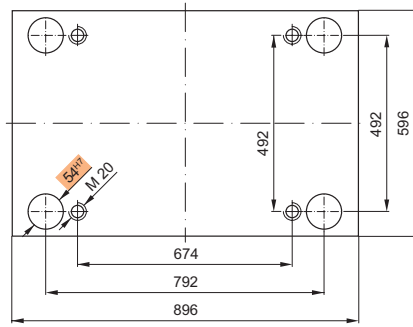


K62-72 ◇



.../596 x 796 /	1.1730	1.2085	K62-72/596x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

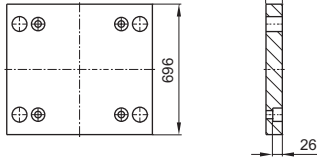
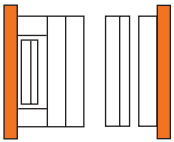
596x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

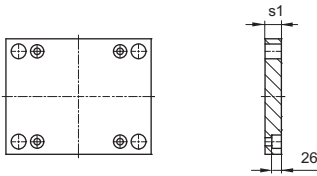
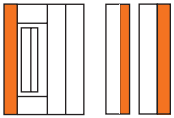
K 20 / 596x896x56 / 1.2085

K11



K11/596x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

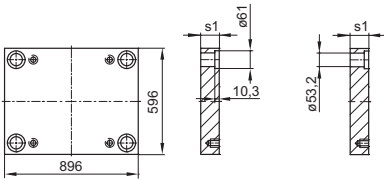
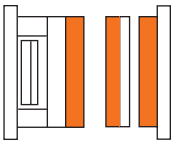
K16



K16/596x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

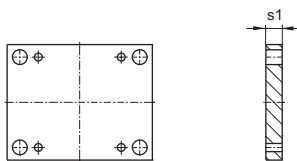
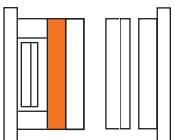
K20 K252

K20 ■ K252 ◆



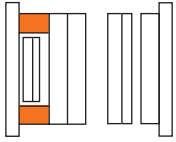
.../596x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

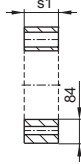
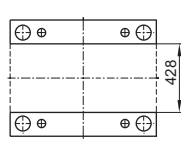


K30/596x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86				■
96				■

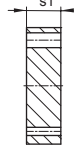
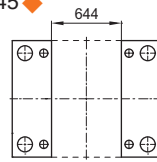
K40
K45
K42



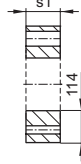
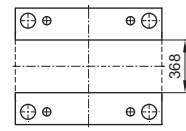
K40 ■



K45 ◆

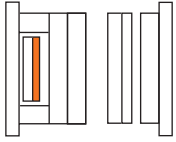


K42 ◇

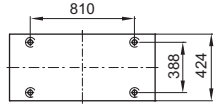


.../596x896 x s1/	1.1730	1.2085	1.2312	.../596x896 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

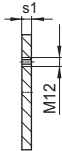
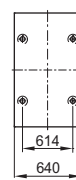
K60
K65
K62



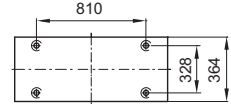
K60 ■



K65 ◆

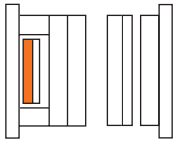


K62 ◇

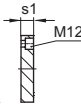
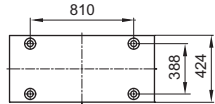


.../596x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

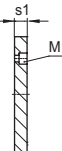
K70
K75
K72



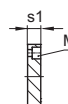
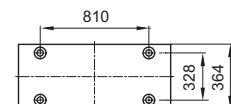
K70 ■



K75 ◆

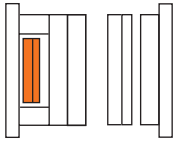


K72 ◇

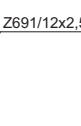
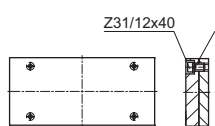


.../596x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

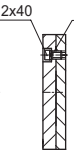
K60-70
K65-75
K62-72



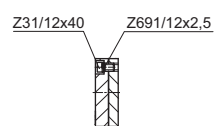
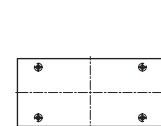
K60-70 ■



K65-75 ◆

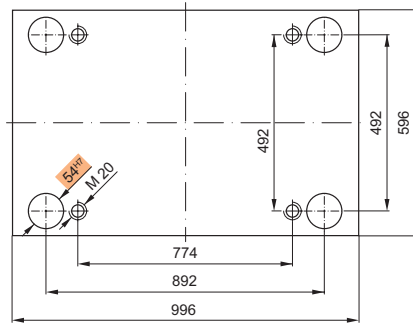


K62-72



.../596x896 /	1.1730	1.2085	K62-72/596x896/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

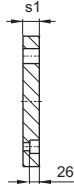
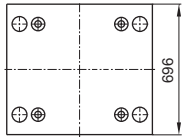
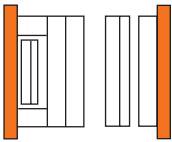
596x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

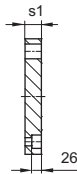
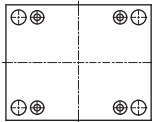
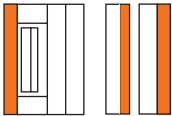
K 20 / 596x996x56 / 1.2085

K11



K11/596x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

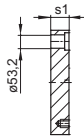
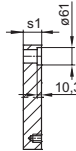
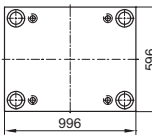
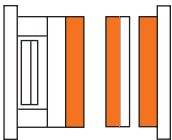
K16



K16/596x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

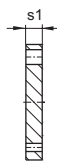
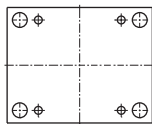
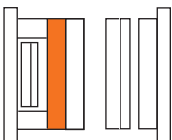
K20 K252

K20 ■ K252 ◆



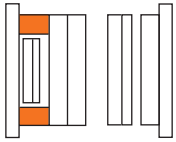
.../596x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

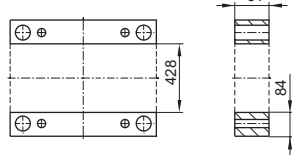


K30/596x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■
116	■			

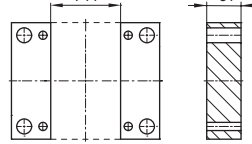
K40
K45
K42



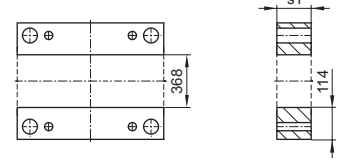
K40 ■



K45 ◆

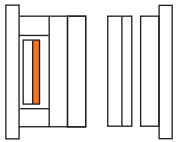


K42 ◇

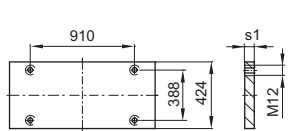


.../596x996 x s1/	1.1730	1.2085	1.2312	.../596x996 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆		

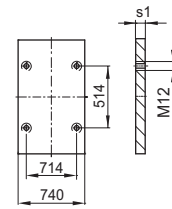
K60
K65
K62



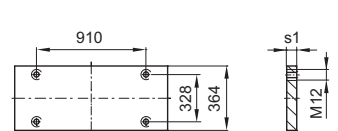
K60 ■



K65 ◆

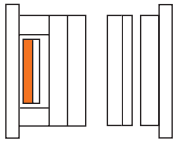


K62 ◇

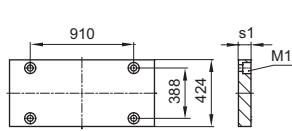


.../596x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

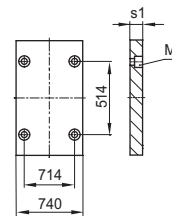
K70
K75
K72



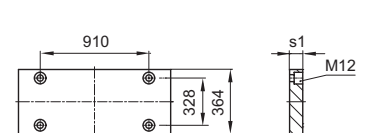
K70 ■



K75 ◆

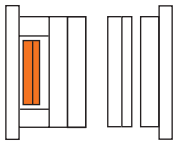


K72 ◇

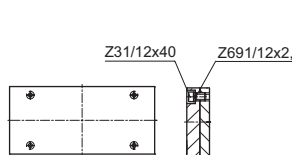


.../596x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

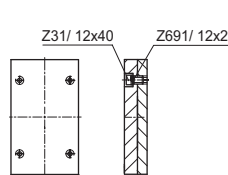
K60-70
K65-75
K62-72



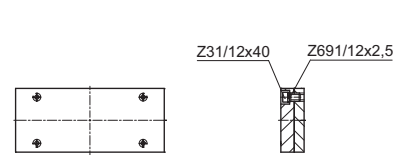
K60-70 ■



K65-75 ◆

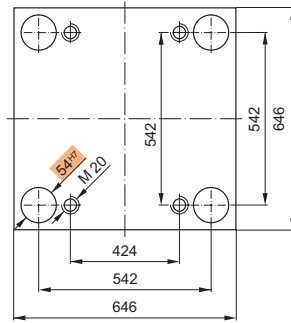


K62-72 ◇



.../596 x 996 /	1.1730	1.2085	K62-72/596x996/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

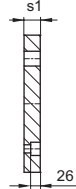
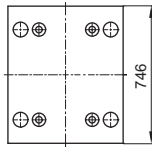
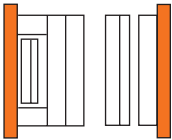
646x646



Bestellbeispiel:
Ordering example:
Exemple de commande:

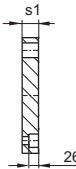
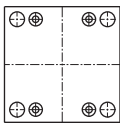
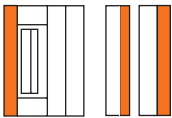
K20/646x646x56/1.2085

K11



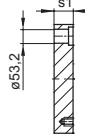
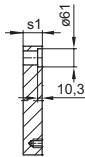
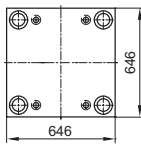
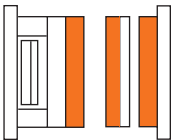
K11/646x646x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K16



K16/646x646x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

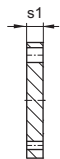
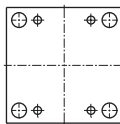
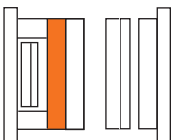
K20 K252



K20 ■ K252 ◆

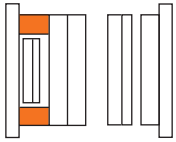
.../646x646 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

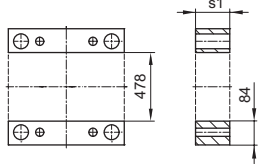


K30/646x646x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

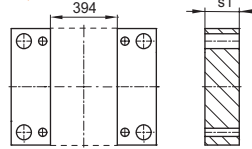
K40
K45
K42



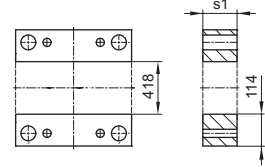
K40 ■



K45 ◆



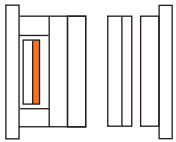
K42 ◆



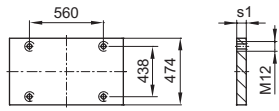
.../646x646 x s1/	1.1730	1.2085	1.2312
86	■ ◆		
96	■ ◆ ◆	■ ◆	
116	■ ◆ ◆	■ ◆	

.../646x646 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◆	■ ◆	
156	■ ◆ ◆	■ ◆	
176	■ ◆		

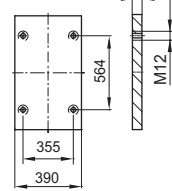
K60
K65
K62



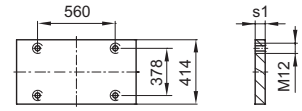
K60 ■



K65 ◆

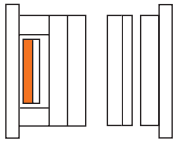


K62 ◆

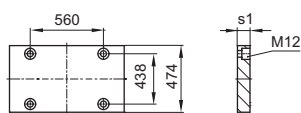


.../646x646 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	

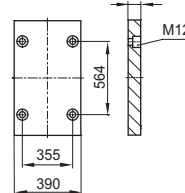
K70
K75
K72



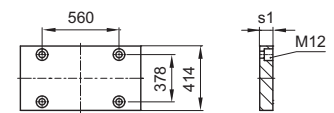
K70 ■



K75 ◆

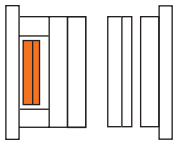


K72 ◆

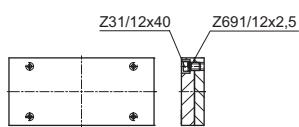


.../646x646 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◆	■ ◆	■ ◆ ◆

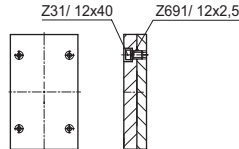
K60-70
K65-75
K62-72



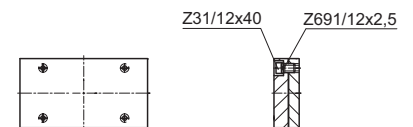
K60-70 ■



K65-75 ◆



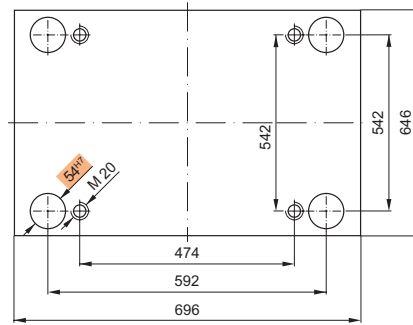
K62-72



.../646x646 /	1.1730	1.2085	K62-72/646x646/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	



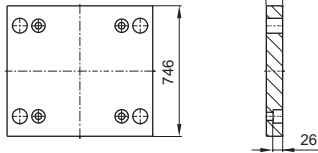
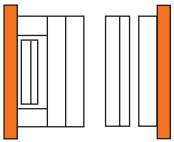
646x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

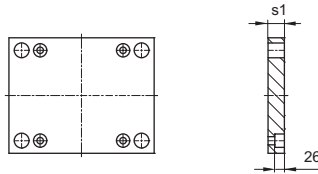
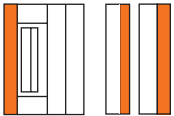
K 20 / 646x696x56 / 1.2085

K11



K11/646x696x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

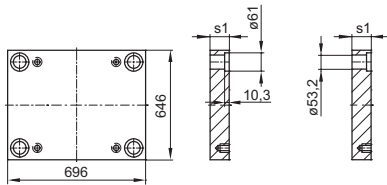
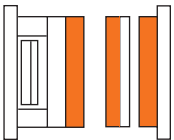
K16



K16/646x696x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

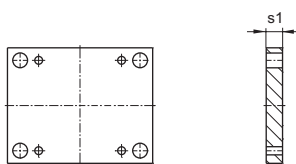
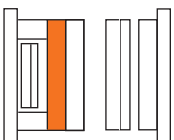
K20 K252

K20 ■ K252 ◆



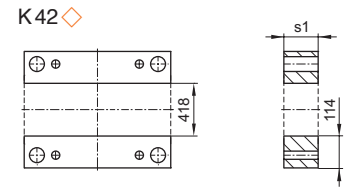
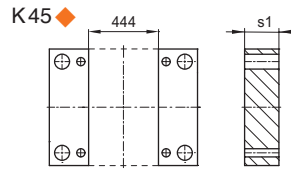
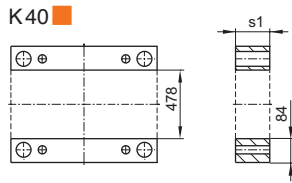
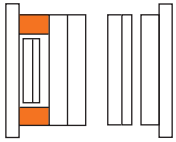
.../646x696 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30



K30/646x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

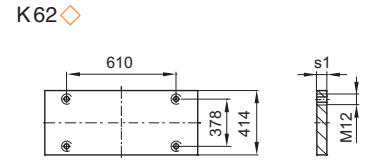
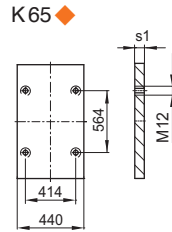
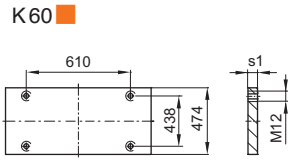
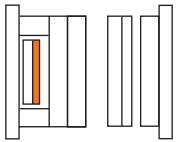
K40
K45
K42



.../646x696 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

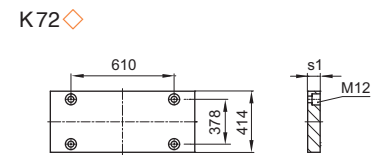
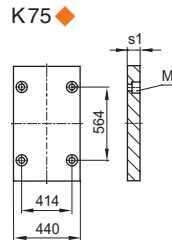
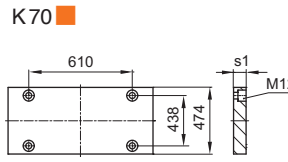
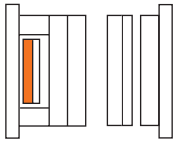
.../646x696 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

K60
K65
K62



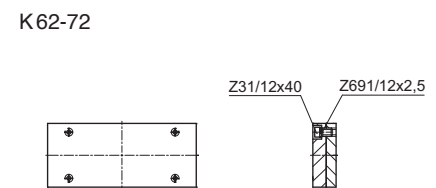
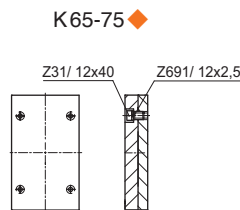
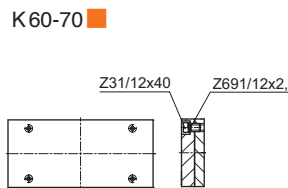
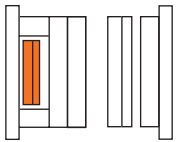
.../646x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

K70
K75
K72



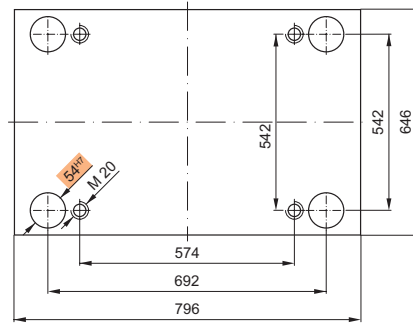
.../646x696 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

K60-70
K65-75
K62-72



.../646 x 696 /	1.1730	1.2085	K62-72/646x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

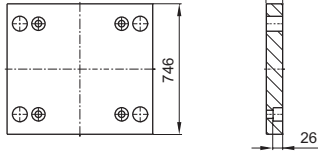
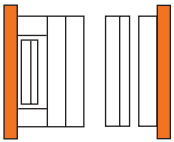
646x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

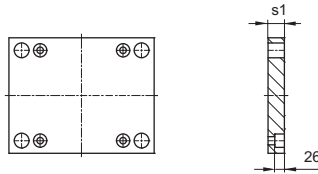
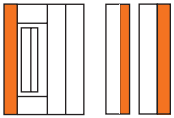
K20/646x796x56/1.2085

K11



K11/646x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

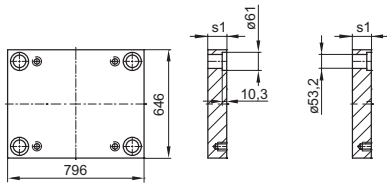
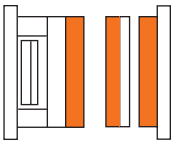
K16



K16/646x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

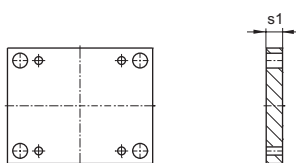
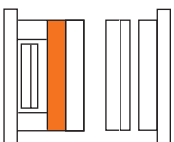
K20 K252

K20 ■ K252 ◆



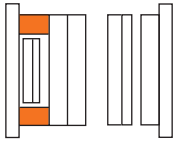
.../646x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

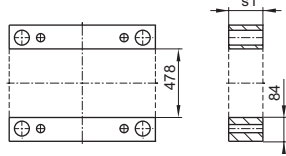


K30/646x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

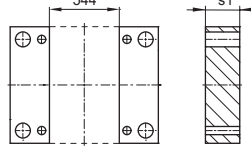
K40
K45
K42



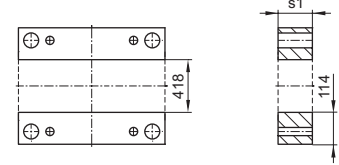
K40 ■



K45 ◆



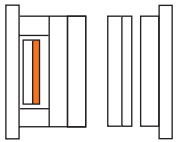
K42 ◇



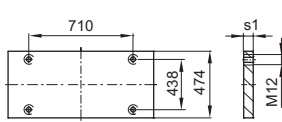
.../646x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../646x796 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

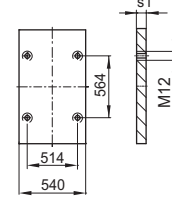
K60
K65
K62



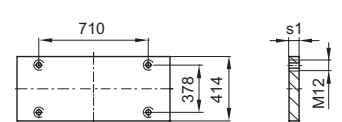
K60 ■



K65 ◆

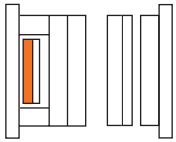


K62 ◇

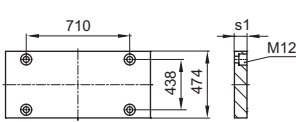


.../646x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

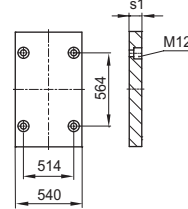
K70
K75
K72



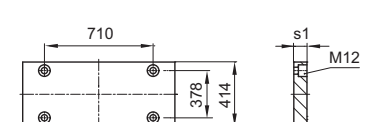
K70 ■



K75 ◆

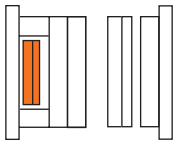


K72 ◇

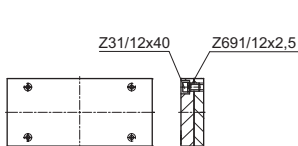


.../646x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

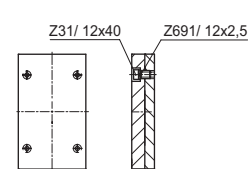
K60-70
K65-75
K62-72



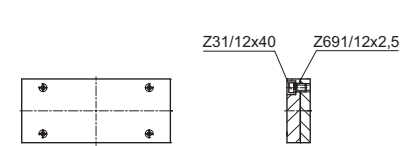
K60-70 ■



K65-75 ◆

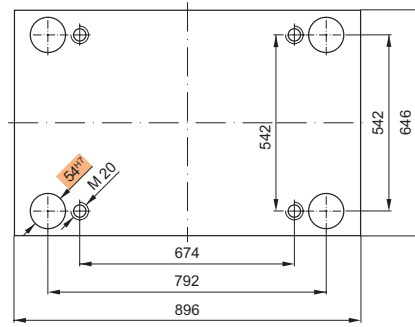


K62-72 ◇



.../646 x 796 /	1.1730	1.2085	K62-72/646x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

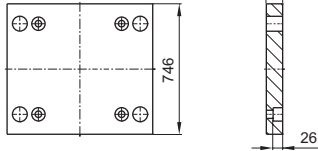
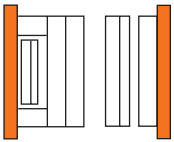
646x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

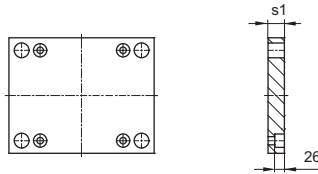
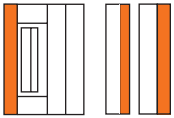
K20/646x896x56/1.2085

K11



K11/646x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

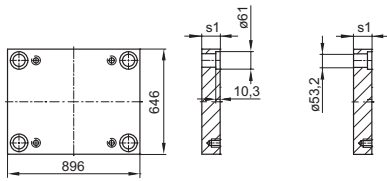
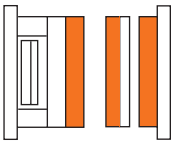
K16



K16/646x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

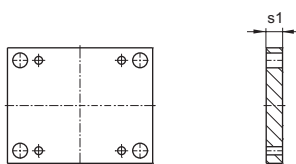
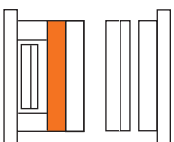
K20 K252

K20 ■ K252 ◆



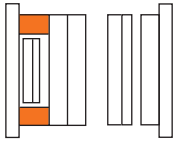
.../646x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

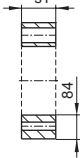
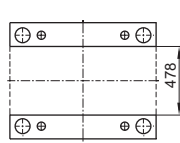


K30/646x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

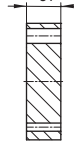
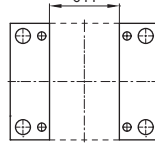
K40
K45
K42



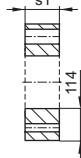
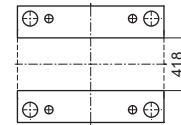
K40 ■



K45 ◆



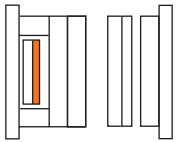
K42 ◇



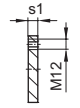
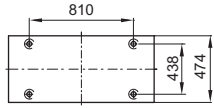
.../646x896 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../646x896 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

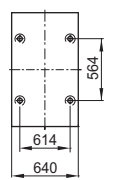
K60
K65
K62



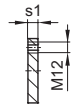
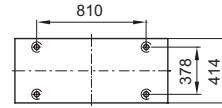
K60 ■



K65 ◆

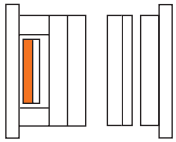


K62 ◇

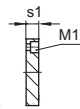
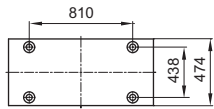


.../646x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

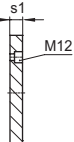
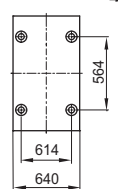
K70
K75
K72



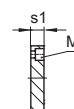
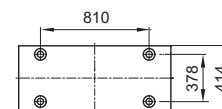
K70 ■



K75 ◆

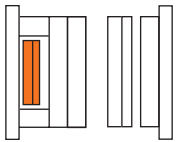


K72 ◇

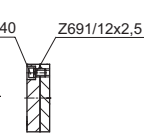
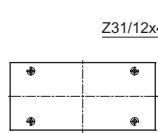


.../646x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

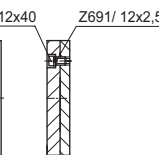
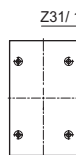
K60-70
K65-75
K62-72



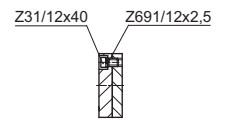
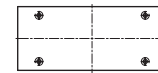
K60-70 ■



K65-75 ◆

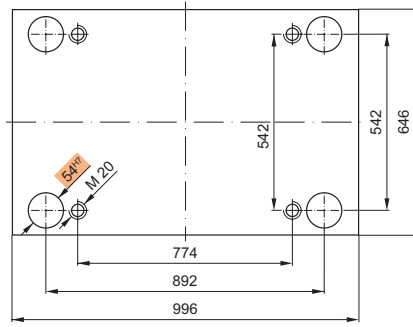


K62-72 ◇



.../646 x 896 /	1.1730	1.2085	K62-72/646x896/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

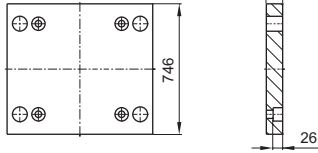
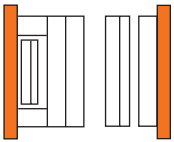
646x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

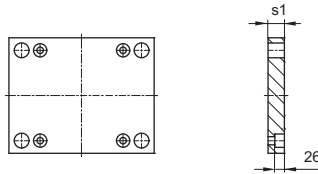
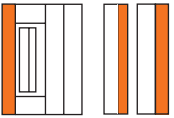
K20/646x996x56/1.2085

K11



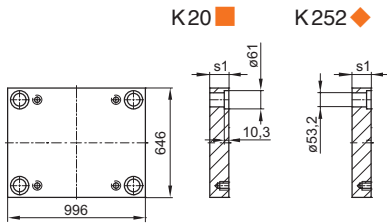
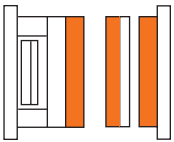
K11/646x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K16



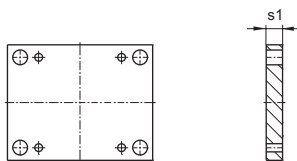
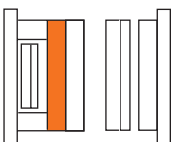
K16/646x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



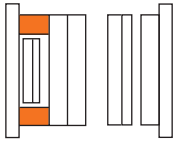
.../646x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■						■			
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116	■				■	■	■			■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			
196	■				■	■	■			

K30

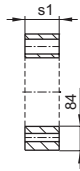
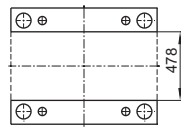


K30/646x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

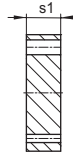
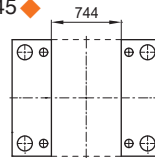
K40
K45
K42



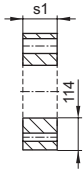
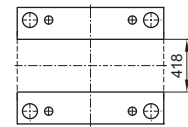
K40 ■



K45 ◆



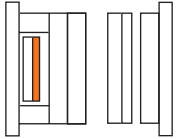
K42 ◇



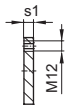
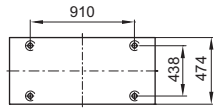
.../646x996 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../646x996 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

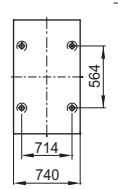
K60
K65
K62



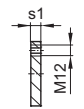
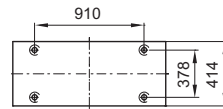
K60 ■



K65 ◆

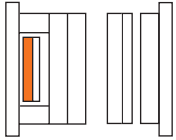


K62 ◇

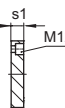
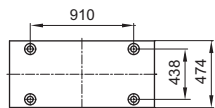


.../646x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

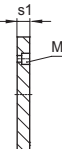
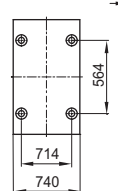
K70
K75
K72



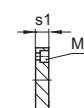
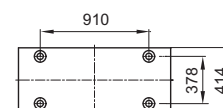
K70 ■



K75 ◆

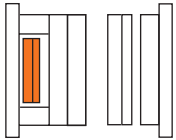


K72 ◇

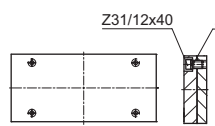


.../646x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

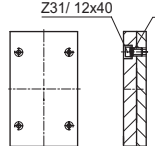
K60-70
K65-75
K62-72



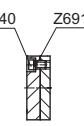
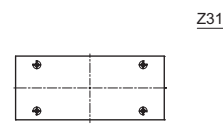
K60-70 ■



K65-75 ◆

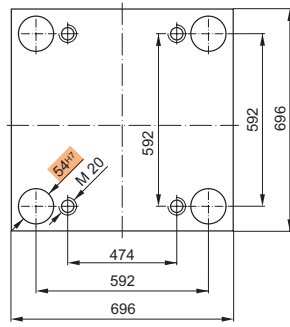


K62-72 ◇



.../646 x 996 /	1.1730	1.2085	K62-72/646x996/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

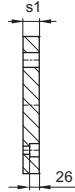
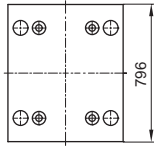
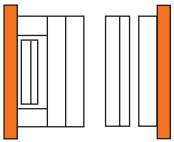
696x696



Bestellbeispiel:
Ordering example:
Exemple de commande:

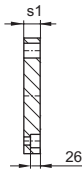
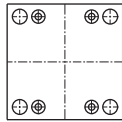
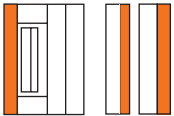
K 20 / 696x696x56 / 1.2085

K11



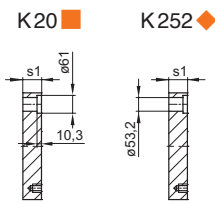
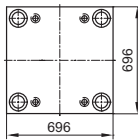
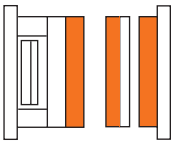
K11/696x696x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



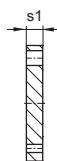
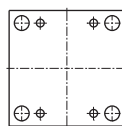
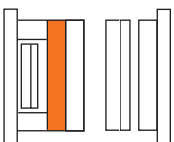
K16/696x696x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



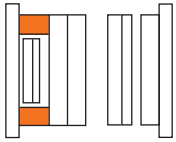
.../696x696 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

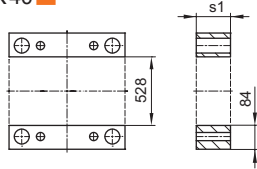


K30/696x696x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

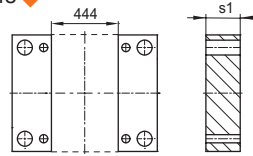
K40
K45
K42



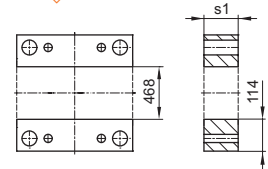
K40 ■



K45 ◆



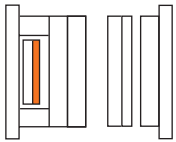
K42 ◇



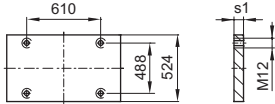
.../696x696 x s1/	1.1730	1.2085	1.2312
86	■ ◆		
96	■ ◆ ◆	■ ◆	
116	■ ◆ ◆	■ ◆	

.../696x696 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◆	■ ◆	
156	■ ◆ ◆	■ ◆	
176	■ ◆	■ ◆	

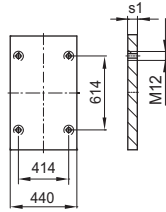
K60
K65
K62



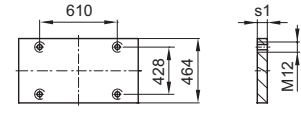
K60 ■



K65 ◆

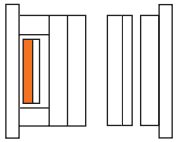


K62 ◇

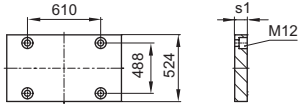


.../696x696 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	

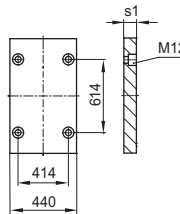
K70
K75
K72



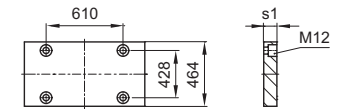
K70 ■



K75 ◆

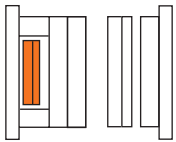


K72 ◇

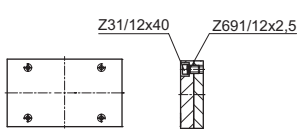


.../696x696 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◆	■ ◆	■ ◆ ◆

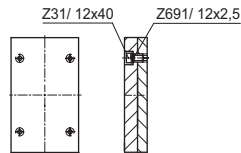
K60-70
K65-75
K62-72



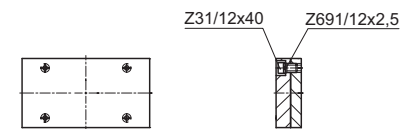
K60-70 ■



K65-75 ◆

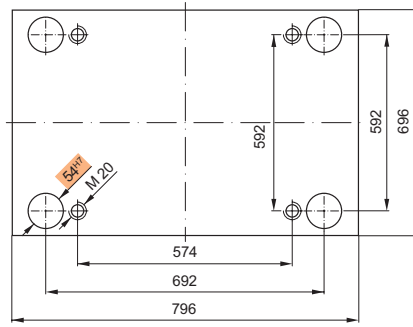


K62-72 ◇



.../696 x 696 /	1.1730	1.2085	K62-72/696x696/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

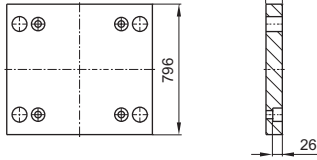
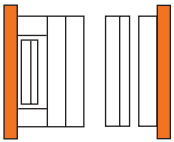
696x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

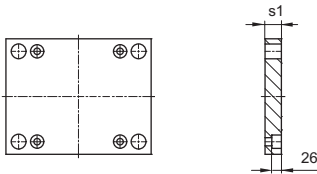
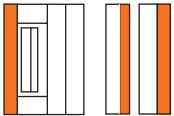
K 20 / 696 x 796 x 56 / 1.2085

K11



K11/696x796x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

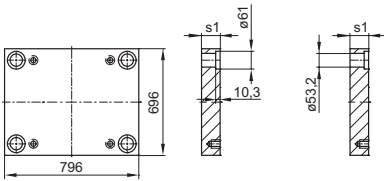
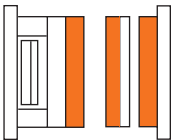
K16



K16/696x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

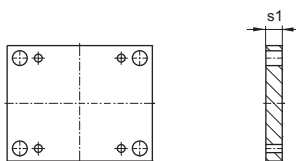
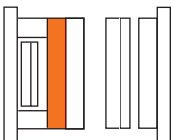
K20 K252

K20 ■ K252 ◆



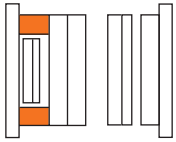
.../696x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30

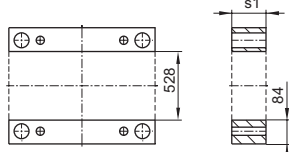


K30/696x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

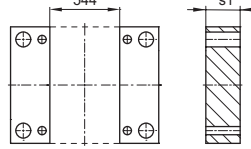
K40
K45
K42



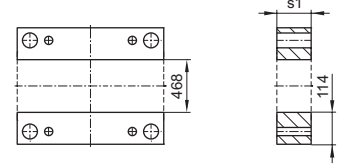
K40 ■



K45 ◆

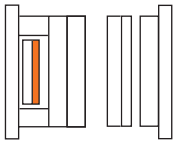


K42 ◇

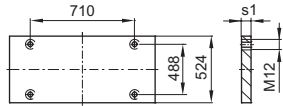


.../696x796 x s1/	1.1730	1.2085	1.2312	.../696x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■		

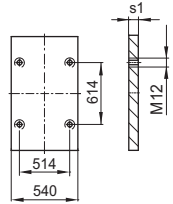
K60
K65
K62



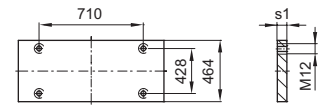
K60 ■



K65 ◆

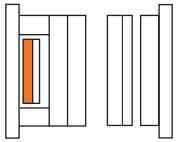


K62 ◇

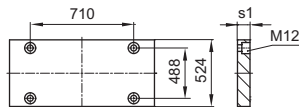


.../696x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

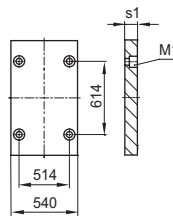
K70
K75
K72



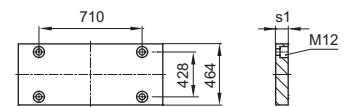
K70 ■



K75 ◆

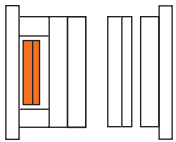


K72 ◇

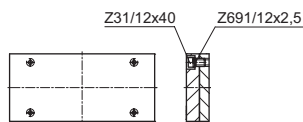


.../696x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

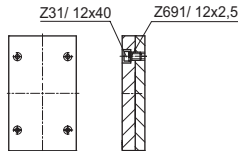
K60-70
K65-75
K62-72



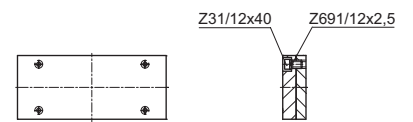
K60-70 ■



K65-75 ◆

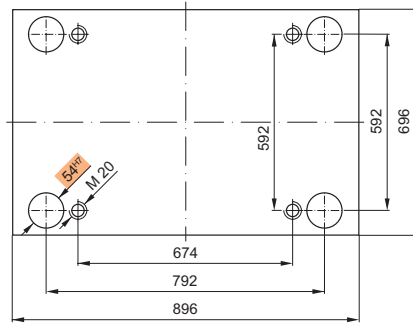


K62-72 ◇



.../696 x 796 /	1.1730	1.2085	K62-72/696x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

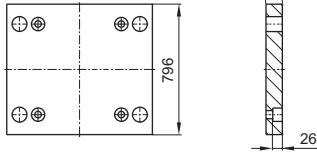
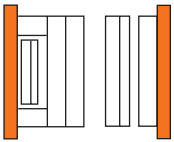
696x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

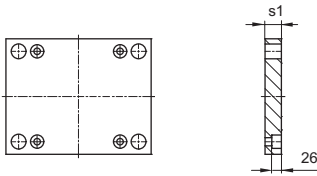
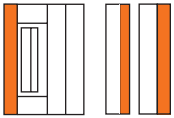
K20/696x896x56/1.2085

K11



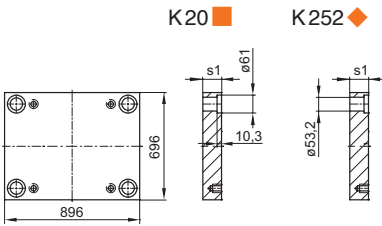
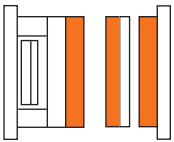
K11/696x896x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



K16/696x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

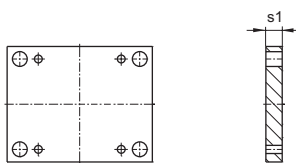
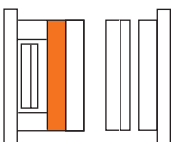
K20 K252



K20 ■ K252 ◆

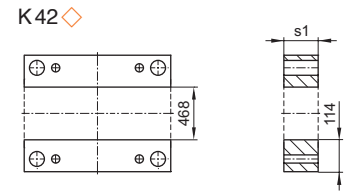
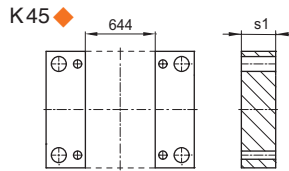
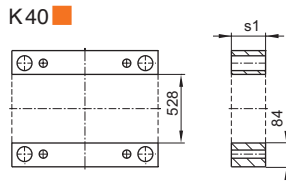
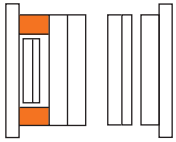
.../696x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30



K30/696x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

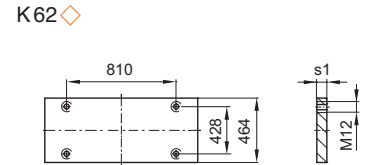
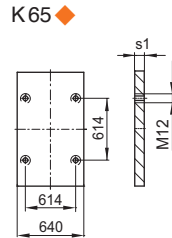
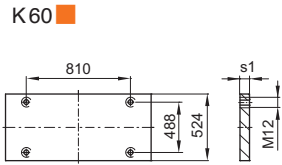
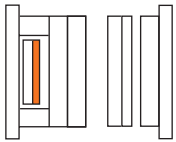
K40
K45
K42



.../696x896 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

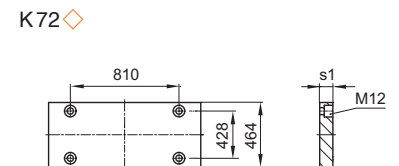
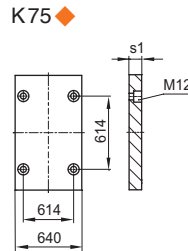
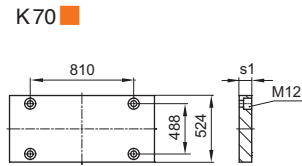
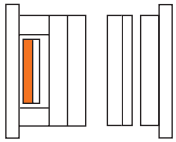
.../696x896 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

K60
K65
K62



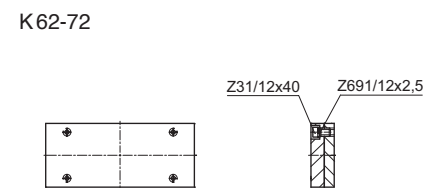
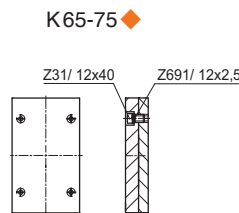
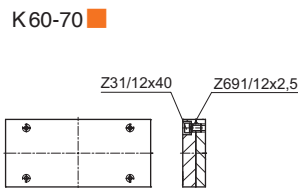
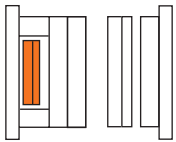
.../696x896 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

K70
K75
K72



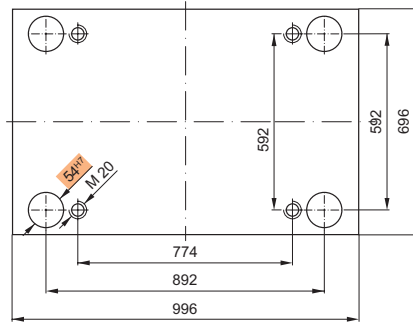
.../696x896 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

K60-70
K65-75
K62-72



.../696 x 896 /	1.1730	1.2085	K62-72/696x896/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

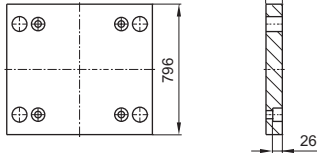
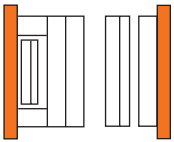
696x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

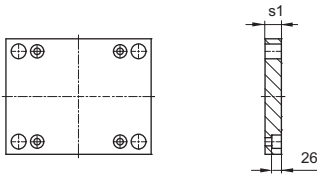
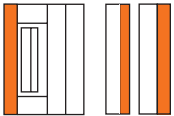
K20/696x996x56/1.2085

K11



K11/696x996x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

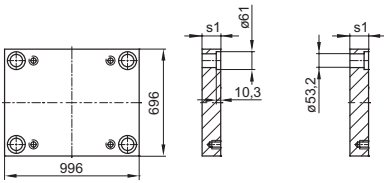
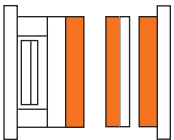
K16



K16/696x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

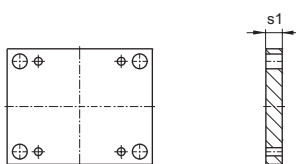
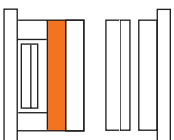
K20 K252

K20 ■ K252 ◆



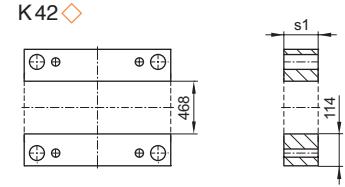
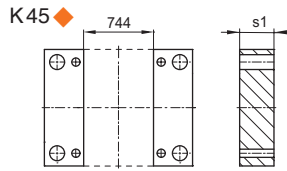
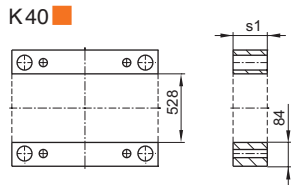
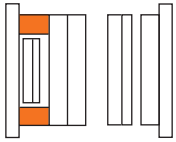
.../696x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36	■									
46	■				◆	◆	◆			■
56	■				◆	◆	◆			■
66	■				◆	◆	◆			■
76	■				◆	◆	◆			■
86	■				◆	◆	◆			■
96	■				◆	◆	◆			■
116	■				◆	◆	◆			■
136	■				◆	◆	◆			
156	■				◆	◆	◆			
176	■				◆	◆	◆			
196	■				◆	◆	◆			

K30



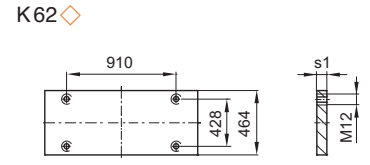
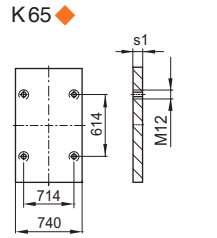
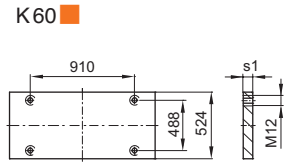
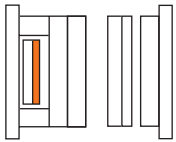
K30/696x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

K40
K45
K42



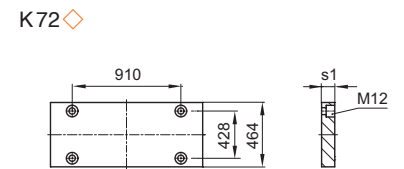
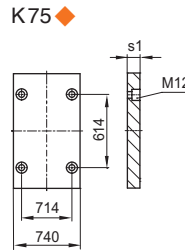
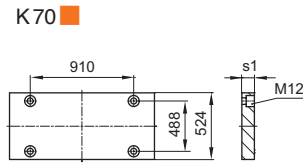
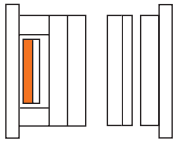
.../696x996 x s1/	1.1730	1.2085	1.2312	.../696x996 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

K60
K65
K62



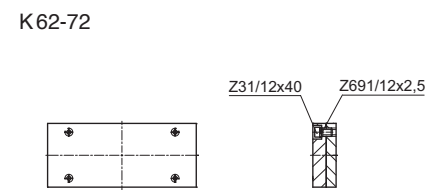
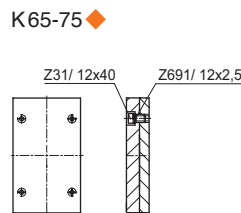
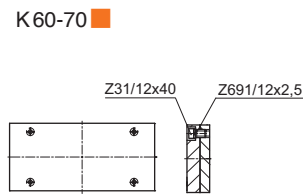
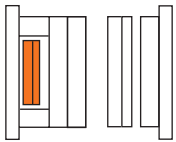
.../696x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

K70
K75
K72



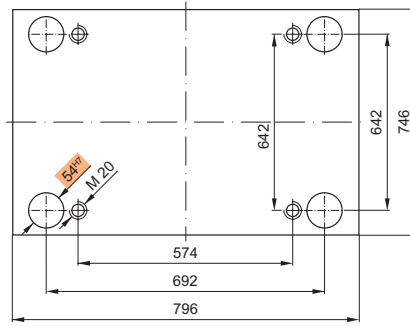
.../696x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

K60-70
K65-75
K62-72



.../696 x 996 /	1.1730	1.2085	K62-72/696x996/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

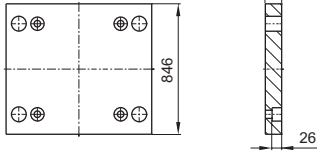
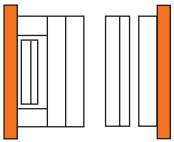
746x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

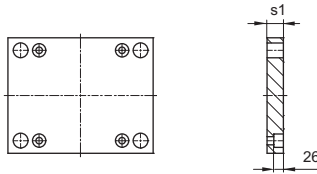
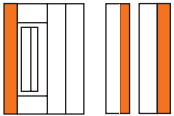
K 20 / 746x796x56 / 1.2085

K11



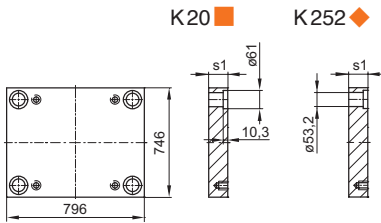
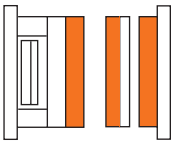
K11/746x796x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



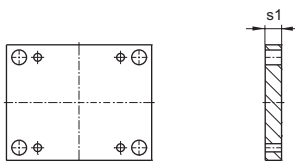
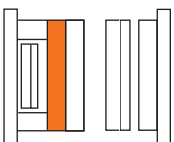
K16/746x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



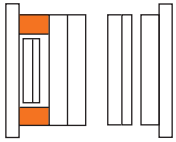
.../746x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

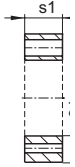
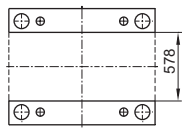


K30/746x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

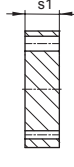
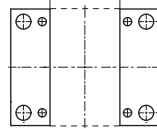
K40
K45
K42



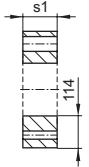
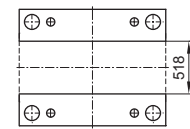
K40 ■



K45 ◆

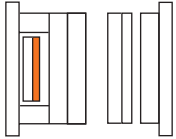


K42 ◇

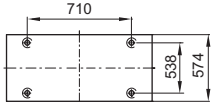


.../746x796 x s1/	1.1730	1.2085	1.2312	.../746x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆ ◇		

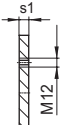
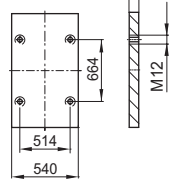
K60
K65
K62



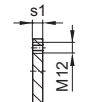
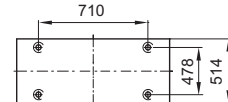
K60 ■



K65 ◆

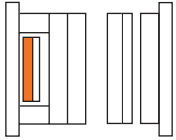


K62 ◇

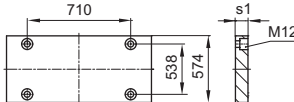


.../746x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

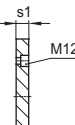
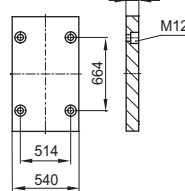
K70
K75
K72



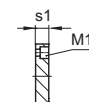
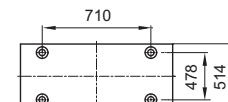
K70 ■



K75 ◆

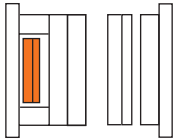


K72 ◇

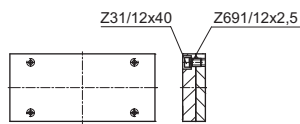


.../746x796 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

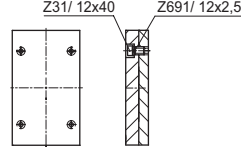
K60-70
K65-75
K62-72



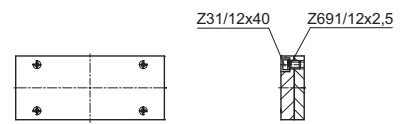
K60-70 ■



K65-75 ◆

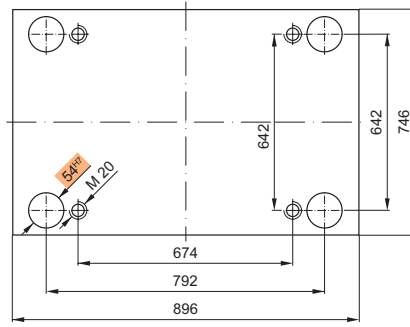


K62-72 ◇



.../746 x 796 /	1.1730	1.2085	K62-72/746x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

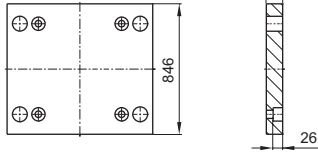
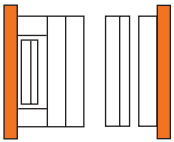
746x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

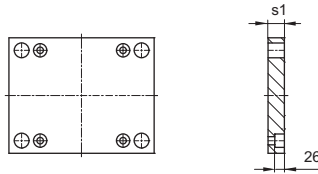
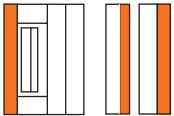
K20 / 746x896x56 / 1.2085

K11



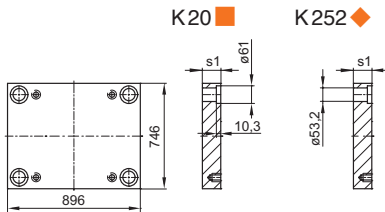
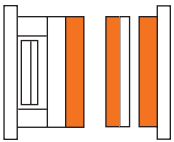
K11/746x896x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



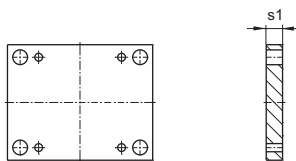
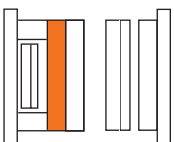
K16/746x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



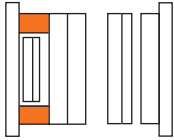
.../746x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

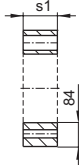
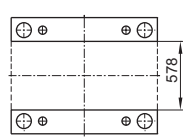


K30/746x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

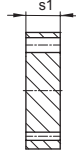
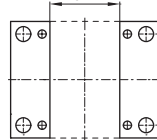
K40
K45
K42



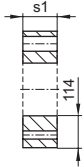
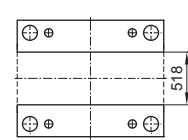
K40 ■



K45 ◆



K42 ◇



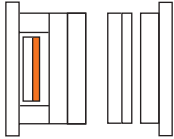
.../746x896 x s1/

	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

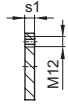
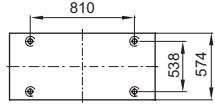
.../746x896 x s1/

	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

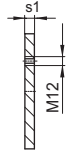
K60
K65
K62



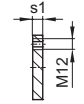
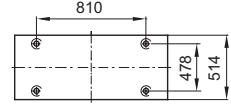
K60 ■



K65 ◆



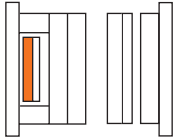
K62 ◇



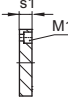
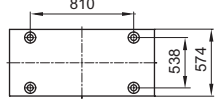
.../746x896 x s1/

	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

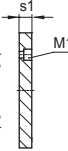
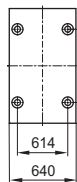
K70
K75
K72



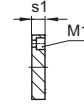
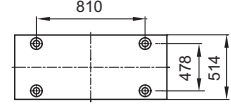
K70 ■



K75 ◆



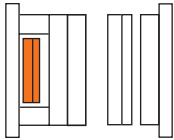
K72 ◇



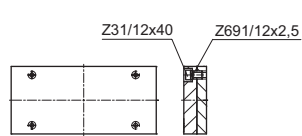
.../746x896 x s1/

	1.1730	1.2085	1.2312
36	■ ◆ ◇	■ ◆	■ ◆ ◇

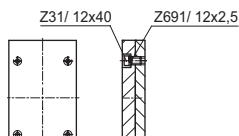
K60-70
K65-75
K62-72



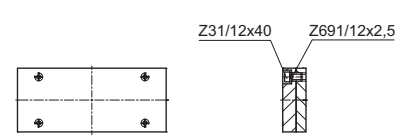
K60-70 ■



K65-75 ◆



K62-72 ◇



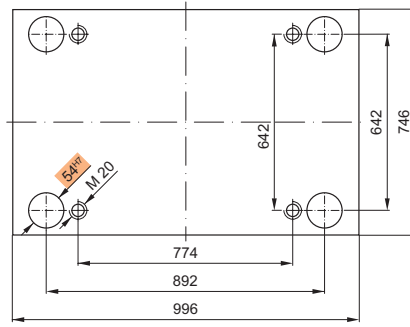
.../746x896 /

	1.1730	1.2085
	■ ◆	■ ◆

K62-72/746x896/Typ

	1.1730	1.2312
1	K62	K72
3	K62 K72	

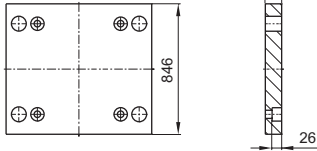
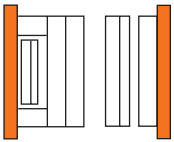
746x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

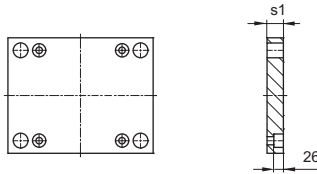
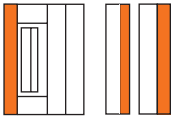
K20 / 746x996x56 / 1.2085

K11



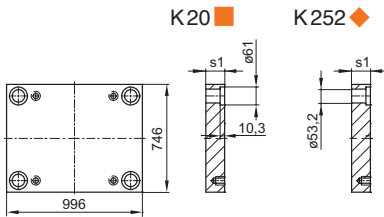
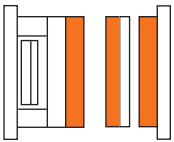
K11/746x996x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



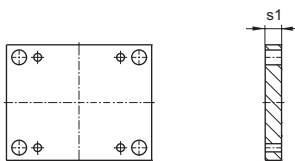
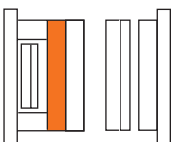
K16/746x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



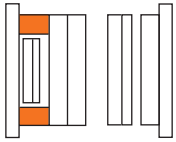
.../746x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

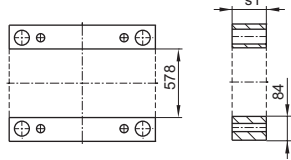


K30/746x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

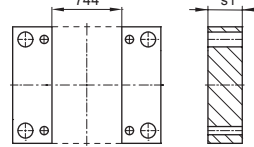
K40
K45
K42



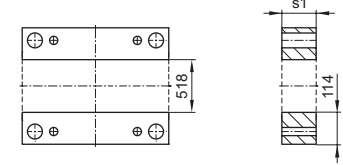
K40 ■



K45 ◆



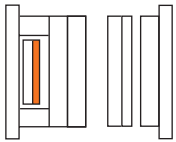
K42 ◇



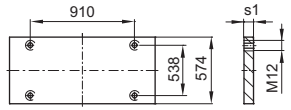
.../746x996 x s1/	1.1730	1.2085	1.2312
86	■ ◆		
96	■ ◆ ◆	■ ◆	
116	■ ◆ ◆	■ ◆	

.../746x996 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◆	■ ◆	
156	■ ◆ ◆	■ ◆	
176	■ ◆		

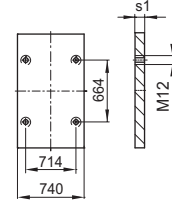
K60
K65
K62



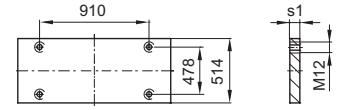
K60 ■



K65 ◆



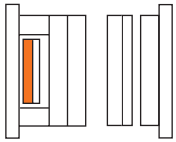
K62 ◇



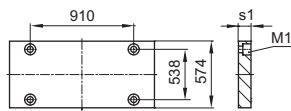
.../746x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	

.../746x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◆	■ ◆	

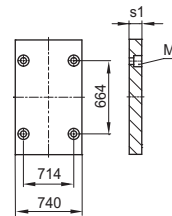
K70
K75
K72



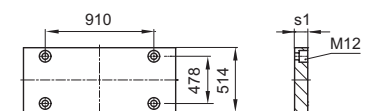
K70 ■



K75 ◆



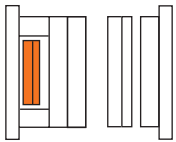
K72 ◇



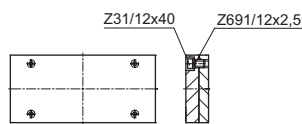
.../746x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◆	■ ◆	■ ◆ ◆

.../746x996 x s1/	1.1730	1.2085	1.2312
36	■ ◆ ◆	■ ◆	■ ◆ ◆

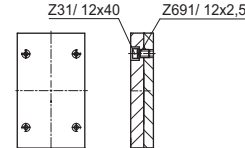
K60-70
K65-75
K62-72



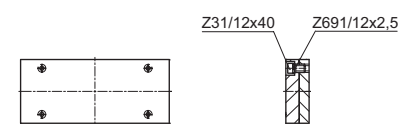
K60-70 ■



K65-75 ◆



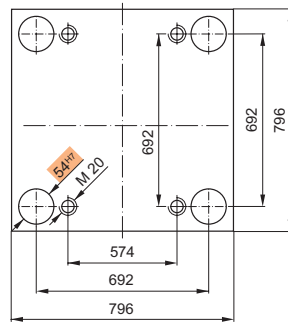
K62-72 ◇



.../746 x 996 /	1.1730	1.2085
	■ ◆	■ ◆

K62-72/746x996/Typ	1.1730	1.2312
1	K62	K72
3	K62 K72	

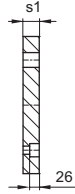
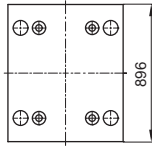
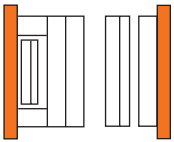
796x796



Bestellbeispiel:
Ordering example:
Exemple de commande:

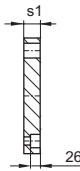
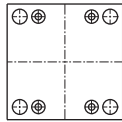
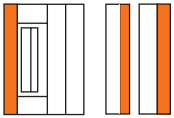
K 20 / 796x796x56 / 1.2085

K11



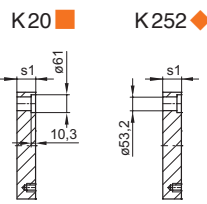
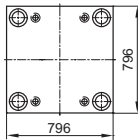
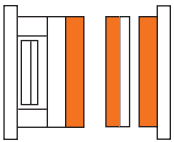
K11/796x796x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



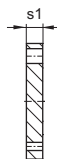
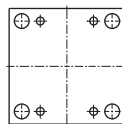
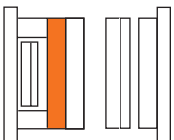
K16/796x796x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



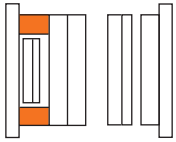
.../796x796 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
36							■			
46	■				■	■	■			■
56	■				■	■	■			■
66	■				■	■	■			■
76	■				■	■	■			■
86	■				■	■	■			■
96	■				■	■	■			■
116	■				■	■	■			■
136	■				■	■	■			
156	■				■	■	■			
176	■				■	■	■			
196	■				■	■	■			

K30

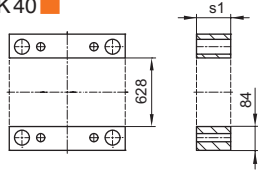


K30/796x796x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

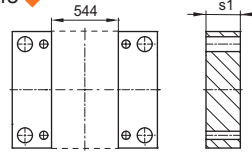
K40
K45
K42



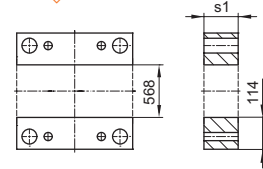
K40 ■



K45 ◆

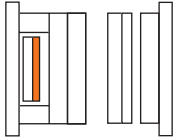


K42 ◇

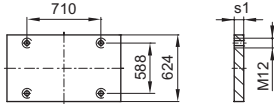


.../796x796 x s1/	1.1730	1.2085	1.2312	.../796x796 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇			136	■ ◆ ◇	■ ◆	
96	■ ◆ ◇	■ ◆		156	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆		176	■ ◆		

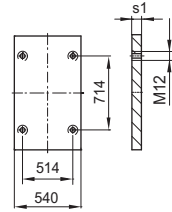
K60
K65
K62



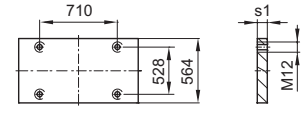
K60 ■



K65 ◆

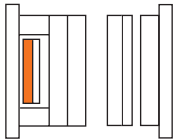


K62 ◇

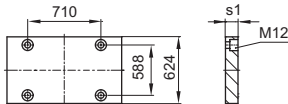


.../796x796 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

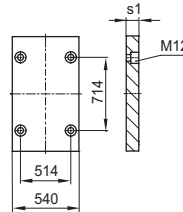
K70
K75
K72



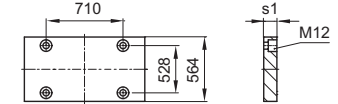
K70 ■



K75 ◆

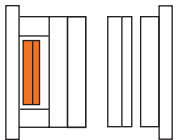


K72 ◇

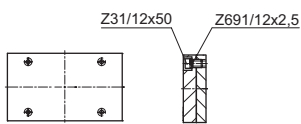


.../796x796 x s1/	1.1730	1.2085	1.2312
46	■ ◆ ◇	■ ◆	■ ◆ ◇

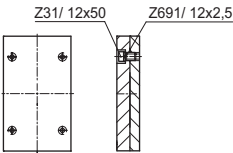
K60-70
K65-75
K62-72



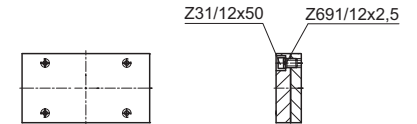
K60-70 ■



K65-75 ◆

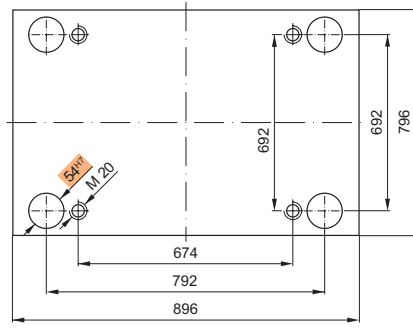


K62-72



.../796 x 796 /	1.1730	1.2085	K62-72/796x796/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	

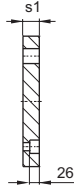
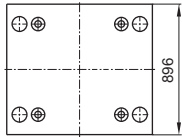
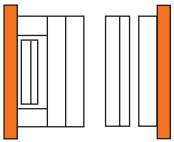
796x896



Bestellbeispiel:
Ordering example:
Exemple de commande:

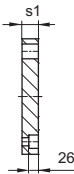
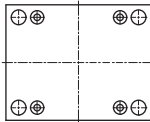
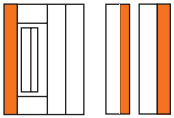
K 20 / 796x896x56 / 1.2085

K11



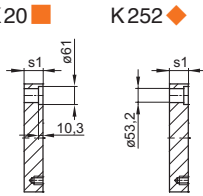
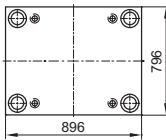
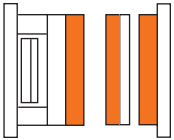
K11/796x896x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



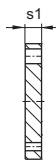
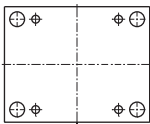
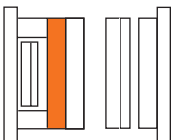
K16/796x896x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



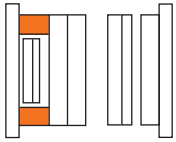
.../796x896 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30



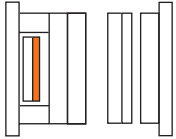
K30/796x896x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

K40
K45
K42



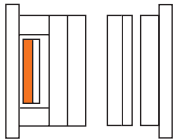
...	1.1730	1.2085	1.2312	...	1.1730	1.2085	1.2312
.../796x896 x s1/				.../796x896 x s1/			
86	■	◆		136	■	◆	
96	■	◆	■	156	■	◆	
116	■	◆	■	176	■	◆	

K60
K65
K62



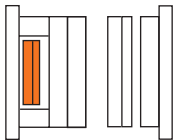
...	1.1730	1.2085	1.2312
.../796x896 x s1/			
27	■	◆	■

K70
K75
K72



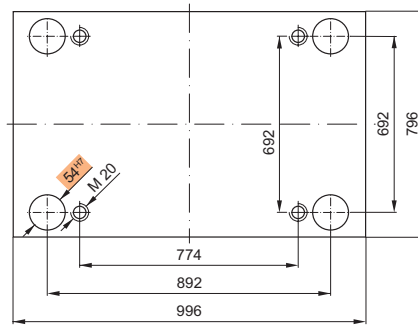
...	1.1730	1.2085	1.2312
.../796x896 x s1/			
46	■	◆	■

K60-70
K65-75
K62-72



...	1.1730	1.2085	1.1730	1.2312
.../796x896 /				
	■	◆		
			1	K62
			3	K62 K72

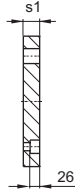
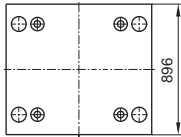
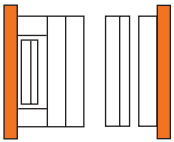
796x996



Bestellbeispiel:
Ordering example:
Exemple de commande:

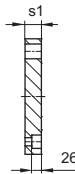
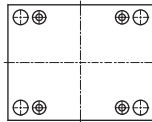
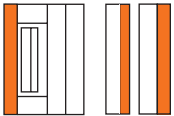
K 20 / 796x996x56 / 1.2085

K11



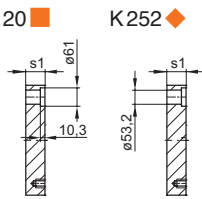
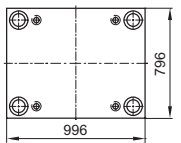
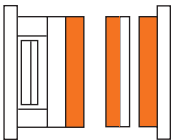
K11/796x996x s1 /	1.1730	1.2162	1.2085	1.2312
76	■		■	■

K16



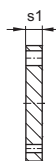
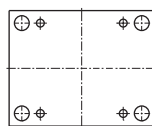
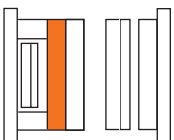
K16/796x996x s1 /	1.1730	1.2162	1.2085	1.2312
56	■		■	■

K20 K252



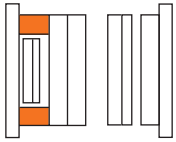
.../796x996 xs1/	1.1730	1.2162	1.2767	1.2083	1.2085	1.2311	1.2312	1.2343	1.2343 ESU/ESR	Toolox33
46	■				■◆	■◆	■◆			■
56	■				■◆	■◆	■◆			■
66	■				■◆	■◆	■◆			■
76	■				■◆	■◆	■◆			■
86	■				■◆	■◆	■◆			■
96	■				■◆	■◆	■◆			■
116	■				■◆	■◆	■◆			■
136	■				■◆	■◆	■◆			
156	■				■◆	■◆	■◆			
176	■				■◆	■◆	■◆			
196	■				■◆	■◆	■◆			

K30

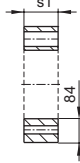
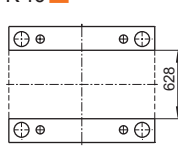


K30/796x996x s1 /	1.1730	1.2162	1.2085	1.2312
46	■			■
56	■		■	■
76	■		■	■
86	■			■
96	■			■

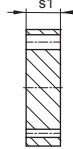
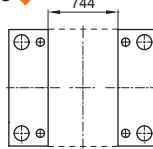
K40
K45
K42



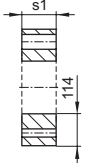
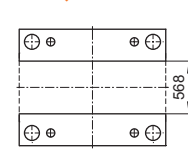
K40 ■



K45 ◆



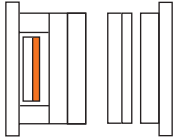
K42 ◇



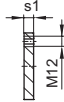
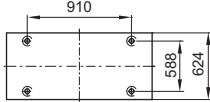
.../796x996 x s1/	1.1730	1.2085	1.2312
86	■ ◆ ◇		
96	■ ◆ ◇	■ ◆	
116	■ ◆ ◇	■ ◆	

.../796x996 x s1/	1.1730	1.2085	1.2312
136	■ ◆ ◇	■ ◆	
156	■ ◆ ◇	■ ◆	
176	■ ◆ ◇		

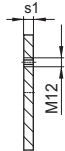
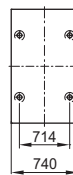
K60
K65
K62



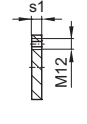
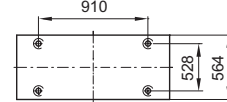
K60 ■



K65 ◆

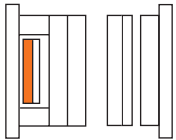


K62 ◇

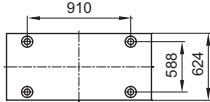


.../796x996 x s1/	1.1730	1.2085	1.2312
27	■ ◆ ◇	■ ◆	

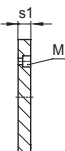
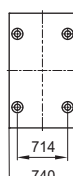
K70
K75
K72



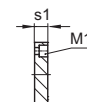
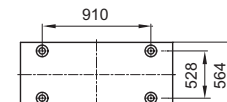
K70 ■



K75 ◆

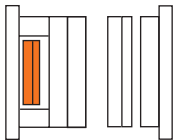


K72 ◇

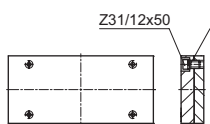


.../796x996 x s1/	1.1730	1.2085	1.2312
46	■ ◆ ◇	■ ◆	■ ◆ ◇

K60-70
K65-75
K62-72



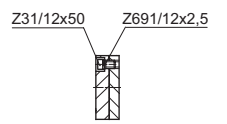
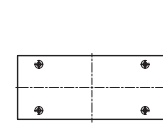
K60-70 ■



K65-75 ◆



K62-72 ◇



.../796x996 /	1.1730	1.2085	K62-72/796x996/Typ	1.1730	1.2312
	■ ◆	■ ◆	1	K62	K72
			3	K62 K72	



*Ermöglicherin für Verlässlichkeit
Enabler for reliability*

***Ich
produziere
Präzision.***

- Umfassende Fertigungskapazitäten in Europa
- High-End Zerspanung
- Modernste Maschinenteknik
- Garantierte Präzision
- Normalien- und Sonderfertigung

***I produce
precision.***

- Extensive production facilities across Europe
- High-end machining
- State of the art machine technology
- Guaranteed precision
- Standard and customised part production

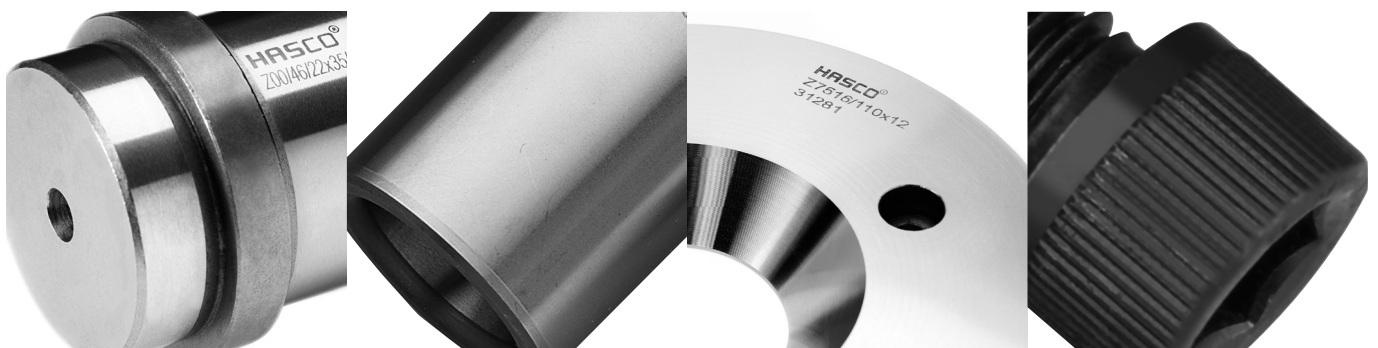
HASCO®

Ermöglichen mit System.

Z

Zubehör
Accessory
Accessoires

Zubehör für Werkzeugaufbauten
Components for mould base assemblies
Accessoires pour carcasses



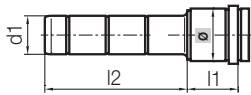
		Seite page
Ø 14	mit System-Ø 14 mm with system-diameter 14 mm en diamètre 14 mm	224
Ø 20	mit System-Ø 20 mm with system-diameter 20 mm en diamètre 20 mm	225
Ø 26	mit System-Ø 26 mm with system-diameter 26 mm en diamètre 26 mm	228
Ø 30	mit System-Ø 30 mm with system-diameter 30 mm en diamètre 30 mm	231
Ø 42	mit System-Ø 42 mm with system-diameter 42 mm en diamètre 42 mm	235
Ø 54	mit System-Ø 54 mm with system-diameter 54 mm en diamètre 54 mm	239
	Zentrierflansche Z 7511 – Z 7535 Locating rings Z 7511 – Z 7535 Rondelles de centrage Z 7511 – Z 7535	242

System-Ø (eckige Platten)
 System-diameters (angular plates)
 Diamètres du système (plaques angulaires)

b1 \ l1	095	130	156	196	246	296	346	396	446	496	546	596	646	696	796	896	996
095	Ø 14																
100		Ø 14															
156					Ø 20												
190					Ø 26												
196				Ø 26													
218					Ø 26												
246																	
296							Ø 30										
346																	
396																	
446																	
496																	
546																	
596																	
646																	
696																	
746																	
796																	

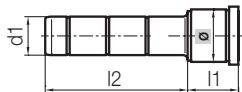


Z00/...



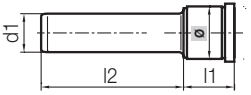
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 9x 9x20	... 9x10x20
35	35
50	50
... 12x 9x25	.../12x10x25
45	45
65	65
... 17x 9x20	... 17x10x20
30	30
50	... 17x10x 50
70	70
... 22x 9x25	... 22x10x 25
35	35
55	55
75	75
95	95
... 27x 9x20	... 27x10x 20
30	30
50	50
70	70
90	90
... 36x 9x25	... 36x10x 25
45	45
65	65
85	85
... 46x 9x30	... 46x10x 30
45	45
70	70
... 56x 9x35	... 56x10x 35
60	60
... 66x 9x45	... 66x10x 45

Z03/...



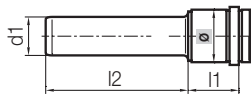
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 9x 9x20	... 9x10x20
35	35
50	50
... 12x 9x25	... 12x10x25
45	45
65	65
... 17x 9x20	... 17x10x20
30	30
... 22x 9x25	... 22x10x25
35	35
55	55
... 27x 9x30	... 27x10x30
50	50
... 36x 9x25	... 36x10x25
45	45
... 46x 9x30	... 46x10x30
45	45
75	75
... 56x 9x35	... 56x10x 35
60	60
... 66x 9x45	... 66x10x 45

Z031/...



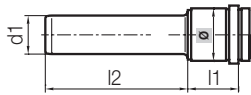
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 22x30x 75	... 22x32x 75
... 27x30x 45	... 27x32x 45
65	65
105	105
165	165
... 36x30x 55	... 36x32x 55
75	75
95	95
115	115
155	155
... 46x30x 45	... 46x32x 45
65	65
85	85
105	105
125	125
165	165
... 56x30x 55	... 56x32x 55
75	75
95	95
115	115
135	135
175	175

Z04/...



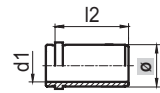
Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 22x 9x25	... 22x10x25
35	35
... 27x 9x30	... 27x10x30
50	50
... 36x 9x25	... 36x10x25
45	45
... 46x 9x45	... 46x10x45
... 56x 9x60	... 56x10x60
... 66x 9x45	... 66x10x45

Z040/...



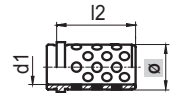
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 22x 9x25	... 22x10x25
35	35
... 27x 9x30	... 27x10x30
50	50
... 36x 9x25	... 36x10x25
45	45
... 46x 9x45	... 46x10x45
... 56x 9x60	... 56x10x60
... 66x 9x45	... 66x10x45

Z10/...



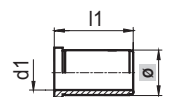
Z10/ l2xd1	Z10/ l2xd1
... 9x 9	... 9x10
12	12
17	17
22	22
27	27
36	36
46	46
56	56
66	66

Z1000W/...



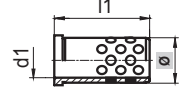
Z1000W/ l2xd1	Z1000W/ l2xd1
... 12x 9	... 12x10
17	17
22	22
27	27
36	36
46	46
56	56
66	66

Z11/...



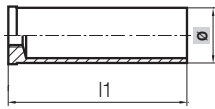
Z11/ l1xd1	Z11/ l1xd1
... 9x 9	... 9x10
12	12
17	17
22	22
27	27
36	36
46	46
56	56
66	66

Z1100W/...



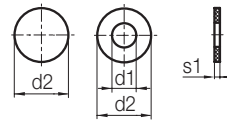
Z1100W/ l1xd1	Z11/ l1xd1
... 12x 9	... 12x10
17	17
22	22
27	27
36	36
46	46
56	56

Z20/...



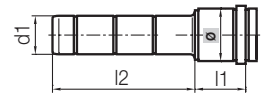
Z20/ d3x11	Z20/ d3x11
... 14x20	... 14x60
30	70
40	80
50	100

Z121/...



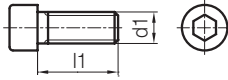
Z121/ d1xs1	Z121/ d2xs1xd1
...095x3	...095x3x22
...116x3	...156x3x90
...156x3	5x90
5	

Z00/...



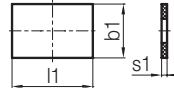
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 17x14x 35	... 17x15x 35
55	55
75	75
95	95
... 22x14x 30	... 22x15x 30
50	50
70	70
90	90
110	110
125	125
150	150
... 27x14x 30	... 27x15x 30
45	45
65	65
85	85
105	105
125	125
145	145
165	165
... 36x14x 35	... 36x15x 35
55	55
75	75
95	95
125	125
155	155
... 46x14x 35	... 46x15x 35
45	45
65	65
85	85
105	105
125	125
145	145
... 56x14x 35	... 56x15x 35
55	55
75	75
95	95
135	135
... 66x14x 55	... 66x15x 55
65	65
95	95
125	125
... 76x14x 55	... 76x15x 55
95	95
... 86x14x 55	... 86x15x 55
95	95
... 96x14x 55	... 96x15x 55
95	95
... 116x14x 75	... 116x15x 75

Z31/...



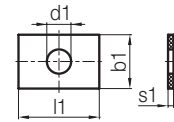
Z31/ d1x11	Z31/ d1x11
...6x 8	...6x 55
10	60
12	65
14	70
16	75
18	80
20	90
22	100
25	110
30	120
35	140
40	160
45	

Z1212/...



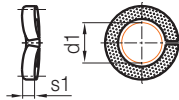
Z1212/ b1x11xs1
...095x095x5
...100x130x5
...156x156x5

Z1213/...



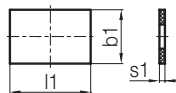
Z1213/ b1x11xs1xd1
...095x095x5x22
...100x130x5x22
...156x156x5x90

Z691/...



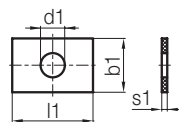
Z691/ d1xs1
...6x1,6

Z121/...



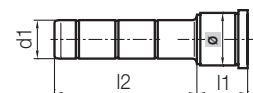
Z121/ b1x11xs1
...095x095x3
5
...100x130x3
5
...156x156x3
5

Z121/...



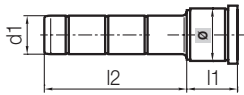
Z121/ b1x11xs1xd1
...095x095x3x22
5
...100x130x3x22
5
...156x156x3x90
5

Z03/...



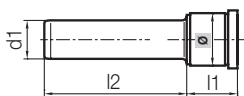
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 17x14x 35	... 17x15x 35
55	55
75	75
95	95

Z03/...



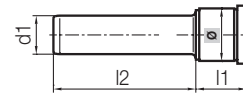
Z03/ l1xd1xl2	Z03/ l1xd1xl2	Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 22x14x 20	... 22x15x 20		
	35		
Ø	40	Ø	40
	45		45
	50		50
	55		55
	65		65
	70		70
	90		90
	110		110
... 27x14x 20	... 27x15x 20		
	35		35
	40		40
	45		45
	55		55
	65		65
	85		85
	105		105
... 36x14x 20	... 36x15x 20		
	35		35
	40		40
	45		45
	55		55
	65		65
	75		75
	95		95
... 46x14x 20	... 46x15x 20		
	35		35
	45		45
	65		65
	85		85
	105		105
... 56x14x 20	... 56x15x 20		
	35		35
	55		55
	75		75
	95		95
... 66x14x 55	... 66x15x 55		
	65		65
	95		95
... 76x14x 55	... 76x15x 55		
	95		95
... 86x14x 55	... 86x15x 55		
	95		95
... 96x14x 55	... 96x15x 55		
	95		95
... 116x14x 75	... 116x15x 75		

Z031/...



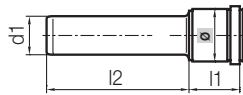
Z031/ l1xd1xl2	Z031/ l1xd1xl2	Z031/ l1xd1xl2	Z031/ l1xd1xl2
...17x14x 35	...17x15x 35		
	55		55
Ø	...22x14x 20	Ø	...22x15x 20
	35		35
	45		45

Z031/...



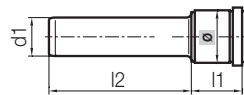
Z031/ l1xd1xl2	Z031/ l1xd1xl2	Z031/ l1xd1xl2	Z031/ l1xd1xl2
...22x14x 55	...22x15x 55		
	65		65
Ø	70	Ø	70
	90		90
...27x14x 20	...27x15x 20		
	35		35
	45		45
	55		55
	65		65
	85		85
	105		105
...36x14x 20	...36x15x 20		
	35		35
	45		45
	55		55
	65		65
	75		75
	95		95
... 46x14x 20	... 46x15x 20		
	35		35
	45		45
	65		65
	85		85
	105		105
... 56x14x 20	... 56x15x 20		
	35		35
	55		55
	75		75
	95		95
... 66x14x 55	... 66x15x 55		
	95		95
... 76x14x 55	... 76x15x 55		
	95		95
... 86x14x 55	... 86x15x 55		
	95		95

Z04/...



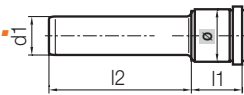
Z04/ l1xd1xl2	Z04/ l1xd1xl2	Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 22x14x30	... 22x15x30		
	50		50
Ø	70	Ø	70
	90		90
... 27x14x30	... 27x15x30		
	45		45
	65		65
	85		85
... 36x14x35	... 36x15x35		
	55		55
	75		75
	95		95
... 46x14x35	... 46x15x35		
	45		45
	65		65
	85		85
... 56x14x35	... 56x15x35		

Z04/...



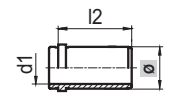
Z04/ l1xd1xl2	Z04/ l1xd1xl2	Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 56x14x55	... 56x15x55		
	75		75
Ø	95	Ø	95
... 66x14x55	... 66x15x55		
	65		65
	95		95
... 76x14x55	... 76x15x55		
	95		95
... 86x14x55	... 86x15x55		
	95		95

Z040/...



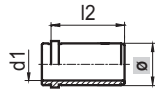
Z040/ l1xd1xl2	Z040/ l1xd1xl2	Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 22x14x30	... 22x15x30		
	50		50
Ø	70	Ø	70
	90		90
... 27x14x30	... 27x15x30		
	45		45
	65		65
	85		85
... 36x14x35	... 36x15x35		
	55		55
	75		75
	95		95
... 46x14x35	... 46x15x35		
	45		45
	65		65
	85		85
... 56x14x35	... 56x15x35		
	55		55
	75		75
	95		95
... 66x14x55	... 66x15x55		
	65		65
	95		95
... 76x14x55	... 76x15x55		
	95		95
... 86x14x55	... 86x15x55		
	95		95

Z10/...



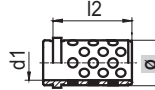
Z10/ l2xd1	Z10/ l2xd1	Z10/ l2xd1	Z10/ l2xd1
... 12x14	... 12x15		
	17		17
Ø	22	Ø	22
	27		27
	36		36
	46		46
	56		56
	66		66
	76		76

Z10/...



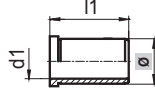
Z10/ l2xd1	Z10/ l2xd1
... 86x14	... 86x15
96	96

Z1000W/...



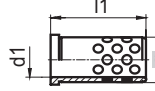
Z1000W/ l2xd1	Z1000W/ l2xd1
... 17x14	... 17x15
22	22
27	27
36	36
46	46
56	56
66	66
76	76
86	86

Z11/...



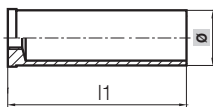
Z11/ l1xd1	Z11/ l1xd1
... 12x14	... 12x15
17	17
22	22
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116

Z1100W/...



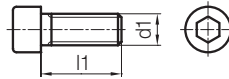
Z1100W/ l1xd1	Z11/ l1xd1
... 17x14	... 17x15
22	22
27	27
36	36
46	46
56	56

Z20/...



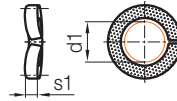
Z20/ d3xl1	Z20/ d3xl1
... 20x 30	... 20x100
40	120
50	140
60	160
80	

Z31/...



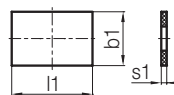
Z31/ d1xl1	Z31/ d1xl1
... 6x12	... 10x 18
... 8x10	20
12	22
14	25
16	30
18	35
20	40
22	45
25	50
30	55
35	60
40	65
45	70
50	75
55	80
60	85
65	90
70	95
75	100
80	105
85	110
90	115
95	120
100	130
105	135
110	140
115	150
120	160
130	170
140	180
150	190
160	200
180	210
200	220
... 10x 10	240
12	260
14	280
16	

Z691/...



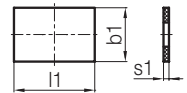
Z691/ d1xs1
... 6x1,6
... 8x2
... 10x2,5

Z121/...



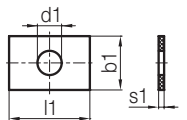
Z121/ b1xl1xs1
... 156x 156x3
5
196x3
5
246x3
5

Z121/...



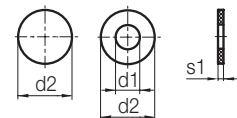
Z121/ b1xl1xs1
... 156x296x5
346x5
396x5
... 196x 196x3
5
246x3
5
296x5
7
346x5
7
... 206x 156x3
5
196x3
5

Z121/...



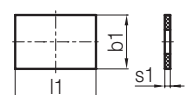
Z121/ b1xl1xs1xd1
... 156x296x5x90
346x5x90
396x5x90
... 196x 196x3x90
5
246x3x90
5
296x5x90
7
346x5x90
7
... 206x 156x3x90
5
196x3x90
5

Z121/...



Z121/ d1xs1	Z121/ d2xs1xd1
... 116x3	... 156x3x90
156x3	5
5	196x5x90
196x5	

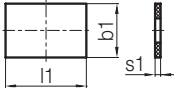
Z1212/...



Z1212/ b1xl1xs1
... 156x 156x5
196x5
246x5
296x5
346x5
396x5

Ø 20

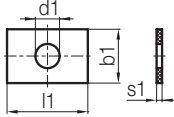
Z 1212/...



Z 1212/ b1x l1xs1

... 196x246x5
296x7
... 206x156x7
196

Z 1213/...

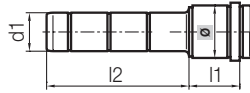


Z 1212/ b1x l1xs1xd1

... 156x156x5x90
196x5x90
246x5x90
296x5x90
346x5x90
396x5x90
... 196x246x5x90
296x7x90
... 206x156x7x90
196

Ø 26

Z 00/...



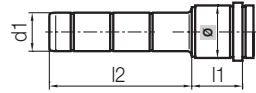
Z 00/ l1xd1xl2

... 17x18x 35
55
Ø 75
95
120
... 22x18x 35
45
65
85
115
135
... 27x18x 35
45
65
85
105
125
145
165
195
225
245
... 36x18x 35
55
75
95
115
135
165
225
255
... 46x18x 35
45
65
... 46x18x 85
105
135
165
245
... 56x18x 35
55
75
95
135
155
... 66x18x 35
55
75
95
145
... 76x18x 55
75
95
135
... 86x18x 55
75
95
125

Z 00/ l1xd1xl2

... 17x20x 35
55
Ø 75
95
120
... 22x20x 35
45
65
85
115
135
... 27x20x 35
45
65
85
105
125
145
165
195
225
245
... 36x20x 35
55
75
95
115
135
165
225
255
... 46x20x 35
45
65
... 46x18x 85
105
135
165
245
... 56x18x 35
55
75
95
135
155
... 66x20x 35
55
75
95
145
... 76x20x 55
75
95
135
... 86x20x 55
75
95
155

Z 00/...



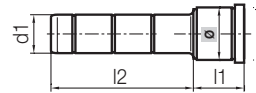
Z 00/ l1xd1xl2

... 96x18x 55
75
Ø 95
115
135
... 116x18x 75
115
... 136x18x135

Z 00/ l1xd1xl2

... 96x20x 55
75
Ø 95
115
135
... 116x20x 75
115
... 136x20x135

Z 03/...



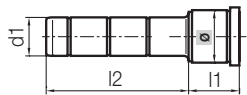
Z 03/ l1xd1xl2

... 17x18x 35
55
Ø 75
95
... 22x18x 20
35
40
45
50
55
60
65
... 22x18x 70
80
85
115
... 27x18x 20
35
40
45
50
55
60
65
70
80
85
105
125
155
... 36x18x 20
35
40
45
50
55
60
65
70
75
80
95
115

Z 03/ l1xd1xl2

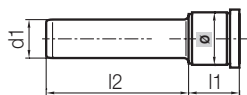
... 17x20x 35
55
Ø 75
95
... 22x20x 20
35
40
45
50
55
60
65
... 22x20x 70
80
85
115
... 27x20x 20
35
40
45
50
55
60
65
70
80
85
105
125
155
... 36x20x 20
35
40
45
50
55
60
65
70
75
80
95
115

Z03/...



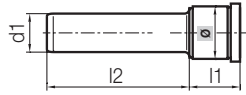
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 36x18x135	... 36x20x135
155	155
... 46x18x 20	... 46x20x 20
45	45
Ø 65	Ø 65
85	85
105	105
135	135
... 46x18x165	... 46x20x165
... 56x18x 20	... 56x20x 20
35	35
55	55
75	75
95	95
... 66x18x 55	... 66x20x 55
75	75
95	95
... 76x18x 55	... 76x20x 55
75	75
95	95
... 86x18x 55	... 86x20x 55
75	75
95	95
... 96x18x 55	... 96x20x 55
95	95
... 116x18x115	... 116x20x115
... 136x18x135	... 136x20x135

Z031/...



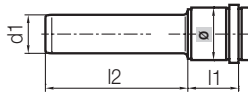
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 17x18x 75	... 17x20x 75
... 22x18x 20	... 22x20x 20
35	35
45	45
Ø 55	Ø 55
65	65
70	70
80	80
85	85
115	115
... 27x18x 20	... 27x20x 20
35	35
45	45
50	50
55	55
60	60
65	65
70	70
80	80
85	85
105	105
125	125
... 36x18x 20	... 36x20x 20
35	35
45	45

Z031/...



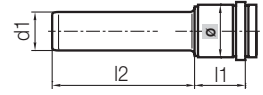
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 36x18x 50	... 36x20x 50
55	55
Ø 60	Ø 60
65	65
70	70
75	75
80	80
95	95
115	115
135	135
... 46x18x 20	... 46x20x 20
45	45
65	65
85	85
105	105
135	135
165	165
... 56x18x 20	... 56x20x 20
35	35
55	55
75	75
95	95
... 66x18x 55	... 66x20x 55
75	75
95	95
... 76x18x 55	... 76x20x 55
75	75
95	95
... 86x18x 55	... 86x20x 55
95	95
... 96x18x 55	... 96x20x 55
95	95

Z04/...



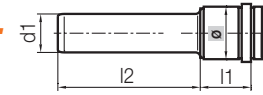
Z04/ l1xd1xl2	Z04/ l1xd1xl2
... /27x18x 35	... /27x20x 35
45	45
Ø 65	Ø 65
85	85
105	105
... 36x18x 35	... 36x20x 35
55	55
75	75
95	95
115	115
135	135
... 46x18x 35	... 46x20x 35
45	45
65	65
85	85
135	135
56x18x 35	56x20x 35
55	55
... 56x18x 75	... 56x20x 75
... 66x18x 55	... 66x20x 55

Z04/...



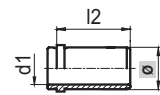
Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 66x18x 75	... 66x20x 75
95	95
Ø 145	Ø 145
... 76x18x 55	... 76x20x 55
95	95
135	135
... 86x18x 55	... 86x20x 55
95	95
125	125
... 96x18x 95	... 96x20x 95
... 116x18x115	... 116x20x115

Z040/...



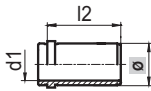
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 27x18x 35	... 27x20x 35
45	45
Ø 65	Ø 65
85	85
105	105
... 36x18x 35	... 36x20x 35
55	55
75	75
95	95
115	115
135	135
... 46x18x 35	... 46x20x 35
45	45
65	65
85	85
135	135
... 56x18x 75	... 56x20x 75
... 66x18x 55	... 66x20x 55
75	75
95	95
145	145
... 76x18x 55	... 76x20x 55
95	95
135	135
... 86x18x 55	... 86x20x 55
95	95
125	125
... 96x18x 95	... 96x20x 95
... 116x18x115	... 116x20x115

Z10/...



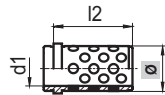
Z10/ l2xd1	Z10/ l2xd1
... 17x18	... 17x20
22	22
Ø 27	Ø 27
36	36
46	46
56	56

Z 10/...



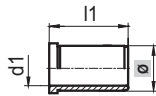
Z 10/ l2xd1	Z 10/ l2xd1
... 66x18	... 66x20
Ø 76	Ø 76
86	86
96	96
116	116
136	136

Z 1000W/...



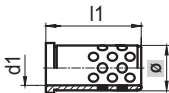
Z 1000W/ l2xd1	Z 1000W/ l2xd1
... 17x18	... 17x20
Ø 22	Ø 22
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116

Z 11/...



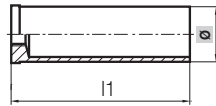
Z 11/ l1xd1	Z 11/ l1xd1
... 17x18	... 17x20
Ø 22	Ø 22
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116
136	136

Z 1100W/...



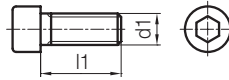
Z 1100W/ l1xd1	Z 1100W/ l1xd1
... 17x18	... 17x20
Ø 22	Ø 22
27	27
36	36
46	46
56	56
66	66
76	76

Z 20/...



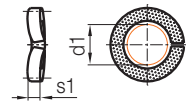
Z 20/ d3xl1	Z 20/ d3xl1
... 26x 30	... 26x100
40	120
50	140
60	160
80	180

Z 31/...



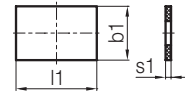
Z 31/ d1xl1	Z 31/ d1xl1
... 8x 16	... 12x 25
... 10x 10	30
12	35
14	40
16	45
18	50
20	55
22	60
25	65
... 10x 30	70
35	75
40	80
45	85
50	90
55	95
60	100
65	105
70	110
75	115
80	120
85	130
90	135
95	140
100	145
105	150
110	160
115	165
120	170
130	180
135	190
140	200
150	210
160	220
170	230
180	240
190	250
200	260
210	270
220	280
240	300
260	320
280	340
... 12x 12	
14	
16	
18	
20	

Z 691/...



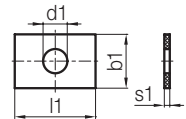
Z 691/ d1xs1
... 8x2
... 10x2,5
... 12x2,5

Z 121/...



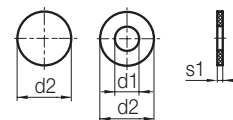
Z 121/ b1xl1xs1
... 190x246x3
5
296x5
... 196x196x3
5
246x3
5
296x5
7
... 218x246x5
296x5
... 254x246x5
7
... 276x246x5

Z 121/...



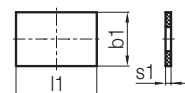
Z 121/ b1xl1xs1xd1
... 190x246x3x90
5
296x5x90
... 196x196x3x90
5
246x3x90
5
296x5x90
7
... 218x246x5x90
296x5x90
... 254x246x5x90
7
... 276x246x5x90

Z 121/...



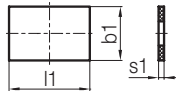
Z 121/ d1xs1	Z 121/ d2xs1xd1
... 246x5	... 246x5x90

Z 1212/...



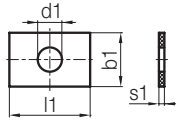
Z 121/ b1xl1xs1
... 190x246x5
296x5

Z1212/...



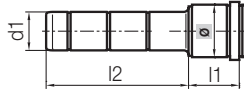
Z1212/ b1xl1xs1
... 196x 196x5
246x5
296x7
... 218x 246x7
296x7
... 254x 246x8,5
... 276x 246x8,5

Z1213/...



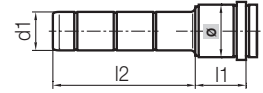
Z1213/ b1xl1xs1xd1
... 190x 246x5 x90
296x5 x90
... 196x 196x5 x90
246x5 x90
296x7 x90
... 218x 246x7 x90
296x7 x90
... 254x 246x8,5x90
... 276x 246x8,5x90

Z00/...



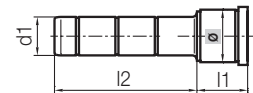
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 17x22x 35	... 17x24x 35
55	55
75	75
... 22x22x 35	... 22x24x 35
55	55
75	75
95	95
105	105
130	130
... 27x22x 35	... 27x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
205	205
245	245
285	285
... 46x22x 35	... 46x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
205	205
245	245
285	285
... 56x22x 35	... 56x24x 35
55	55
75	75
95	95
115	115
165	165
205	205
... 66x22x 35	... 66x24x 35
55	55
75	75
95	95
125	125
155	155
195	195
... 76x22x 55	... 76x24x 55
75	75
95	95
115	115
145	145
... 86x22x 55	... 86x24x 55

Z00/...



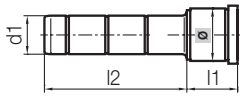
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 86x22x 75	... 86x24x 75
95	95
115	115
135	135
155	155
195	195
... 96x22x 55	... 96x24x 55
75	75
95	95
125	125
155	155
195	195
... 116x22x 75	... 116x24x 75
95	95
115	115
135	135
155	155
195	195
... 136x22x 95	... 136x24x 95
115	115
135	135
155	155
... 156x22x115	... 156x24x115
155	155

Z03/...



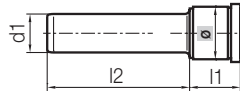
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 17x22x 35	... 17x24x 35
55	55
75	75
... 22x22x 35	... 22x24x 35
55	55
75	75
105	105
130	130
... 27x22x 25	... 27x24x 25
45	45
50	50
60	60
65	65
70	70
80	80
85	85
105	105
125	125
165	165
... 36x22x 25	... 36x24x 25
45	45
50	50
55	55
60	60
70	70
75	75
80	80
95	95

Z03/...



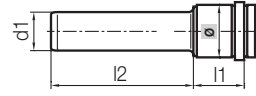
Z03/ l1xd1xI2	Z03/ l1xd1xI2
... 36x22x 115	... 36x24x 115
135	135
165	165
195	195
... 46x22x 25	... 46x22x 25
45	45
50	50
60	60
65	65
70	70
80	80
85	85
105	105
115	115
125	125
165	165
195	195
... 56x22x 25	... 56x22x 25
45	45
55	55
75	75
95	95
115	115
165	165
195	195
... 66x22x 55	... 66x22x 55
75	75
95	95
... 76x22x 25	... 76x22x 25
45	45
55	55
75	75
95	95
115	115
... 86x22x 55	... 86x22x 55
75	75
95	95
55	55
75	75
... 96x22x 95	... 96x22x 95
115	115
135	135
155	155
... 116x22x 75	... 116x22x 75
115	115
155	155
... 136x22x 135	... 136x22x 135
... 156x22x 155	... 156x22x 155

Z031/...



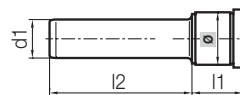
Z031/ l1xd1xI2	Z031/ l1xd1xI2
... 22x22x 55	... 22x24x 55
75	75
... 27x22x 25	... 27x22x 25
45	45
50	50
65	65
70	70
85	85
105	105
125	125
165	165
... 36x22x 25	... 36x22x 25
45	45
55	55
70	70
75	75
80	80
95	95
115	115
135	135
165	165
... 46x22x 25	... 46x22x 25
45	45
50	50
60	60
65	65
70	70
85	85
105	105
125	125
165	165
... 56x22x 25	... 56x22x 25
45	45
55	55
75	75
95	95
115	115
165	165
... 66x22x 55	... 66x22x 55
75	75
95	95
... 76x22x 45	... 76x22x 45
55	55
75	75
95	95
115	115
... 86x22x 55	... 86x22x 55
75	75
95	95
... 96x22x 55	... 96x22x 55
75	75
95	95
... 116x22x 75	... 116x22x 75
115	115
155	155
... 136x22x 135	... 136x22x 135
... 156x22x 155	... 156x22x 155

Z04/...



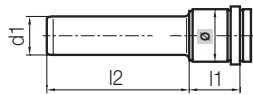
Z04/ l1xd1xI2	Z04/ l1xd1xI2
... 27x22x 35	... 27x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
205	205
... 36x22x 35	... 36x24x 35
55	55
75	75
95	95
115	115
135	135
165	165
205	205
... 27x22x 35	... 46x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
205	205
... 36x22x 35	... 36x24x 35
55	55
75	75
95	95
115	115
135	135
165	165
205	205
... 46x22x 35	... 46x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
... 56x22x 35	... 56x24x 35
55	55
75	75
95	95
115	115
165	165
205	205
... 66x22x 35	... 66x24x 35
55	55
75	75
95	95
115	115
165	165
205	205
... 76x22x 55	... 76x24x 55
75	75
95	95
115	115
165	165
205	205
... 86x22x 55	... 86x24x 55

Z031/...



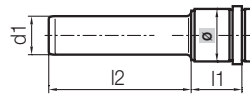
Z031/ l1xd1xI2	Z031/ l1xd1xI2
... 17x22x 35	... 17x24x 35
55	55
... 22x22x 35	... 22x24x 35

Z04/...



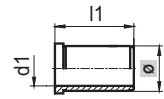
Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 86x22x 75	... 86x24x 75
95	95
135	135
... 96x22x 55	... 96x24x 55
75	75
95	95
125	125
... 116x22x 75	... 116x24x 75
115	115
155	155
... 136x22x135	... 136x24x135
... 156x22x155	... 156x24x155

Z040/...



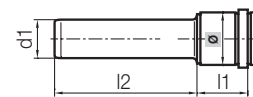
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 86x22x 55	... 86x24x 55
75	75
95	95
115	115
135	135
... 96x22x 55	... 96x24x 55
75	75
95	95
125	125
... 116x22x 75	... 116x24x 75
115	115
155	155
... 136x22x135	... 136x24x135
... 156x22x155	... 156x24x155

Z11/...



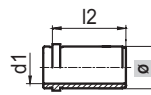
Z11/ l1xd1	Z11/ l1xd1
... 17x22	... 17x24
22	22
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116
136	136
156	156

Z040/...



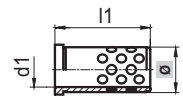
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 27x22x 35	... 27x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
205	205
... 36x22x 35	... 36x24x 35
55	55
75	75
95	95
115	115
135	135
165	165
205	205
... 46x22x 35	... 46x24x 35
45	45
65	65
85	85
105	105
125	125
165	165
... 56x22x 35	... 56x24x 35
55	55
75	75
95	95
115	115
165	165
205	205
... 66x22x 35	... 66x24x 35
55	55
75	75
95	95
155	155
... 76x22x 55	... 76x24x 55
75	75
95	95
115	115
145	145

Z10/...



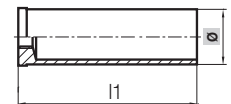
Z10/ l2xd1	Z10/ l2xd1
... 17x22	... 17x24
22	22
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116
136	136
156	156

Z1100W/...



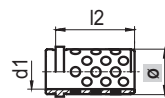
Z1100W/ l1xd1	Z1100W/ l1xd1
...22x22	...22x24
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96

Z20/...



Z20/ d3xl1	Z20/ d3xl1
...30x 40	...30x140
50	160
60	180
80	200
100	220
120	240

Z1000W/...



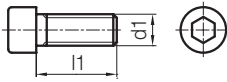
Z1000W/ l2xd1	Z1000W/ l2xd1
... 22x22	... 22x24
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116
136	136
156	156

Z31/...



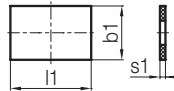
Z31/ d1xl1	Z31/ d1xl1
... 8x 16	... 12x 50
25	55
... 12x 12	60
14	65
16	70
18	80
20	85
25	90
30	95
35	100
40	105
45	110

Z31/...



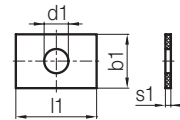
Z31/ d1xl1	Z31/ d1xl1
... 12x 115	... 12x 210
120	220
130	230
135	240
140	250
145	260
150	270
160	280
165	300
170	320
180	340
190	
200	

Z 121/...



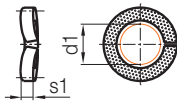
Z 121/ b1xl1xs1
... 296x 446x7
496x8,5
546x8,5
596x8,5
... 346x 346x7
8,5
... 346x 396x7
8,5
446x8,5
496x7
8,5
546x8,5
596x8,5

Z 121/...



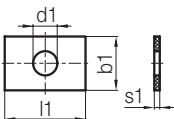
Z 121/ b1xl1xs1xd1
... 346x 446x8,5x90
496x7 x90
8,5
546x8,5x90
596x8,5x90

Z691/...



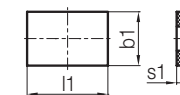
Z691/ d1xs1
... 8x2
... 12x2,5

Z 121/...



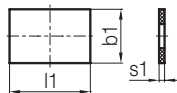
Z 121/ b1xl1xs1xd1
... 156x 346x5 x90
396x5 x90
... 196x 296x5 x90
7
346x5 x90
7
396x7 x90
446x7 x90
496x7 x90
546x7 x90
... 218x 296x5 x90
396x7 x90
... 246x 246x5 x90
7
296x5 x90
7
346x5 x90
7
396x5 x90
446x7 x90
496x8,5x90
546x8,5x90
596x8,5x90
... 276x 296x7
... 296x 296x7
296x8,5x90
346x7 x90
8,5
396x7 x90
8,5
446x7 x90
496x8,5x90
546x8,5x90
596x8,5x90
... 346x 346x7 x90
8,5
... 346x 396x7 x90
8,5

Z 1212/...



Z 1212/ b1xl1xs1
... 156x 346x5
... 196x 296x7
... 196x 296x5
346x7
396x7
446x7
496x7
546x7
... 218x 296x7
396x7
... 246x 246x7
296x7
346x7
396x7
446x7
496x8,5
546x8,5
596x8,5
... 276x 296x8,5
... 296x 296x8,5
346x8,5
396x8,5
446x8,5
496x8,5
546x8,5
596x8,5
... 346x 346x8,5
396x8,5
446x8,5
496x8,5
546x8,5
596x8,5

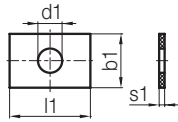
Z 121/...



Z 121/ b1xl1xs1
... 156x 346x5
396x5
... 196x 296x5
7
346x5
7
396x7
446x7
496x7
546x7
... 218x 296x5
396x7
... 246x 246x5
7
296x5
7
346x5
7
396x5
446x7
496x8,5
546x8,5
596x8,5
... 276x 296x7
... 296x 296x7
296x8,5
346x7
8,5
396x7
8,5

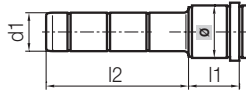
Ø42

Z1213/...



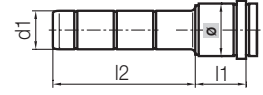
Z1213/ b1xl1xs1xd1
... 156x 346x5 x90
... 196x 296x7 x90
296x5 x90
346x7 x90
396x7 x90
446x7 x90
496x7 x90
546x7 x90
... 218x 296x7 x90
396x7 x90
... 246x 246x7 x90
296x7 x90
... 246x 346x7 x90
396x7 x90
446x7 x90
496x8,5x90
546x8,5x90
596x8,5x90
... 276x 296x8,5x90
... 296x 296x8,5x90
346x8,5x90
396x8,5x90
446x8,5x90
496x8,5x90
546x8,5x90
596x8,5x90
696x8,5x90
... 346x 346x8,5x90
396x8,5x90
446x8,5x90
496x8,5x90
546x8,5x90
596x8,5x90

Z00/...



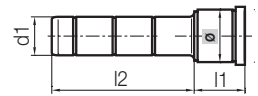
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 22x30x 35	... 22x32x 35
75	75
Ø 130	Ø 130
... 27x30x 45	... 27x32x 45
65	65
105	105
165	165
185	185
245	245
285	285
... 36x30x 55	... 36x32x 55
75	75
95	95
115	115
155	155
205	205
245	245
285	285
... 46x30x 45	... 46x32x 45
65	65
85	85
105	105
125	125
165	165
205	205
245	245
285	285
... 56x30x 55	... 56x32x 55
75	75
95	95
115	115
135	135
175	175
205	205
245	245
295	295
... 66x30x 55	... 66x32x 55
75	75
95	95
115	115
135	135
175	175
245	245
295	295
... 76x30x 55	... 76x32x 55
75	75
95	95
115	115
155	155
225	225
... 86x30x 55	... 86x32x 55
75	75
95	95
115	115
155	155
195	195

Z00/...



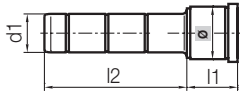
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 86x30x225	... 86x32x225
... 96x30x 55	... 96x32x 55
75	75
95	95
Ø 115	Ø 115
155	155
175	175
205	205
... 116x30x 75	... 116x32x 75
95	95
115	115
155	155
195	195
... 136x30x 95	... 136x32x 95
115	115
155	155
195	195
... 156x30x 95	... 156x32x 95
115	115
155	155
175	175
... 196x30x115	... 196x32x115
155	155
195	195

Z03/...



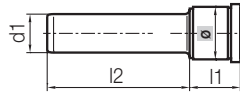
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 22x30x 35	... 22x32x 35
75	75
130	130
... 27x30x 45	... 27x32x 45
65	65
Ø 105	Ø 105
165	165
... 36x30x 55	... 36x32x 55
75	75
95	95
115	115
155	155
... 46x30x 45	... 46x32x 45
65	65
85	85
105	105
125	125
165	165
195	195
... 56x30x 55	... 56x32x 55
75	75
95	95
115	115
135	135
175	175
195	195
... 66x30x 55	... 66x32x 55

Z03/...



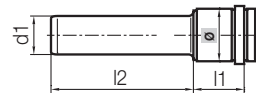
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 66x30x 75	... 66x32x 75
95	95
115	115
135	135
175	175
195	195
... 76x30x 55	... 76x32x 55
75	75
95	95
115	115
155	155
195	195
... 86x30x 55	... 86x32x 55
75	75
95	95
115	115
155	155
195	195
... 96x30x 55	... 96x32x 55
75	75
95	95
115	115
155	155
195	195
... 116x30x 75	... 116x32x 75
95	95
115	115
155	155
... 136x30x 95	... 136x32x 95
115	115
155	155
... 156x30x 115	... 156x32x 115
155	155
... 176x30x 135	... 176x32x 135
175	175
... 196x30x 155	... 196x32x 155
195	195

Z031/...



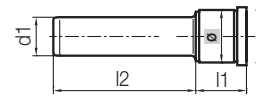
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 56x30x 55	... 56x32x 55
75	75
95	95
115	115
135	135
175	175
... 66x30x 55	... 66x32x 55
75	75
95	95
115	115
135	135
175	175
... 76x30x 55	... 76x32x 55
75	75
95	95
115	115
155	155
195	195
... 86x30x 55	... 86x32x 55
75	75
95	95
115	115
155	155
195	195
... 96x30x 55	... 96x32x 55
75	75
95	95
115	115
155	155
195	195
... 116x30x 75	... 116x32x 75
115	115
155	155
195	195
... 136x30x 95	... 136x32x 95
155	155
195	195
... 156x30x 115	... 156x32x 115
155	155
195	195
... 176x30x 135	... 176x32x 135
175	175
... 196x30x 155	... 196x32x 155
195	195

Z04/...



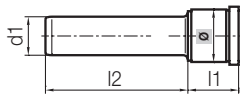
Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 56x30x 135	... 56x32x 135
175	175
245	245
... 66x30x 55	... 66x32x 55
75	75
95	95
115	115
175	175
295	295
... 76x30x 55	... 76x32x 55
75	75
95	95
115	115
155	155
225	225
... 86x30x 75	... 86x32x 75
95	95
115	115
155	155
225	225
... 96x30x 75	... 96x32x 75
95	95
115	115
155	155
205	205
... 116x30x 75	... 116x32x 75
115	115
155	155
... 136x30x 95	... 136x32x 95
115	115
155	155
... 156x30x 115	... 156x32x 115
155	155
... 196x30x 155	... 196x32x 155

Z031/...



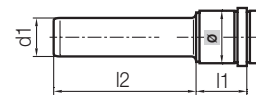
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 22x30x 75	... 22x32x 75
... 27x30x 45	... 27x32x 45
65	65
105	105
165	165
... 36x30x 55	... 36x32x 55
75	75
95	95
115	115
155	155
... 46x30x 45	... 46x32x 45
65	65
85	85
105	105
125	125
165	165

Z04/...



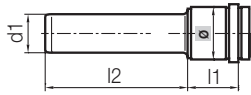
Z04/ l1xd1xl2	Z04/ l1xd1xl2
... 36x30x 55	... 36x32x 55
75	75
155	155
245	245
... 46x30x 65	... 46x32x 65
85	85
105	105
125	125
165	165
245	245
... 56x30x 55	... 56x32x 55
75	75
95	95

Z040/...



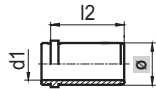
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 36x30x 55	... 36x32x 55
75	75
115	115
155	155
245	245
... 46x30x 65	... 46x32x 65
85	85
105	105
125	125
165	165
245	245
... 56x30x 55	... 56x32x 55
75	75
95	95
135	135
175	175
245	245
... 66x30x 55	... 66x32x 55

Z040/...



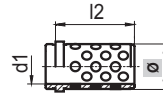
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 66x30x 75	... 66x32x 75
95	95
115	115
175	175
295	295
... 76x30x 55	... 76x32x 55
75	75
95	95
115	115
155	155
225	225
... 86x30x 75	... 86x32x 75
95	95
115	115
155	155
195	195
225	225
... 96x30x 75	... 96x32x 75
95	95
115	115
155	155
205	205
... 116x30x 75	... 116x32x 75
115	115
155	155
... 136x30x 95	... 136x32x 95
115	115
155	155
... 156x30x115	... 156x32x 115
155	155
... 196x30x155	... 196x32x 155

Z10/...



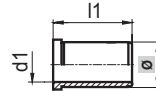
Z10/ l2xd1	Z10/ l2xd1
... 22x30	... 22x32
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116
136	136
156	156
176	176
196	196

Z1000W/...



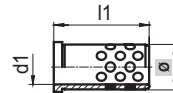
Z1000W/ l2xd1	Z1000W/ l2xd1
... 46x30	... 46x32
56	56
66	66
76	76
86	86
96	96
116	116
136	136
156	156

Z11/...



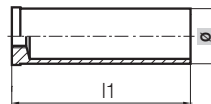
Z11/ l1xd1	Z11/ l1xd1
... 22x30	... 22x32
27	27
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116
136	136
156	156
176	176
196	196

Z1100W/...



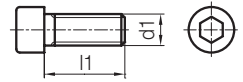
Z1100W/ l1xd1	Z1100W/ l1xd1
... 27x30	... 27x32
36	36
46	46
56	56
66	66
76	76
86	86
96	96
116	116

Z20/...



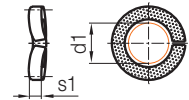
Z20/ d3xl1	Z20/ d3xl1
... 42 x 40	... 42 x 180
60	200
80	220
100	260
120	280
140	300
160	

Z31/...



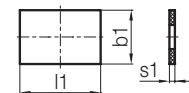
Z31/ d1xl1	Z31/ d1xl1
... 10x 25	... 16x140
30	150
40	160
... 16x 20	170
22	180
25	190
30	200
35	210
40	220
45	230
50	240
55	250
60	260
65	280
70	300
75	320
80	340
90	360
100	380
110	400
120	420
130	

Z691/...



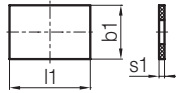
Z691/ d1xs1
... 10x2,5
... 16x3,5

Z121/...



Z121/ b1xl1xs1
... 296x 646x 8,5
696x 8,5
... 346x 396x 7
8,5
446x 8,5
496x 7
8,5
546x 8,5
596x 8,5
696x 8,5
646x 8,5
796x 8,5
... 396x 396x 7
8,5
446x 7
8,5
496x 8,5
546x 7
8,5
596x 8,5
646x 8,5

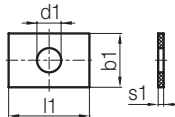
Z 121/...



Z 121/ b1xl1xs1

- ... 396 x 696 x 8,5
- 796 x 8,5
- ... 396 x 896 x 8,5
- ... 446 x 446 x 8,5
- 546 x 8,5
- 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- 896 x 8,5
- ... 496 x 646 x 8,5
- ... 546 x 546 x 8,5
- 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- 896 x 8,5
- 996 x 8,5
- ... 596 x 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- 896 x 8,5
- 996 x 8,5
- ... 646 x 646 x 8,5
- 696 x 8,5

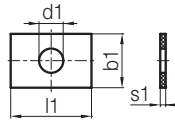
Z 121/...



Z 121/ b1xl1xs1xd1

- ... 296 x 646 x 8,5 x 90
- 696 x 8,5 x 90
- ... 346 x 396 x 7 x 90
- 8,5
- 446 x 8,5 x 90
- 496 x 7 x 90
- 8,5
- 546 x 8,5 x 90
- 596 x 8,5 x 90
- 696 x 8,5 x 90
- 646 x 8,5 x 90
- 796 x 8,5 x 90
- ... 396 x 396 x 7 x 90
- 8,5
- 446 x 7 x 90
- 8,5
- 496 x 8,5 x 90
- 546 x 7 x 90
- 8,5
- 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90
- ... 396 x 896 x 8,5 x 90
- ... 446 x 446 x 8,5 x 90
- 546 x 8,5 x 90

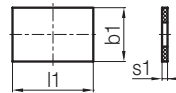
Z 121/...



Z 121/ b1xl1xs1xd1

- ... 446 x 596 x 8,5 x 90
- 646 x 8,5 x 90
- ... 446 x 696 x 8,5 x 90
- 796 x 8,5 x 90
- 896 x 8,5 x 90
- ... 496 x 646 x 8,5 x 90
- ... 546 x 546 x 8,5 x 90
- 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90
- 896 x 8,5 x 90
- 996 x 8,5 x 90
- ... 596 x 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90
- 896 x 8,5 x 90
- 996 x 8,5 x 90
- ... 646 x 646 x 8,5 x 90
- 696 x 8,5 x 90

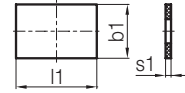
Z 1212/...



Z 1212/ b1xl1xs1

- ... 296 x 646 x 8,5
- ... 346 x 346 x 8,5
- 396 x 8,5
- 446 x 8,5
- 496 x 8,5
- 546 x 8,5
- 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- ... 396 x 396 x 8,5
- 446 x 8,5
- 496 x 8,5
- 546 x 8,5
- 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- ... 446 x 446 x 8,5
- 496 x 8,5
- 546 x 8,5
- 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- 896 x 8,5
- ... 496 x 496 x 8,5
- 546 x 8,5
- 596 x 8,5
- 646 x 8,5

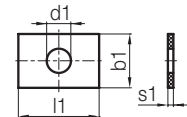
Z 1212/...



Z 1212/ b1xl1xs1

- ... 496 x 696 x 8,5
- 796 x 8,5
- ... 496 x 896 x 8,5
- 996 x 8,5
- ... 546 x 546 x 8,5
- 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- 796 x 8,5
- 896 x 8,5
- 996 x 8,5
- ... 596 x 596 x 8,5
- 646 x 8,5
- 696 x 8,5
- ... 596 x 796 x 8,5
- 896 x 8,5
- 996 x 8,5
- ... 646 x 646 x 8,5
- 696 x 8,5

Z 1213/...

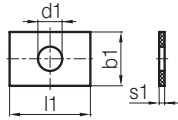


Z 1213/ b1xl1xs1xd1

- ... 296 x 646 x 8,5 x 90
- ... 346 x 346 x 8,5 x 90
- 396 x 8,5 x 90
- 446 x 8,5 x 90
- 496 x 8,5 x 90
- 546 x 8,5 x 90
- 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90
- ... 396 x 396 x 8,5 x 90
- 446 x 8,5 x 90
- 496 x 8,5 x 90
- 546 x 8,5 x 90
- 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90
- 896 x 8,5 x 90
- ... 446 x 446 x 8,5 x 90
- 496 x 8,5 x 90
- 546 x 8,5 x 90
- 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90
- 896 x 8,5 x 90
- ... 496 x 496 x 8,5 x 90
- 546 x 8,5 x 90
- 596 x 8,5 x 90
- 646 x 8,5 x 90
- 696 x 8,5 x 90
- 796 x 8,5 x 90

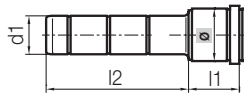
Ø54

Z1213/...



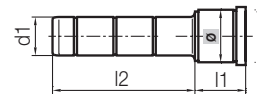
Z1213/ b1x l1xs1xd1
... 496x 896x 8,5x90
996x 8,5x90
... 546x 546x 8,5x90
596x 8,5x90
646x 8,5x90
696x 8,5x90
796x 8,5x90
896x 8,5x90
996x 8,5x90
... 596x 596x 8,5x90
646x 8,5x90
696x 8,5x90
... 596x 796x 8,5x90
896x 8,5x90
996x 8,5x90
... 646x 646x 8,5x90
696x 8,5x90

Z00/...



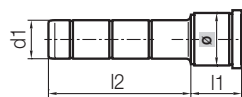
Z00/ l1xd1xl2	Z00/ l1xd1xl2
... 36x40x 75	... 36x42x 75
135	135
... 46x40x 95	... 46x42x 95
165	165
... 56x40x 75	... 56x42x 75
115	115
Ø 155	Ø 155
195	195
... 66x40x 75	... 66x42x 75
135	135
... 76x40x 75	... 76x42x 75
95	95
115	115
135	135
175	175
... 86x40x 75	... 86x42x 75
135	135
... 96x40x 75	... 96x42x 75
95	95
115	115
155	155
195	195
... 116x40x 95	... 116x42x 95
115	115
135	135
155	155
195	195
... 136x40x 95	... 136x42x 95
115	115
135	135
155	155
195	195
215	215
... 156x40x 115	... 156x42x 115
155	155
215	215
... 176x40x 135	... 176x42x 135
155	155
175	175
... 196x40x 115	... 196x42x 115
155	155
195	195
235	235
... 246x40x 165	... 246x42x 165
215	215
245	245

Z03/...



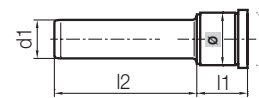
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 56x40x 155	... 56x42x 155
195	195
... 66x40x 75	... 66x42x 75
135	135
... 76x40x 75	... 76x42x 75
115	115
Ø 175	Ø 175
... 86x40x 75	... 86x42x 75
135	135
... 96x40x 75	... 96x42x 75
115	115
155	155
... 116x40x 95	... 116x42x 95
115	115
135	135
195	195
... 136x40x 95	... 136x42x 95
115	115
135	135
215	215
156x40x 115	156x42x 115
155	155
195	195
215	215
176x40x 135	176x42x 135
155	155
175	175
196x40x 155	196x42x 155
195	195
235	235
... 136x40x 115	... 136x40x 115
135	135
215	215
156x40x 115	156x42x 115
155	155
195	195
215	215
176x40x 135	176x42x 135
155	155
175	175
196x40x 155	196x42x 155
195	195
235	235

Z03/...



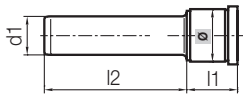
Z03/ l1xd1xl2	Z03/ l1xd1xl2
... 36x40x 75	... 36x42x 75
135	135
... 46x40x 95	... 46x42x 95
Ø 165	Ø 165
... 56x40x 75	... 56x42x 75
115	115

Z031/...



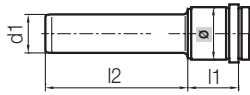
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 36x40x 75	... 36x42x 75
... 46x40x 95	... 46x42x 95
... 56x40x 75	... 56x42x 75
115	115
Ø 155	Ø 155
195	195
... 66x40x 75	... 66x42x 75
135	135
... 76x40x 115	... 76x42x 115

Z031/...



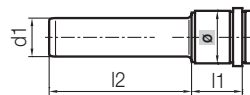
Z031/ l1xd1xl2	Z031/ l1xd1xl2
... 76x40x175	... 76x42x175
... 86x40x 75	... 86x42x 75
135	135
... 96x40x 75	... 96x42x 75
Ø 115	Ø 115
155	155
... 116x40x 95	... 116x42x 95
135	135
195	195
... 136x40x 95	... 136x42x 95
135	135
215	215
... 156x40x115	... 156x42x115
155	155
215	215
... 176x40x135	... 176x42x135
175	175
... 196x40x155	... 196x42x155
195	195
235	235

Z04/...



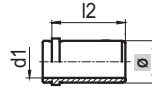
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 76x40x115	... 76x42x115
... 96x40x155	... 96x42x155
... 116x40x135	... 116x42x135
Ø 195	Ø 195
... 136x40x 95	... 136x42x 95
135	135
... 196x40x155	... 196x42x155
195	195

Z040/...



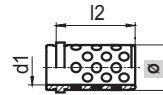
Z040/ l1xd1xl2	Z040/ l1xd1xl2
... 76x40x115	... 76x42x115
... 96x40x155	... 96x42x155
... 116x40x135	... 116x42x135
Ø 195	Ø 195
... 136x40x 95	... 136x42x 95
135	135
... 196x40x155	... 196x42x155
195	195

Z10/...



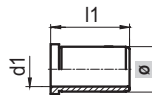
Z10/ l2xd1	Z10/ l2xd1
... 36x40	... 36x42
46	46
Ø 56	Ø 56
66	66
76	76
86	86
96	96
116	116
136	136
156	156
176	176
196	196
216	216
236	236
246	246

Z1000W/...



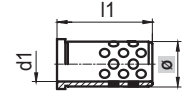
Z1000W/ l2xd1	Z1000W/ l2xd1
... 36x40	... 36x42
46	46
Ø 56	Ø 56
66	66
76	76
86	86
96	96
116	116
136	136
156	156
196	196

Z11/...



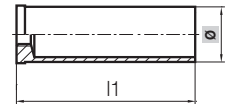
Z11/ l1xd1	Z11/ l1xd1
... 36x40	... 36x42
46	46
Ø 56	Ø 56
66	66
76	76
86	86
96	96
116	116
136	136
156	156
176	176
196	196
216	216
236	236
246	246

Z1100W/...



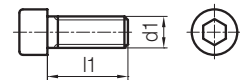
Z1100W/ l1xd1	Z1100W/ l1xd1
... 36x40	... 36x42
46	46
Ø 56	Ø 56
66	66
76	76
86	86
96	96
116	116
136	136

Z20/...



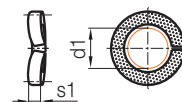
Z20/ d3xl1	Z20/ d3xl1
... 54x 60	... 54x220
80	240
120	260
160	280
180	300
200	320

Z31/...



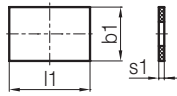
Z31/ d1xl1	Z31/ d1xl1
... 12x 40	... 20x160
50	170
... 20x 30	180
35	190
40	200
45	210
50	220
55	230
60	240
65	250
70	260
75	270
80	280
90	300
100	320
110	340
120	360
130	380
140	400
150	420

Z691/...



Z691/ d1xs1
... 12x2,5
... 20x4,5

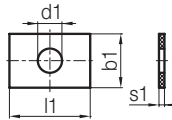
Z 121/...



Z 121/ b1x1xs1

... 496x 646x 8,5
 ... 546x 546x 8,5
 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 596x 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 646x 596x 8,5
 646x 8,5
 696x 8,5
 746x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 696x 696x 8,5
 746x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 746x 796x 8,5
 896x 8,5
 996x 8,5
 ... 796x 796x 8,5
 846x 8,5
 896x 8,5
 996x 8,5
 ... 846x 896x 8,5
 996x 8,5
 ... 896x 896x 8,5

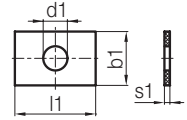
Z 121/...



Z 121/ b1x1xs1xd1

... 596x 596x 8,5x 90
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 646x 596x 8,5x 90
 646x 8,5
 696x 8,5

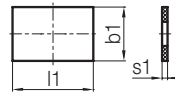
Z 1213/...



Z 1213/ b1x1xs1xd1

... 496x 496x 8,5x 90
 546
 596
 646
 696
 796
 896
 996
 ... 546x 546x 8,5x 90
 596
 646
 696
 796
 896
 996
 ... 596x 596x 8,5x 90
 646
 696
 796
 896
 996
 ... 646x 596x 8,5x 90
 646
 696

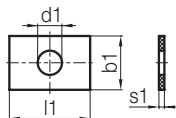
Z 1212/...



Z 1212/ b1x1xs1

... 496x 496x 8,5
 546x 8,5
 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 696x 696x 8,5
 896x 8,5
 996x 8,5
 ... 546x 546x 8,5
 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 596x 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 646x 596x 8,5
 646x 8,5
 696x 8,5
 746x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 696x 696x 8,5
 746x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 746x 796x 8,5
 896x 8,5
 996x 8,5
 ... 796x 796x 8,5
 846x 8,5
 896x 8,5
 996x 8,5
 ... 846x 896x 8,5
 996x 8,5
 ... 896x 896x 8,5
 996x 8,5

Z 121/...



Z 121/ b1xl1xs1xd1

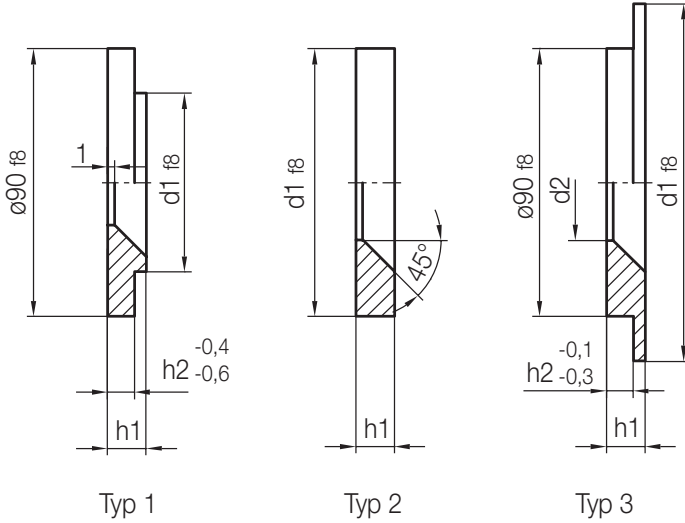
... 496x 496x 8,5x 90
 546x 7
 546x 8,5
 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 546x 546x 8,5x 90
 596x 8,5
 646x 8,5
 696x 8,5
 796x 8,5
 896x 8,5
 996x 8,5
 ... 896x 896x 8,5
 996x 8,5



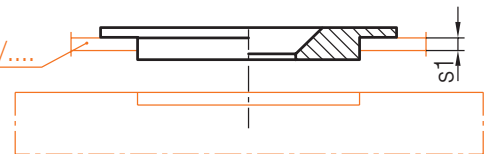
Z7511/...

Zentrierflansch, feste Seite
 Locating ring, fixed half
 Rondelle de centrage, côté fixe

Mat.: 1.1730/640N/mm²



Z121/...; Z1212/...; Z1213/...



Neu/New/Nouveau

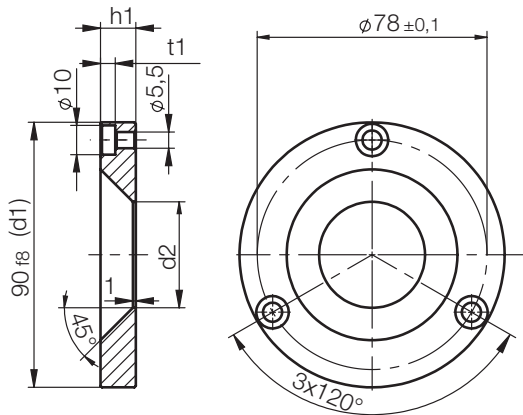
Typ	h2	s1	d1	d2	h1	Nr./No.
1	4	-	60	36	8	Z7511/ 60x 36x 8
				26	11	26x11
				36	13	26x13
	7	3	80	36	8	Z7511/ 80x 36x 8
				26	11	26x11
				36	13	26x13
	9	5	90	36	8	Z7511/ 90x 26x 8
				26	12	26x12
				36		36x12
3	4	-	100	26	8	Z7511/ 100x 26x 8
				36		36x 8
				26	12	26x12
				36		36x12
				26	17	26x17
				36		36x17
				26	19	26x19
				36		36x19
				26	20,5	26x20,5
	36		36x20,5			
	9	5	110	26	8	Z7511/ 110x 26x 8
				36		36x 8
				26	12	26x12
				36		36x12
				26	17	26x17
				36		36x17
				26	19	26x19
				36		36x19
26				20,5	26x20,5	
36		36x20,5				

Typ	h2	s1	d1	d2	h1	Nr./No.		
3	4	-	120	26	8	Z7511/ 120x 26x 8		
				36		36x 8		
				26	12	26x12		
				36		36x12		
				125	26	8	Z7511/ 125x 26x 8	
					36		36x 8	
			9	5	160	26	12	26x12
						36		36x12
						26	17	26x17
			11	7	175	26	17	26x17
						36		36x17
						26	19	26x19
	12,5	8,5	200	26	19	26x19		
				36		36x19		
				26	20,5	26x20,5		
	4	-	250	26	20,5	26x20,5		
				36		36x20,5		
				26	8	Z7511/ 160x 36x 8		
	12,5	8,5	175	12		36x12		
				20,5		36x20,5		
				8		36x8		
4	-	200	12		36x12			
			8		36x8			
			12		36x12			
4	-	250	8		36x8			
			12		36x12			
			8		36x8			

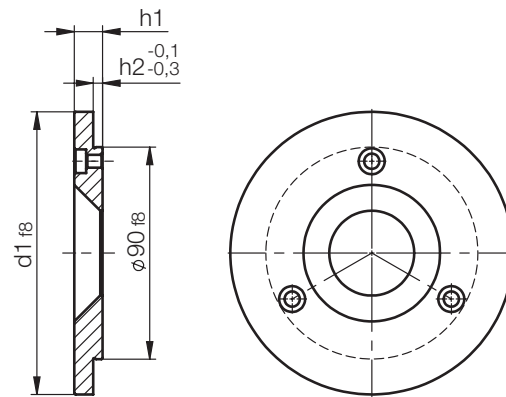
Z7516/...

Zentrierflansch, mit Befestigungsbohrungen
 Locating ring, with fixing holes
 Rondelle de centrage, avec orifices de fixation

Mat.: 1.1730/640N/mm²

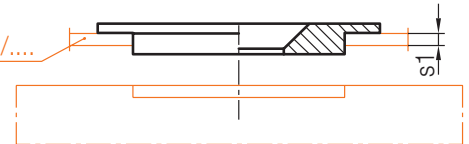


Typ 2



Typ 3

Z1211/...; Z1212/...; Z1213/....



Neu/New/Nouveau

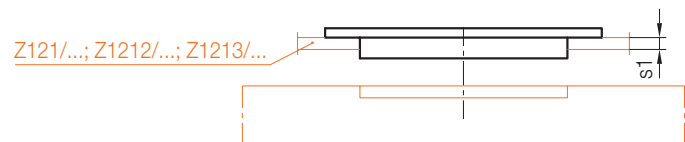
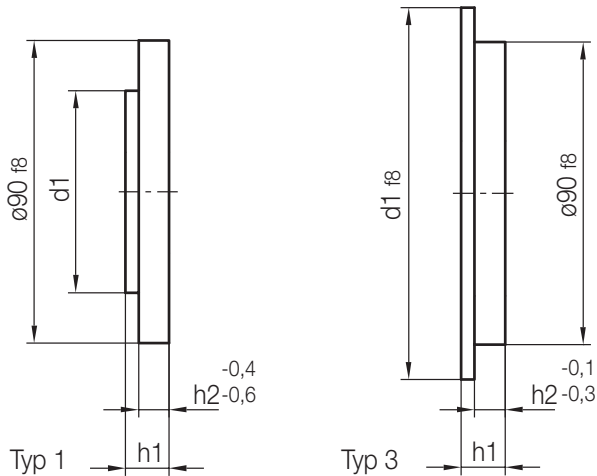
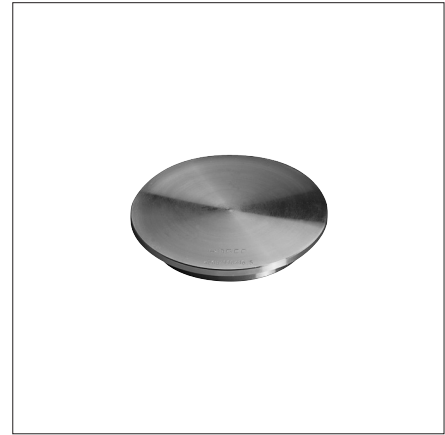
Typ	h2	t1	s1	d1	d2	h1	Nr./No.	
2	-	5,7	-	90	26	12	Z7516/ 90x 26x12	
					36		36x12	
3	4			100	26		Z7516/ 100x 26x12	
					36		36x12	
					26	17	26x17	
					36		36x17	
	9		5		26	19	26x19	
						36		36x19
	11		7		26	20,5	26x20,5	
						36		36x20,5
	12,5	5,7	8,5		26	20,5	26x20,5	
						36		36x20,5
	4	5,7	-		110	26	12	Z7516/ 110x 26x12
						36		36x12
26						17	26x17	
36							36x17	
11			7		26	19	26x19	
						36		36x19
12,5		5,7	8,5		26	20,5	26x20,5	
						36		36x20,5

Typ	h2	t1	s1	d1	d2	h1	Nr./No.								
3	4	5,7	-	120	26	8	Z7516/ 120x 26x 8								
					36		36x 8								
					26	12	26x12								
					36		36x12								
					125	26	8	Z7516/ 125x 26x 8							
						36		36x 8							
						26	12	26x12							
						36		36x12							
					9		5		26	17	26x17				
										36		36x17			
										11		7	26	19	26x19
														36	
	12,5	5,7	8,5		26	20,5	26x20,5								
						36		36x20,5							
	4	5,7	-		160	12	Z7516/ 160x 36x12								
						20,5		36x20,5							
12,5						9,2	8,5	26	20,5	26x20,5					
									36		36x20,5				
4	5,7	-		175	12	Z7516/ 175x 36x12									
					200		Z7516/ 200x 36x12								

Z7520/...

Zentrierflansch, bewegliche Seite
 Locating ring, moving half
 Rondelle de centrage, côté mobile

Mat.: 1.1730/640 N/mm²



Neu/New/Nouveau

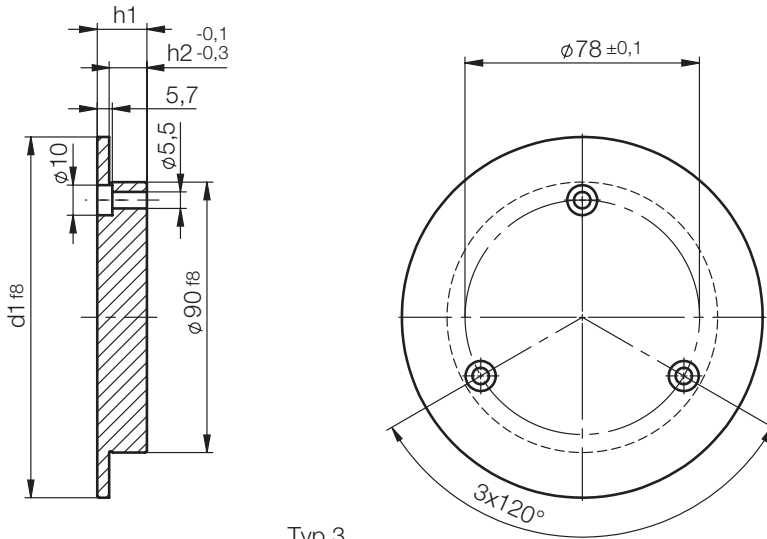
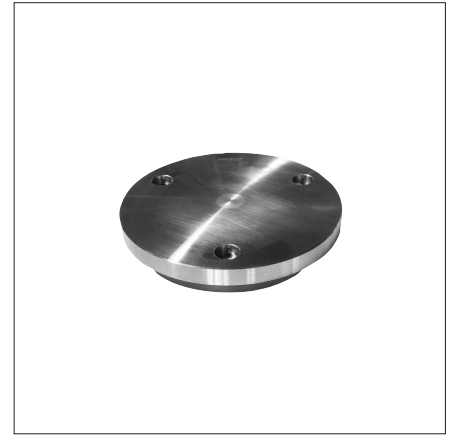
Typ	h2	s1	d1	h1	Nr./No.	
1	4	-	60	8	Z7520/ 60x 8	
	7	3		11	60x11	
	9	5		13	60x13	
	4	-	80	8	Z7520/ 80x 8	
	7	3		11	80x11	
	9	5		13	80x13	
3	4	-	100	8	Z7520/ 100x 8	
	7	3		11	100x11	
	4	-		12	100x12	
	9	5		13	100x13	
	11	7		15	100x15	
	12,5	8,5		16,5	100x16,5	
	9	5		17	100x17	
	11	7		19	100x19	
	12,5	8,5		20,5	110x20,5	
	4	-		110	8	Z7520/ 110x 8
	7	3			11	110x11
	4	-			12	110x12
	9	5			13	110x13
11	7	15	110x15			
12,5	8,5	16,5	110x16,5			
9	5	17	110x17			
11	7	19	110x19			
12,5	8,5	20,5	110x20,5			
4	-	120	8		Z7520/ 120x 8	
7	3		11		120x11	
4	-		12		120x12	
9	5		13		120x13	
11	7		15	120x15		
12,5	8,5		16,5	120x16,5		

Typ	h2	s1	d1	h1	Nr./No.		
3	4	-	125	8	Z7520/ 125x 8		
	7	3		11	125x11		
	4	-		12	125x12		
	9	5		13	125x13		
	11	7		15	125x15		
	12,5	8,5		16,5	125x16,5		
	9	5		17	125x17		
	11	7		19	125x19		
	12,5	8,5		20,5	125x20,5		
		4		-	140	8	Z7520/ 140x 8
					150		150x 8
					160		Z7520/ 160x 8
		7		3		160	11
12			160x12				
13			160x13				
15			160x15				
16,5			160x16,5				
20,5			160x20,5				
4			-				
		11		175x11			
		12		175x12			
		13		175x13			
	15	175x15					
	16,5	175x16,5					
	4	-			200	12	
250			250x12				

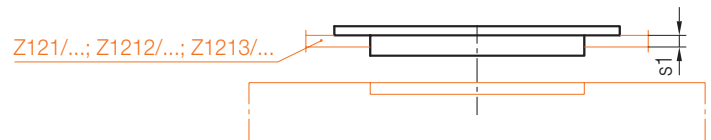
Z7525/...

Zentrierflansch, mit Befestigungsbohrungen
 Locating ring, with fixing holes
 Rondelle de centrage, avec orifices de fixation

Mat.: 1.1730/640N/mm²



Typ 3



Neu/New/Nouveau

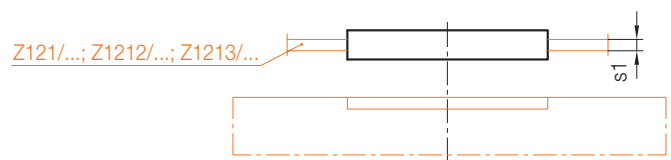
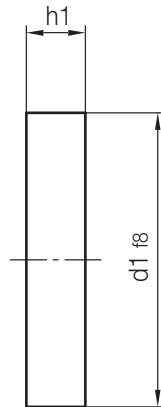
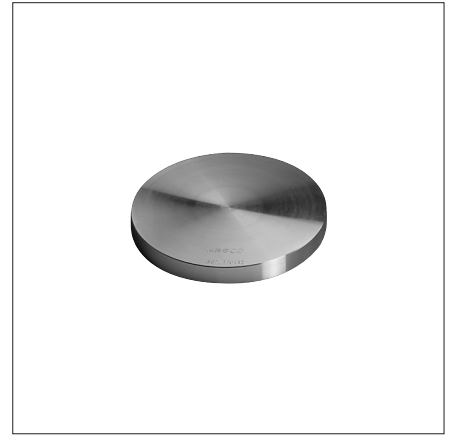
Typ	h2	s1	d1	h1	Nr./No.
3	4	-	100	8	Z7525/ 100x 8
				12	100x12
				13	100x13
				15	100x15
				16,5	100x16,5
				17	100x17
				19	100x19
				20,5	110x20,5
	4	-	110	8	Z7525/ 110x 8
				11	110x11
				12	110x12
				13	110x13
				15	110x15
				16,5	110x16,5
				17	110x17
				19	110x19
9	5	120	13	Z7525/ 120x13	
			15	120x15	
			16,5	120x16,5	

Typ	h2	s1	d1	h1	Nr./No.
3	4	-	125	8	Z7525/ 125x 8
				11	125x11
				12	125x12
				13	125x13
				15	125x15
				16,5	125x16,5
				17	125x17
				19	125x19
	4	-	160	8	Z7525/ 160x 8
				11	160x11
				12	160x12
				13	160x13
				15	160x15
				16,5	160x16,5
				20,5	160x20,5
				4	-
	12	175x12			
	16,5	175x16,5			
	12	Z7525/ 200x12			

Z7530/...

Zentrierflansch, ohne Ansatz
 Locating ring, straight
 Rondelle de centrage, sans plot

Mat.: 1.1730 / 640 N/mm²



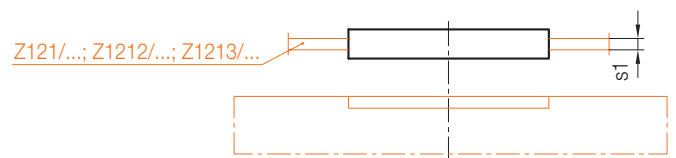
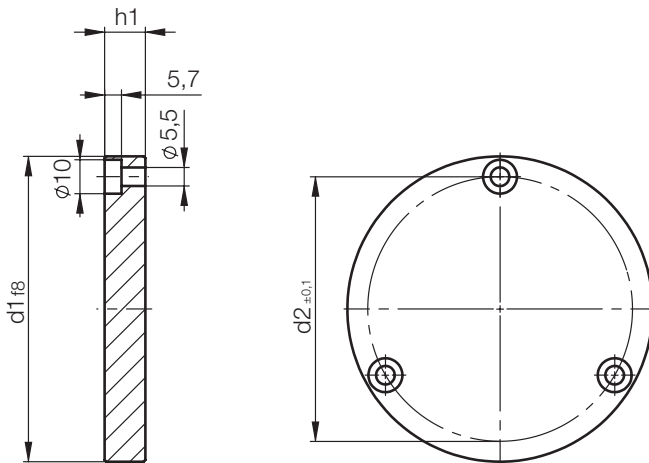
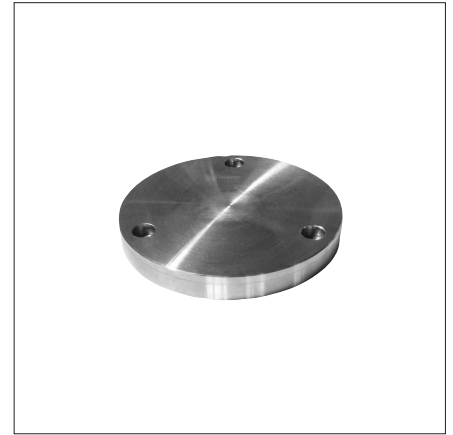
s1	d1	h1	Nr./No.
-	40	6	Z7530/ 40x 6
3		9	40x 9
-	60	8	Z7530/ 60x 8
3		11	60x11
5		13	60x13
-	80	8	Z7530/ 80x 8
3		11	80x11
5		13	80x13
-	90	8	Z7530/ 90x 8
3		11	90x11
-		12	90x12
5		13	90x13
7		15	90x15
8,5		16,5	90x16,5
-	100	8	Z7530/ 100x 8
		12	100x12

s1	d1	h1	Nr./No.
-	110	8	Z7530/ 110x 8
		12	110x12
	120	8	Z7530/ 120x 8
		12	120x12
	125	8	Z7530/ 125x 8
		12	125x12
	130		Z7530/ 130x12
			140x12
	140		140x12
	150	8	Z7530/ 150x 8
		12	150x12
	160	8	Z7530/ 160x 8
		12	160x12
	175	8	Z7530/ 175x 8
		12	175x12
	200	8	Z7530/ 200x 8
		12	200x12
	250		250x12

Z7535/...

Zentrierflansch, mit Befestigungsbohrungen
 Locating ring, with fixing holes
 Rondelle de centrage, avec orifices de fixation

Mat.: 1.1730 / 640 N/mm²



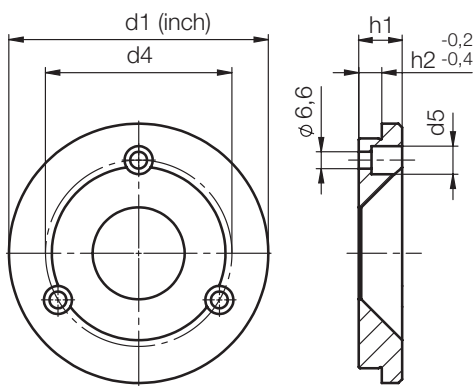
s1	d2	d1	h1	Nr./No.
-	48	60	8	Z7535/ 60x 8
3			11	60x11
5			13	60x13
-	68	80	8	Z7535/ 80x 8
3			11	80x11
5			13	80x13
-	78	90	8	Z7535/ 90x 8
3			11	90x11
-			12	90x12
5			13	90x13
7			15	90x15
8,5			16,5	90x16,5
-	82	100	8	Z7535/ 100x 8
-			12	100x12
-			12	110x12
-	90	110	8	Z7535/ 110x 8
-	-	-	12	110x12

s1	d2	d1	h1	Nr./No.
-	104	120	8	Z7535/ 120x 8
-			12	120x12
-		125	8	Z7535/ 125x 8
-			12	125x12
-	109	130	-	Z7535/ 130x12
-	119	140	-	140x12
-	144	160	8	Z7535/ 160x 8
-			12	160x12
-		175	8	Z7535/ 175x 8
-			12	175x12
-		200	8	Z7535/ 200x 8
-			12	200x12
-	194	250	-	250x12

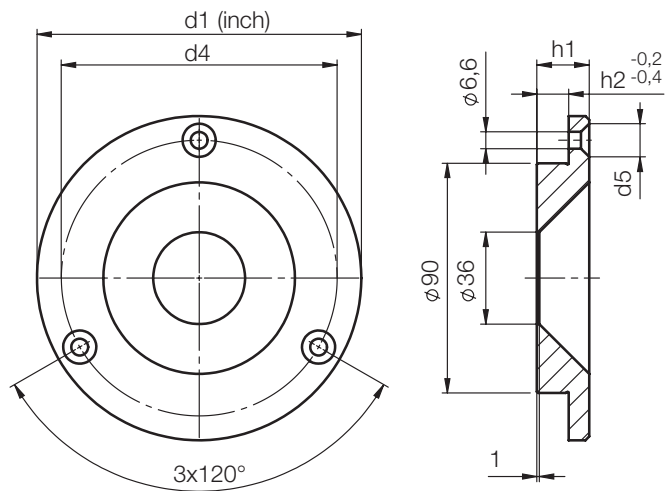
Z7540/...

Zentrierflansch, mit Befestigungsbohrungen
 Locating ring, with fixing holes
 Rondelle de centrage, avec orifices de fixation

Mat.: 1.1730/640N/mm²



Typ 3

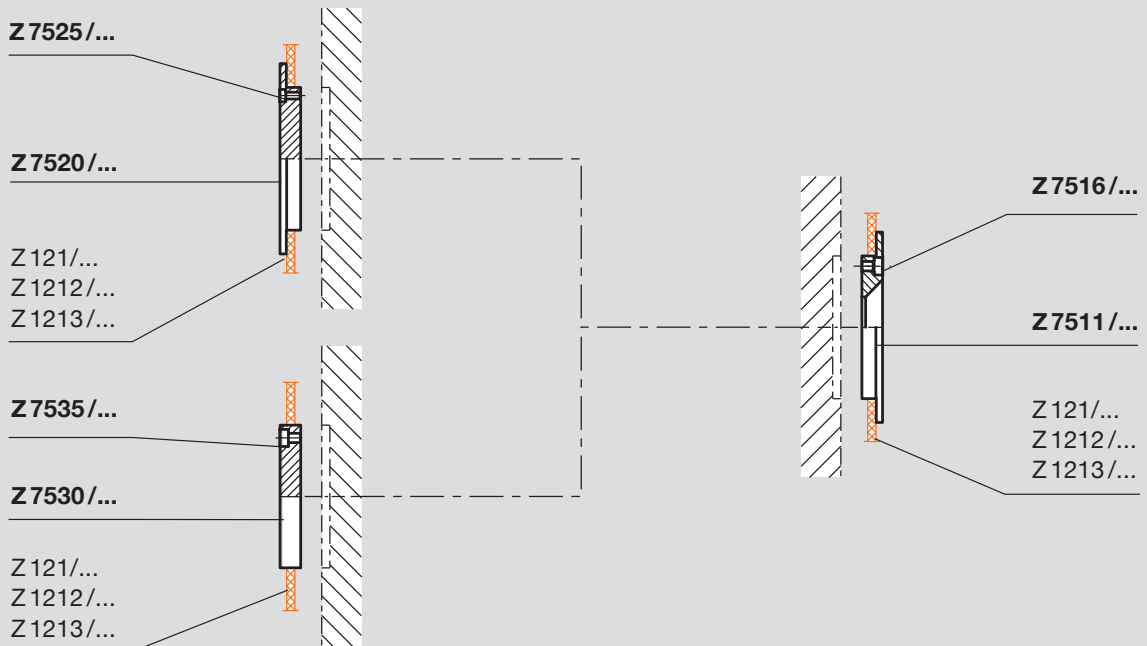


Typ 4

Typ	h2	d5	d4	d1		h1	Nr./No.
				[mm]	[inch]		
3	4	11	73	101,6	4	12	Z7540/ 4x12
	9					17	4x17
	12,5					20,5	4x20,5
4		13	108	127	5		5x20,5

Bewegliche Werkzeughälfte
Movable mould half
Demi-moule mobile

Feste Werkzeughälfte
Fixed mould half
Demi-moule fixe

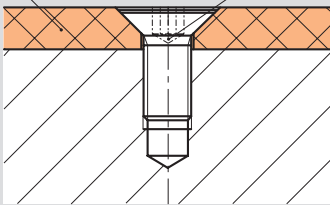


Zur Befestigung der Wärmeisolierplatten sind Senkschrauben Z 330/... mit Torx® zu verwenden.

We recommend the countersunk screws Z 330/... with Torx® for mounting the thermal insulating sheets.

La fixation des plaques isolantes devra être assurée à l'aide de vis à tête fraisée Z 330/... avec Torx®.

Z 121/... Z 1212/... Z 1213/... Z 330/...



Innensechskant beschädigt
Internal hexagon damaged
Tête à 6 pans creux endommagée



Keine Beschädigung mit Torx®
No damage with Torx®
Pas d'endommagement avec Torx®





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Enabler for standards*



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Bauen,
Produzieren –
für Sie
konsequent
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- Vollsortiment
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building,
producing –
consistently
standardised
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- 100,000 products
- Configurable assemblies for flexibility

HASCO®

Ermöglichen mit System.

K 2500 / ...
K 2501 / ...

Backenwerkzeuge
Split Mould Kits
Moule à tiroirs

Auswerfer- und Abstreiferversion –
kompatibel zum K-Programm

Ejector type and Stripper type –
compatible with the K programme

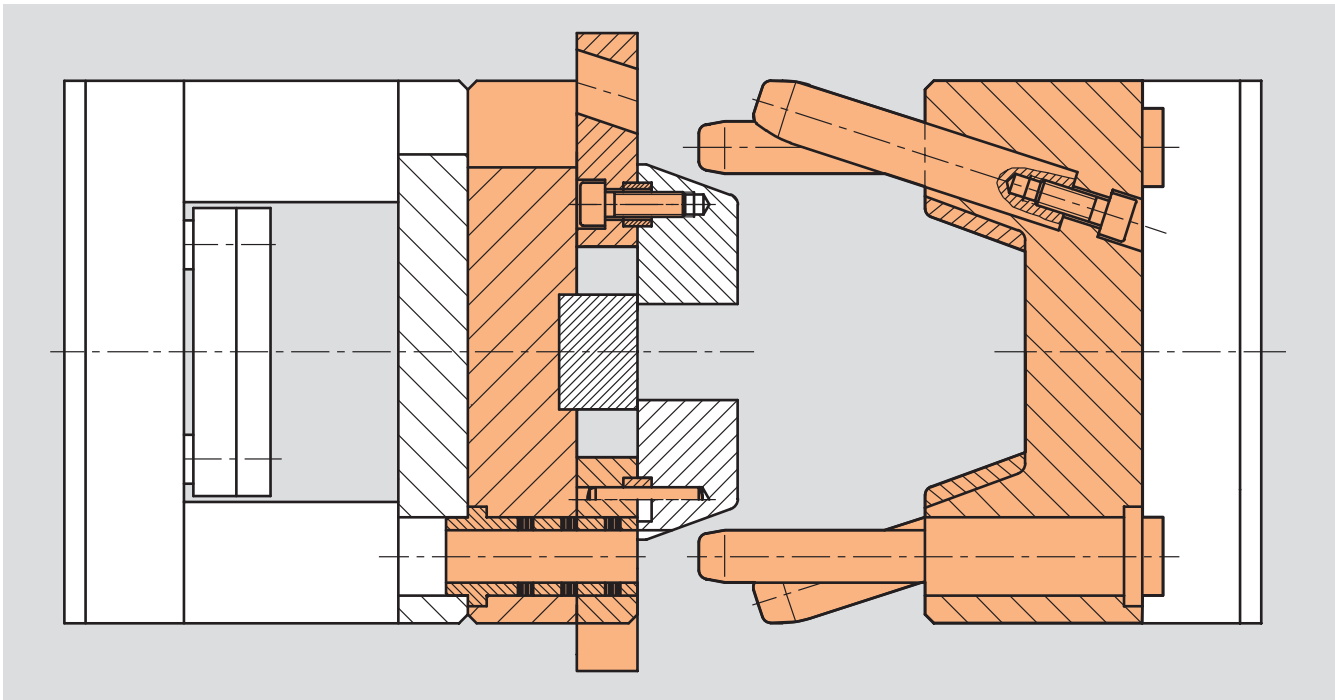
Version à éjecteur et version à démouleur –
compatible avec la gamme K



K2500/...
Backenwerkzeug
(Auswerferversion)

K2500/...
Split mould kit
(Ejector type)

K2500/...
Moule à tiroirs
(version à éjecteur)



**Die Abmessungen von K2500/...
sind kompatibel zum HASCO
K-Programm.**

**The dimensions of K2500/... are
compatible with the HASCO
K programme.**

**Les cotes du modèles K2500/...
sont compatibles avec la gamme K
de HASCO.**

Besondere Merkmale

- Abhängig von der Spritzteilgeometrie kann zwischen der Auswerferversion K2500/... und der Abstreiferversion K2501/... gewählt werden.
- K2500/... und K2501/... sind jeweils in 8 Größen mit je 5 Backenhöhen verfügbar.
- Backen (K2528/...) und Kernhalteeinsatz (K2531/...) gehören nicht zum Lieferumfang.
- Bauteile und Backenbetätigung liegen innerhalb der Werkzeugabmessungen.
- Nachschleifbare Backenführung.
- Austauschbare Druckplatten.
- Backen (K2528/...) voll nutzbar für Kontur und Kühlung.
- Backenlänge entspricht Werkzeugbreite.
- Passfeder-Nut in K2528/... (Mat. 1.2767/1.2343 ESU) mit Aufmaß zum Nachschleifen nach dem Härten.
- Härteverzug der Backen ohne Einfluss auf die Führung.
- Länge des Kernhalteeinsatzes (K2531/...) entspricht Werkzeugbreite.
- Schwalbenschwanz-Führung leicht nachstellbar.
- Kein Verkanten der Führung durch günstiges Längen-/Breitenverhältnis.
- Sicherung der Backen durch integrierte Kugelrasten.
- Freier Fall der Spritzteile.
- Selbstschmierende Backenführungsleisten und Führungsbuchsen.

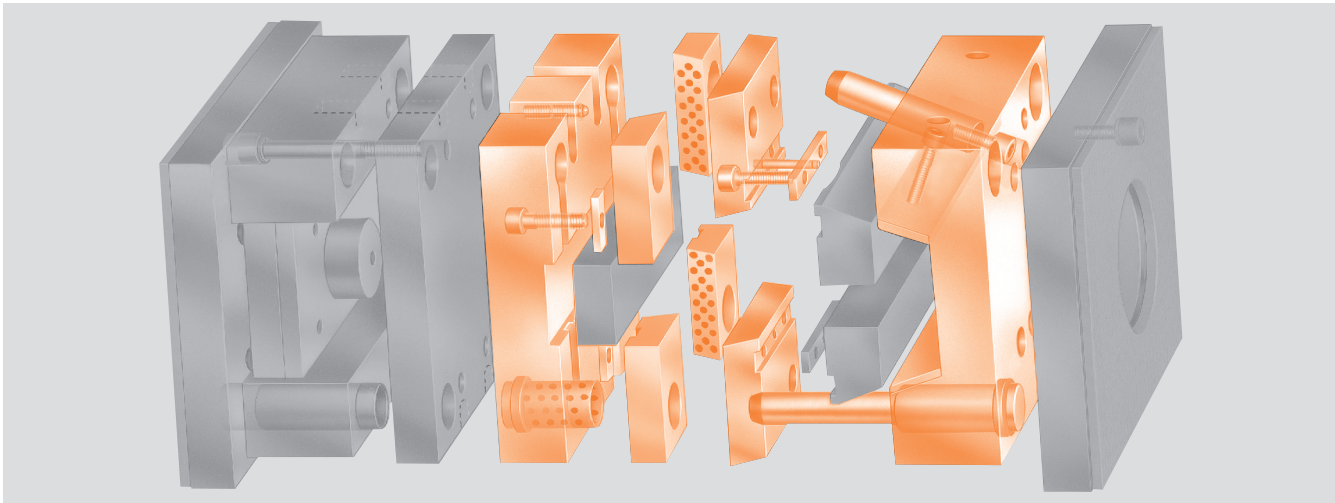
Features

- To suit moulding geometry, the designer has the choice between Ejector type K2500/... and the Stripper type K2201/...
- K2500/... as well as K2501/... are available in 8 sizes with 5 split heights each.
- Splits (K2528/...) and core retainer insert (K2531/...) are not supplied.
- Construction elements and angle pins actuation are positioned within the mould.
- Regrindable split guides.
- Interchangeable wear plates.
- Splits (K2528/...) can be fully utilized for cavity contour and cooling.
- Split length is equal to mould width.
- Parallel slot in K2528/... (Mat. 1.2767/1.2343 ESU) with dimensions re-ground according to hardness.
- Distortion on hardening of splits does not affect the guiding system.
- Length of core retainer insert (K2531/...) is equal to mould width.
- Easy readjustment of dovetailed guide strips.
- No tilting of split guide due to favourable length/width ratio.
- Splits are secured by integrated spring plungers.
- Undisturbed drop of mouldings.
- Guide strips and guide bushings are offered in selflubricating design.

Caractéristiques techniques

- Il est possible de choisir, en fonction de la géométrie des pièces à injecter, entre la version à éjecteur K2500/... et la version à démouleur K2501/...
- K2500/... et K2501/... sont disponibles chacun en 8 tailles disposant de 5 hauteurs différentes de tiroirs.
- Les plaques (K2528/...) et le support de noyau (K2531/...) ne sont pas compris dans la livraison.
- Les éléments de construction et d'actionnement des tiroirs sont positionnés à l'intérieur des cotes du moule.
- Le guidage de plaques peut être à nouveau poli.
- Les plaques de pression sont interchangeables.
- Tiroirs (K2528/...) entièrement utilisables pour l'empreinte et le refroidissement.
- La longueur de tiroirs correspond à la largeur du moule.
- Gorge pour ressort d'ajustage dans K2528/... (Mat. 1.2767/1.2343 ESU) avec surcote pour ponçage ultérieur d'ajustage après le trempage.
- Les éventuelles déformations des tiroirs (trempage), n'influent pas le système de guidage.
- La longueur du support de noyau (K2531/...) correspond à la largeur du moule.
- Guidage en queue d'aronde facilement ajustable.
- Blocage impossible du guidage en raison d'un rapport longueur/largeur étudié.
- Blocage des tiroirs assuré par vis à billes intégrées.
- Dégagement libre des pièces injectées.
- Barres conductrices des tiroirs et bagues de guidage exemptes d'entretien.





Bestellbeispiel:

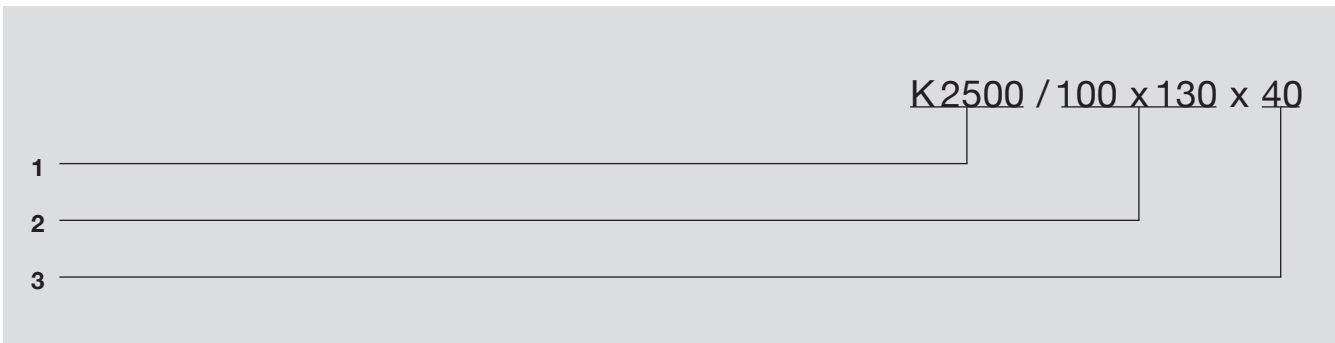
Backenwerkzeug, Größe 100 x 130
(Auswerferversion)

Ordering example:

Split mould kit, size 100 x 130
(Ejector type)

Exemple de commande:

Moule à tiroirs version 100 x 130
(version à éjecteur)



- 1 Produkt Nr. für Backenwerkzeug
- 2 Abmessung: Länge x Breite
- 3 Backenhöhe

- 1 Produkt No. of split mould kit
- 2 Mould size: Length x Width
- 3 Split height

- 1 N° de produit pour moule à tiroir
- 2 Dimensions: longueur x largeur
- 3 Hauteur des tiroirs

⚠ Beachten:

Die Backen K2528/... und der Kernhalteinsatz K2531/... gehören nicht zum Lieferumfang!

⚠ Caution:

Splits K2528/... and core retainer insert K2531/... are not supplied!

⚠ Remarque:

Les plaques K 2528/... et le support de noyau K2531/... ne sont pas compris dans la livraison!

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156x156	156x156	156x156		234
156x196	156x196	156x196		236
190x246	190x246	190x246		238
196x196	196x196	196x196		240
246x246	246x246	246x246		242
246x296	246x296	246x296		244
296x296	296x296	296x296		246
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156x156	156x156	156x156		254
156x196	156x196	156x196		256
190x246	190x246	190x246		258
196x196	196x196	196x196		260
246x246	246x246	246x246		262
246x296	246x296	246x296		264
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Wichtige Werkzeugmaße
für K2500/... und K2501/...

- Backenlänge
- Backenhöhe
- Backenöffnungsweg
- Max. Arbeitsflächen

Important mould dimensions
for K2500/... and K2501/...

- Split length
- Split height
- Opening stroke of splits
- Max. working area

Importantes cotes d'outils
pour K2500/... et KK2501/...

- Longueur de tiroir
- Hauteur de tiroir
- Course d'ouverture des tiroirs
- Surfaces max. de travail

Größe Size Taille	Backen-Öffnungsweg Opening stroke of splits Course d'ouverture des tiroirs	Backenhöhe Split height Hauteur des tiroirs								Backenlänge Split length Longueur des tiroirs	
		16	20	25	32	40	50	63	80		100
100 x 130	16										100
156 x 156	28										156
156 x 196	45										156
190 x 246	56										190
196 x 196	40										196
246 x 246	53										246
246 x 296	68										246
296 x 296	68										296

⚠ Beachten:

Die Backenhöhen und -längen für eine quadratische und die dazugehörige rechteckige Größe (z.B. 156 x 156 und 156 x 196) sind gleich. Bei den rechteckigen Größen sind die Backen entsprechend breiter, dadurch optimale Ausnutzung der Formkontur.

Toleranzen:

siehe K-Katalog, Vorschaltseite

⚠ Caution:

For each square and following rectangular mould size (e.g. 156 x 156 and 156 x 196) all split heights and -lengths are of the same. On rectangular mould sizes the splits are correspondingly wider to provide for optimal utilisation of cavity contour.

Tolerances:

Ref. K catalogue, opening page

⚠ Remarque:

La hauteur et la longueur des tiroirs sont identique pour des tailles carrées et rectangulaires (Ex: 156 x 156 et 156 x 196). Dans le cas de moules rectangulaires, les tiroirs sont plus larges, pour permettre une meilleure utilisation.

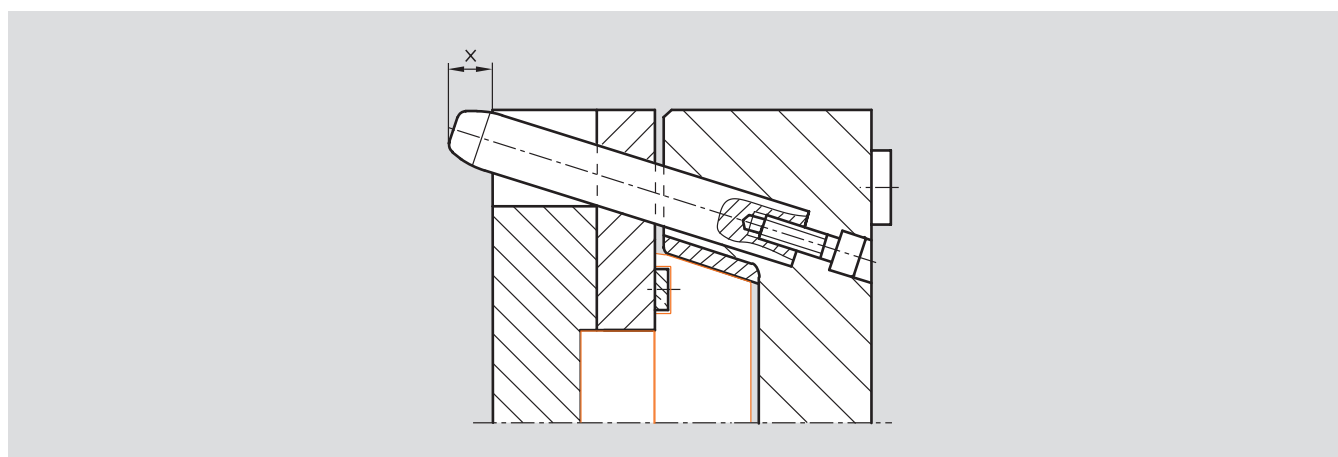
Tolérances:

Cf. catalogue des standards K, page des éléments de commutation

Überstand des Schrägbolzens

Projection of angle pin

Dépassement du doigt incliné



⚠ Beachten:

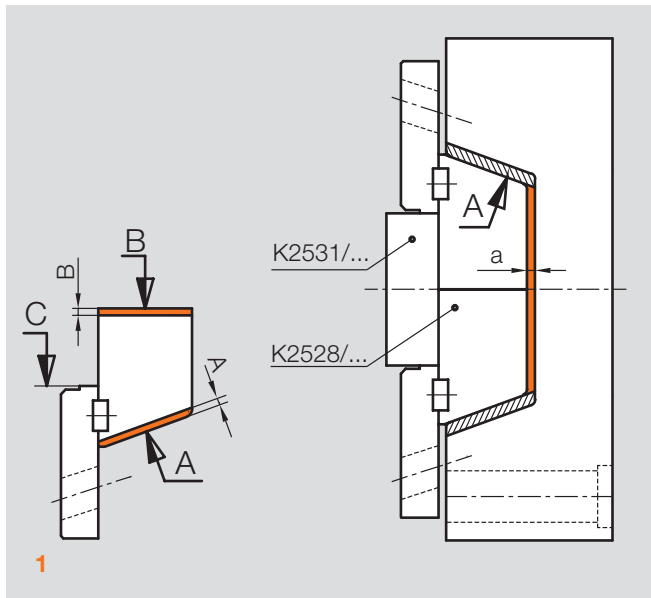
Dieser Überstand (x) kann je nach Werkzeuggröße bis zu 40 mm betragen.

⚠ Caution:

The projection (x) can measure 40 mm according to tool size.

⚠ Remarque:

Ce dépassement (x) peut atteindre jusqu'à 40 mm, selon les tailles d'outils.



a	$A = \sin 20^\circ \cdot a$	$B = \tan 20^\circ \cdot a$
0,05	0,017	0,018
0,10	0,034	0,036
0,20	0,068	0,073
0,50	0,171	0,182
1,00	0,342	0,364

$A = \sin 20^\circ \cdot a$
 A: Abzuschleifendes Maß von der Schrägfläche
 a: zu verringerndes Spiel
 z.B.: a = 0,65
 $A = 0,342 \cdot 0,65 = 0,222 \text{ mm}$

$B = \tan 20^\circ \cdot a$
 B: Abzuschleifendes Maß von der Gravurfläche
 a: zu verringerndes Spiel
 z.B.: a = 0,65
 $B = 0,3641 \cdot 0,65 = 0,237 \text{ mm}$

$A = \sin 20^\circ \cdot a$
 A: Amount to be ground off from the sloped surface
 a: Clearance to be reduced
 e.g.: a = 0,65
 $A = 0,342 \cdot 0,65 = 0,222 \text{ mm}$

$B = \tan 20^\circ \cdot a$
 B: Amount to be ground off from the parting surface
 a: Clearance to be reduced
 e.g.: a = 0,65
 $B = 0,3641 \cdot 0,65 = 0,237 \text{ mm}$

$A = \sin 20^\circ \cdot a$
 A: Surface inclinée à rectifier
 a: Jeu à réduire
 par ex: a = 0,65
 $A = 0,342 \cdot 0,65 = 0,222 \text{ mm}$

$B = \tan 20^\circ \cdot a$
 B: Surface plan de joint à rectifier
 a: Jeu à réduire
 par ex: a = 0,65
 $B = 0,3641 \cdot 0,65 = 0,237 \text{ mm}$

Einpassen der Formbacken

Bild 2

Zum Einpassen der Backen K2910/... in die düsenseitige Backenschließplatte ist das Spiel „a“ vorgesehen.

Bild 1

Dieses wird durch Überschleifen der Backen in Pfeilrichtung „A“ und/oder „B“ beseitigt, wahlweise durch Überschleifen der gehärteten Druckplatten.

Zur Mittenfixierung stützen sich die Backenführungen am Kernhalte-einsatz K2531/... ab. Beim Fertig-schleifen wird ein Spiel zwischen der Stirnseite der Backenführung und dem Kernhalte-einsatz von 0,05 mm empfohlen.

Beim Überschleifen der Backenstirn-flächen „B“ muss auch die Backen-führung im Bereich „C“ nachgesetzt werden.

Fitting of splits

Fig. 2

The clearance “a” is provided for fitting the splits into the chase bolster.

Fig. 1

By regrinding splits surface “A” and/or “B”, if required also hardened wear plate, this clearance can be eliminated.

For centre aligning the split guides rest against the core retainer insert K2531/... When finish grinding a clearance of 0,05 mm between the front face of split guides and core retainer insert is recommended.

When regrinding parting surface of splits “B”, same amount must be ground off from the front face of split guides “C”.

Ajustage des tiroirs

Fig. 2

Le jeu «a» est prévu pour l’ajustage des tiroirs K2910/... dans la plaque de fermeture côté buse.

Fig. 1

Le jeu est éliminé par rectification des tiroirs dans le sens de la flèche «A» et/ou «B» et en travaillant également les plaques de pression.

Pour l’alignement au centre, les guidages des tiroirs prennent appui sur le support de noyau K2531/... Lors de l’ajustage final, un jeu de 0,05 mm entre la face du guidage des tiroirs et le support de noyau est recommandé.

Lors de la rectification des surfaces frontales des tiroirs «B», le guidage doit également être réajusté.

Positionierung der Formbacken

Bild 3

Um ein Vertauschen der Backen zu verhindern, ist ein Passstift außermittig angeordnet, der auch gleichzeitig die Backen in Längsrichtung präzise positioniert.

Die Passfeder zwischen Backe und Backenführung garantiert eine exakte Positionierung in Laufrichtung.

Positioning of mould splits

Fig. 3

To prevent mix-up of splits a dowel pin is located off-centre, it also serves the purpose of precisely fixing the splits in longitudinal direction.

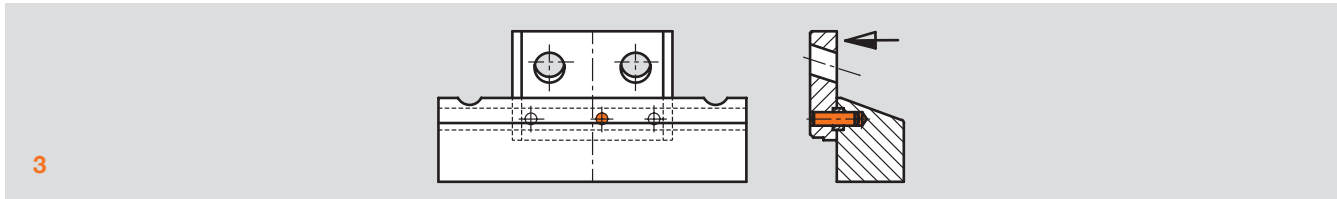
The parallel key between split and split guide ensures an exact alignment in traveling direction.

Positionnement des tiroirs

Fig. 3

Afin d'éviter une inversion des tiroirs, des goupilles d'assemblage excentrées, positionnent en même temps les tiroirs dans le sens longitudinal.

La vis à bille ressort entre le tiroir et le guidage garantit un positionnement exact.

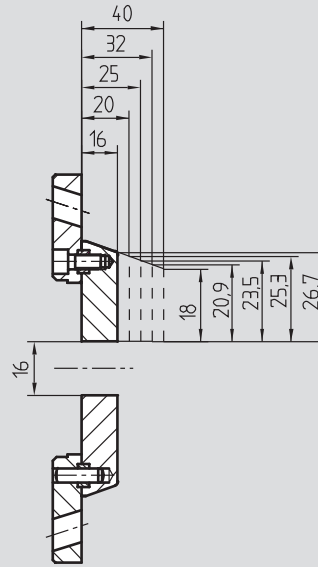
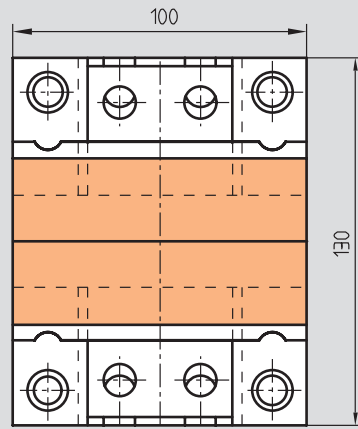


Eine problemlose Nachstellung ist durch Überschleifen der Backenführung in Pfeilrichtung sichergestellt.

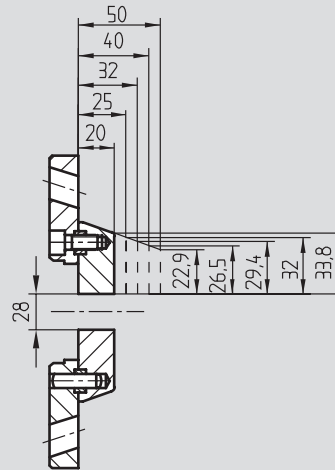
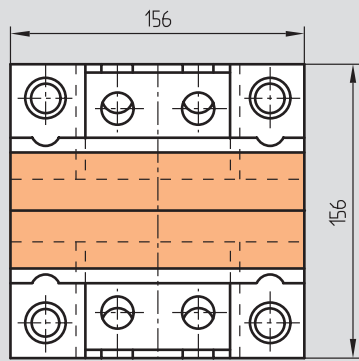
For easy readjusting of guiding system only the split guide has to be reground on surface pointed to by arrow.

Pour un réajustage facile du système de guidage, seuls les guides des tiroirs seront rectifiés en surface (dans le sens de la flèche).

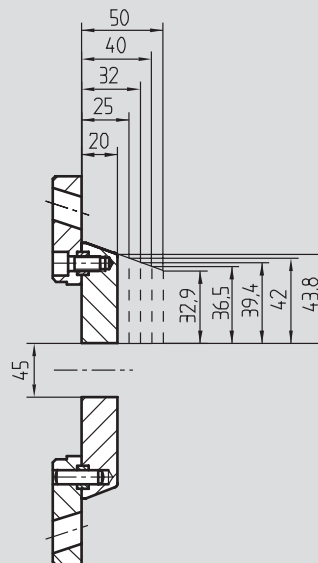
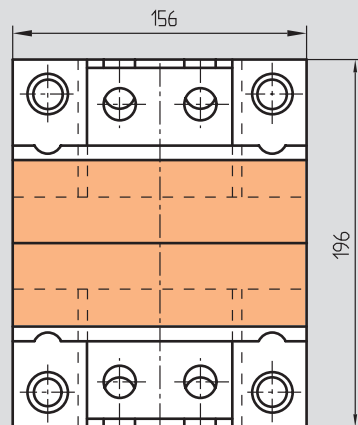
100 x 130



156 x 156



156 x 196

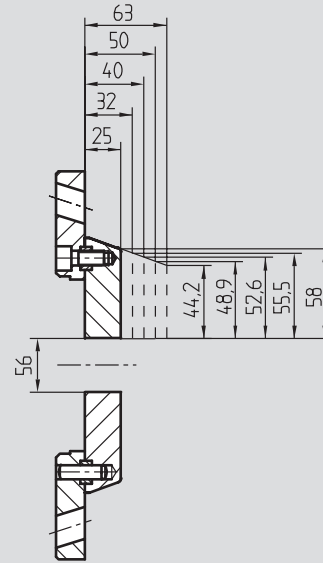
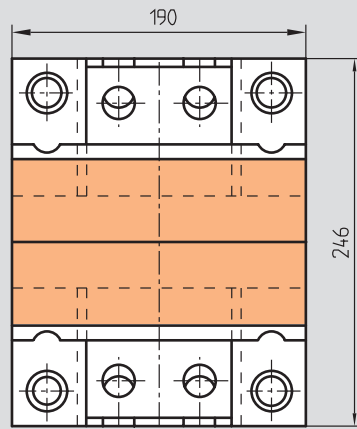


Max. Arbeitsflächen

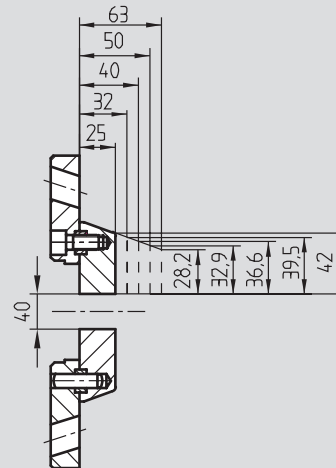
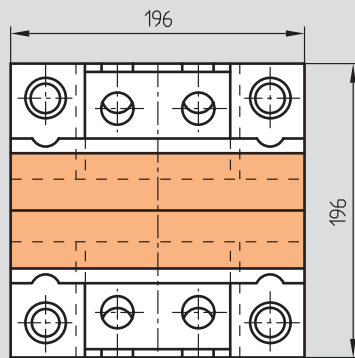
Max. Working areas

Surfaces max. de travail

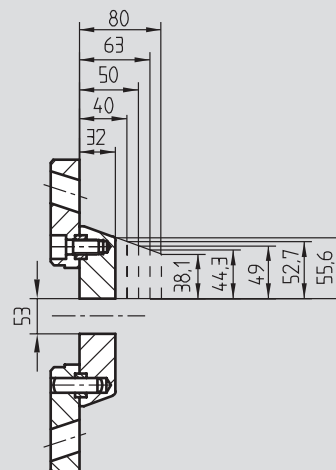
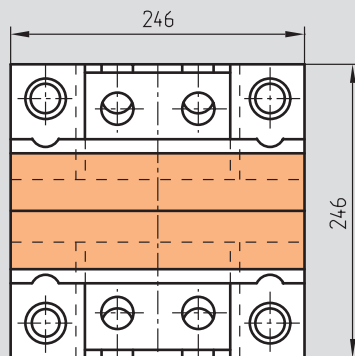
190 x 246



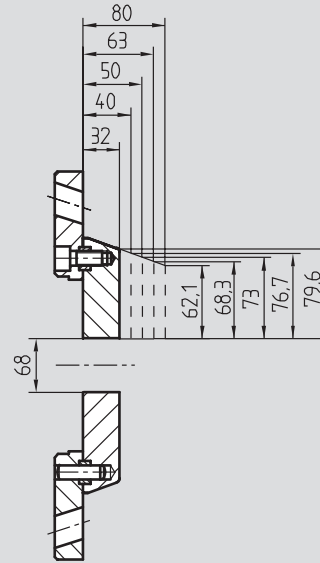
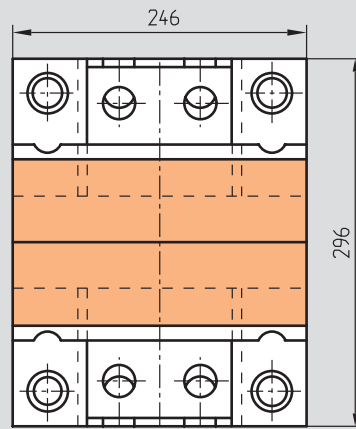
196 x 196



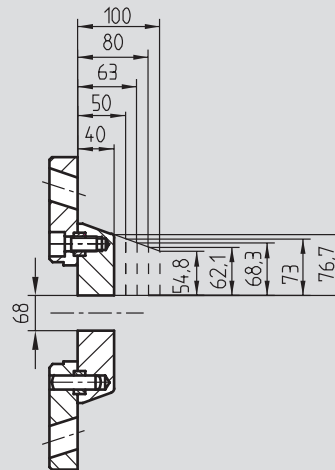
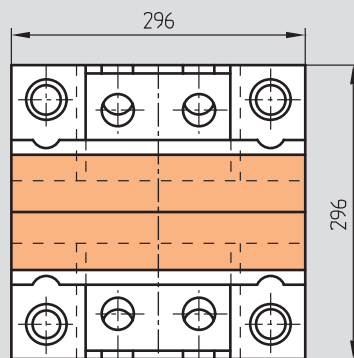
246 x 246

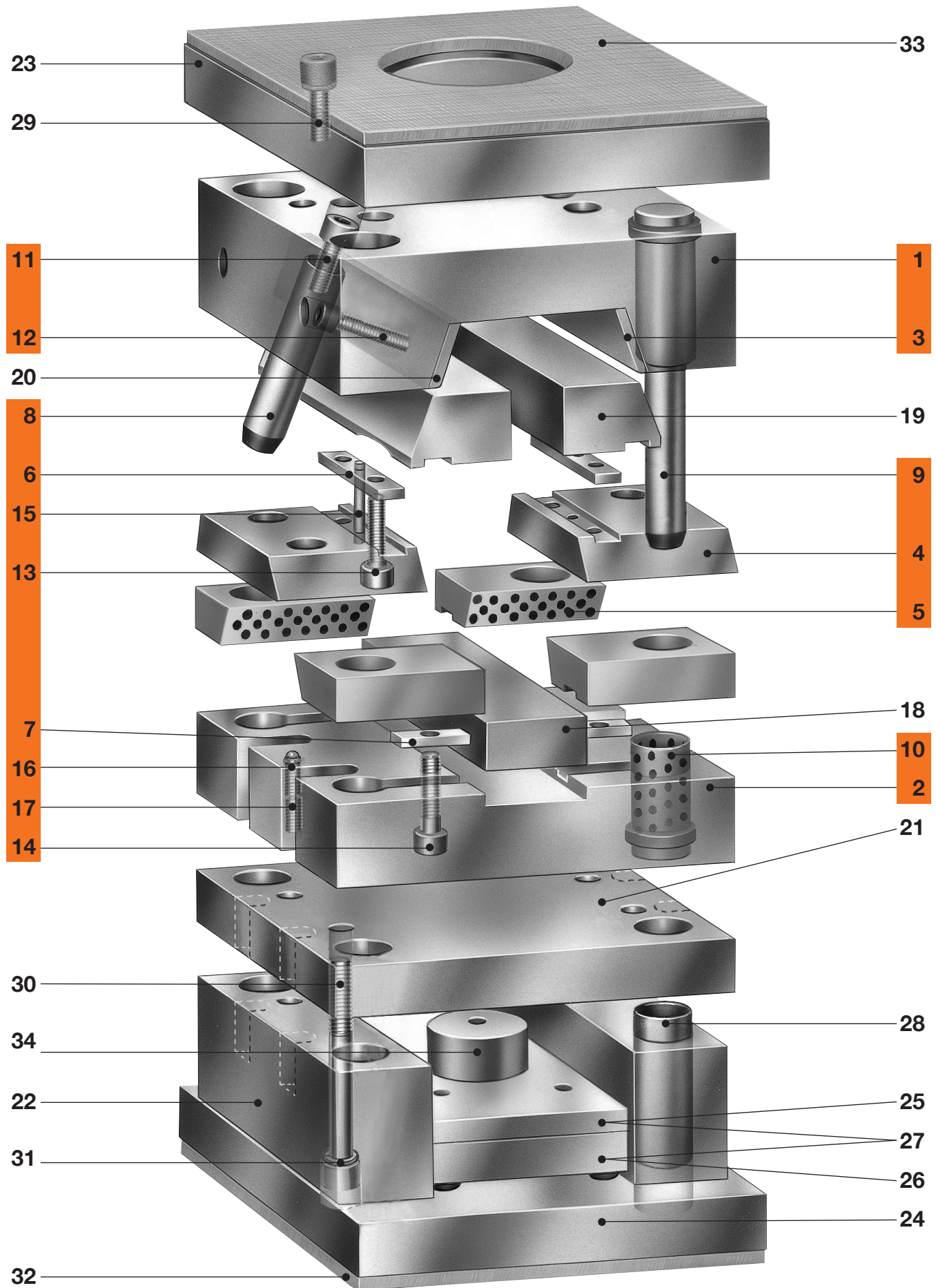


246 x 296



296 x 296





K 2500/... Auswerferversion

K 2500/... Ejector type

K 2500/... Version à éjecteur

Pos.	Benennung	Designation	Désignation	Stück Quant. / Pièce	Nr./Norm No./Standard N°/Norme	Material/Härte Material/Hardness Matériau/Dureté
1	Backenschließplatte	Chase bolster	Plaque de fermeture des tiroirs	1		1.2312
2	Backengrundplatte	Splits retainer plate	Plaque de base des tiroirs	1		1.2312
3	Druckplatte	Wear plate	Plaque de pression	2		1.2842/53+2 HRC
4	Backenführung	Split guide	Guide des tiroirs	2		1.2767/52±2 HRC
5	Backenführungsleiste	Guide strip	Barre conductrice des tiroirs	4		2.0492
6	Passfeder, lang	Parallel key, long	Ressort d'ajustage, long	2		1.2312
7	Passfeder, kurz	Parallel key, short	Ressort d'ajustage, court	4		1.2312
8	Schrägsäule	Angle pin	Doigt incliné	4	Z010/...	1.0401
9	Führungssäule	Guide pillar	Colonne de guidage	3 + 1	Z04/...	DIN 16761-A
10	Führungsbuchse	Guide bushing	Bague de guidage	3 + 1	Z1000W/...	DIN 16716-C
11	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z31/... DIN EN ISO 4762	
12	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z31/... DIN EN ISO 4762	
13	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z31/... DIN EN ISO 4762	
14	Zylinderschraube	SHC-screw	Vis à tête cylindrique	8	Z31/... DIN EN ISO 4762	
15	Zylinderstift	Dowel pin	Goupille cylindrique	2	Z26/.../DIN EN 28735	
16	Federndes Druckstück	Ball catch	Vis à bille sans tête	2	Z371/...	1.4305
17	Gewindestift	Set screw	Tige sans tête	2	Z35/.../DIN913	

Sonstige Bauteile



Extra Bestellung erforderlich

Other components

Extra order required

Autres éléments

Commande spéciale nécessaire

Pos.	Benennung	Designation	Désignation	Stück Quant. / Pièce	Nr./Norm No./Standard N°/Norme	Material/Härte Material/Hardness Matériau/Dureté
18	Kernhalteinsatz	Core retainer insert	Support de noyau	1	K2531/...	1.2767
19	Backe	Split	Tiroir	2 	K2528/...	1.2767 / 1.2343 ESU
20	Druckplatte (Ersatzteil)	Wear plate (spare part)	Pl. de pression (pièce de rech.)		K2526/...	1.2842/53+2 HRC
21	Zwischenplatte	Backing plate	Plaque intermédiaire	1	K30/...	1.1730, 1.2312
22	Leiste	Riser	Tasseau	2 	K40/... ²⁾ ; K45/... ³⁾	1.1730
23	Aufspannplatte	Clamping plate	Plaque de fixation	1 ¹⁾	K10/...; K12/...	1.1730
24	Aufspannplatte	Clamping plate	Plaque de fixation	1 ¹⁾	K11/...; K13/...	1.1730
25	Auswerferhalteplatte	Ejector retainer plate	Plaque d'éjecteur	1 ¹⁾	K60/... ²⁾ ; K65/... ³⁾	1.1730
26	Auswerfergrundplatte	Ejector base plate	Contre plaque d'éjection	1 ¹⁾	K70/... ²⁾ ; K75/... ³⁾	1.2312
27	Auswerferpaket	Ejector assembly	Batterie d'éjection	1	K60-70/... ²⁾ ; K65-75/... ³⁾	1.1730
28	Zentrierhülse	Centering sleeve	Douille de centrage	4	Z20/...	DIN 16759
29	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z31/... DIN EN ISO 4762	10.9
30	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z31/... DIN EN ISO 4762	10.9
31	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	8	Z691/...	DIN 17221
32	Wärmeisolerplatte	Thermal insulating sheet	Plaque isolante	1 ¹⁾	Z121/...; Z1211/...; Z1212/...	
33	Wärmeisolerplatte	Thermal insulating sheet	Plaque isolante	1 ¹⁾	Z121/...; Z1211/...; Z1212/...	
34	Stützsäule	Support pillar	Plot de soutien	1 ¹⁾	Z57/...; Z571/... DIN ISO 10073-B	

1) Typ und Abmessung ist vom Konstrukteur festzulegen

2) Für quadratische Größen = K40/...; K60/...; K70/...; K60/70/...

3) Für rechteckige Größen = K45/...; K65/...; K75/...; K65/75/...

1) Type and dimension is to be fixed by the designer

2) For square sizes = K40/...; K60/...; K70/...; K60/70/...

3) For rectangular sizes = K45/...; K65/...; K75/...; K65/75/...

1) Le type et les cotes doivent être définis par le constructeur.

2) Pour moules carrés = K40/...; K60/...; K70/...; K60/70/...

3) Pour moules rectangulaires = K45/...; K65/...; K75/...; K65/75/...

 = Verpackungseinheit / Packing unit / Unité d'emballage

⚠ Beachten:

Die Zwischenplatte, Pos. 21 oder Leiste Pos. 22 muss je nach konstruktiver Ausführung mit Freisparungen für die Schrägsäulen Pos. 8 versehen werden.

⚠ Caution:

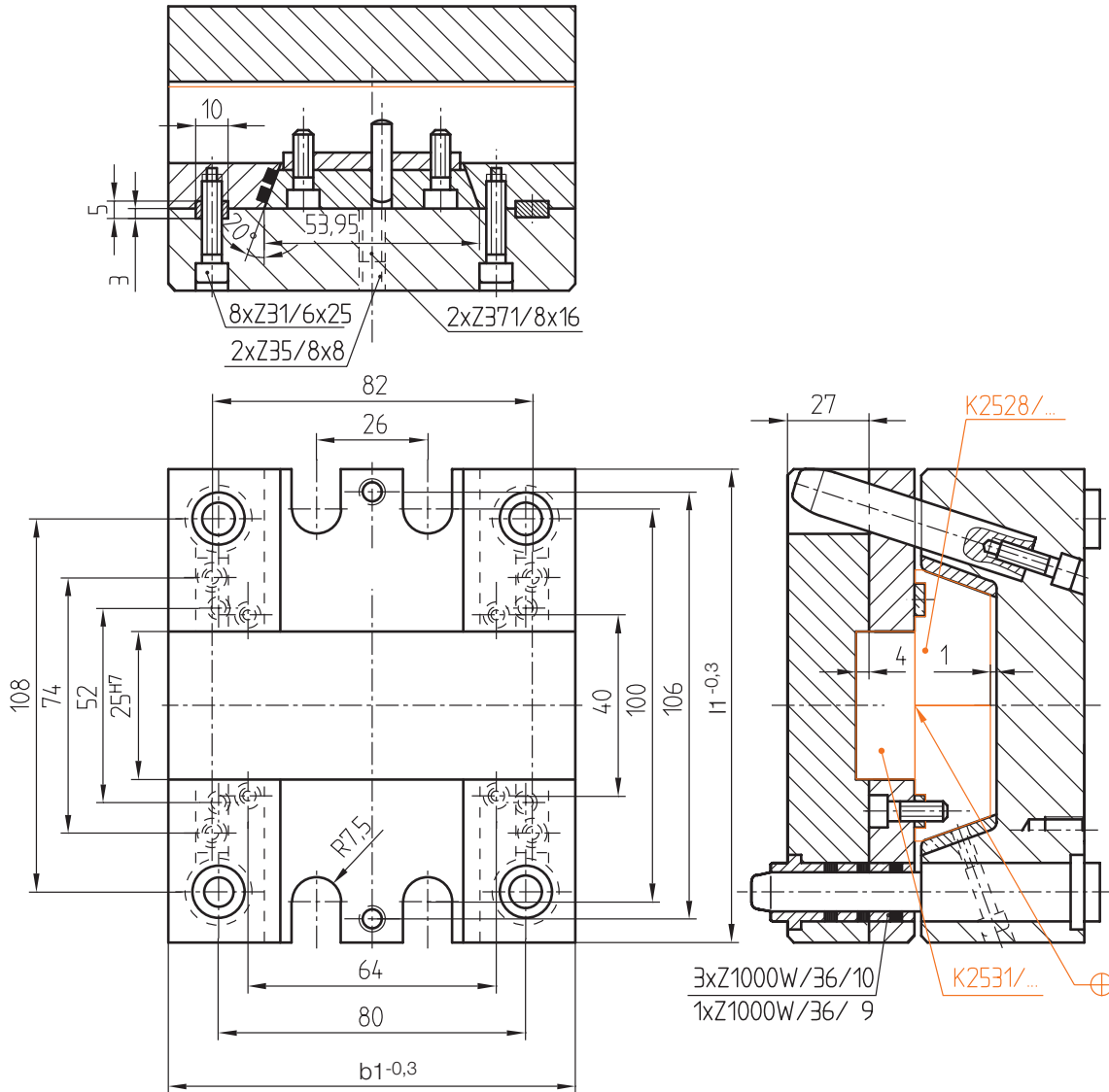
According to the design the backing plate, item 21, or riser, item 22, must be provided with clearance recesses for angle pins, item 8.

⚠ Remarque:

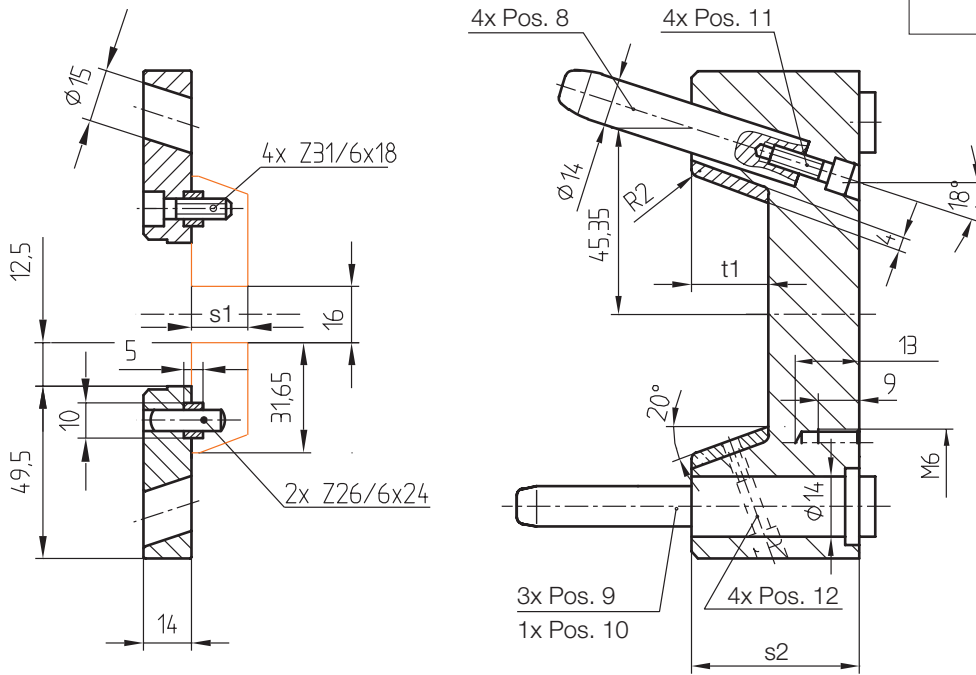
La plaque intermédiaire, pos. 21, ou le tasseau, pos. 22, doivent présenter, selon le modèle construit, des orifices libres pour le doigt incliné, pos. 8.

K 2500 / 100x130

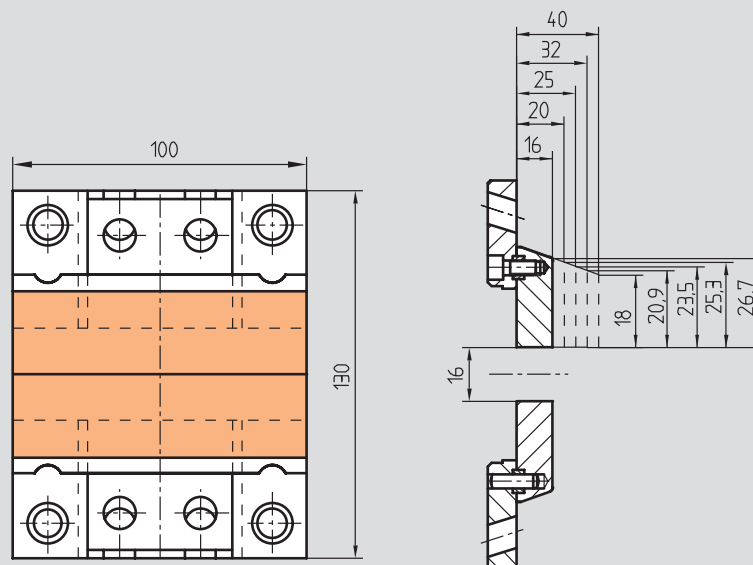
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 12 Z31/...	Pos. 11 Z31/...	Pos. 10 Z04/...	Pos. 9 Z04/...	Pos. 8 Z010/...	t1	s2	b1	l1	s1	Nr./No.
5x30	6x20	46x9x45	46x10x45	14x67	14	46	100	130	16	K 2500 / 100x130x16
5x25					18				20	
5x30	6x25	56x9x60	56x10x60	14x75	23	56			25	
					30				32	
	6x35	66x9x45	66x10x45	14x75	38	66			40	

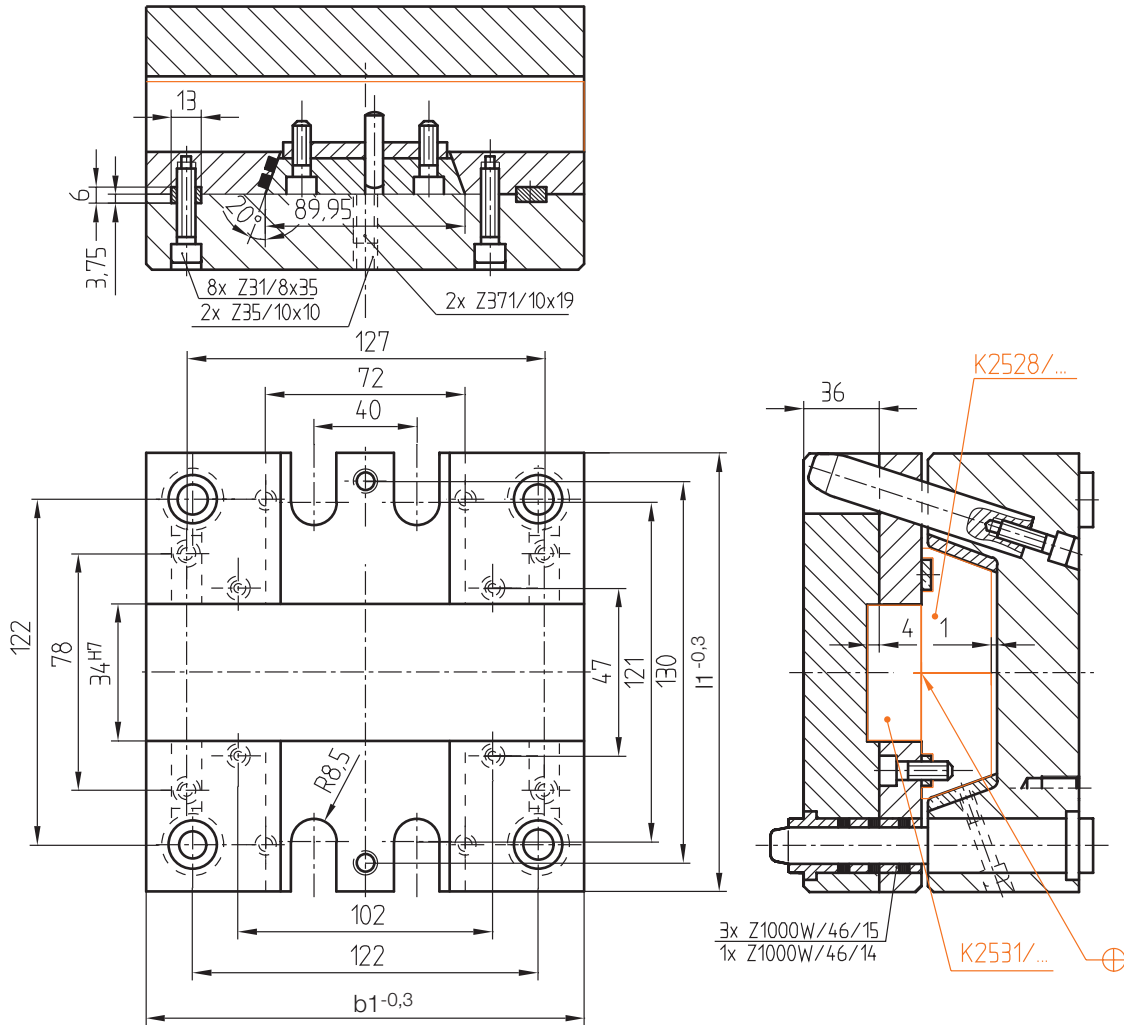


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

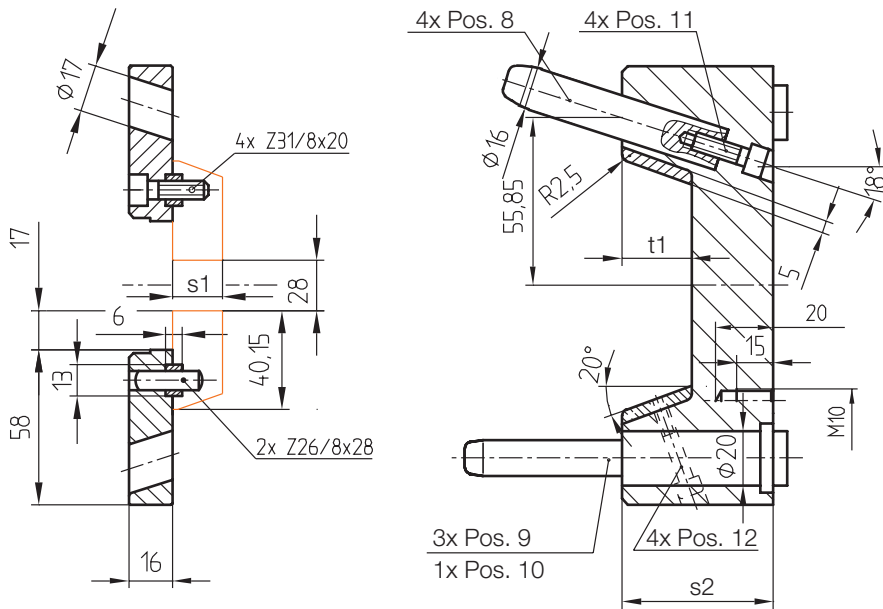


K 2500 / 156x156

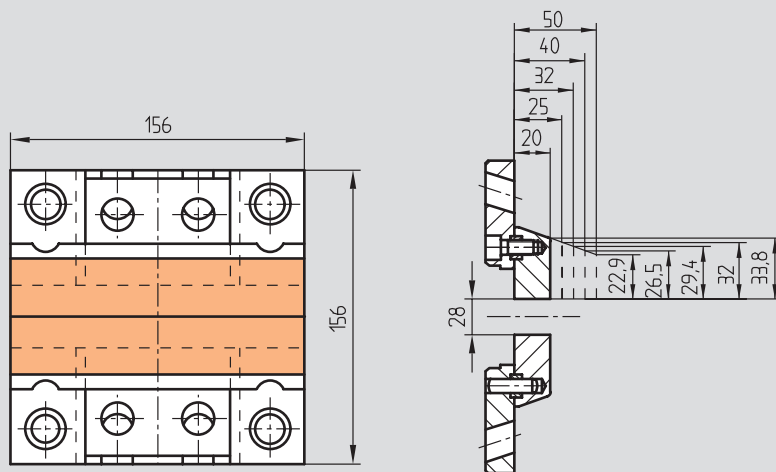
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 12 Z31/...	Pos. 11 Z31/...	Pos. 10 Z04/...	Pos. 9 Z04/...	Pos. 8 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x30	8x18	46x14x65	46x15x65	16x 90	18	46	156	156	20	K 2500/156x156x20
		56x14x75	56x15x75		23	56			25	
	66x14x65	66x15x65	16x100	30	66	32				
6x35	8x40	76x14x55	76x15x55	16x100	38	76	156	156	40	K 2500/156x156x20
		86x14x55	86x15x55		48	86			50	

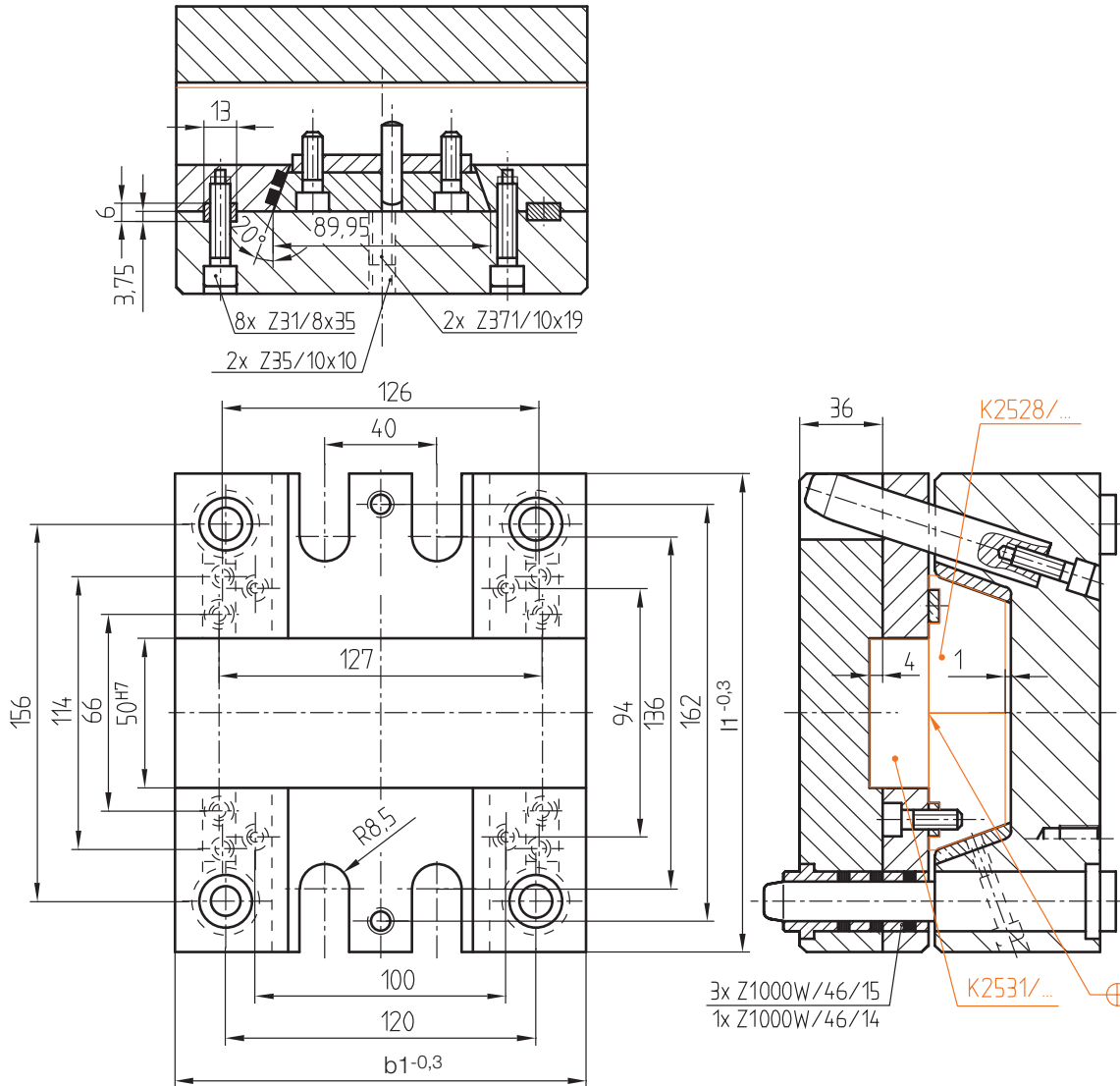


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail



K 2500 / 156x196

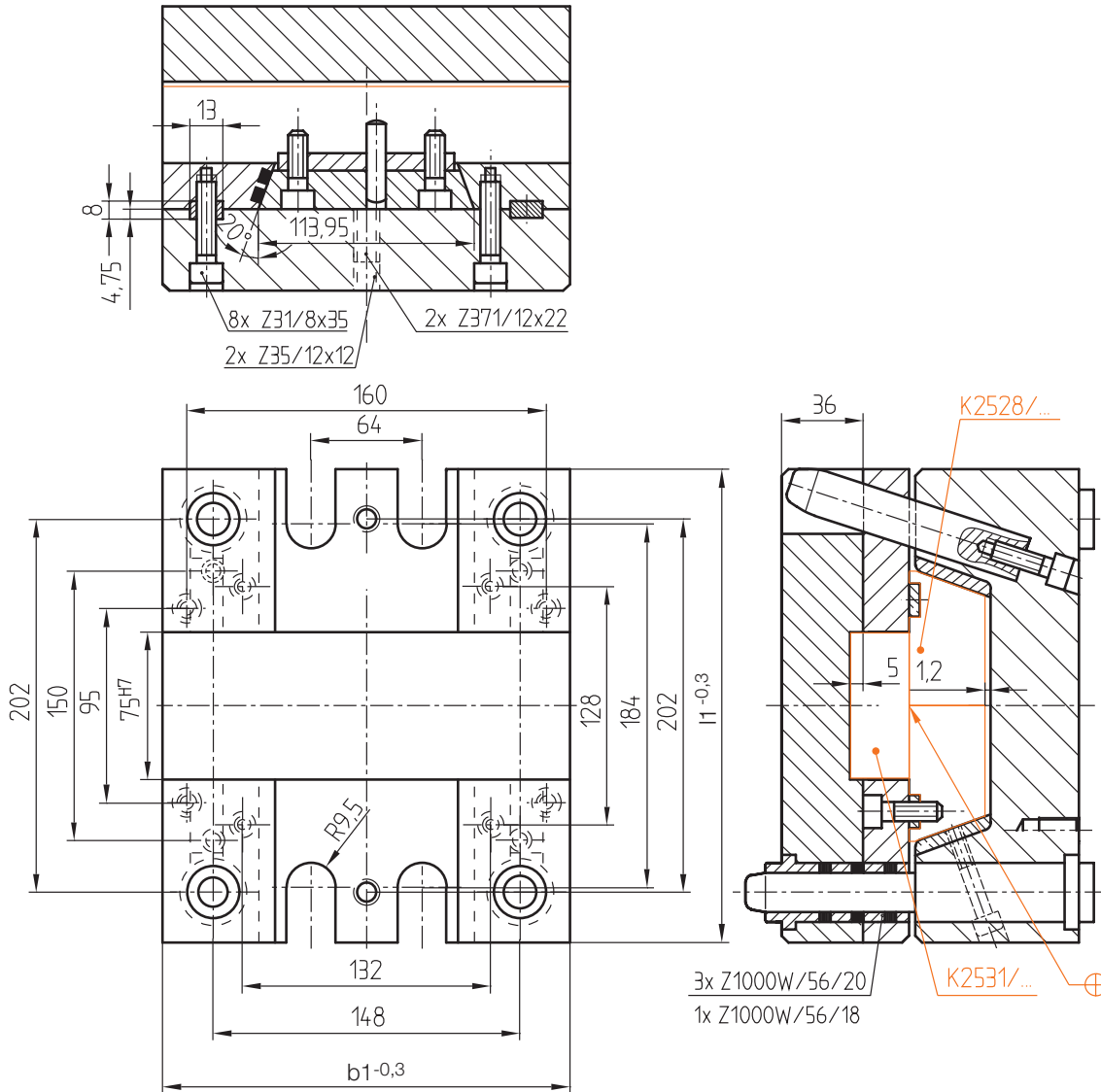
Backenwerkzeug
Split mould kit
Moule à tiroir



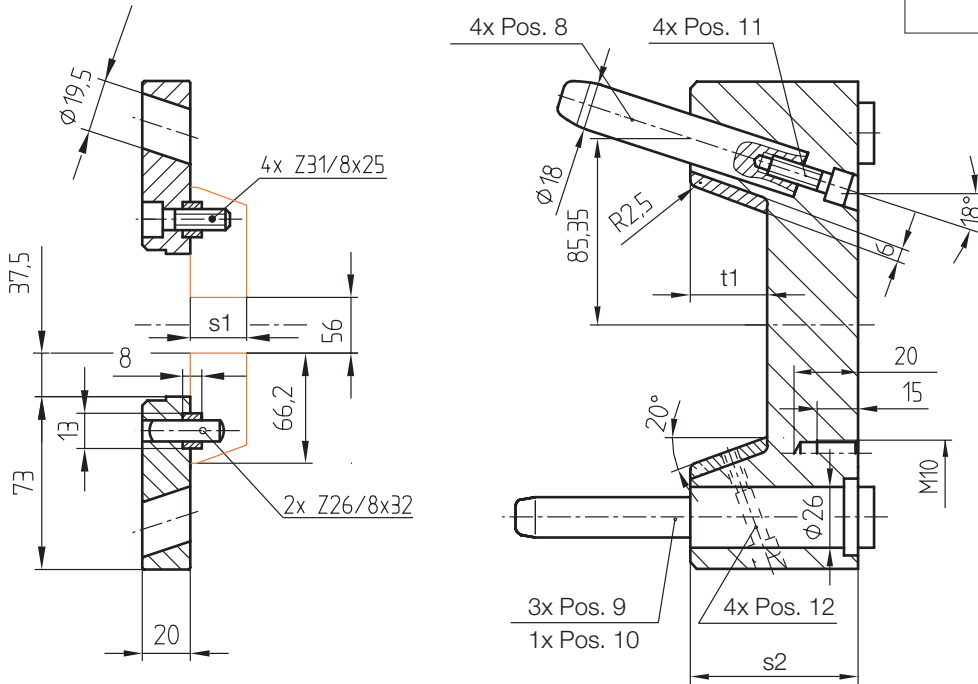
Pos. 12 Z31/...	Pos. 11 Z31/...	Pos. 10 Z04/...	Pos. 9 Z04/...	Pos. 8 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x40	8x25	56x14x95	56x15x95	16x118	18	56	156	196	20	K 2500/156x196x20
					23				25	
		66x14x95	66x15x95	16x132	30	66			32	
		8x35	76x14x95	76x15x95	38	76			40	
6x45	8x45	86x14x95	86x15x95		48	86		50	50	

K 2500 / 190x246

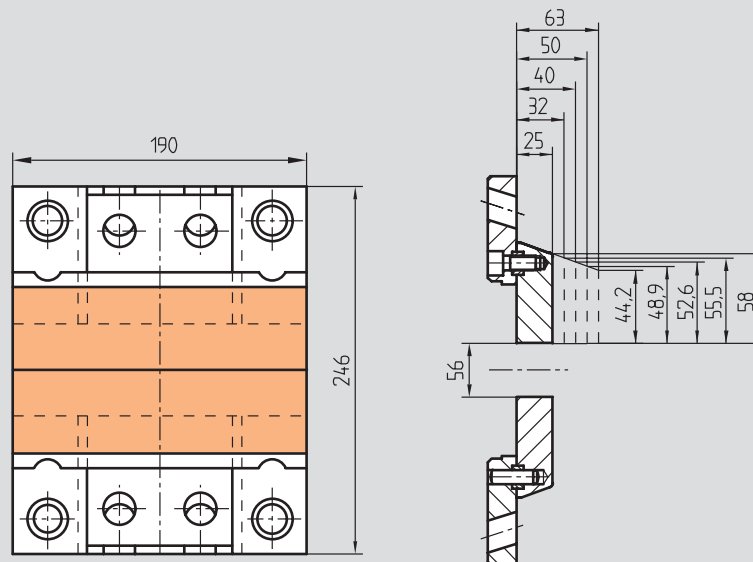
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 12 Z31/...	Pos. 11 Z31/...	Pos. 10 Z04/...	Pos. 9 Z04/...	Pos. 8 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x50	10x25	66x18x145	66x20x145	18x150	23	66	190	246	25	K 2500/190x246x25
					30				32	
					38				40	
6x55	10x25	86x18x125	86x20x125	18x170	48	86			50	50
					61				63	

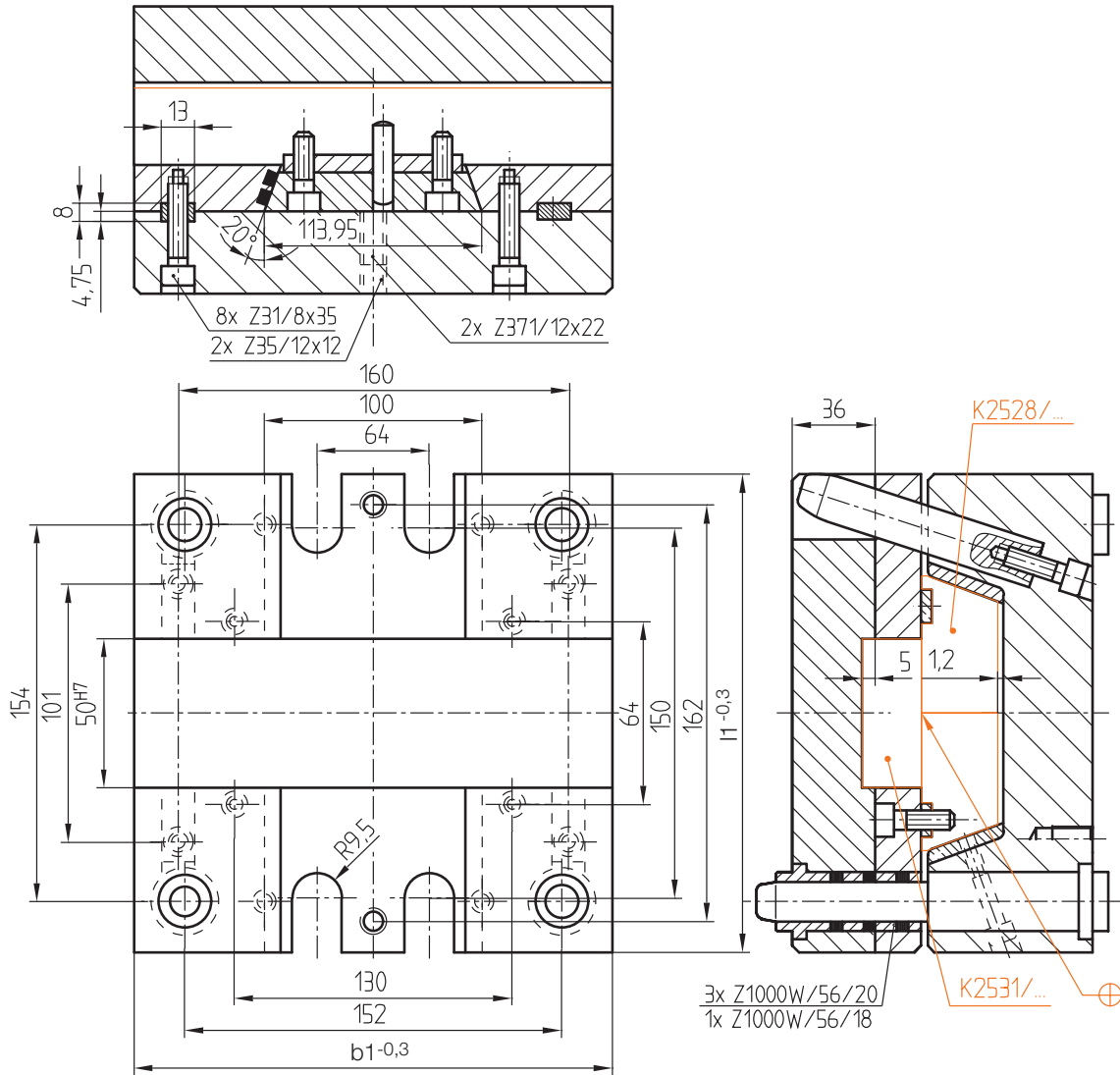


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail



K 2500 / 196x196

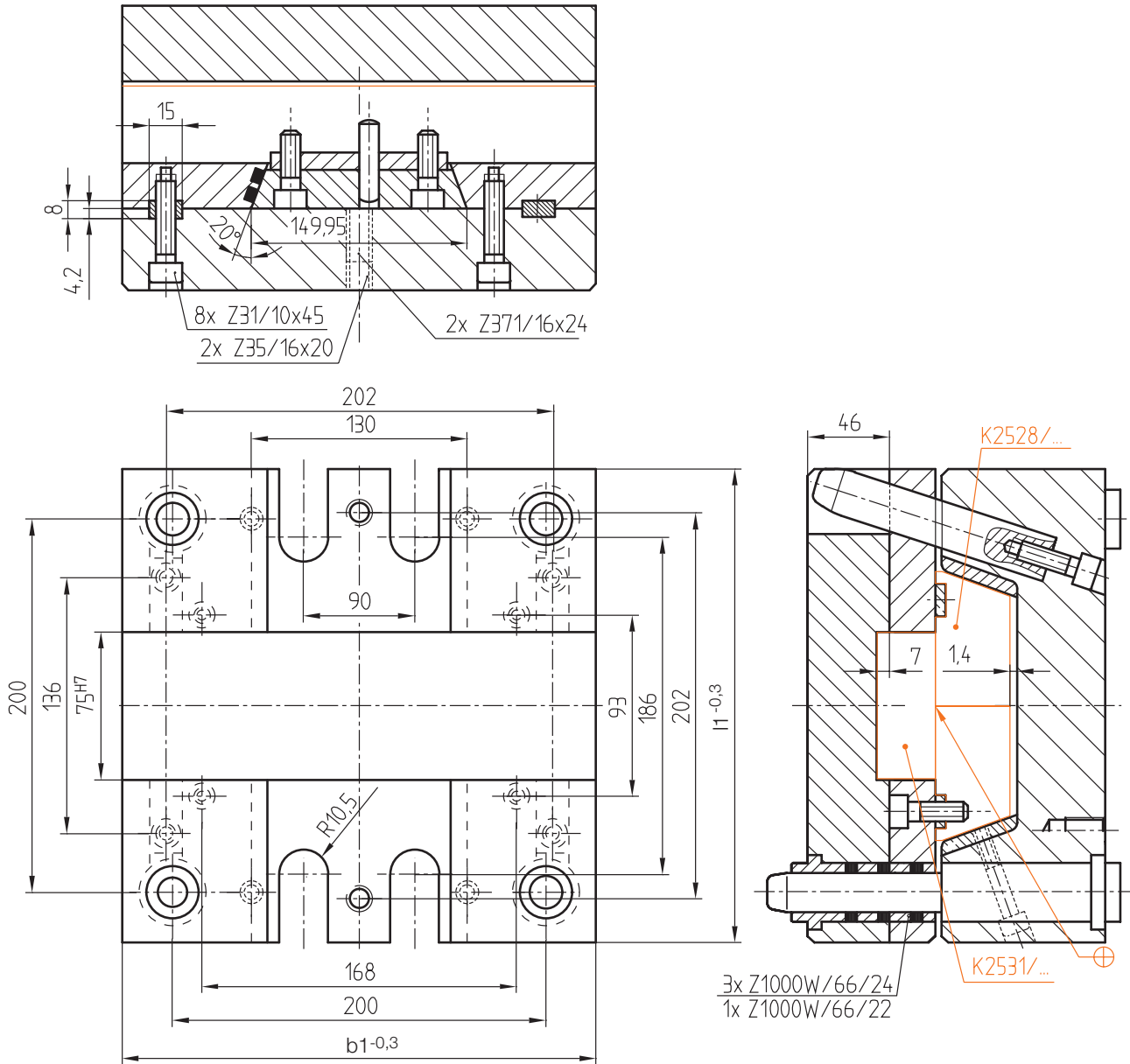
Backenwerkzeug
Split mould kit
Moule à tiroir



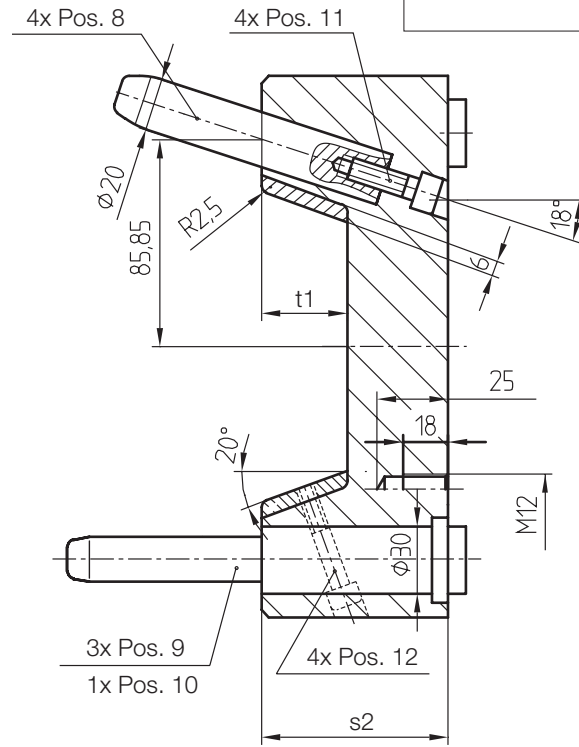
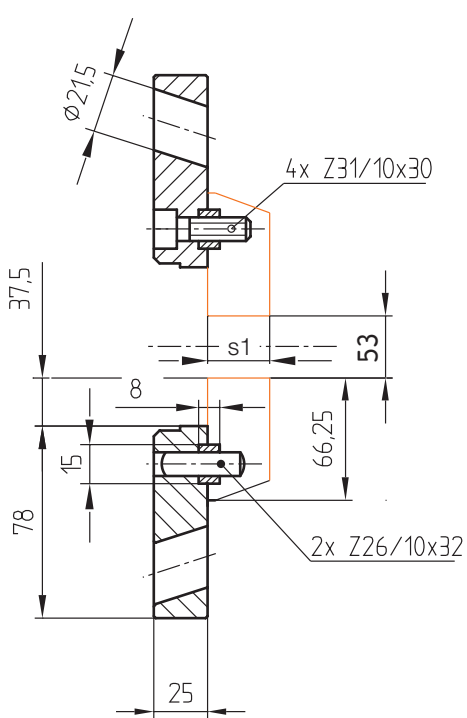
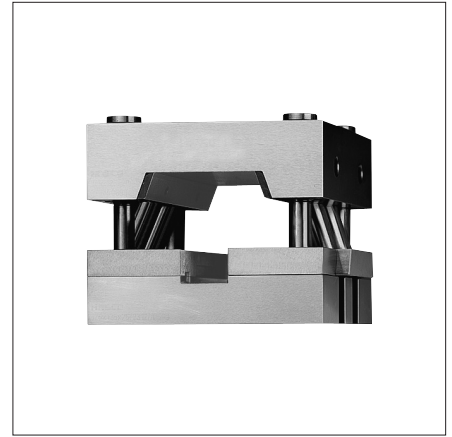
Pos. 12	Pos. 11	Pos. 10	Pos. 9	Pos. 8	t1	s2	b1	l1	s1	Nr./No.
Z31/...	Z31/...	Z04/...	Z04/...	Z010/...						
6x40	10x25	66x18x 95	66x20x 95	18x125	23	66	196	196	25	K 2500/196x196x25
					30				32	32
	10x35	76x18x 95	76x20x 95		38	76			40	40
6x50	10x30	86x18x 95	86x20x 95	18x140	48	86			50	50
6x45	10x60	116x18x115	116x20x 115		61	116			63	63

K 2500 / 246x246

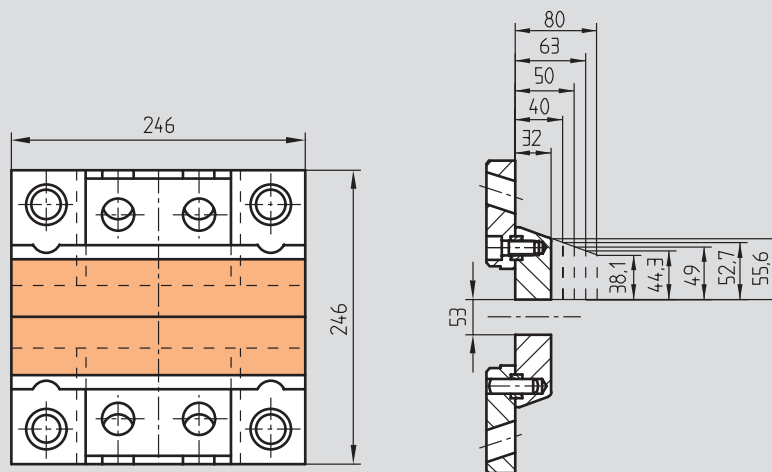
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 12	Pos. 11	Pos. 10	Pos. 9	Pos. 8	t1	s2	b1	l1	s1	Nr./No.
Z31/...	Z31/...	Z04/...	Z04/...	Z010/...	30	66	246	246	32	K 2500/246x246x32
6x50	10x20	66x22x155	66x24x155	20x150	38	76			40	40
		76x22x115	76x24x115		48	76			50	50
6x55	10x20			20x160	61	116			63	63
6x60	10x60	116x22x115	116x24x115		78	136			80	80
6x60	10x80	136x22x135	136x24x135							

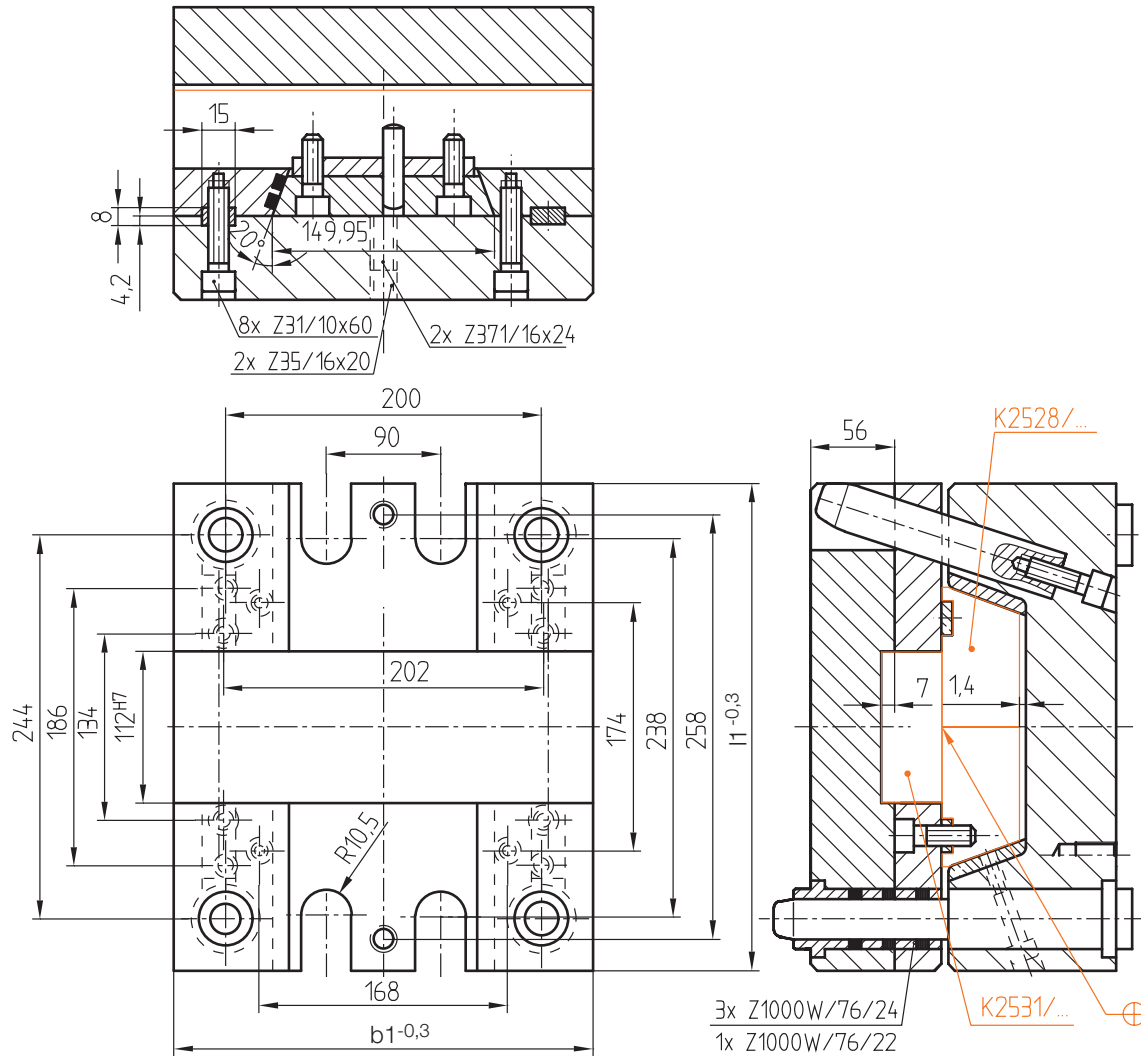


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

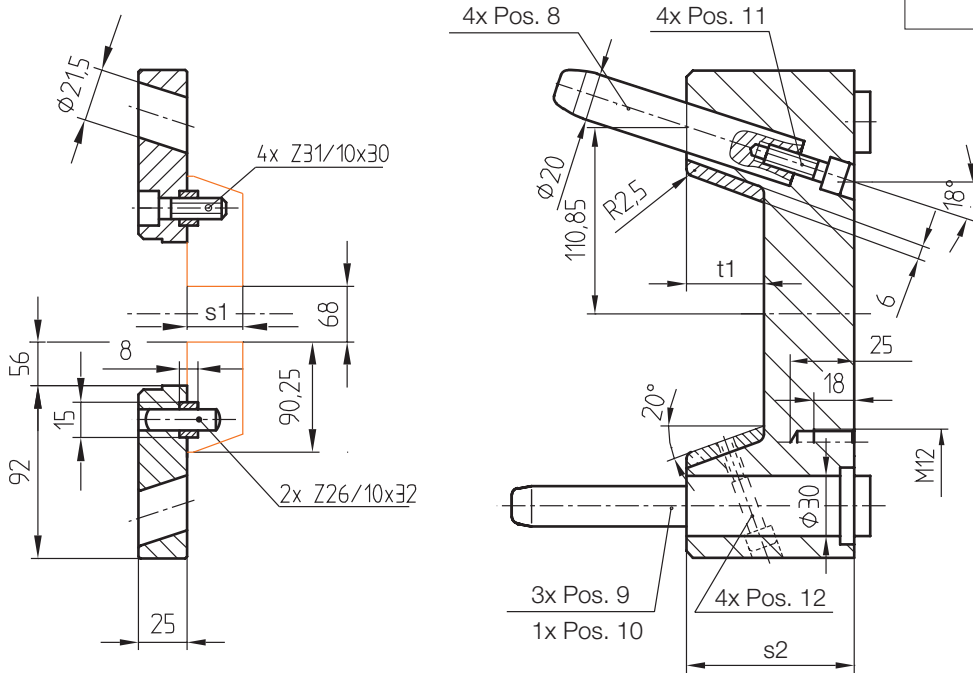
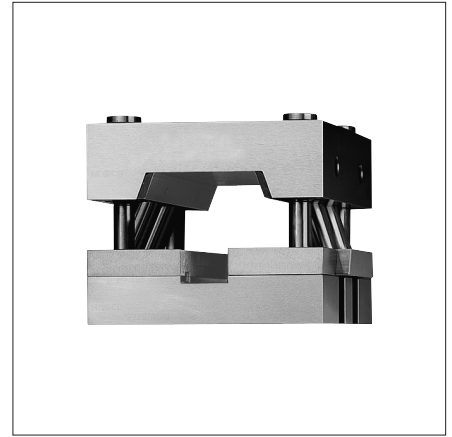


K 2500 / 246x296

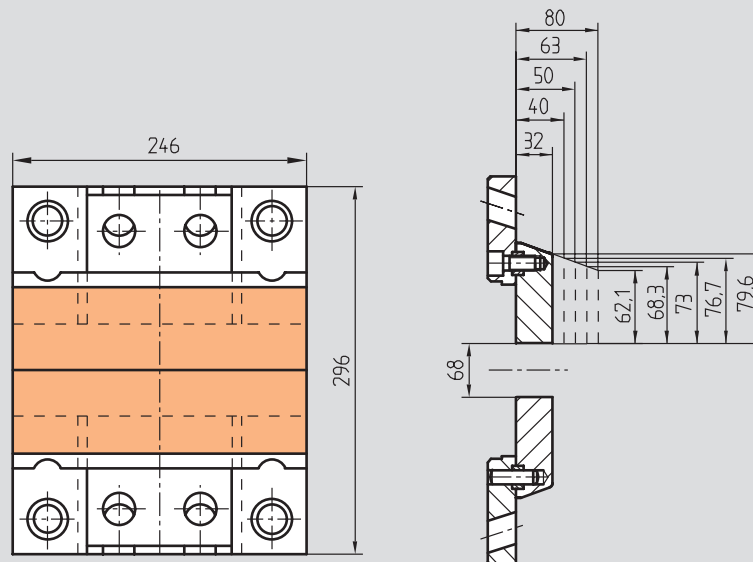
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 12 Z31/...	Pos. 11 Z31/...	Pos. 10 Z04/...	Pos. 9 Z04/...	Pos. 8 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x55	10x25	66x22x155	66x24x155	20x170	30	66	246	296	32	K 2500/246x296x32
	10x35	76x22x145	76x24x145		38	76			40	
6x60	10x45	86x22x135	86x24x135	20x190	48	86			50	50
6x55	10x55	116x22x155	116x24x155		61	116			63	63
6x65	10x75	136x22x135	136x24x135		78	136			80	80

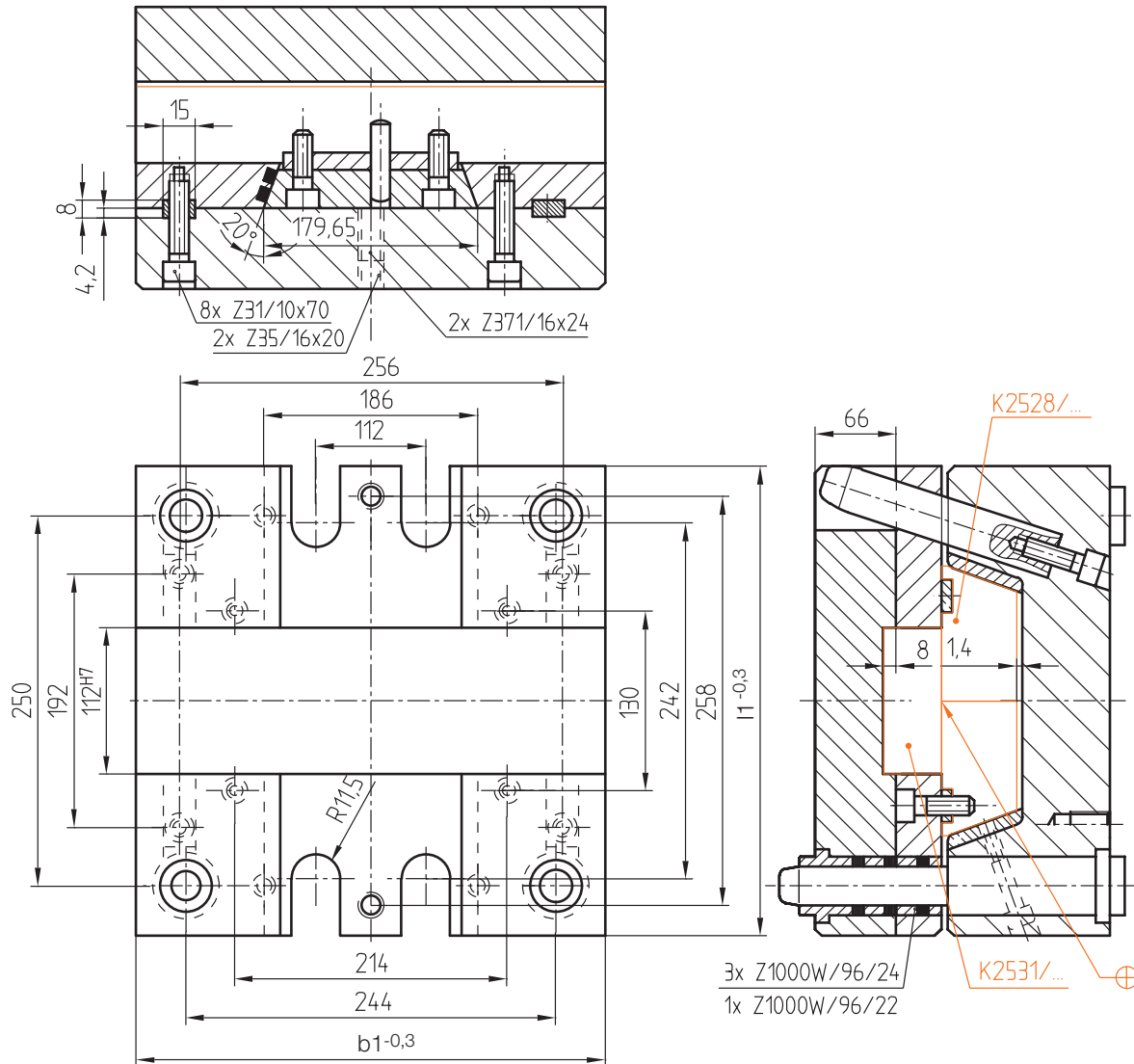


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

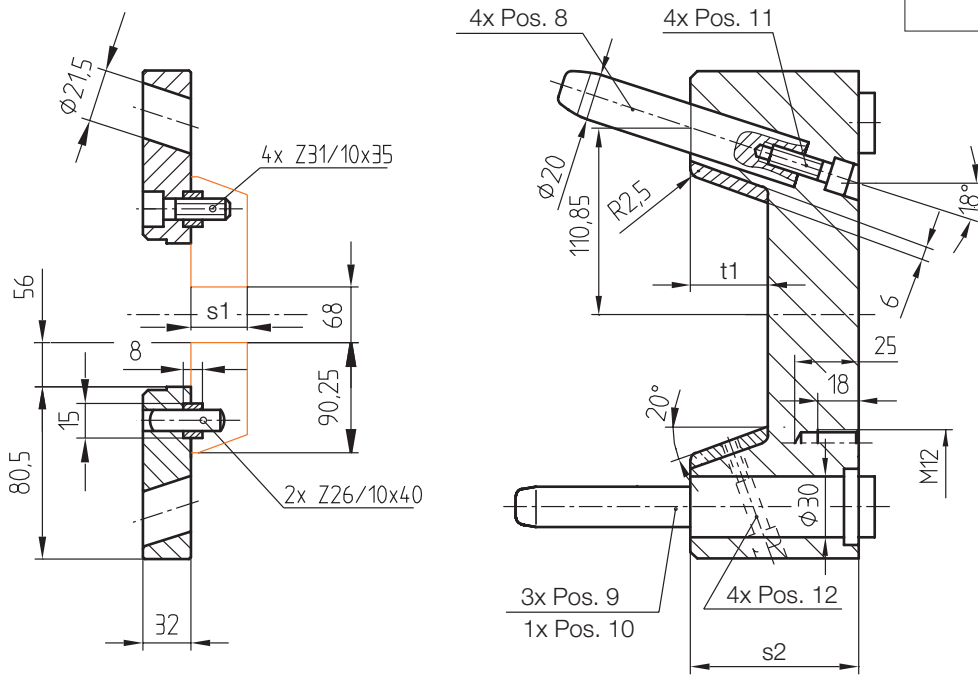


K 2500 / 296x296

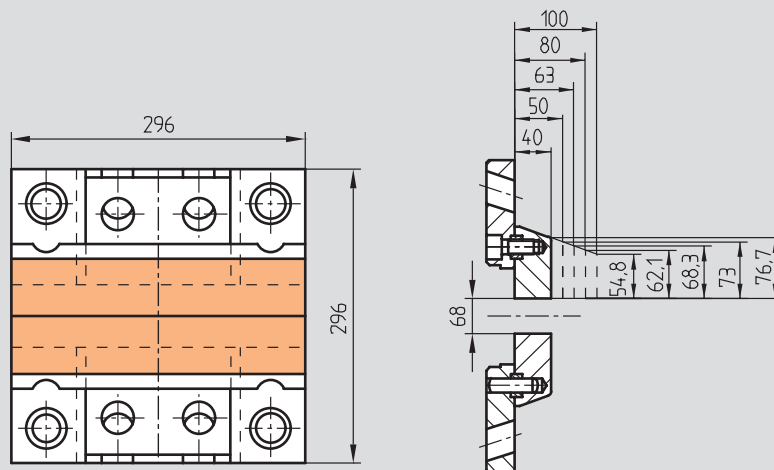
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 12 Z31/...	Pos. 11 Z31/...	Pos. 10 Z04/...	Pos. 9 Z04/...	Pos. 8 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x55	10x35	76x22x145	76x24x145	20x170	38	76	296	296	40	K 2500/296x296x 40
6x60					48				50	50
6x55	10x55	116x22x115	116x24x115	20x190	61	116			63	63
6x60	10x75	136x22x135	136x24x135		78	136			80	80
6x65	10x80	156x22x155	156x24x155	20x210	98	156			100	100



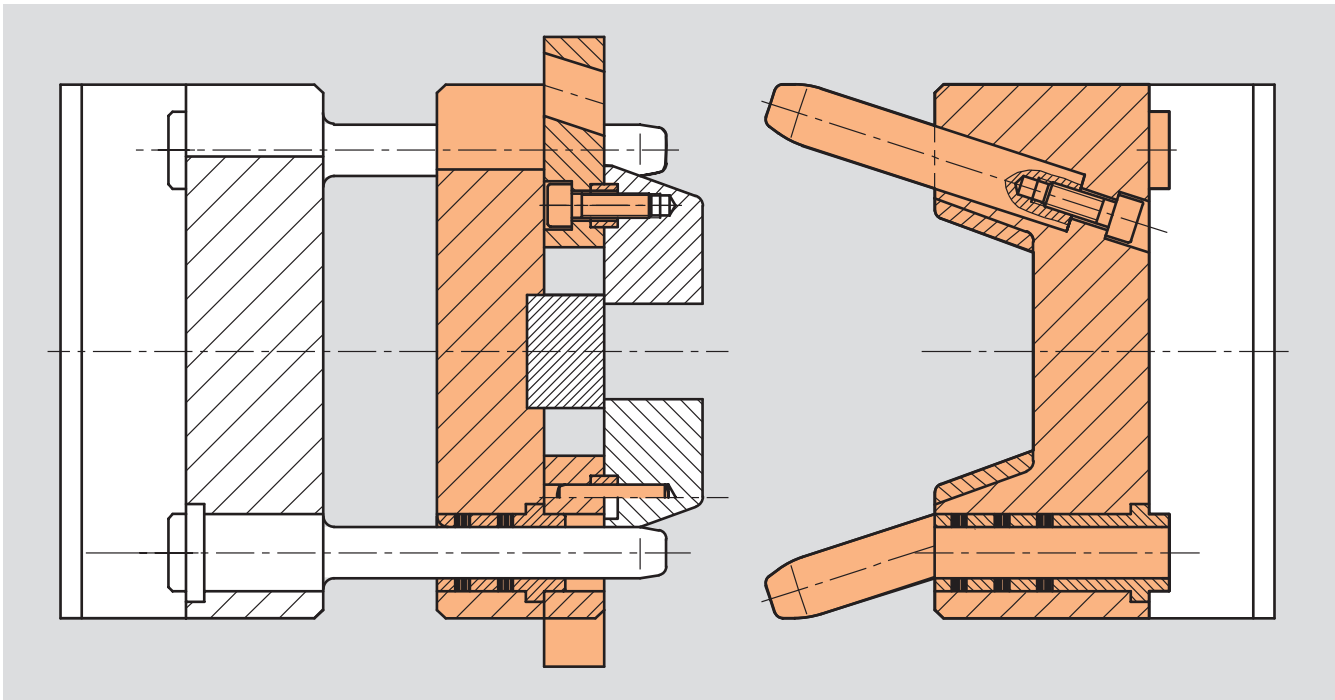
Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail



K2501/...
Backenwerkzeug
(Abstreiferversion)

K2501/...
Split mould kit
(Stripper type)

K2501/...
Moule à tiroirs
(version à démouleur)



*Die Abmessungen von K2501/...
sind kompatibel zum HASCO
K-Programm.*

*The dimensions of K2501/... are
compatible with the HASCO
K programme.*

*Les cotes du modèles K2501/...
sont compatibles avec la gamme K
de HASCO.*

Besondere Merkmale

- Abhängig von der Spritzteilgeometrie kann zwischen der Auswerferversion K2500/... und der Abstreiferversion K2501/... gewählt werden.
- K2500/... und K2501/... sind jeweils in 8 Größen mit je 5 Backenhöhen verfügbar.
- Backen (K2528/...) und Kernhalte-einsatz (K2531/...) gehören nicht zum Lieferumfang.
- Bauteile und Backenbetätigung liegen innerhalb der Werkzeug-abmessungen.
- Nachschleifbare Backenführung.
- Austauschbare Druckplatten.
- Backen (K2528/...) voll nutzbar für Kontur und Kühlung.
- Backenlänge entspricht Werkzeug-breite.
- Passfeder-Nut in K2528/... (Mat. 1.2767) mit Aufmaß zum Nach-schleifen nach dem Härten.
- Härteverzug der Backen ohne Einfluss auf die Führung.
- Länge des Kernhalte-einsatzes (K2531/...) entspricht Werkzeug-breite.
- Schwalbenschwanz-Führung leicht nachstellbar.
- Kein Verkanten der Führung durch günstiges Längen-/Breitenverhältnis.
- Sicherung der Backen durch inte-grierte Kugelrasten.
- Freier Fall der Spritzteile.
- Selbstschmierende Backenführungs-leisten und Führungsbuchsen.

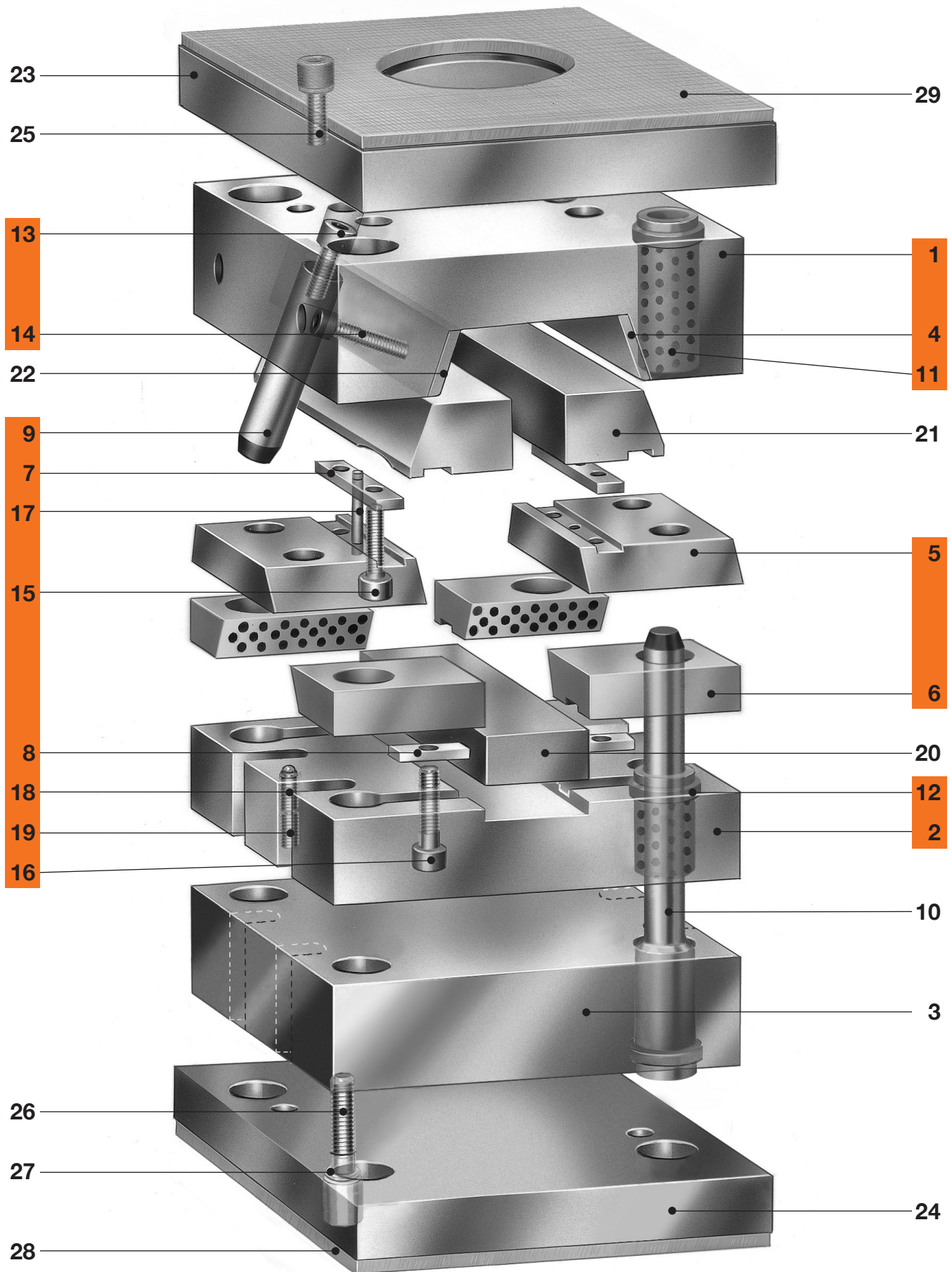
Features

- To suit moulding geometry, the designer has the choice between Ejector type K2500/... and the Stripper type K2201/...
- K2500/... as well as K2501/... are available in 8 sizes with 5 split heights each.
- Splits (K2528/...) and core retainer insert (K2531/...) are not supplied.
- Construction elements and angle pins actuation are positioned within the mould.
- Re grindable split guides.
- Interchangeable wear plates.
- Splits (K2528/...) can be fully utilized for cavity contour and cooling.
- Split length is equal to mould width.
- Parallel slot in K2528/... (Mat. 1.2767) with dimensions re-ground according to hardness.
- Distortion on hardening of splits does not affect the guiding system.
- Length of core retainer insert (K2531/...) is equal to mould width.
- Easy readjustment of dovetailed guide strips.
- No tilting of split guide due to favourable length/width ratio.
- Splits are secured by integrated spring plungers.
- Undisturbed drop of mouldings.
- Guide strips and guide bushings are offered in selflubricating design.

Caractéristiques techniques

- Il est possible de choisir, en fonction de la géométrie des pièces à injecter, entre la version à éjecteur K2500/... et la version à démouleur K2501/...
- K2500/... et K2501/... sont dispo-nibles chacun en 8 tailles disposant de 5 hauteurs différentes de tiroirs.
- Les plaques (K2528/...) et le support de noyau (K2531/...) ne sont pas compris dans la livraison.
- Les éléments de construction et d'actionnement des tiroirs sont positionnés à l'intérieur des cotes du moule.
- Le guidage de plaques peut être à nouveau poli.
- Les plaques de pression sont interchangeables.
- Tiroirs (K2528/...) entièrement utilisables pour l'empreinte et le refroidissement.
- La longueur de tiroirs correspond à la largeur du moule.
- Gorge pour ressort d'ajustage dans K2528/... (Mat. : 1.2767) avec surcote pour ponçage ultérieur d'ajustage après le trempage.
- Les éventuelles déformations des tiroirs (trempe), n'influent pas le système de guidage.
- La longueur du support de noyau (K2531/...) correspond à la largeur du moule.
- Guidage en queue d'aronde facile-ment ajustable.
- Blocage impossible du guidage en raison d'un rapport longueur/largeur étudié.
- Blocage des tiroirs assuré par vis à billes intégrées.
- Dégagement libre des pièces injectées.
- Barres conductrices des tiroirs et bagues de guidage exemptes d'entretien.





K 2501/... Abstreiferversion
K 2501/... Stripper type
K 2501/... Version à démouleur

Pos.	Benennung	Designation	Désignation	Stück Quant. Pièce	Nr./ Norm No./ Standard N°/ Norme	Material/ Härte Material/ Hardness Matériau/ Dureté
1	Backenschließplatte	Chase bolster	Plaque de fermeture des tiroirs	1		1.2312
2	Backengrundplatte	Splits retainer plate	Plaque de base des tiroirs	1		1.2312
4	Druckplatte	Wear plate	Plaque de pression	2		1.2842/53 + 2 HRC
5	Backenführung	Split guide	Guide des tiroirs	2		1.2767/52 ± 2 HRC
6	Backenführungsleiste	Guide strip	Barre conductrice des tiroirs	4		2.0492
7	Passfeder, lang	Parallel key, long	Ressort d'ajustage, long	2		1.2312
8	Passfeder, kurz	Parallel key, short	Ressort d'ajustage, court	4		1.2312
9	Schrägsäule	Angle pin	Doigt incliné	4	Z 010/...	1.0401
11	Führungsbuchse	Guide bushing	Bague de guidage	3 + 1	Z 1000W/...	DIN 16761-C
12	Führungsbuchse	Guide bushing	Bague de guidage	3 + 1	Z 1000W/...	DIN 16761-C
13	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z 31/... DIN EN ISO 4762	10.9
14	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z 31/... DIN EN ISO 4762	10.9
15	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z 31/... DIN EN ISO 4762	10.9
16	Zylinderschraube	SHC-screw	Vis à tête cylindrique	8	Z 31/... DIN EN ISO 4762	10.9
17	Zylinderstift	Dowel pin	Goupille cylindrique	2	Z 26/... DIN EN 28735	
18	Federndes Druckstück	Spring plunger	Vis à bille sans tête	2	Z 371/...	1.4305
19	Gewindestift	Set screw	Vis sans tête	2	Z 35/... DIN 913	

Sonstige Bauteile


Extra Bestellung erforderlich

Other components

Extra order required

Autres éléments

Commande spéciale nécessaire

Pos.	Benennung	Designation	Désignation	Stück Quant. Pièce	Nr./ Norm No./ Standard N°/ Norme	Material/ Härte Material/ Hardness Matériau/ Dureté
3	Kernhalteplatte	Core retainer plate	Plaque de noyau	1	K 20/...	1.1730
10	Führungssäule	Guide Pillar	Colonne de guidage		Z 04/...	DIN 16761-A
20	Kernhalteinsatz	Core retainer insert	Support de noyau	1	K 2531/...	1.2767
21	Backe	Split	Tiroir	2 	K 2528/...	1.2767/ 1.2343 ESU
22	Druckplatte (Ersatzteil)	Wear plate (spare part)	Pl. de pression (pièce de rech.)		K 2526/...	1.2842/53 + 2 HRC
23	Aufspannplatte	Clamping plate	Plaque de fixation	1)	K 10/...; K 12/...	1.1730
24	Aufspannplatte	Clamping plate	Plaque de fixation	1)	K 11/...; K 13/...	1.1730
25	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z 31/... DIN EN ISO 4762	10.9
26	Zylinderschraube	SHC-screw	Vis à tête cylindrique	4	Z 31/... DIN EN ISO 4762	10.9
27	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	8	Z 691/...	DIN 17221
28	Wärmeisolerplatte	Thermal insulating sheet	Plaque isolante	1)	Z 121/...; Z 1211/...; Z 1211/...	
29	Wärmeisolerplatte	Thermal insulating sheet	Plaque isolante	1)	Z 121/...; Z 1211/...	

 = Verpackungseinheit / Packing unit / Unité d'emballage

1) Typ und Abmessung ist vom Konstrukteur festzulegen

1) Type and dimension is to be fixed by the designer

1) Le type et les cotes doivent être définis par le constructeur.

 **Beachten:**

Die Kernhalteplatte, Pos. 3, muss je nach konstruktiver Ausführung mit Freisparungen für die Schrägsäulen Pos. 9 versehen werden.

 **Caution:**

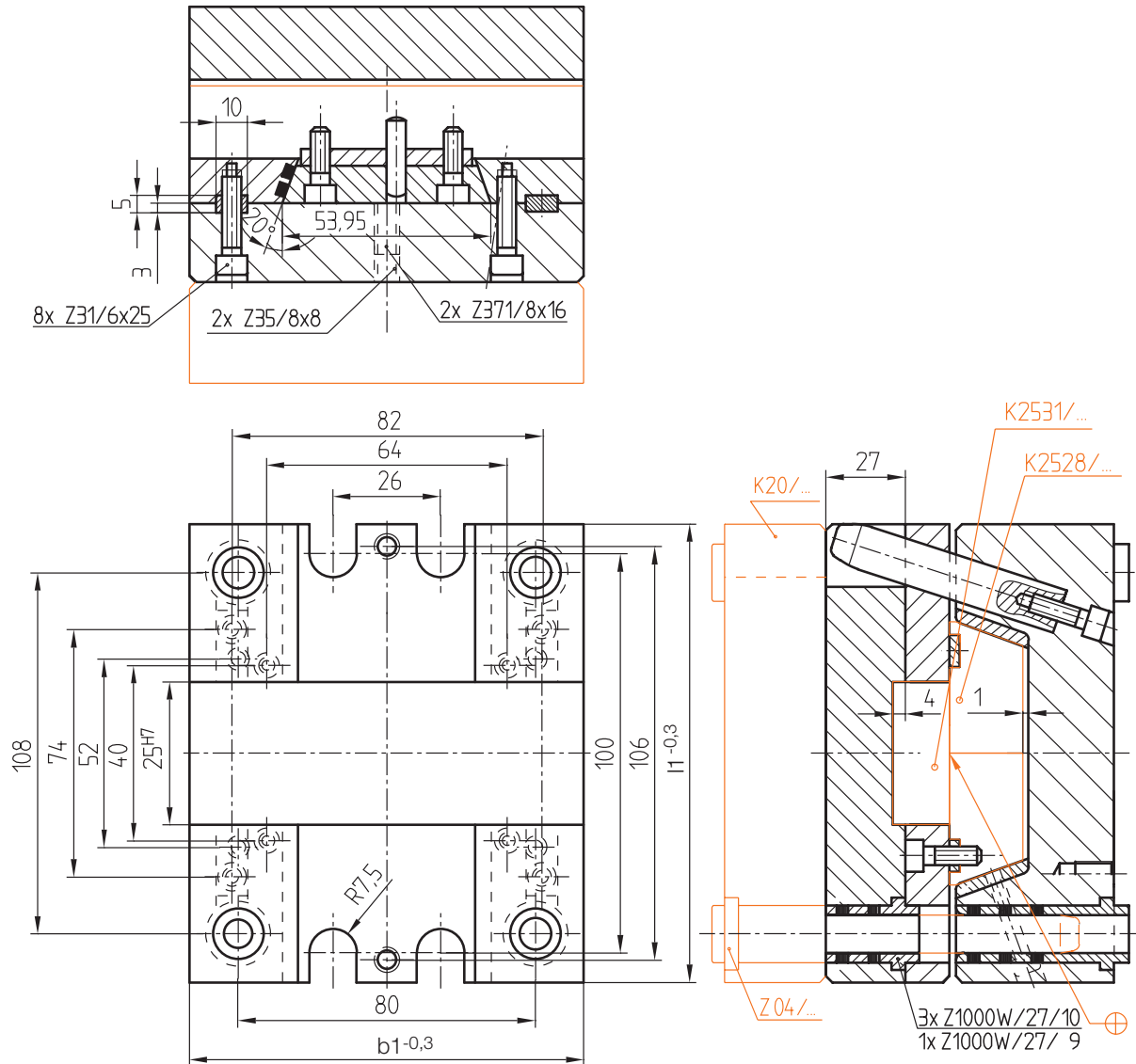
According to the design the backing plate, item 3 must be provided with clearance recesses for angle pins, item 9.

 **Remarque:**

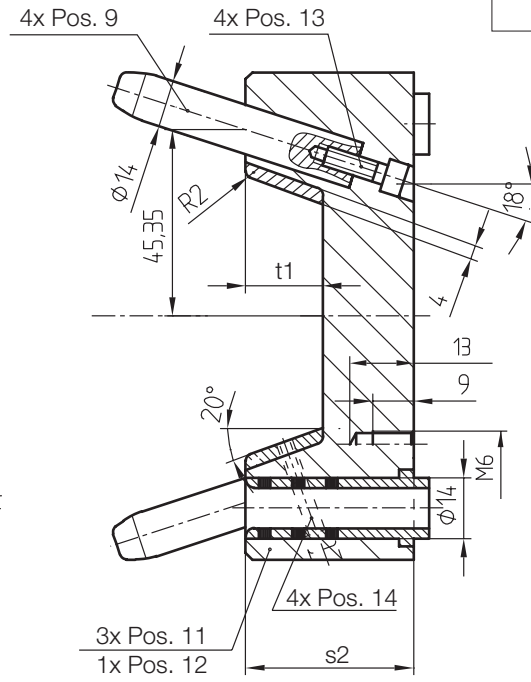
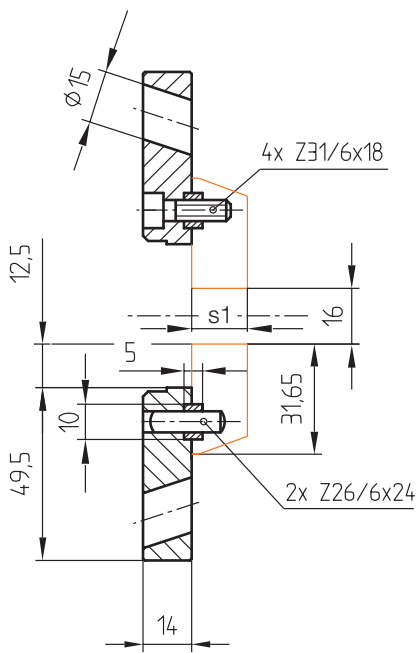
La plaque de noyau, pos. 3, doit présenter, selon le modèle construit, des orifices libres pour les doigts inclinés, pos. 9.

K 2501/ 100x130

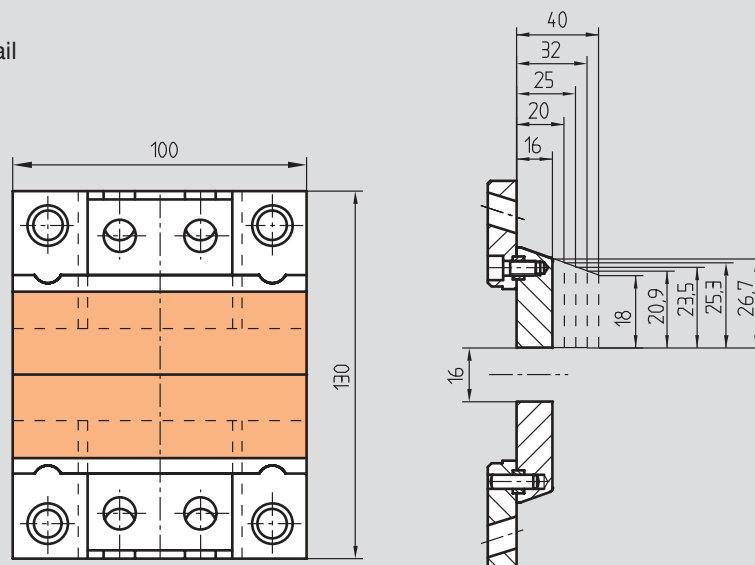
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14 Z31/...	Pos. 13 Z31/...	Pos. 12 Z1000W/...	Pos. 11 Z1000W/...	Pos. 9 Z010/...	t1	s2	b1	l1	s1	Nr./No.
5x30	6x20	46x9	46x10	14x67	14	46	100	130	16	K 2501/100x130x16
5x25	6x25	56x9	56x10	14x75	23	56	100	130	20	20
									25	25
5x30	6x25	56x9	56x10	14x75	30	56	100	130	32	32
									40	40
	6x35	66x9	66x10	14x75	38	66	100	130	40	40

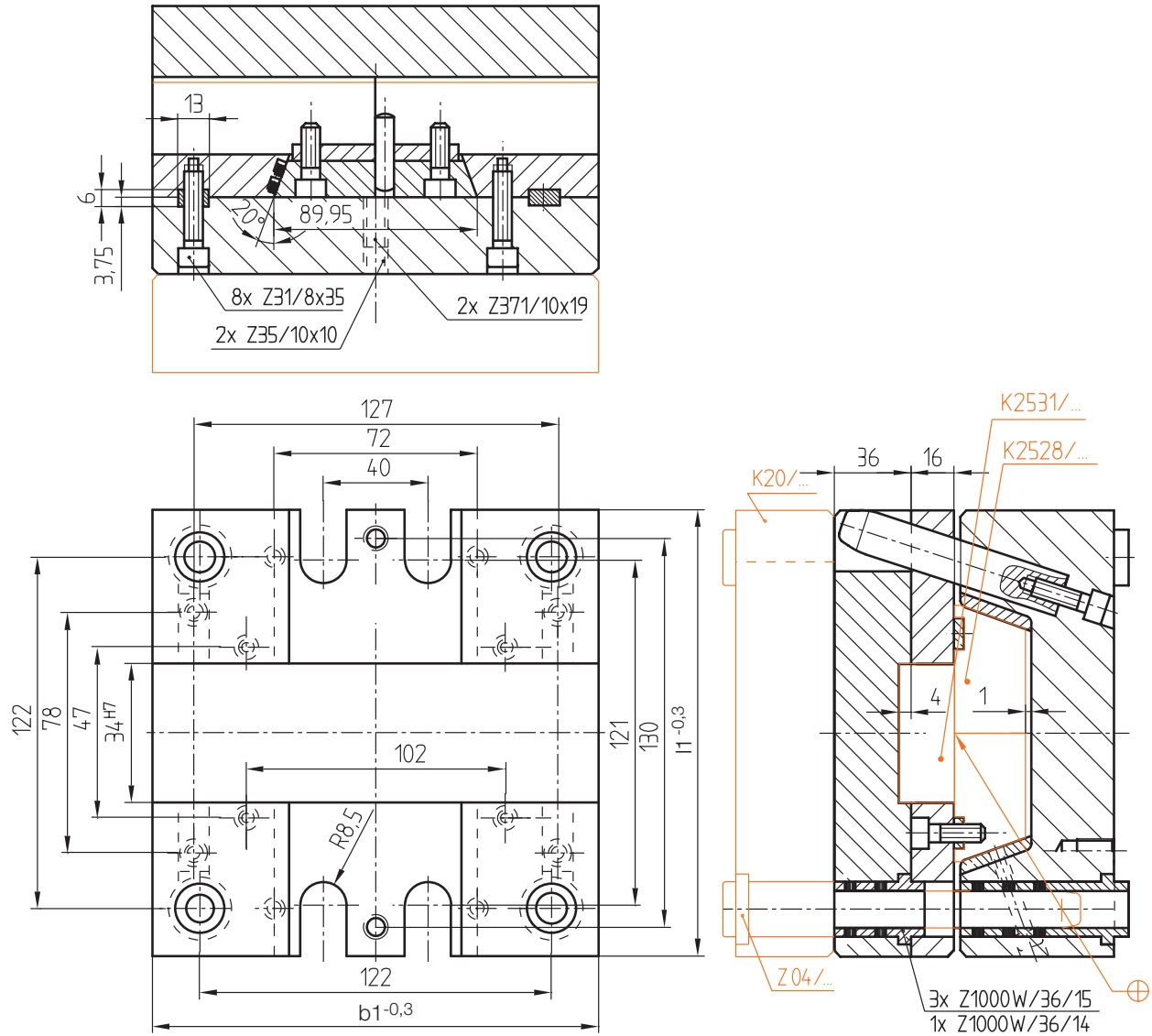


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

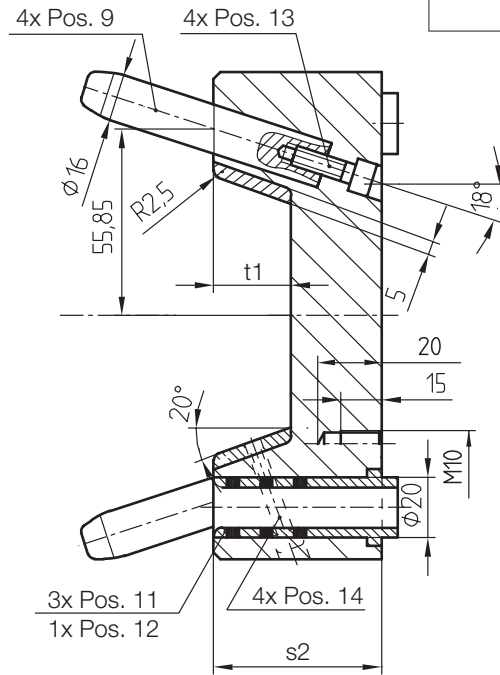
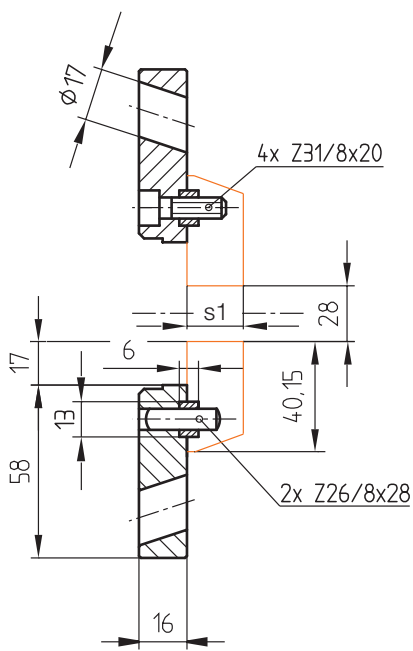
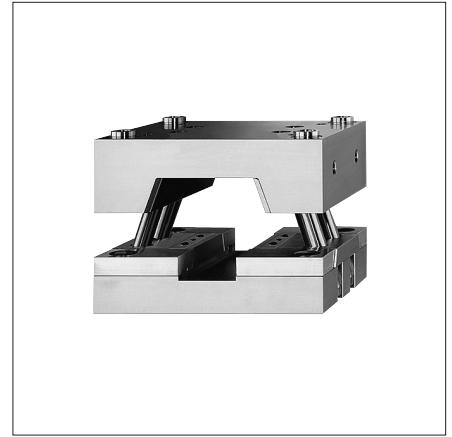


K 2501/ 156x156

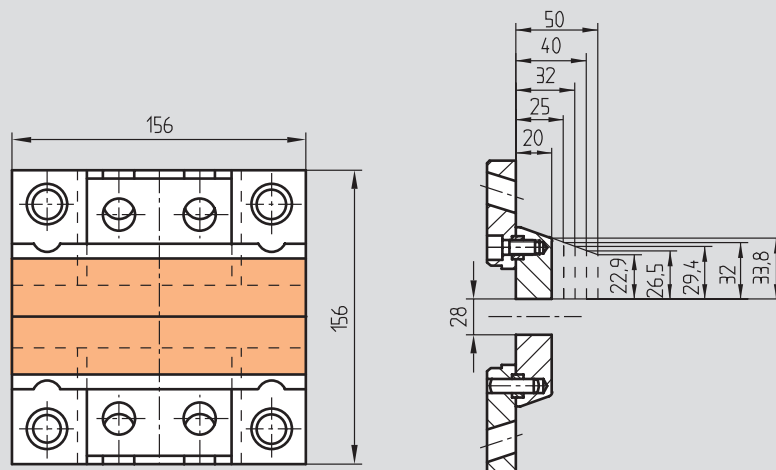
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14 Z31/...	Pos. 13 Z31/...	Pos. 12 Z1000W/...	Pos. 11 Z1000W/...	Pos. 9 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x30	8x18	46x14	46x15	16x 90	18	46	156	156	20	K 2501/156x156x20
		56x14	56x15		23	56			25	
	66x14	66x15	16x100	30	66	32				
6x35	8x40	76x14	76x15	16x100	38	76	156	156	40	K 2501/156x156x20
	8x50	86x14	86x15		48	86			50	

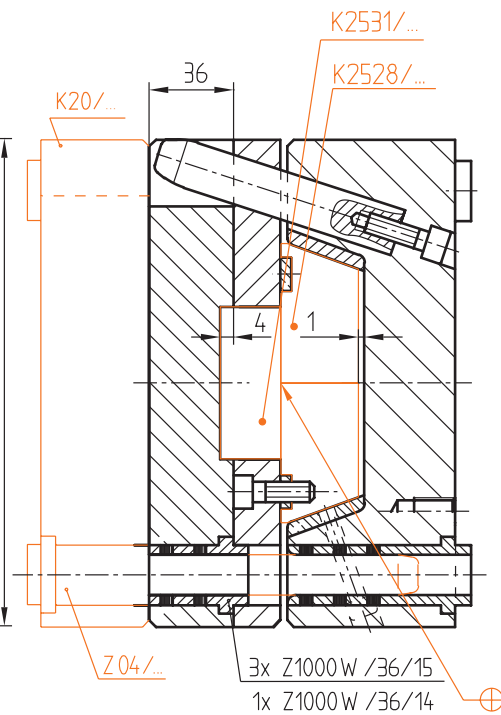
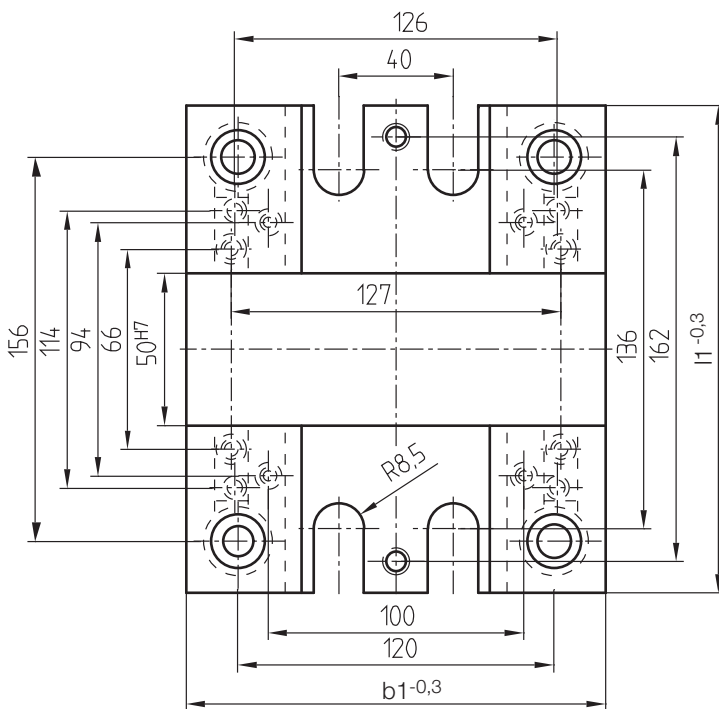
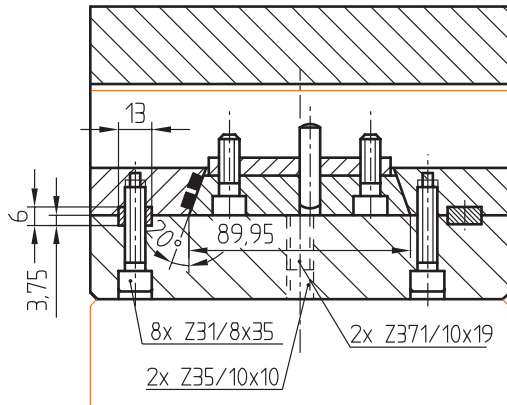


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

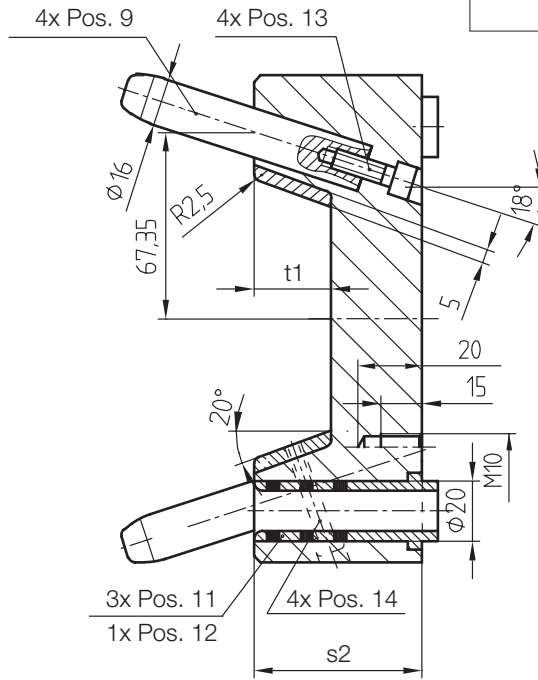
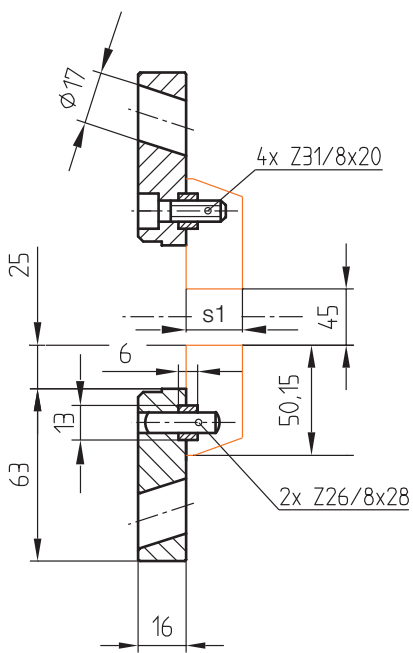
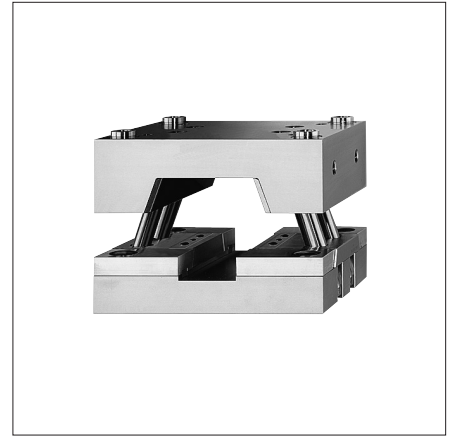


K 2501/ 156x196

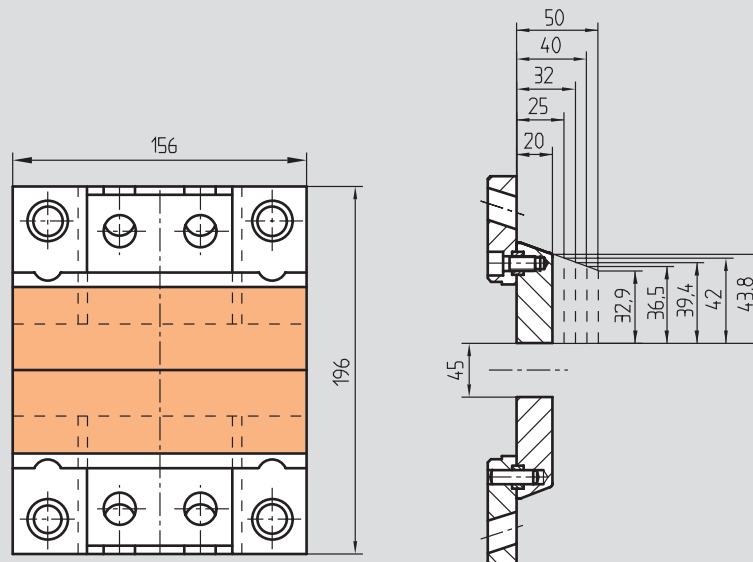
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14	Pos. 13	Pos. 12	Pos. 11	Pos. 9	t1	s2	b1	l1	s1	Nr./No.
Z31/...	Z31/...	Z1000W/...	Z1000W/...	Z010/...	18	56	156	196	20	K 2501/156x196x20
6x40	8x25	56x14	56x15	16x118	23				25	25
		66x14	66x15	16x132	30	66			32	32
	8x35	76x14	76x15		38	76			40	40
6x45	8x45	86x14	86x15		48	86			50	50

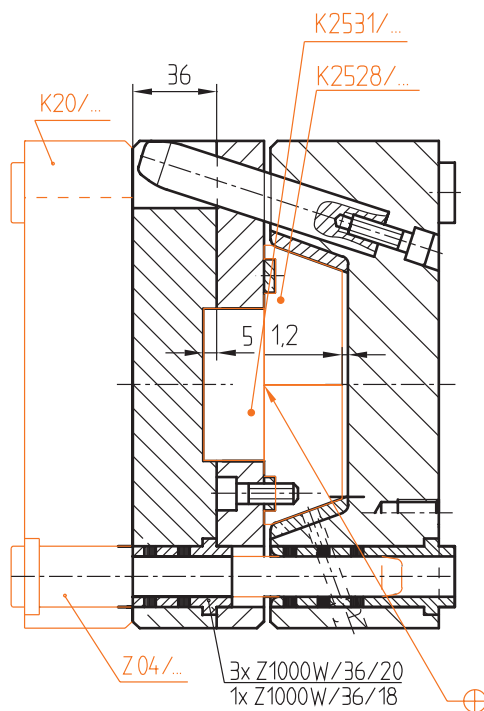
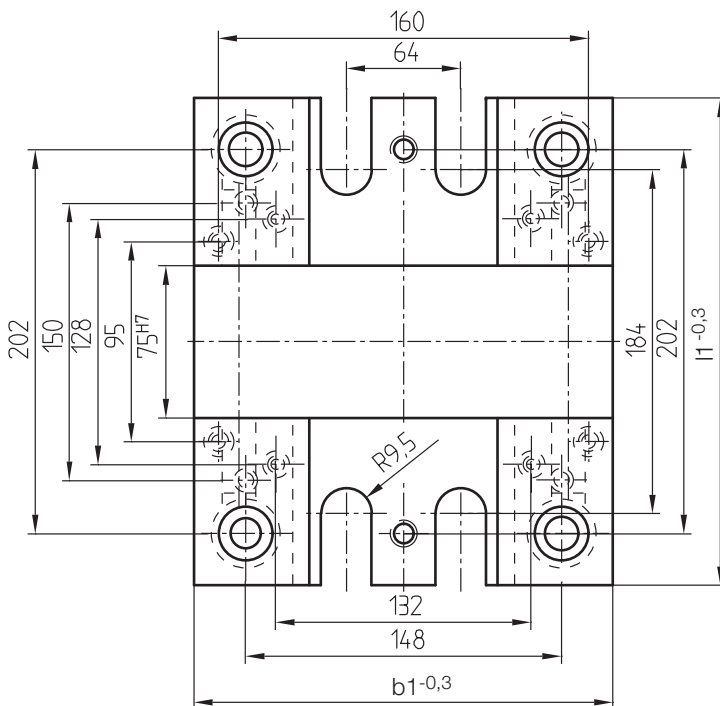
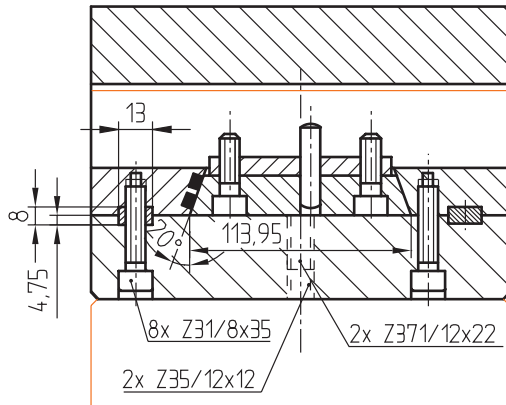


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

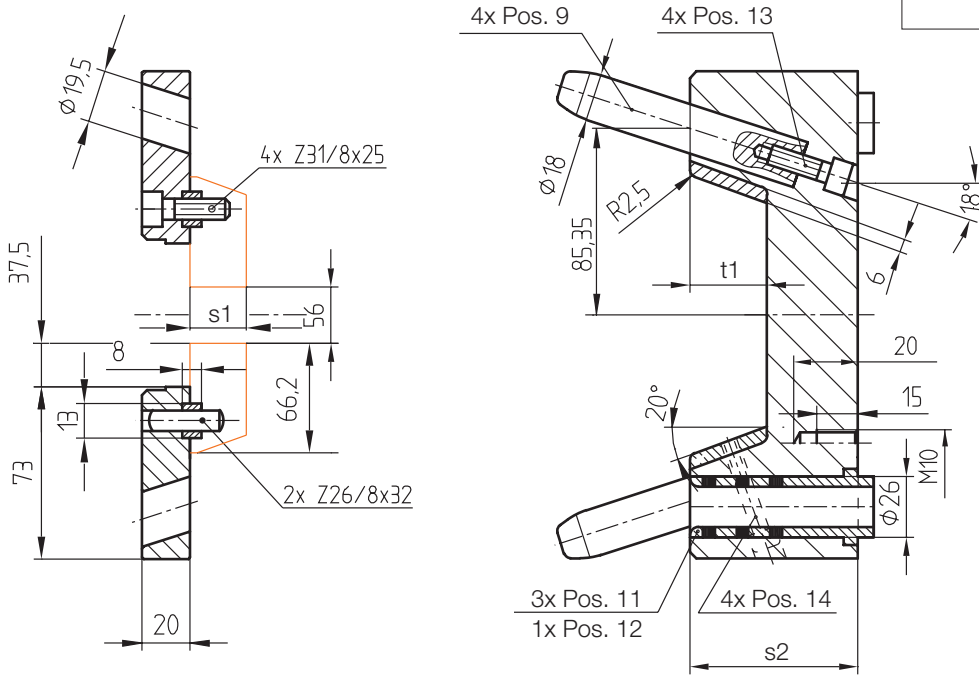
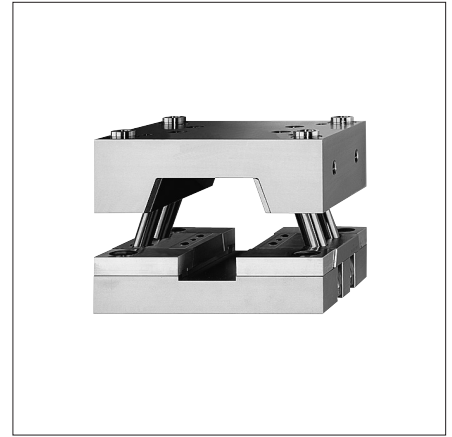


K 2501/ 190x246

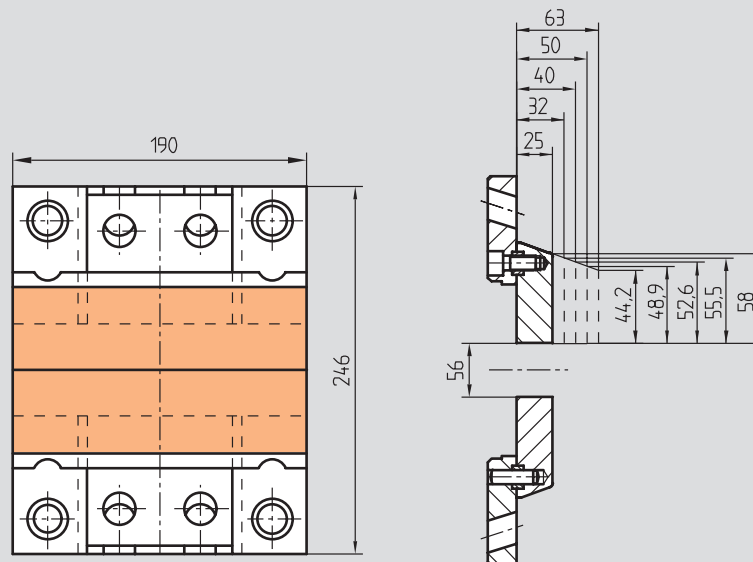
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14	Pos. 13	Pos. 12	Pos. 11	Pos. 9	t1	s2	b1	l1	s1	Nr./No.
Z31/...	Z31/...	Z1000W/...	Z1000W/...	Z010/...	23	66	190	246	25	K 2501/190x246x25
6x50	10x25	66x18x145	66x20x145	18x150	30				32	32
	10x35	76x18x135	76x20x135		38	76			40	40
6x55	10x25	86x18x125	86x20x125	18x170	48	86			50	50
	10x35	96x18x95	96x20x95		61	96			63	63

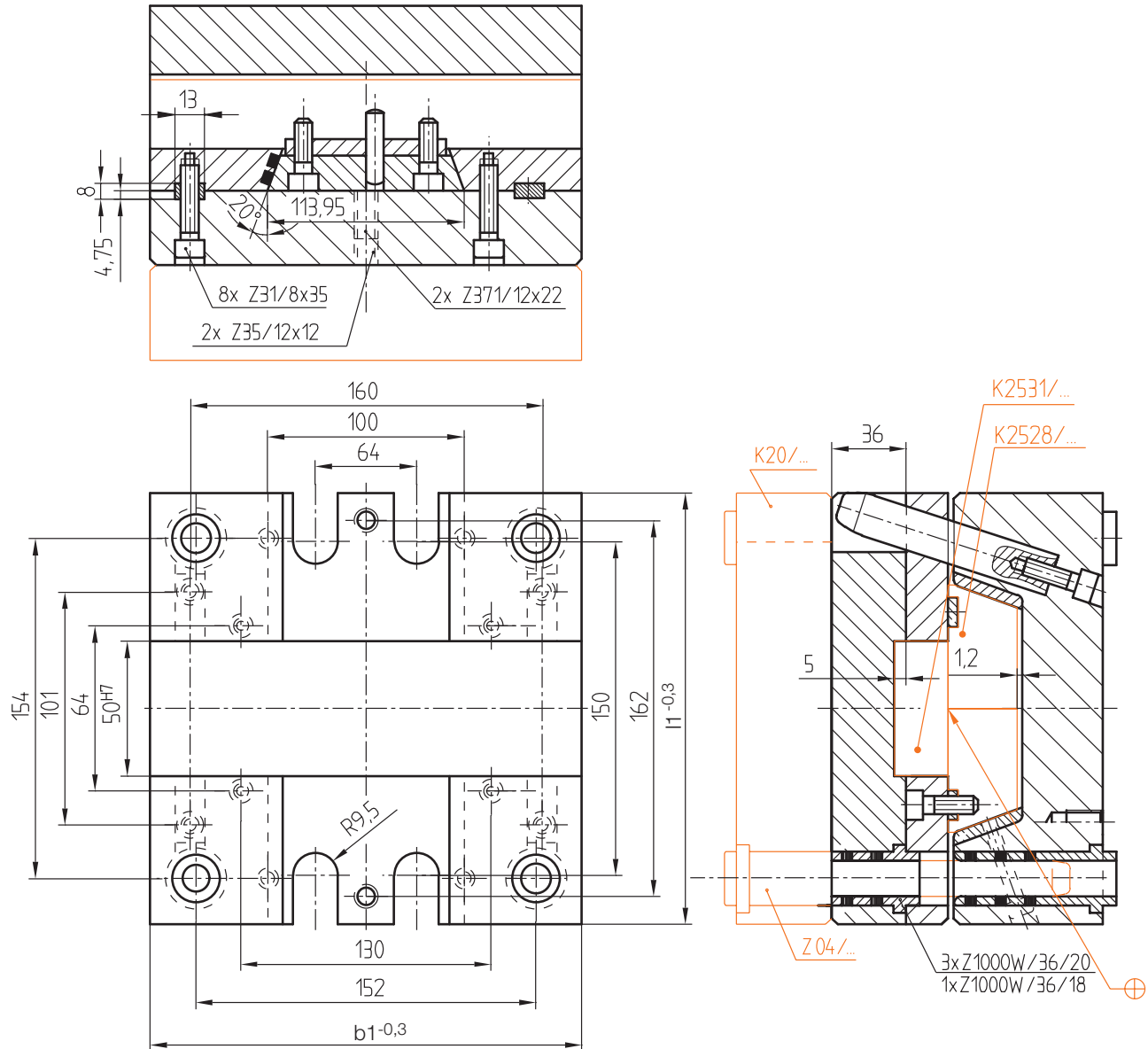


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

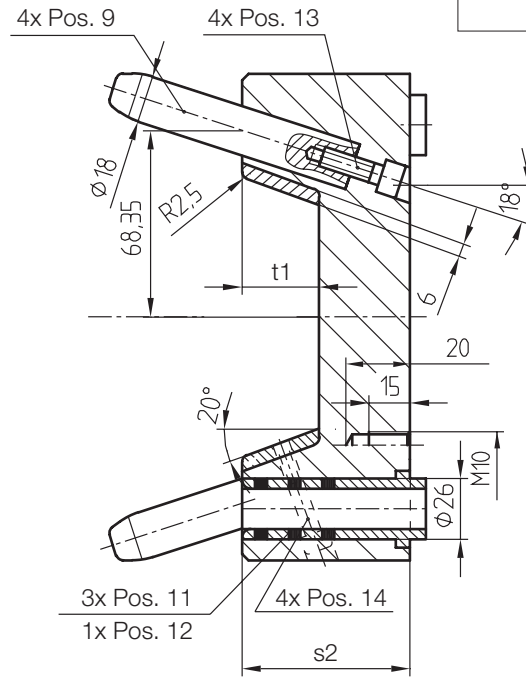
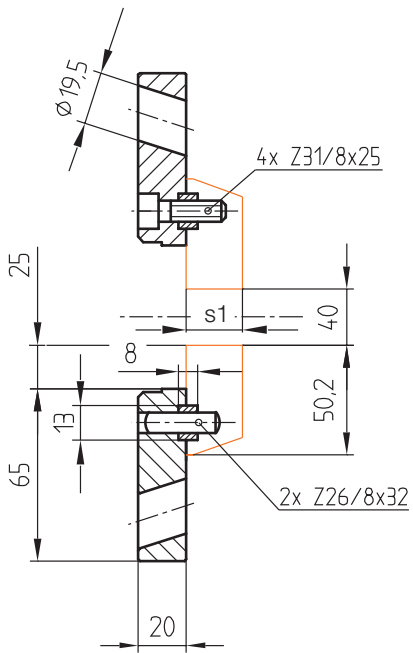


K 2501/ 196x196

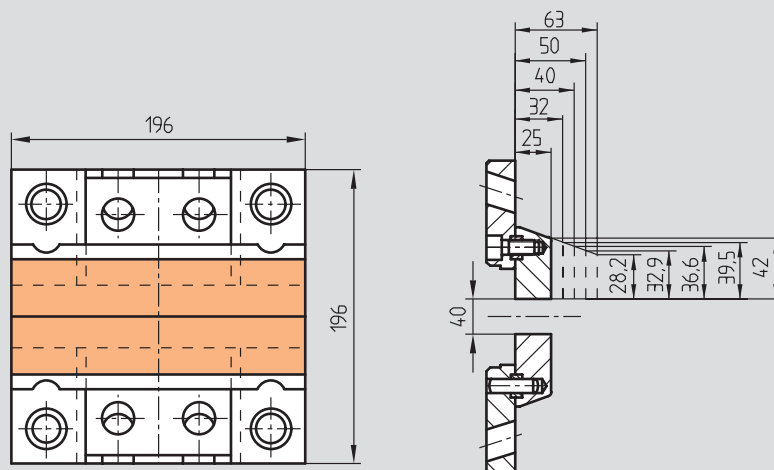
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14 Z31/...	Pos. 13 Z31/...	Pos. 12 Z1000W/...	Pos. 11 Z1000W/...	Pos. 9 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x40	10x25	66x18	66x20	18x125	23	66	196	196	25	K 2501/196x196x25
					30				32	
					38				40	
6x50	10x30	86x18	86x20	18x140	48	86			50	50
					61				116	63

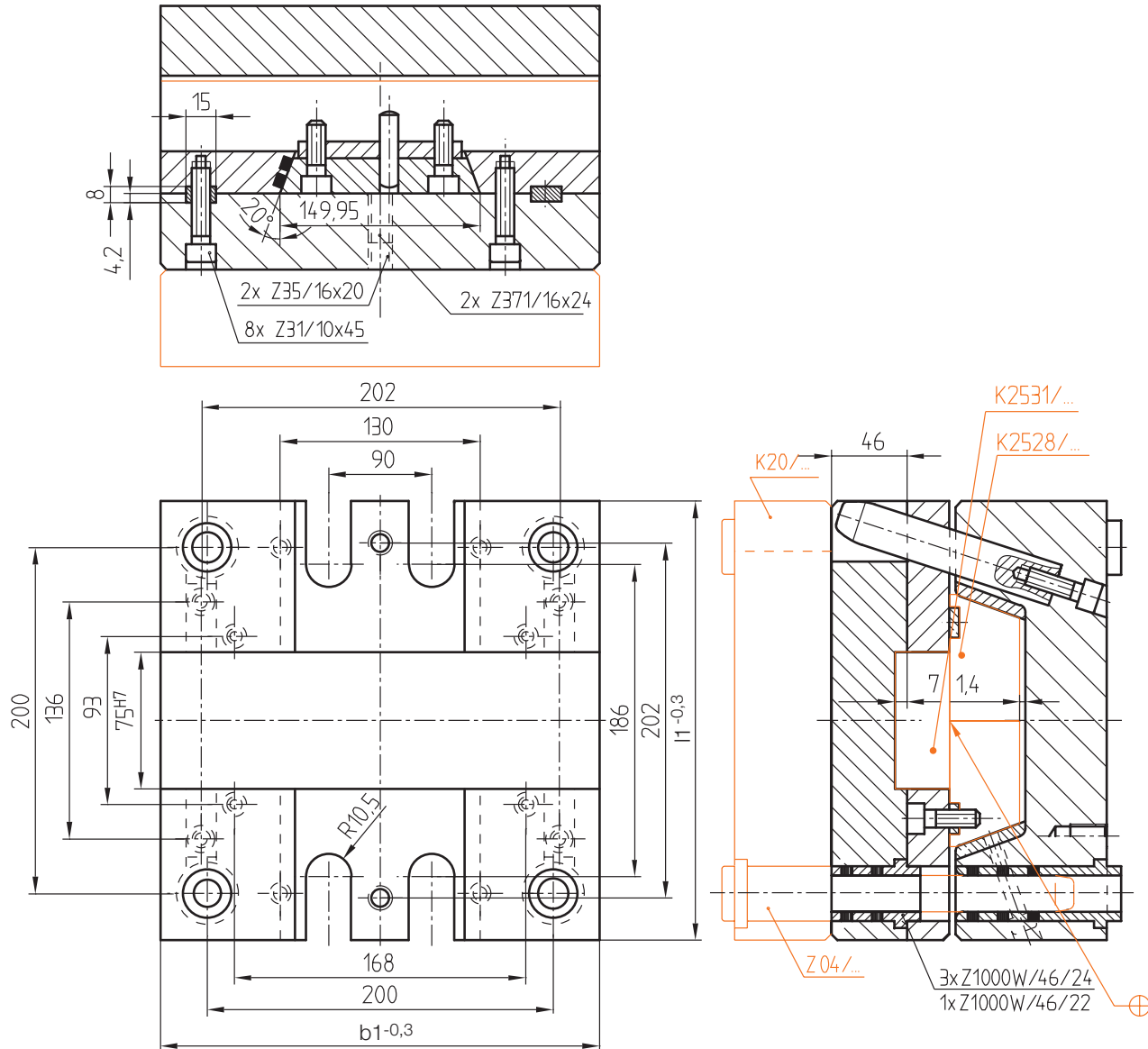


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

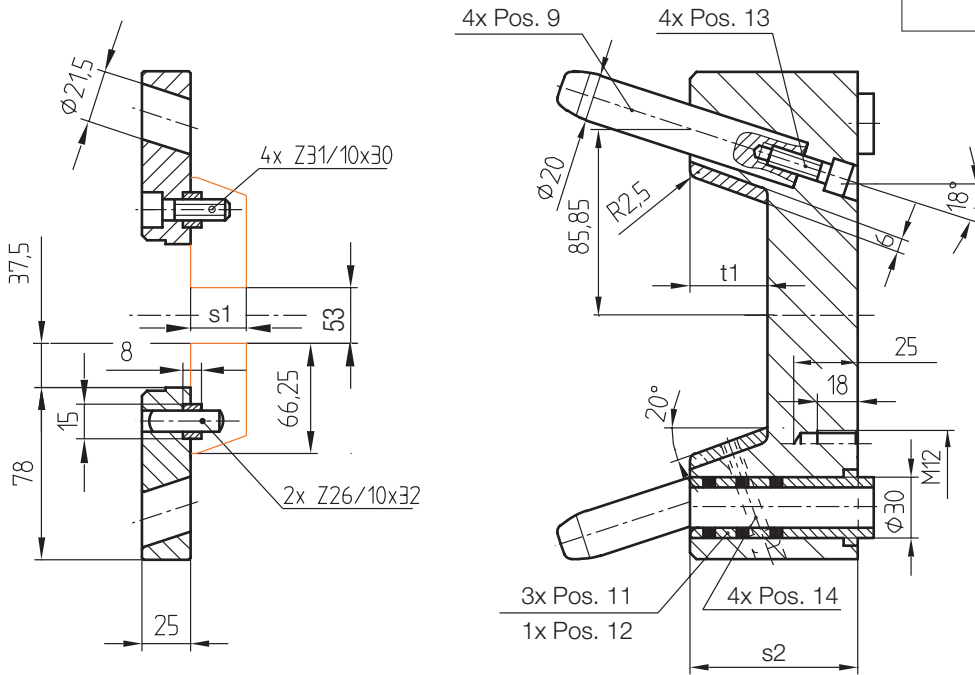
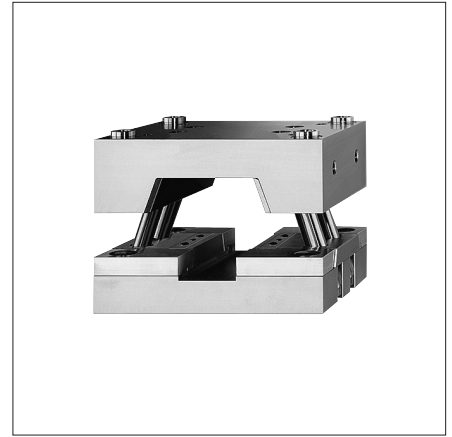


K 2501/246x246

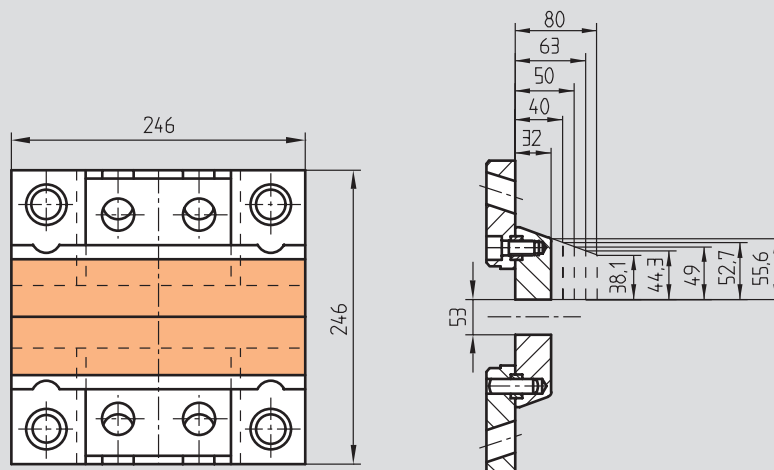
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14 Z31/...	Pos. 13 Z31/...	Pos. 12 Z1000W/...	Pos. 11 Z1000W/...	Pos. 9 Z010/...	t1	s2	b1	l1	s1	Nr./No.
6x50	10x20	66x22	66x24	20x150	30	66	246	246	32	K 2501/246x246x32
	10x30	76x22	76x24		38	76			40	
6x55	10x20			20x160	48	76			50	50
6x60	10x60	116x22	116x24		61	116			63	63
	10x80	136x22	136x24	78	136			80	80	

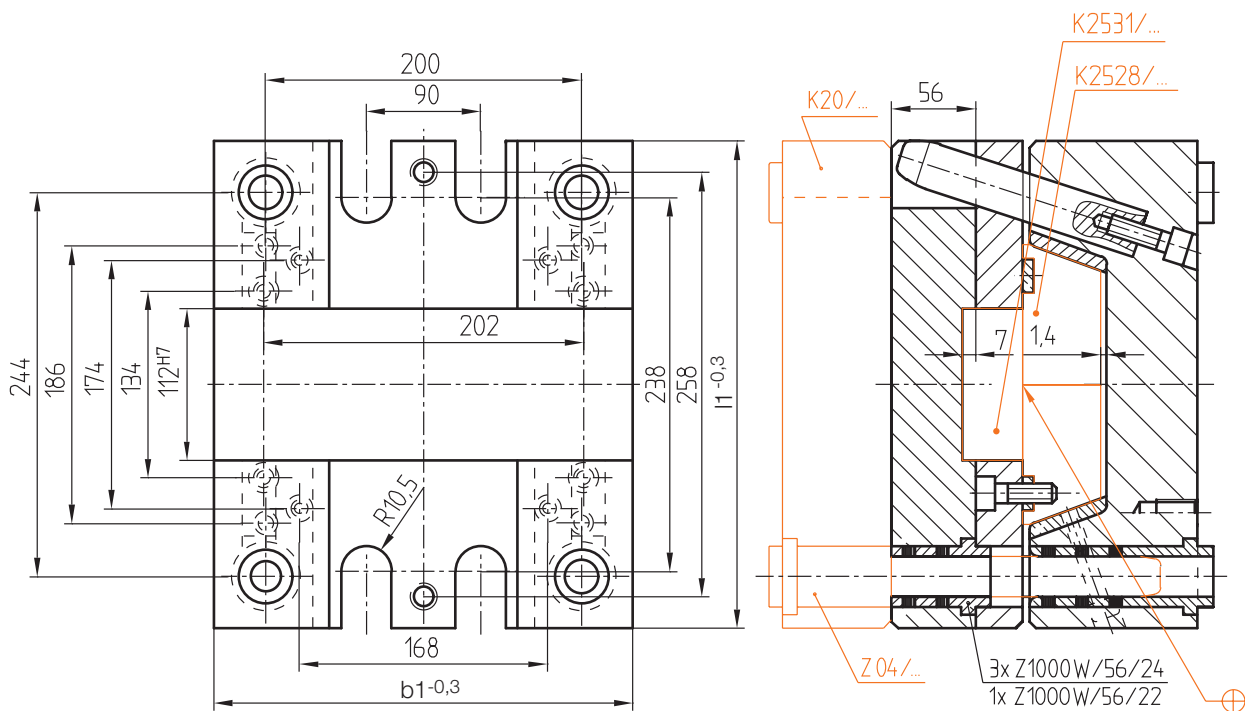
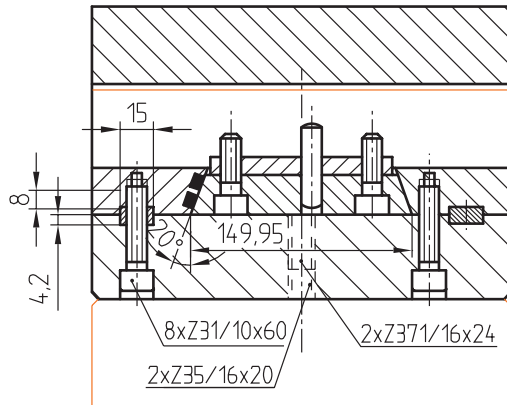


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

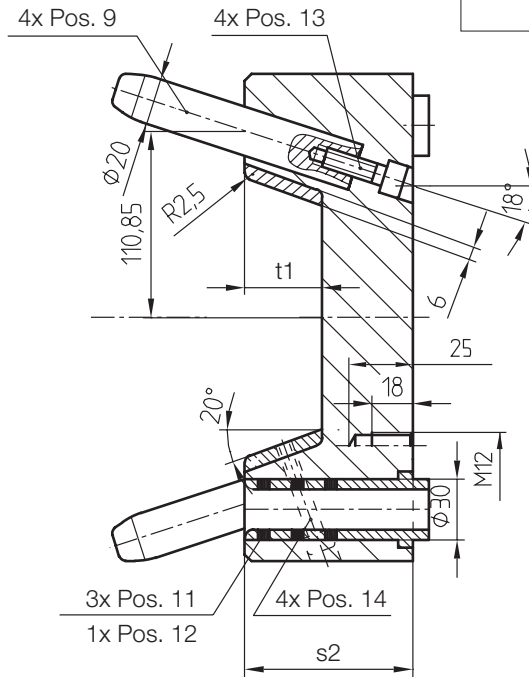
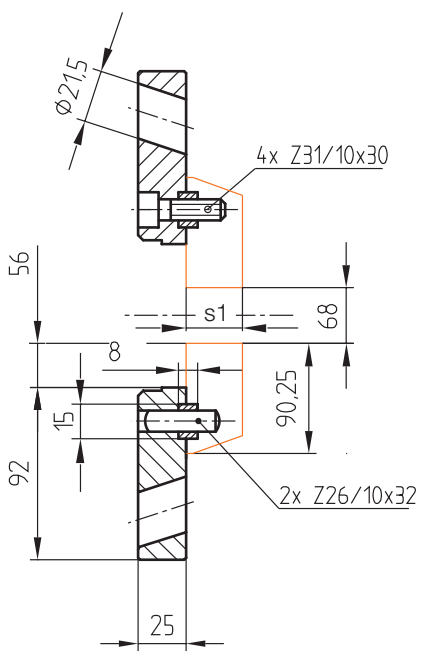
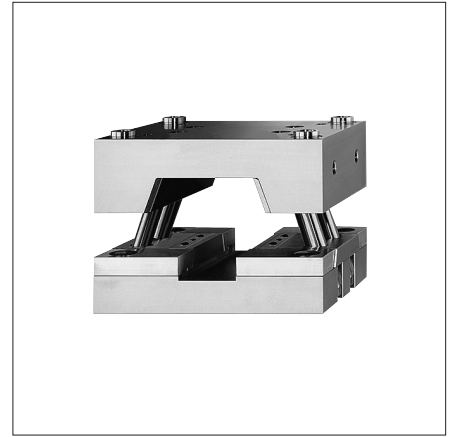


K 2501/246x296

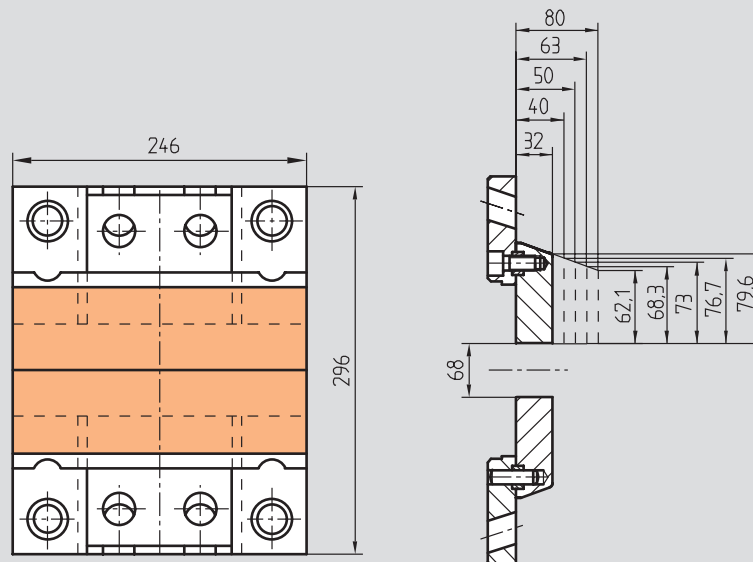
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14	Pos. 13	Pos. 12	Pos. 11	Pos. 9	t1	s2	b1	l1	s1	Nr./No.
Z31/...	Z31/...	Z1000W/...	Z1000W/...	Z010/...			246	296	32	K 2501/246x296x32
6x55	10x25	66x22	66x24	20x170	30	66			40	40
	10x35	76x22	76x24		38	76			50	50
6x60	10x45	86x22	86x24		48	86			63	63
6x55	10x55	116x22	116x24	20x190	61	116			80	80
6x65	10x75	136x22	136x24		78	136				

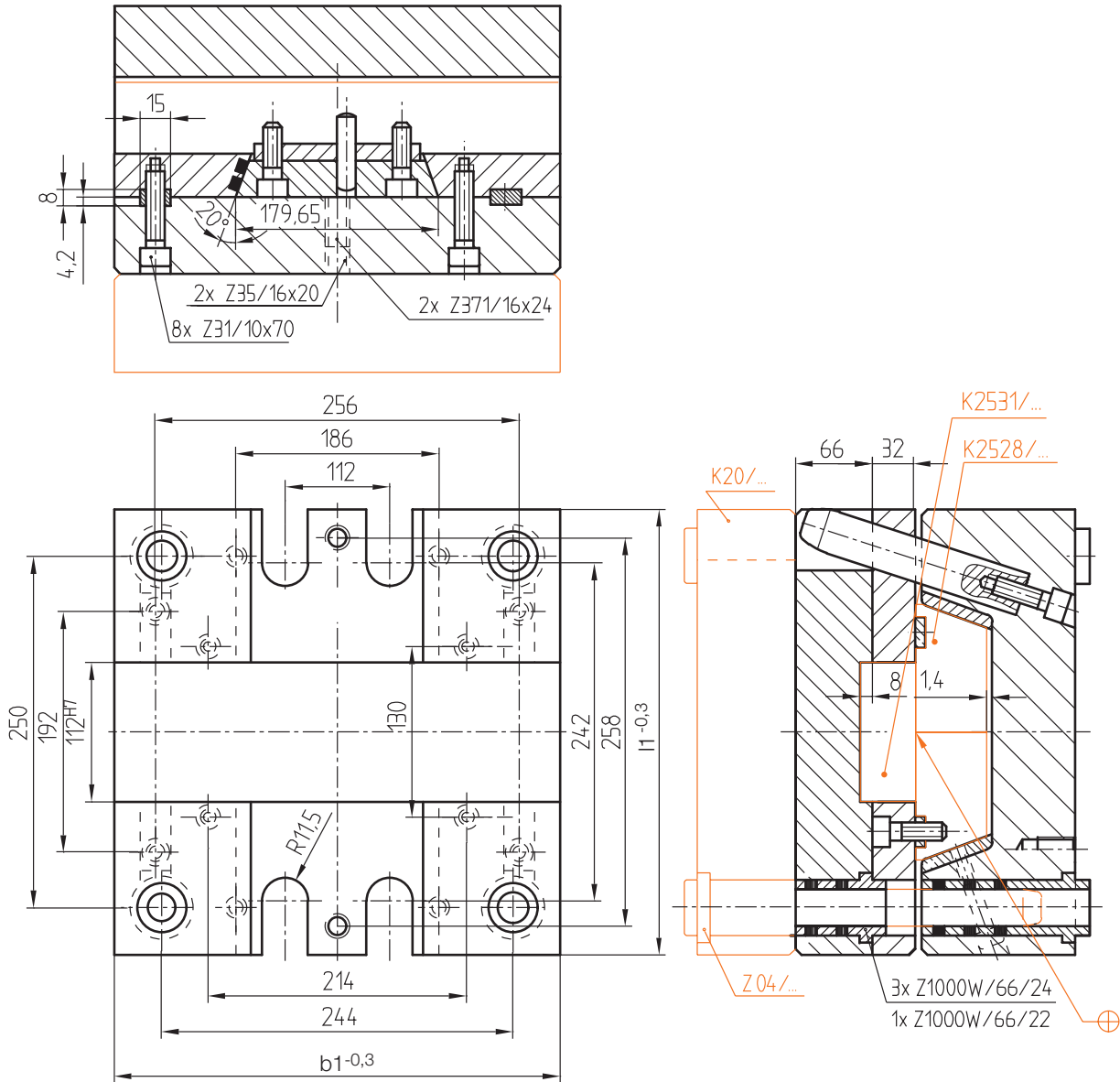


Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail

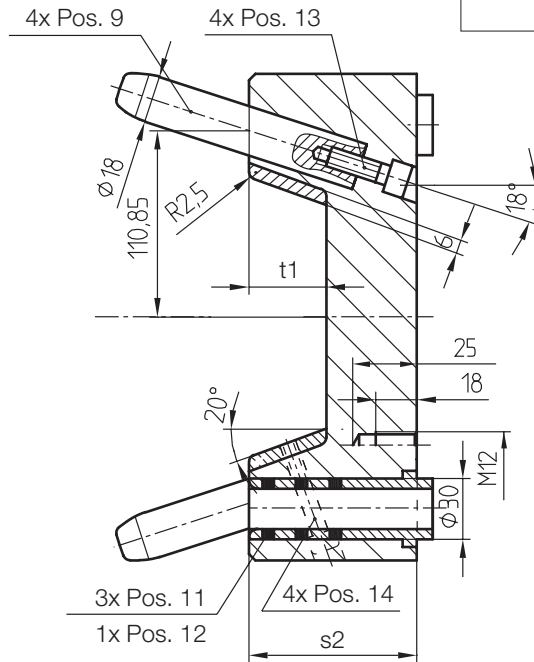
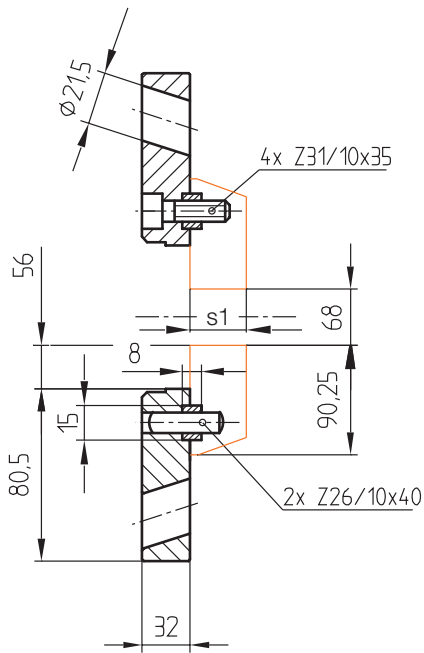


K 2501/296x296

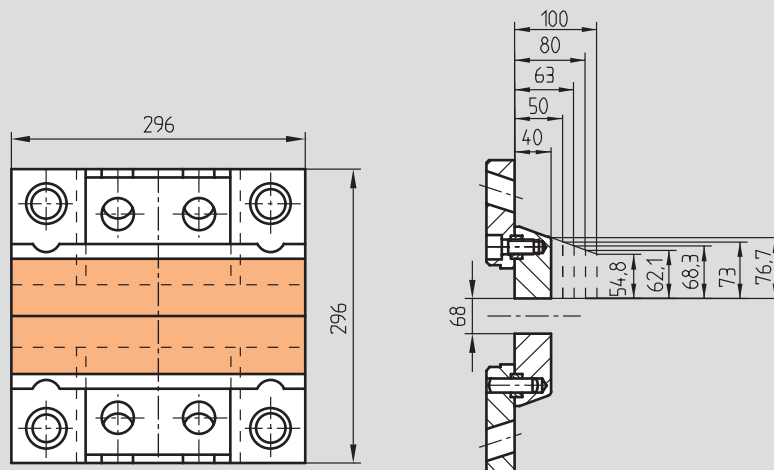
Backenwerkzeug
Split mould kit
Moule à tiroir



Pos. 14	Pos. 13	Pos. 12	Pos. 11	Pos. 9	t1	s2	b1	l1	s1	Nr./No.
Z31/...	Z31/...	Z1000W/...	Z1000W/...	Z010/...	38	76	296	296	40	K 2501/296x296x 40
6x55	10x35	76x22	76x24	20x170	48				50	50
6x60					61	116			63	63
6x55	10x55	116x22	116x24	20x190	78	136			80	80
6x60	10x75	136x22	136x24		98	156			100	100
6x65	10x80	156x22	156x24	20x210						



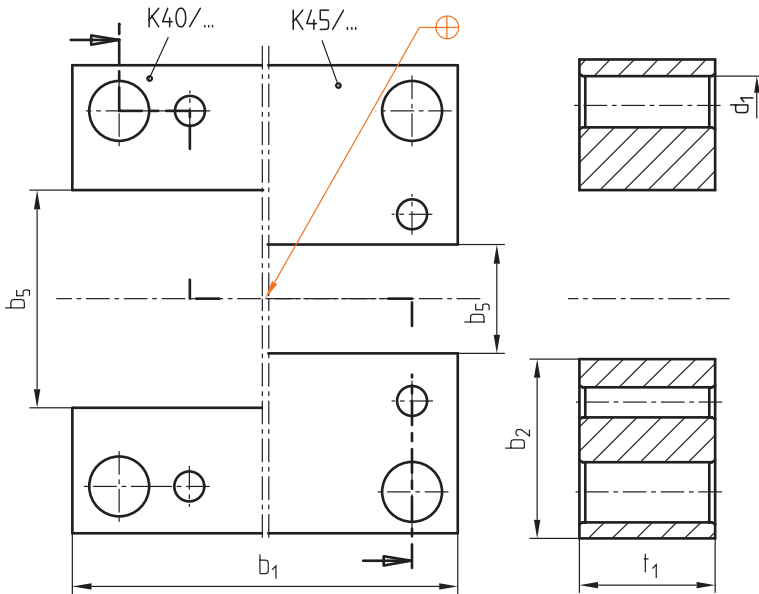
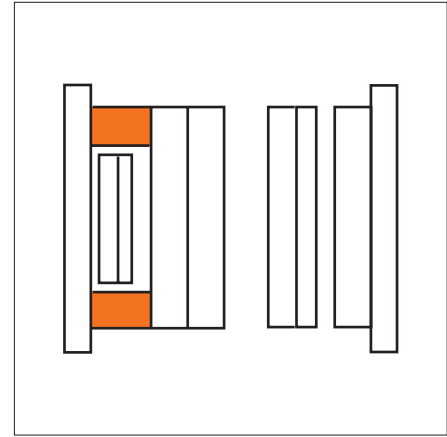
Max. Arbeitsfläche
 Max. working area
 Surfaces max. de travail



K 40/...; K 45/...

Leiste
Riser
Tasseaux

Mat.: 1.1730/640N/mm²



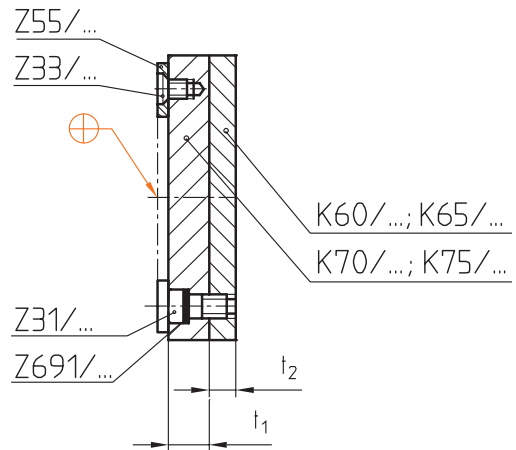
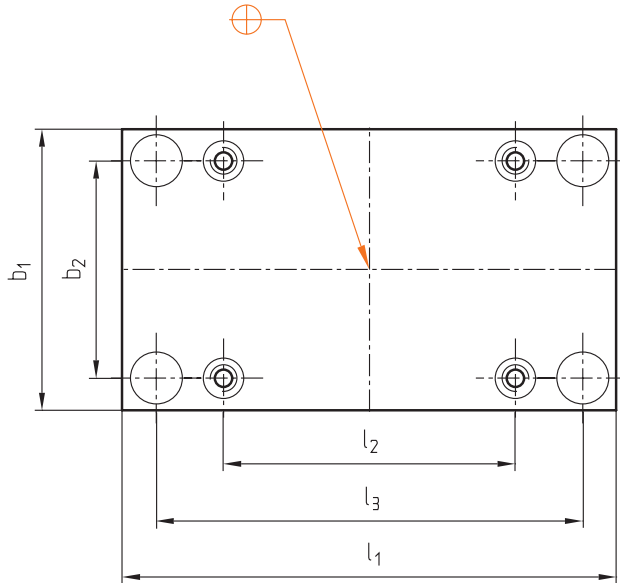
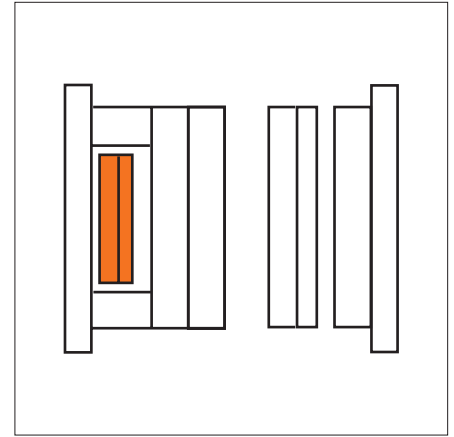
b ₅	b ₂	d ₁	b ₁	K 2500/...	t ₁	Nr./No.
92	32	20	156	156 x 156	46	K 40/156x156x46/1.1730
					56	56
					76	76
120	38	26	196	196 x 196	46	K 40/196x196x46/1.1730
					56	56
					76	76
160	43	30	246	246 x 246	56	K 40/246x246x56/1.1730
					76	76
					96	96
210	43	30	296	296 x 296	56	K 40/296x296x56/1.1730
					76	76
					96	96

b ₅	b ₂	d ₁	b ₁	K 2500/...	t ₁	Nr./No.
44	43	14	100	100 x 130	27	K 45/100x130x27/1.1730
					36	36
					46	46
92	52	20	156	156 x 196	46	K 45/156x196x46/1.1730
					56	56
					76	76
130	58	26	190	190 x 246	46	K 45/190x246x46/1.1730
					56	56
					76	76
160	68	30	246	246 x 296	56	K 45/246x296x56/1.1730
					76	76
					96	96

K 60-70 /...; K 65-75 /...

Auswerferpaket
Ejector assembly
Batterie d'éjection

Mat.: 1.1730/640 N/mm²



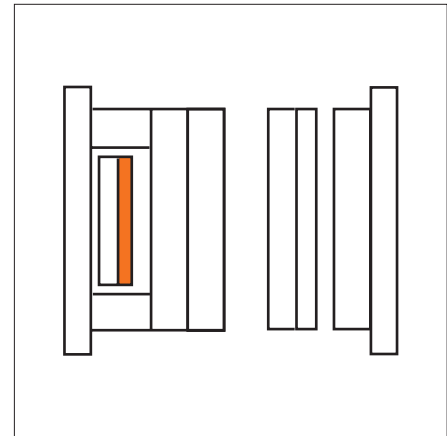
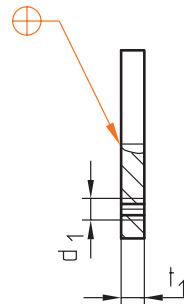
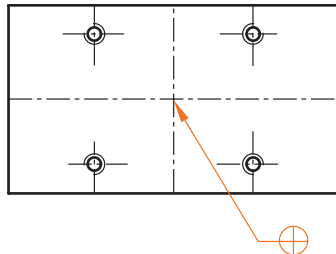
b ₂	b ₁	l ₃	l ₂	l ₁	t ₁	t ₂	K 2500/...	Nr./No.
68	90	136	100	156	17	9	156 x 156	K 60-70/156x156/1.1730
96	118	166	132	196		12	196 x 196	196x196/1.1730
130	158	214	180	246		246 x 246	246x246/1.1730	
180	208	266	230	296		296 x 296	296x296/1.1730	

b ₂	b ₁	l ₃	l ₂	l ₁	t ₁	t ₂	K 2500/...	Nr./No.
22	42	75	45	100	9	6	100 x 130	K 65-75/100x130/1.1730
70	90	136	101	156	17	9	156 x 196	156x196/1.1730
106	128	168	133	190		12	190 x 246	190x246/1.1730
130	158	217	181	246		246 x 296	246x296/1.1730	

K 60/...; K 65/...

Auswerferhalteplatte
Ejector retainer plate
Plaque d'éjecteur

Mat.: 1.1730/640N/mm²



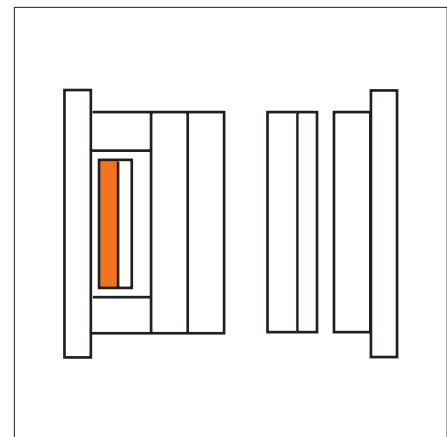
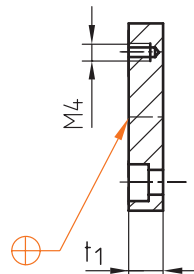
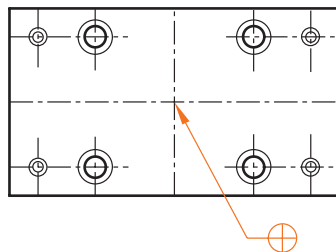
d ₁	K 2500/...	t ₁	Nr./No.
M8	156x156	9	K 60/156x156x 9/1.1730
	196x196	12	196x196x12/1.1730
	246x246		246x246x12/1.1730
	296x296		296x296x12/1.1730

d ₁	K 2500/...	t ₁	Nr./No.
M5	100x130	6	K 65/100x130x 6/1.1730
M8	156x196	9	156x196x 9/1.1730
	190x246	12	190x246x12/1.1730
	246x296		246x296x12/1.1730

K 70/...; K 75/...

Auswerfergrundplatte
Ejector base plate
Contre-plaque d'éjecteur

Mat.: 1.2312/1080N/mm²



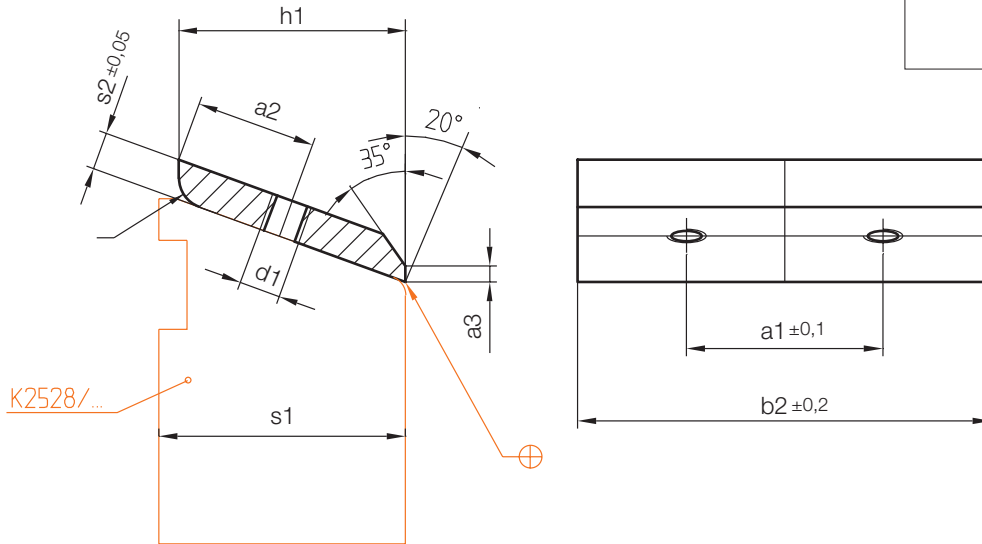
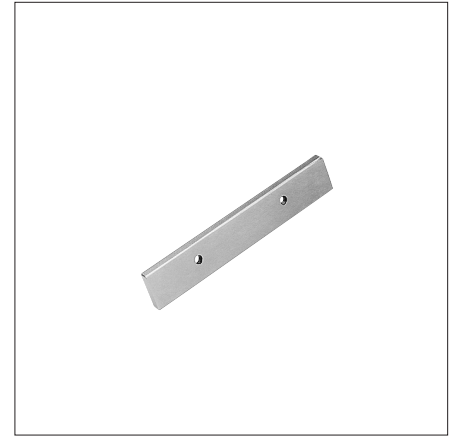
K 2500/...	t ₁	Nr./No.
156x156	17	K 70/156x156x17/1.2312
196x196		196x196x17/1.2312
246x246		246x246x17/1.2312
296x296		296x296x17/1.2312

K 2500/...	t ₁	Nr./No.
100x130	9	K 75/100x130x 9/1.2312
156x196	17	156x196x17/1.2312
		190x246x17/1.2312
		246x296x17/1.2312

K2526/...

Druckplatte, mit Aufmaß
Wear plate, with machining allowance
Plaque de pression, avec surcote

Mat.: 1.2842/53+2HRC



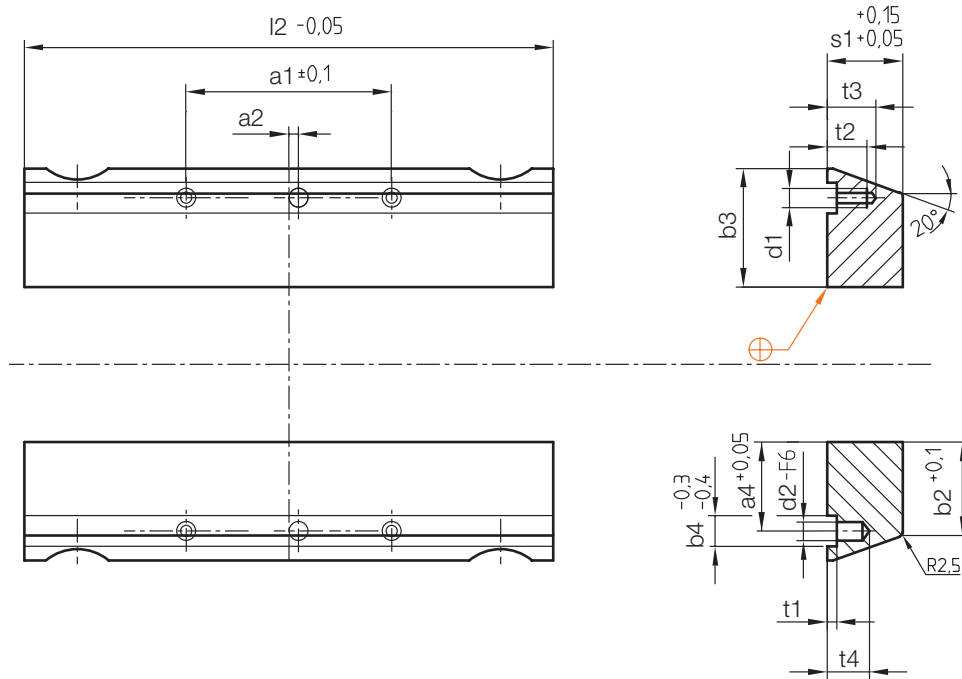
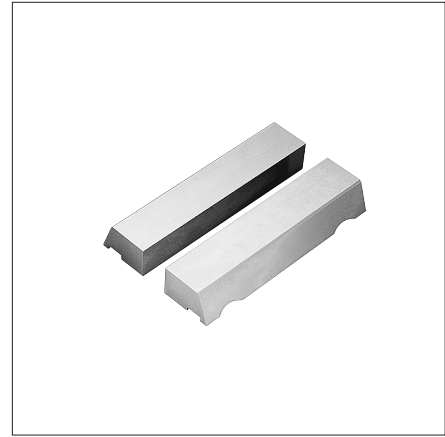
r1	h1	s2	a3	a2	a1	b2	d1	K2500/...; K2501/...		s1	Mat.	Nr./No.	
								b1	l1				
2	14	4,2	2,3	8	52	98,5	M5	100	130	16	1.2842	K 2526/100x130x	16/1.2842
	18			20								20	
	23			25								25	
	30			32								32	
	38			40								40	
	2,5			18								5,2	3
23	25	25											
30	32	32											
38	40	40											
48	50	50											
23	18	6,2	3,5	13	100	188,5		190	246	25	K 2526/190x246x		
30	32			32									
38	40			40									
48	50			50									
61	63			63									
23	18			6,2								3,5	13
30	32	32											
38	40	40											
48	50	50											
61	63	63											
30	18	6,2	3,5		17	130	244,5		246	246 (296)	32		K 2526/246x246x
38	40			40									
48	50			50									
61	63			63									
78	80			80									
38	18			6,2	3,5							21	
48	50	50											
61	63	63											
78	80	80											
98	100	100											



K 2528 /...

Backe
Split
Tiroir

Mat.: 1.2767

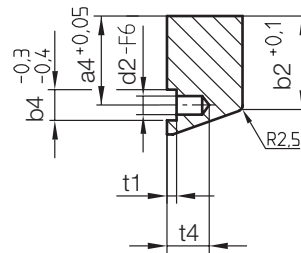
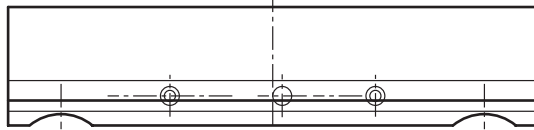
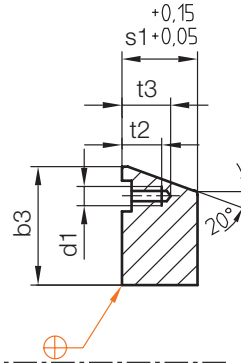
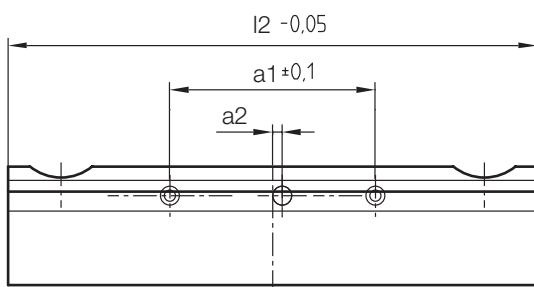
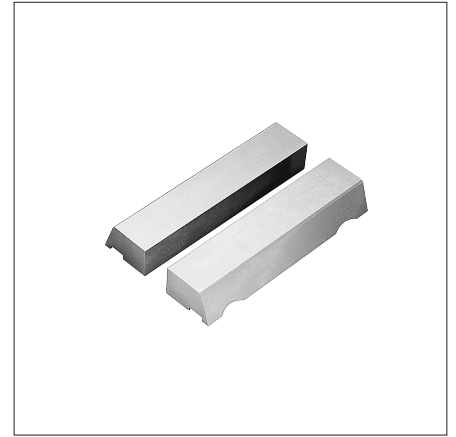


														K2500/...; K2501/...				
t4	t3	t2	t1	a4	a2	a1	b4	b3	b2	l2	d2	d1	b1	l1	s1	Mat.	Nr./No.	
14	14,5	12	3,2	22,4	3	28	10	31,65	26,7	99,7	6	M6	100	130	16	1.2767	K2528/100x130x 16/1.2767	
	18	14							20						20			
									25						25			
									32						32			
									40						40			
18	18,5	14	4,1	28,65	4	55	13	40,15	33,8	155,7	8	M8	156	156	20		K2528/156x156x 20/1.2767	
									23						17		25	25
																	32	32
																	40	40
																	50	50
		18,5	14		37,65			50,15	43,8				156	196	20		K2528/156x196x 20/1.2767	
		23	17						42						25		25	
									39,4						32		32	
									36,5						40		40	
									32,9						50		50	
			4,2	52,2		80	66,2	58	189,7				190	246	25		K2528/190x246x 25/1.2767	
								55,5						32		32		
								52,6						40		40		
								48,9						50		50		
								44,2						63		63		

K2528 /...

Backe
Split
Tiroir

Mat.: 1.2767

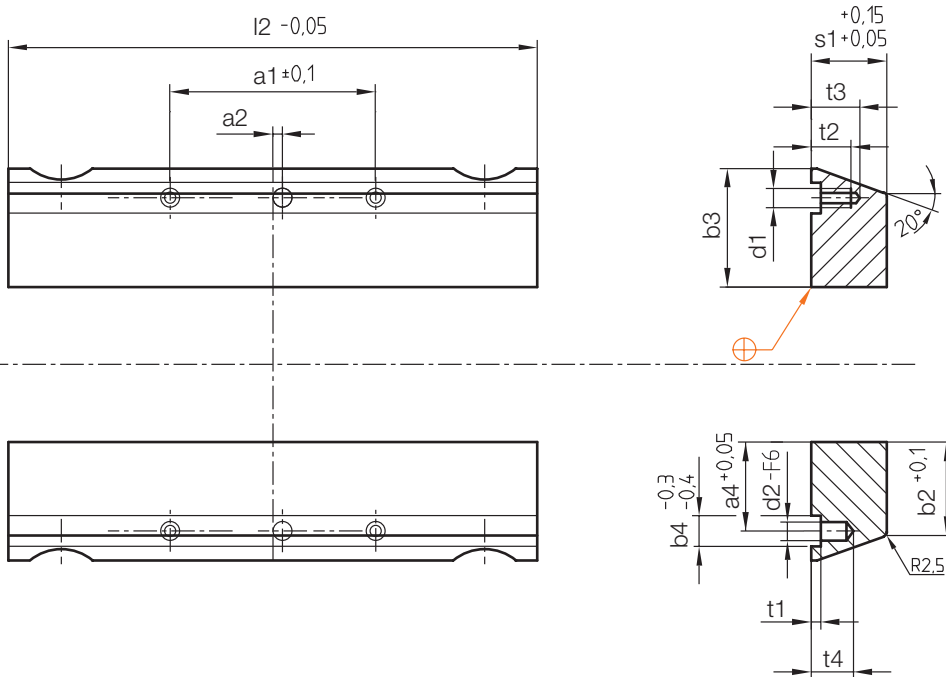
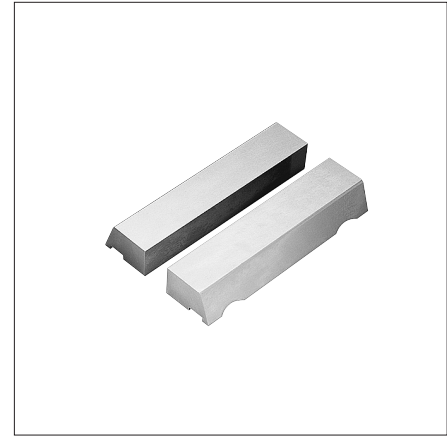


													K2500/...; K2501/...		Mat.	Nr./No.		
t4	t3	t2	t1	a4	a2	a1	b4	b3	b2	l2	d2	d1	b1	l1				s1
18	23	17	4,2	37,7	4	80	13	50,2	42	195,7	8	M8	196	196	25	1.2767	K2528/196x196x	25/1.2767
									39,5						32			32
									36,6						40			40
									32,9						50			50
									28,2						63			63
20	25	19		52,25	5	106	15	66,25	55,6	245,7	10	M10	246	246	32		K2528/246x246x	32/1.2767
									52,7						40			40
									49						50			50
									44,3						63			63
									38,1						80			80
									73,25						90,25			79,6
				76,7	40	40												
				73	50	50												
				68,3	63	63	296	296	40		K2528/296x296x	40/1.2767						
				62,1	80	80												
				76,7	40	40												
				73	50	50												
				68,3	63	63												
62,1	80	80	100	100														

K 2528 /...

Backe
Split
Tiroir

Mat.: 1.2343 ESU

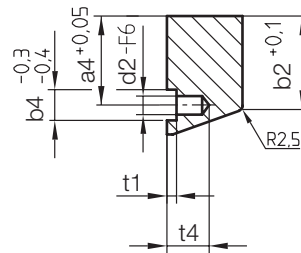
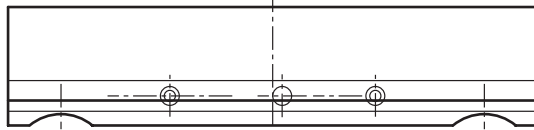
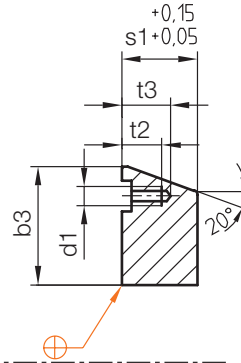
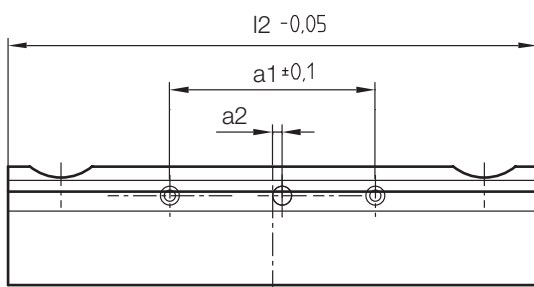
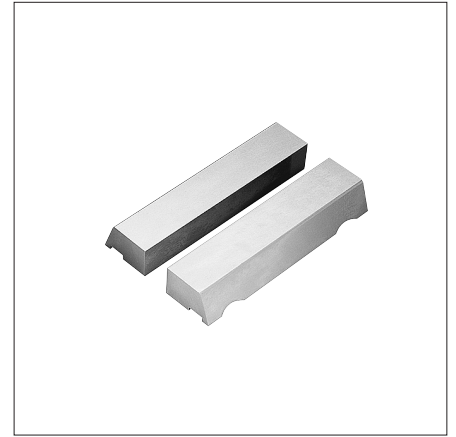


t4	t3	t2	t1	a4	a2	a1	b4	b3	b2	l2	d2	d1	K2500/...	K2501/...	s1	Mat.	Nr./No.
14	14,5	12	3,2	22,4	3	28	10	31,65	26,7	99,7	6	M6	100	130	16	1.2343 ESU	K2528/100x130x 16/1.2343 ESU
	18	14							25,3						20		20
									23,5						25		25
									20,9						32		32
									18						40		40
18	18,5	14	4,1	28,65	4	55	13	40,15	33,8	155,7	8	M8	156	156	20		K2528/156x156x 20/1.2343 ESU
	23	17							32						25		25
									29,4						32		32
									26,5						40		40
									22,9						50		50
	18,5	14		37,65				50,15	43,8				156	196	20		K2528/156x196x 20/1.2343 ESU
	23	17							42						25		25
									39,4						32		32
									36,5						40		40
									32,9						50		50
			4,2	52,2		80		66,2	58	189,7			190	246	25		K2528/190x246x 25/1.2343 ESU
									55,5						32		32
									52,6						40		40
									48,9						50		50
									44,2						63		63

K2528 /...

Backe
Split
Tiroir

Mat.: 1.2343ESU

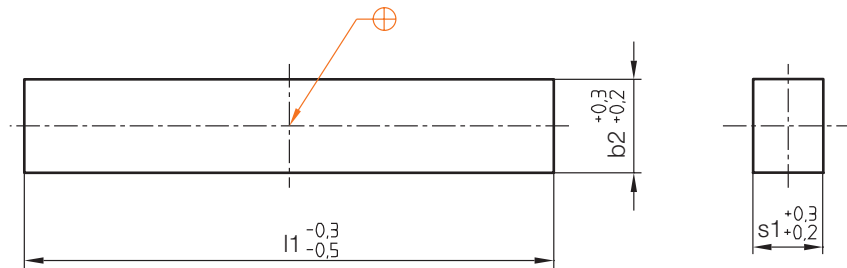
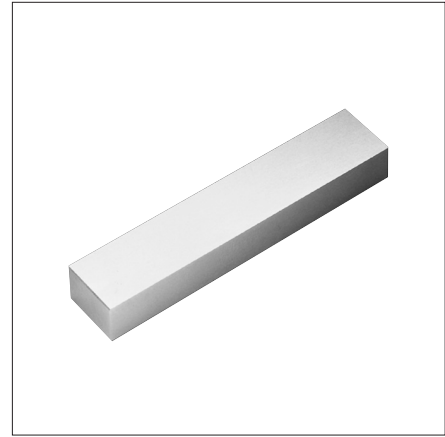


t4	t3	t2	t1	a4	a2	a1	b4	b3	b2	l2	d2	d1	K2500/... K2501/...	b1	l1	s1	Mat.	Nr./No.	
18	23	17	4,2	37,7	4	80	13	50,2	42	195,7	8	M8	196	196	25	1.2343ESU	K2528/196x196x	25/1.2343ESU	
									39,5										32
									36,6										40
									32,9										50
									28,2										63
																			63
20	25	19		52,25	5	106	15	66,25	55,6	245,7	10	M10	246	246	32		K2528/246x246x	32/1.2343ESU	
									52,7										40
									49										50
									44,3										63
									38,1										80
																			80
				73,25				90,25	79,6				246	296	32		K2528/246x296x	32/1.2343ESU	
									76,7										40
									73										50
									68,3										63
									62,1										80
						125			76,7	295,7			296	296	40		K2528/296x296x	40/1.2343ESU	
									73										50
									68,3										63
									62,1										80
									54,8										100
																			100

K2531/...

Kernhalteinsatz
Core retainer insert
Support de noyau

Mat.: 1.2767/880 N/mm²

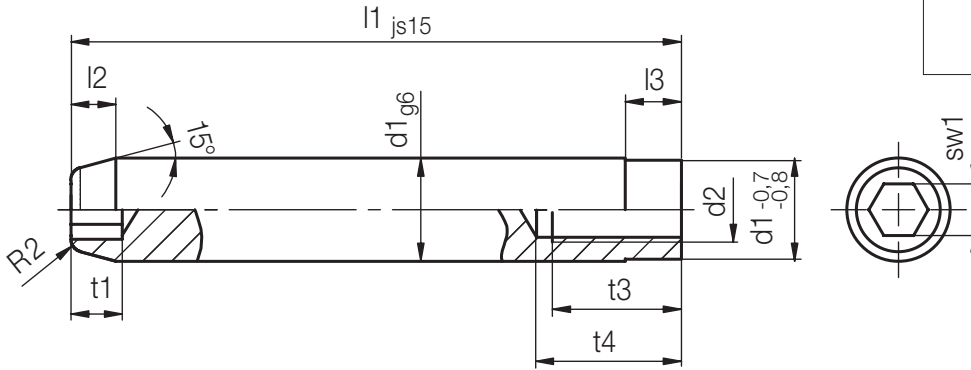
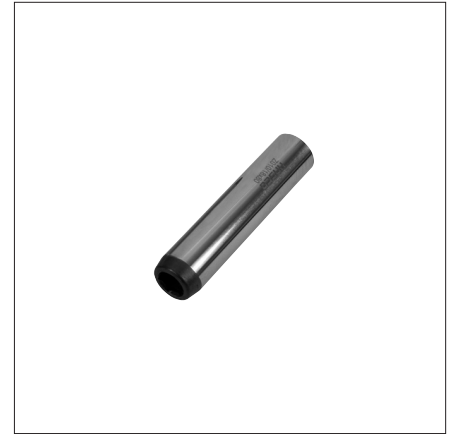


b2	K2500/...; K2501/...		s1	Mat.	Nr./No.
	b1	l1			
25	100	130	18	1.2767	K2531/ 100x130x18/1.2767
34	156	156	20		156x156x20
50	156	196			156x196x20
75	190	246	25		190x246x25
50	196	196	25		196x196x25
75	246	246	32		246x246x32
112	246	296			246x296x32
	296	296	40		296x296x40

Z010/...

Schrägsäule
Angle Pin
Doigt incliné

Mat.: ≈ 1.0401



sw1	t1	l5	l4	l3	l2	d2	d1	l1	Nr./No.						
5	5	5	4	15	10	M 6	10	60	Z010/10x 60						
								80	80						
								100	100						
								12	60	Z010/12x 60					
									80	80					
									100	100					
									120	120					
								14	50	Z010/14x 50					
									60	60					
									67	67					
									70	70					
									75	75					
									80	80					
									90	90					
									100	100					
6	6	7	18	12	M 8	15	50	Z010/15x 50							
							60	60							
							70	70							
							80	80							
							90	90							
							16	80	Z010/16x 80						
								90	90						
								100	100						
								118	118						
								120	120						
								132	132						
								140	140						
								160	160						
							8	8	6	22	15	M10	18	60	Z010/18x 60
														70	70
80	80														
90	90														
100	100														
125	125														
140	140														
150	150														
170	170														

sw1	t1	l5	l4	l3	l2	d2	d1	l1	Nr./No.							
8	8	7	7	22	15	M10	20	60	Z010/20x 60							
								70	70							
								80	80							
								90	90							
								100	100							
								120	120							
								140	140							
								22	70	Z010/22x 70						
									80	80						
									90	90						
									100	100						
									120	120						
									10	10	25	18	M12	24	70	Z010/24x 70
															80	80
															90	90
100	100															
120	120															
140	140															
160	160															
180	180															
200	200															
220	220															
14	14	30	22	15	M16	30	80	Z010/30x 80								
							90	90								
							100	100								
							120	120								
							140	140								
							32	80	Z010/32x 80							
								90	90							
								100	100							
								120	120							
								140	140							





*Ermöglicher für Kompetenz
Enabler for competence*



***Ich lebe
Formenbau –
zu 100%.***

- Persönliche Betreuung bei Bestellung und Abwicklung
- Ansprechpartner mit Formenbau- und Spritzgusskompetenz
- Antwortzeiten 90% innerhalb von 2 Stunden

***My life is
focused
100% on
mouldmaking.***

- Reliable processes - from order to delivery
- Personal support when you need mouldmaking and injection moulding competence
- 90% of answering response times less than 2 hours

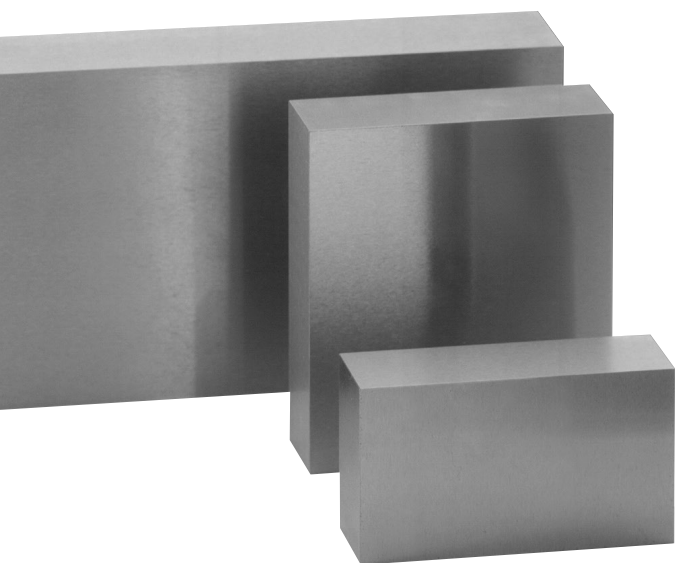
HASCO[®]

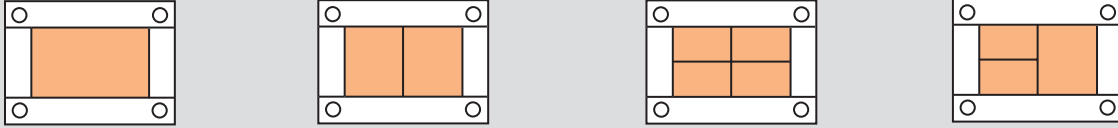
Ermöglichen mit System.

KR / PR

Einsatz-Baukastensystem
Insert-Modular System
Système modulaire d'insert

KR 25/... Rahmenformplatte finden Sie im Register Platten.
KR 25/... bolster plate, please refer to the plates-section.
Vous trouverez plaque porte-empreinte avec logement
KR 25/... à le répertoire des plaques.

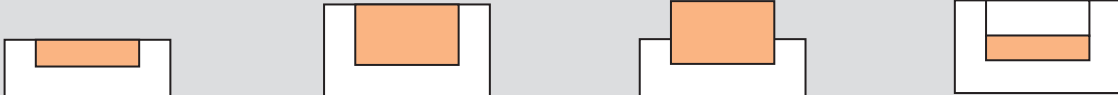




Durch die systematische maßliche Abstufung der Einsätze sind diese beliebig kombinierbar. Die Arbeitsfläche läßt sich entsprechend der fertigungstechnischen Gegebenheiten unterteilen.

Because of their systematically graded sizing, the inserts can be combined as desired. The working surface can be subdivided in accordance with manufacturing conditions.

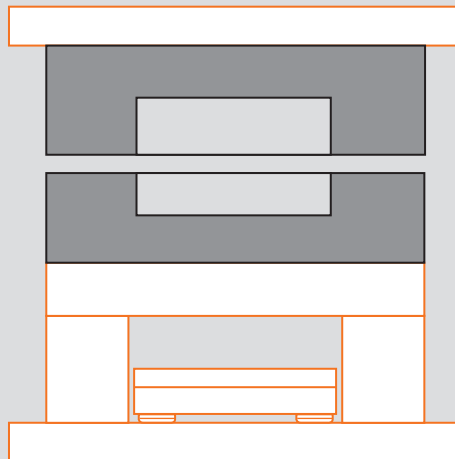
L'échelle dimensionnelle systématique des inserts permet de les combiner à volonté. La surface de travail peut être subdivisée en fonction des besoins de la fabrication.



Die Einsatzdicken entsprechen den Aufnahmen der Formplatten. Sie sind ebenfalls beliebig kombinierbar, wenn z. B. Konturbereiche in die Gegenseite ragen müssen.

The thicknesses of the inserts correspond to the pockets of the cavity plates. They can also be combined as desired, e.g. if cavity contours have to project into the opposite side.

Les épaisseurs des inserts correspondent aux parties appropriées des plaques porte-empreintes. Elles peuvent également être combinées à volonté lorsque les contours doivent par ex. pénétrer dans la partie opposée.



Die zusätzlich zur Komplettierung der Werkzeuge erforderlichen Bauteile sowie technische Information und Anwendungsbeispiele sind im HASCO-Gesamtkatalog aufgeführt.

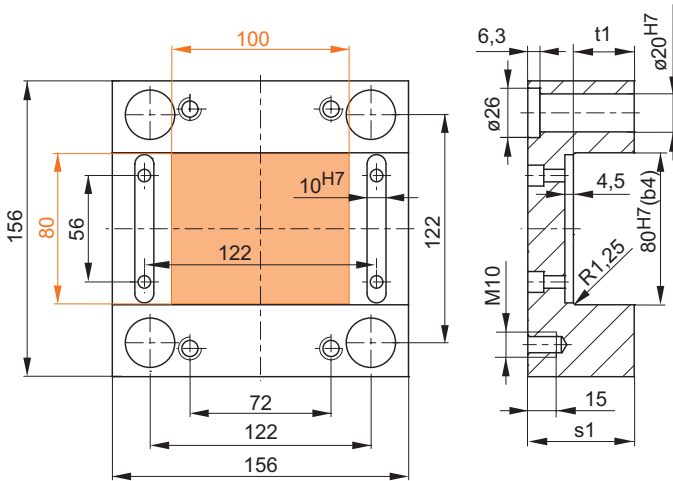
The HASCO catalogue contains the additional components required to complete the mould, technical information and examples of application.

Les éléments supplémentaires nécessaires pour compléter les moules ainsi que des informations techniques et les domaines d'application sont donnés dans le catalogue général HASCO.

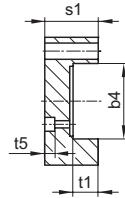
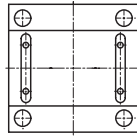
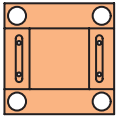
156x156

Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 156x156x36x80x20 / 1.2312
PR / 40x50x20 / 1.2767



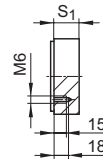
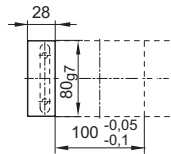
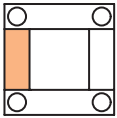
KR20



s1 = 36: t5 = 6,8
s1 ≥ 46: t5 = 8,4

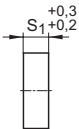
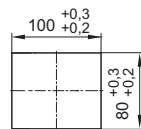
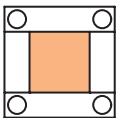
KR20 / 156x156	x	s1	x	b4	x	t1	/ 1.2312
		36		80		20	■
		46				25	■
		56				32	■

KR201



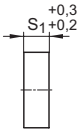
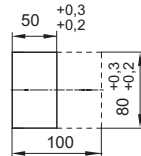
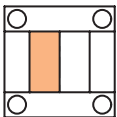
KR201 / 80x28	x	s1	/ 1.2312
		20	■
		25	■
		32	■

PR



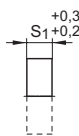
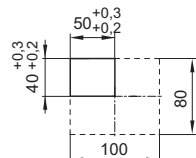
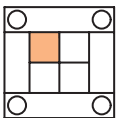
PR / 80x100	x	s1	/ 1.2767	3.4365
		20	■	■
		25	■	■
		32	■	■
		40	■	■

PR



PR / 50x80	x	s1	/ 1.2767	3.4365
		20	■	■
		25	■	■
		32	■	■
		40	■	■

PR

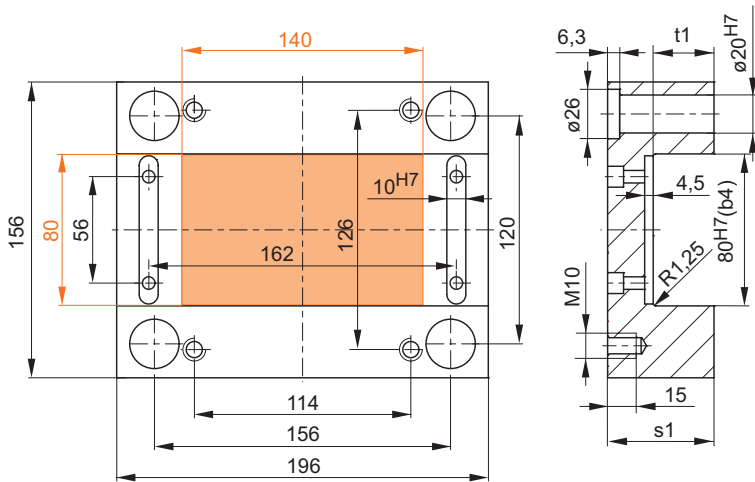


PR / 40x50	x	s1	/ 1.2767	3.4365
		20	■	■
		25	■	■
		32	■	■
		40	■	■

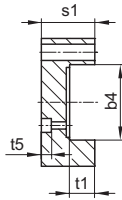
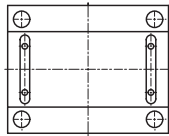
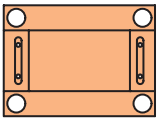
156x196

Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 156x196x36x80x20 / 1.2312
PR / 40x70x20 / 1.2767



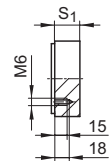
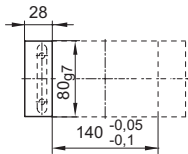
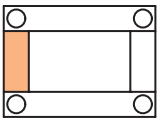
KR20



s1 = 36: t5 = 6,8
s1 ≧ 46: t5 = 8,4

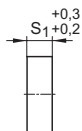
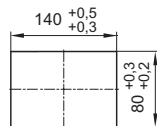
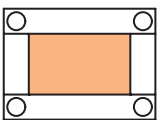
KR20 / 156x196	x	s1	x	b4	x	t1	/ 1.2312
		36		80		20	■
		46				25	■
		56				32	■

KR201



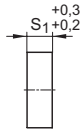
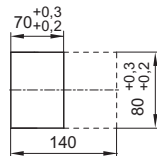
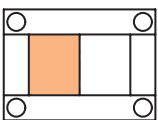
KR201 / 80x28	x	s1	/ 1.2312
		20	■
		25	■
		32	■

PR



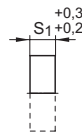
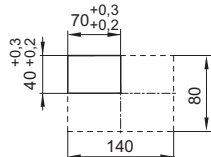
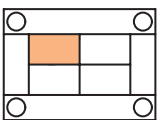
PR / 80x140	x	s1	/ 1.2767	3.4365
		20	■	■
		25	■	■
		32	■	■
		40	■	■

PR



PR / 70x80	x	s1	/ 1.2767	3.4365
		20	■	■
		25	■	■
		32	■	■
		40	■	■

PR

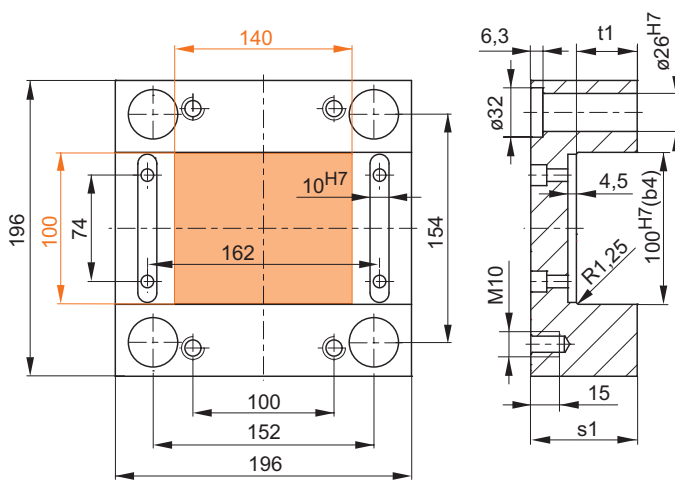


PR / 40x70	x	s1	/ 1.2767	3.4365
		20	■	■
		25	■	■
		32	■	■
		40	■	■

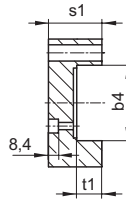
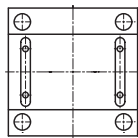
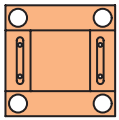
196x196

Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 196x196x46x100x25 / 1.2312
PR / 50x70x25 / 1.2767

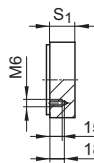
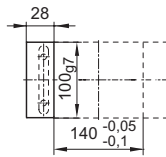
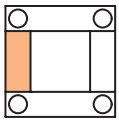


KR20



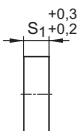
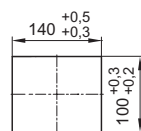
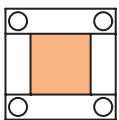
KR20 / 196x196	x	s1	x	b4	x	t1	/ 1.2312
		46		100		25	■
		56				32	■
		66				40	■

KR201



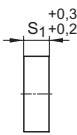
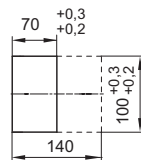
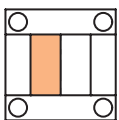
KR201 / 100x28	x	s1	/ 1.2312
		25	■
		32	■
		40	■

PR



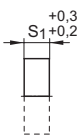
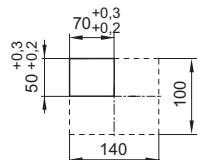
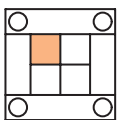
PR / 100x140	x	s1	/ 1.2767	3.4365
		25	■	■
		32	■	■
		40	■	■
		50	■	■

PR



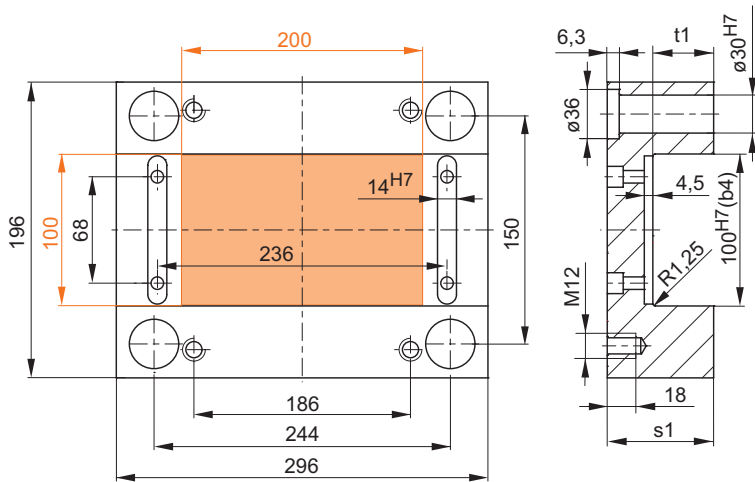
PR / 70x100	x	s1	/ 1.2767	3.4365
		25	■	■
		32	■	■
		40	■	■
		50	■	■

PR



PR / 50x70	x	s1	/ 1.2767	3.4365
		25	■	■
		32	■	■
		40	■	■
		50	■	■

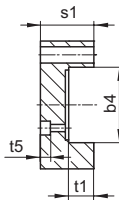
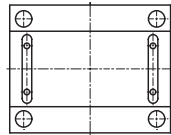
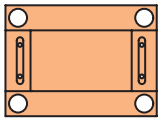
196x296



Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 196x296x46x100x25 / 1.2312
PR / 50x100x25 / 1.2767

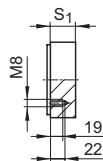
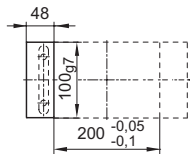
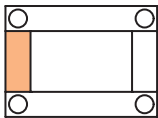
KR20



s1 = 46: t5 = 9
s1 ≧ 56: t5 = 11

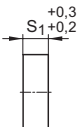
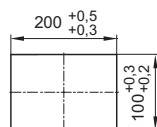
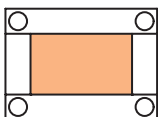
KR20 / 196x296	x	s1	x	b4	x	t1	/	1.2312
		46		100		25		■
		56				32		■
		66				40		■

KR201



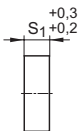
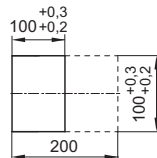
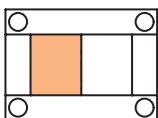
KR201 / 100x48	x	s1	/	1.2312
		25		■
		32		■
		40		■

PR



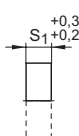
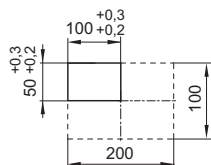
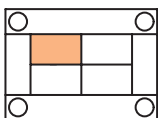
PR / 100x200	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

PR



PR / 100x100	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

PR

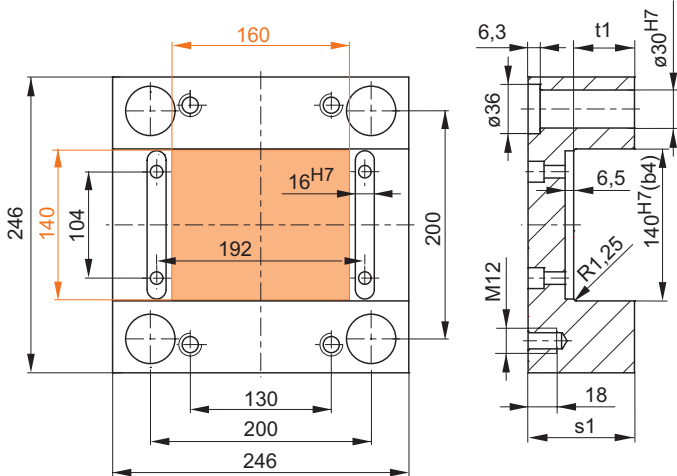


PR / 50x100	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

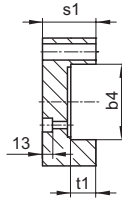
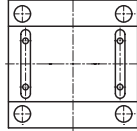
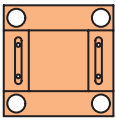
246x246

Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 246x246x56x140x25 / 1.2312
PR / 70x80x25 / 1.2767

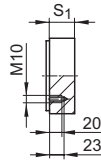
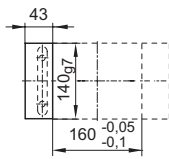
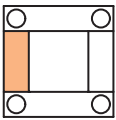


KR20



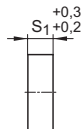
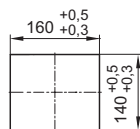
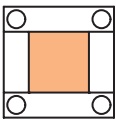
KR20 / 246x246	x	s1	x	b4	x	t1	/	1.2312
		56		140		25		■
		66				32		■
		76				40		■

KR201



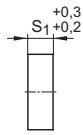
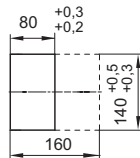
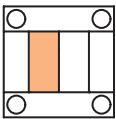
KR201 / 140x43	x	s1	/	1.2312
		25		■
		32		■
		40		■

PR



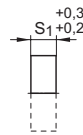
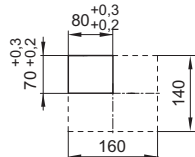
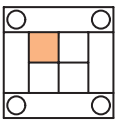
PR / 140x160	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

PR



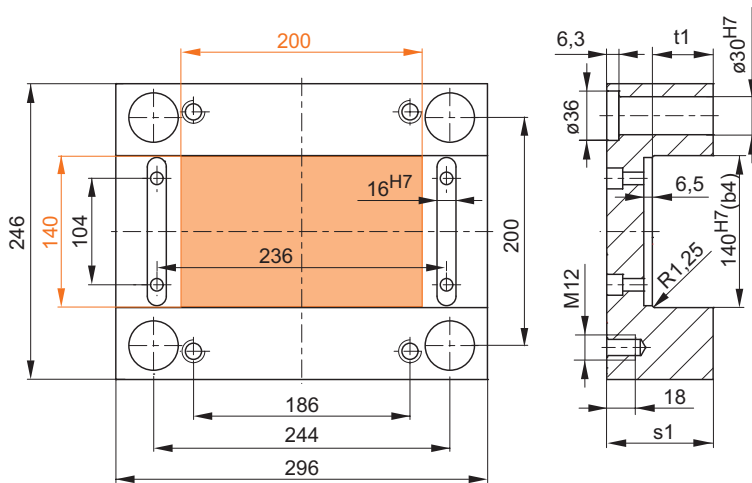
PR / 80x140	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

PR



PR / 70x80	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

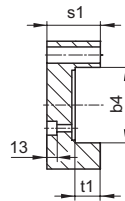
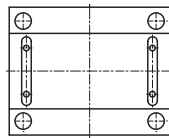
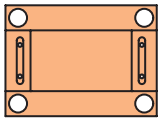
246x296



Bestellbeispiel:
Ordering example:
Exemple de commande:

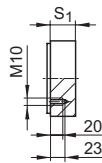
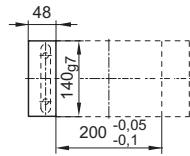
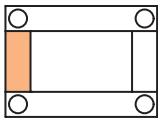
KR20 / 246x296x56x140x25 / 1.2312
PR / 70x100x25 / 1.2767

KR20



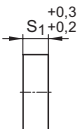
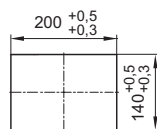
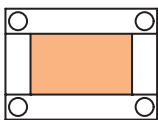
KR20 / 246x296	x	s1	x	b4	x	t1	/	1.2312
		56		140		25		■
		66				32		■
		76				40		■

KR201



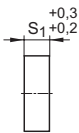
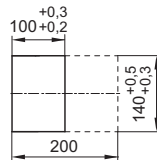
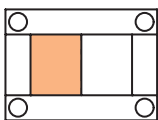
KR201 / 140x48	x	s1	/	1.2085	1.2312
		25		■	■
		32		■	■
		40		■	■

PR



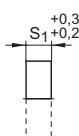
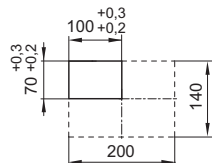
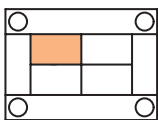
PR / 140x200	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

PR



PR / 100x140	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

PR

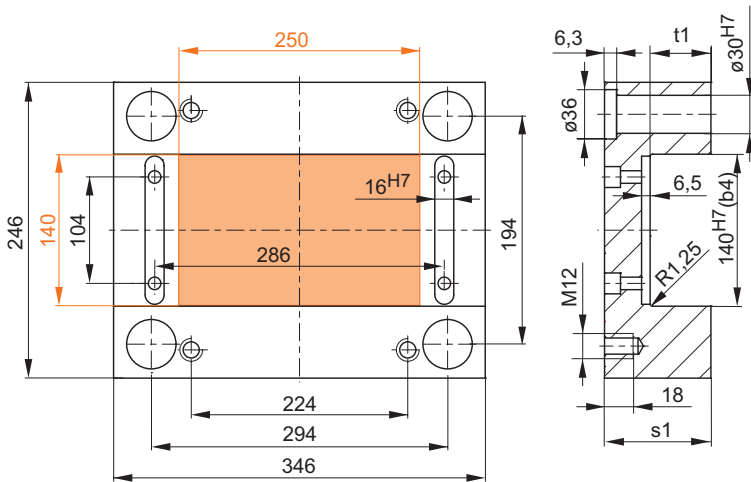


PR / 70x100	x	s1	/	1.2767	3.4365
		25		■	■
		32		■	■
		40		■	■
		50		■	■

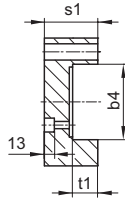
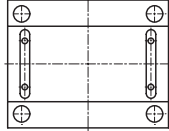
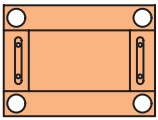
246x346

Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 246x346x56x140x25 / 1.2312
PR / 70x125x25 / 1.2767

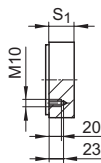
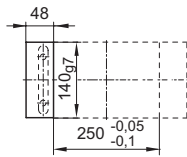
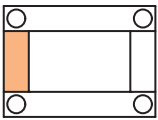


KR20



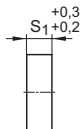
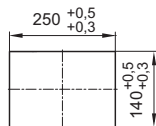
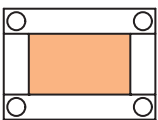
KR20 / 246x346	x	s1	x	b4	x	t1	/ 1.2312
		56		140		25	■
		66				32	■
		76				40	■

KR201



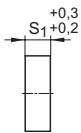
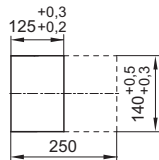
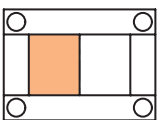
KR201 / 140x48	x	s1	/ 1.2312
		25	■
		32	■
		40	■

PR



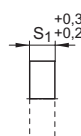
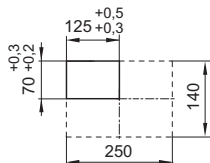
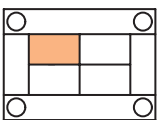
PR / 140x250	x	s1	/ 1.2767	3.4365
		25	■	■
		32	■	■
		40	■	■
		50	■	■

PR



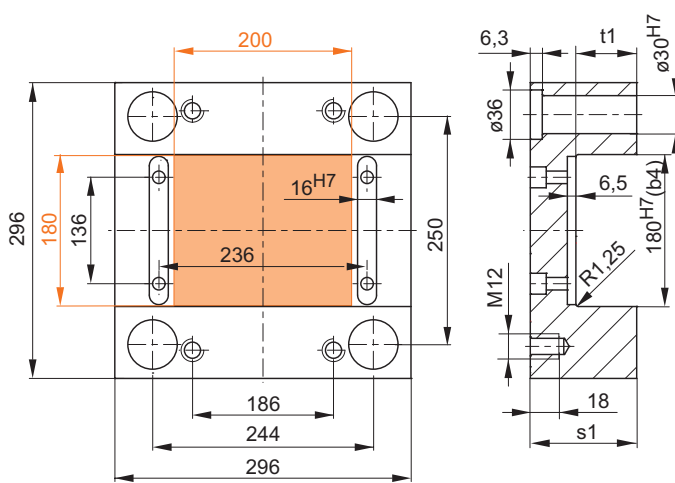
PR / 125x140	x	s1	/ 1.2767	3.4365
		25	■	■
		32	■	■
		40	■	■
		50	■	■

PR



PR / 70x125	x	s1	/ 1.2767	3.4365
		25	■	■
		32	■	■
		40	■	■
		50	■	■

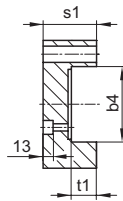
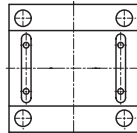
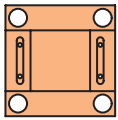
296x296



Bestellbeispiel:
Ordering example:
Exemple de commande:

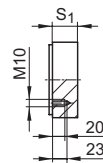
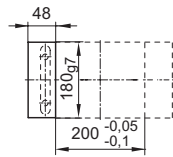
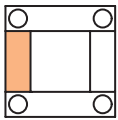
KR20 / 296x296x66x180x32 / 1.2312
PR / 90x100x32 / 1.2767

KR20



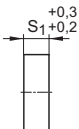
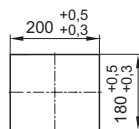
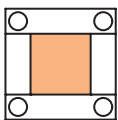
KR20 / 296x296	x	s1	x	b4	x	t1	/ 1.2312
		66		180		32	■
		76				40	■
		86				50	■

KR201



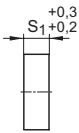
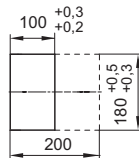
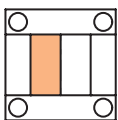
KR201 / 180x48	x	s1	/ 1.2312
		32	■
		40	■
		50	■

PR



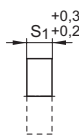
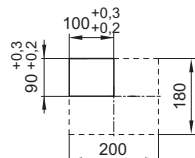
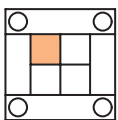
PR / 180x200	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

PR



PR / 100x180	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

PR

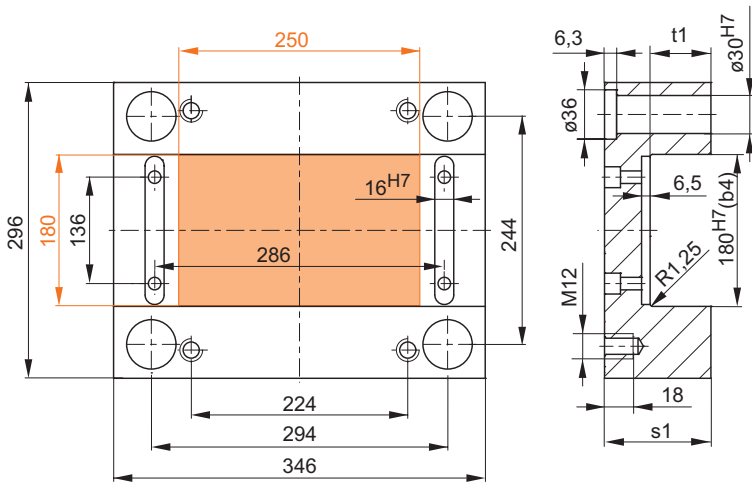


PR / 90x100	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

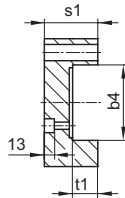
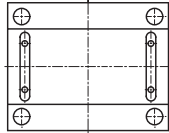
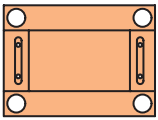
296x346

Bestellbeispiel:
Ordering example:
Exemple de commande:

KR20 / 296x346x66x180x32 / 1.2312
PR / 90x125x32 / 1.2767

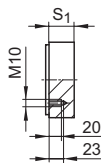
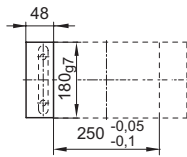
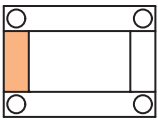


KR20



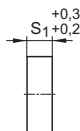
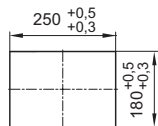
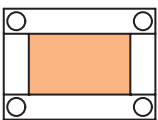
KR20 / 296x346	x	s1	x	b4	x	t1	/ 1.2312
		66		180		32	■
		76				40	■
		86				50	■

KR201



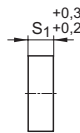
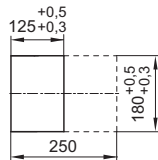
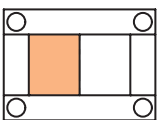
KR201 / 180x48	x	s1	/ 1.2312
		32	■
		40	■
		50	■

PR



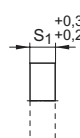
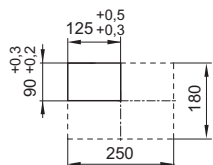
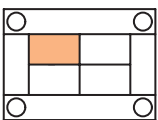
PR / 180x250	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

PR



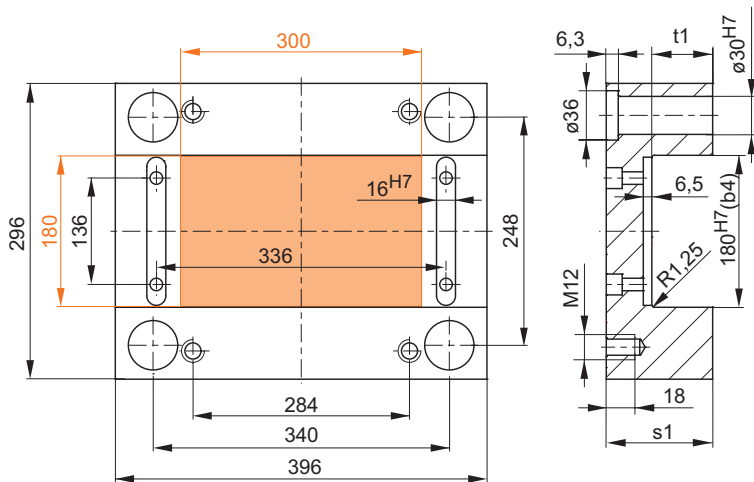
PR / 125x180	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

PR



PR / 90x125	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

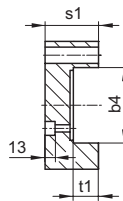
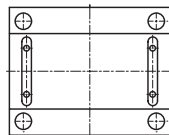
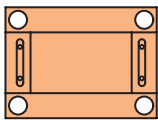
296x396



Bestellbeispiel:
Ordering example:
Exemple de commande:

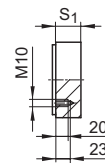
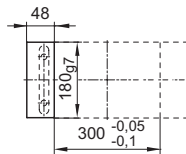
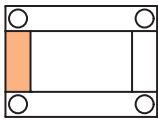
KR20 / 296x396x66x180x32 / 1.2312
PR / 90x150x32 / 1.2767

KR20



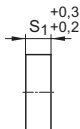
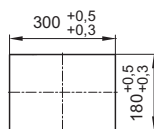
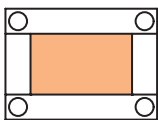
KR20 / 296x396	x	s1	x	b4	x	t1	/ 1.2312
		66		180		32	■
		76				40	■
		86				50	■

KR201



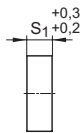
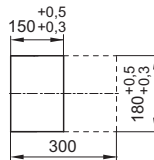
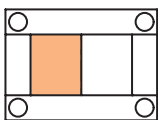
KR201 / 180x48	x	s1	/ 1.2312
		32	■
		40	■
		50	■

PR



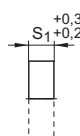
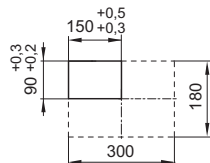
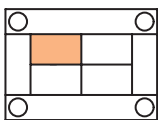
PR / 180x300	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

PR



PR / 150x180	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■

PR



PR / 90x150	x	s1	/ 1.2767	3.4365
		32	■	■
		40	■	■
		50	■	■
		63	■	■



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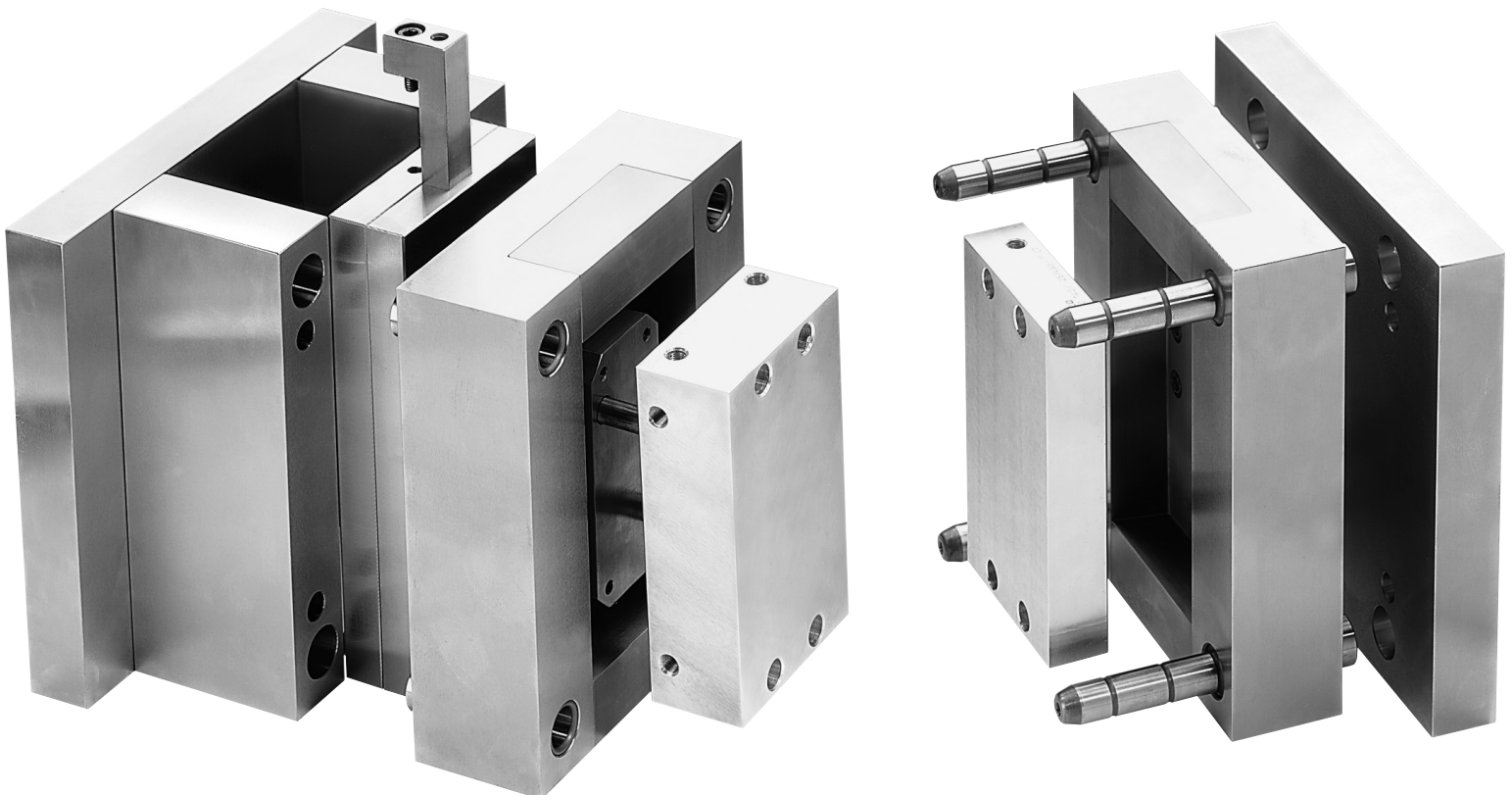
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- Easy search and selection
- Logical and fast access to CAD data

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Ermöglichen mit System.

K 3500 / ...

Wechselwerkzeug-System
Quick-change Mould System
Système de moule à
changement rapide





Das HASCO-Wechselwerkzeug-System K3500/... ist speziell für die kostengünstige Produktion praxisnaher Muster, Prototypen und Kleinserien entwickelt worden.

Es besteht aus dem Wechselwerkzeug K3500/... und den dazu passenden Formeinsätzen K3501/... und K3520/... . Gemäß dem HASCO Baukastenprinzip sind die Einsätze austauschbar.

The HASCO K3500/... quick-change Mould System has been especially developed for the economic production of samples, prototypes and small series.

It consists of the mould changing unit K3500/... and the matching mould inserts K3501/... and K3520/... . The inserts are exchangeable according to the HASCO modular system.

Le système de moule à changement rapide HASCO K3500/... a été développé spécialement pour une production à bas prix et basée sur la pratique d'échantillons, de prototypes et de petites séries.

Il se compose du moule de changement K3500/... et des inserts porte-empreintes K3501/... et K3520/... correspondantes. Grâce au principe modulaire HASCO, ces inserts sont interchangeables.

Besondere Merkmale

- Die Einsätze sind von der Trennebene aus verschraubt und in der Spritzgießmaschine auswechselbar.
- Minimale Stillstandzeiten durch schnelles Wechseln der Formeinsätze.
- Formplatten sind in den Materialien 1.2312 und 1.2085 erhältlich.
- 3 Werkzeuggrößen, kompatibel zum K-Programm
 - 156 x 196
 - 246 x 296
 - 296 x 396
- Die Einsätze mit integrierter Temperierung sind in den Materialien 1.2767 und 3.4365 erhältlich.
- Verbindung zwischen Formeinsatz K3501 und Wechselwerkzeug K3500 mittels Verriegelung.

Special Features

- The inserts are bolted through from the parting plane and can be exchanged in the injection moulding machine.
- Minimum downtimes due to fast changing of the mould inserts.
- Mould plates can be obtained in materials 1.2312 and 1.2085.
- 3 mould sizes, compatible with the K-range
 - 156 x 196
 - 246 x 296
 - 296 x 396
- The inserts with integrated cooling lines can be obtained in materials 1.2767 and 3.4365.
- Connection between mould insert K3501 and mould-changing unit K3500 is by means of a locking bar.

Caractéristiques particulières

- Les inserts sont vissés du niveau de séparation et interchangeables dans la presse d'injection.
- Durées d'immobilisation minimales grâce au changement rapide des inserts porte-empreintes.
- Plaques porte-empreintes sont disponibles dans les qualités 1.2312 et 1.2085.
- 3 grandeurs de moules, compatibles avec le programme K
 - 156 x 196
 - 246 x 296
 - 296 x 396
- Les inserts avec refroidissement intégrés sont disponibles dans les qualités 1.2767 et 3.4365.
- Liaison par verrouillage entre l'insert porte-empreinte K3501 et le moule de changement K3500.

Technische Informationen

Die Einsätze sind separat austauschbar und wie folgt zu bestellen:

K3501/...

Formeinsatz mit Wechselauswerferei bewegliche Seite

K3520/...

Formeinsatz feste Seite

Technical Information

The inserts can be exchanged separately and ordered as follows:

K3501/...

Mould insert with changing ejector unit moving side

K3520/...

Mould insert fixed side

Informations techniques

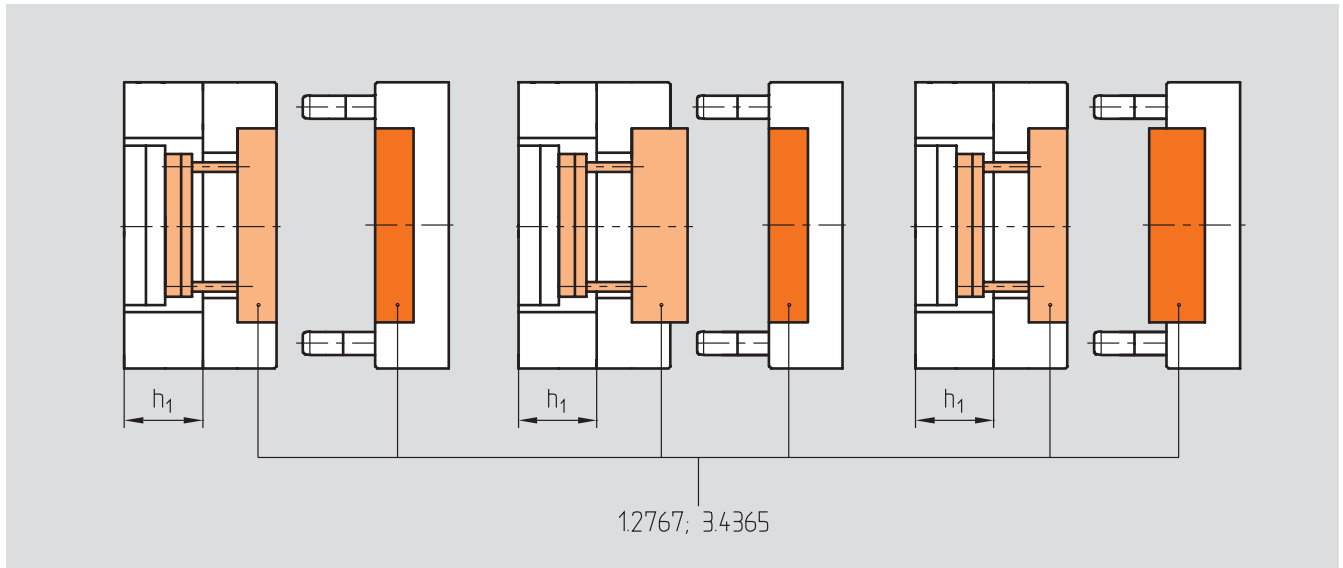
Les inserts sont interchangeables individuellement et peuvent être commandés sous les références suivantes:

K3501/...

Insert porte-empreintes avec éjection de moule côté mobile

K3520/...

Insert porte-empreintes côté fixe



Die Einsätze sind bündig oder überstehend zu der Rahmenformplatte. Sie sind untereinander kombinierbar. Die Einsätze werden mit Aufmaß geliefert.

Folgende Leisten K40/... werden für das Wechselwerkzeug K3500/... benötigt:

K 40/156 x 196 x 76/...
K 40/246 x 296 x 76/...
K 40/296 x 396 x 96/...

Die Leistenhöhe h_1 muss unbedingt eingehalten werden.

The inserts are flush with or they project beyond the bolster plate. They can be combined with one another. The inserts are delivered with machining allowance.

The following risers K40/... are required for the K3500/... mould-changing unit:

K 40/156 x 196 x 76/...
K 40/246 x 296 x 76/...
K 40/296 x 396 x 96/...

It is absolutely necessary to maintain the riser height h_1 .

Les inserts sont placés à fleur ou en saillie par rapport à la plaque porte-empreintes du châssis. Ils peuvent être combinés et sont livrés avec surépaisseur.

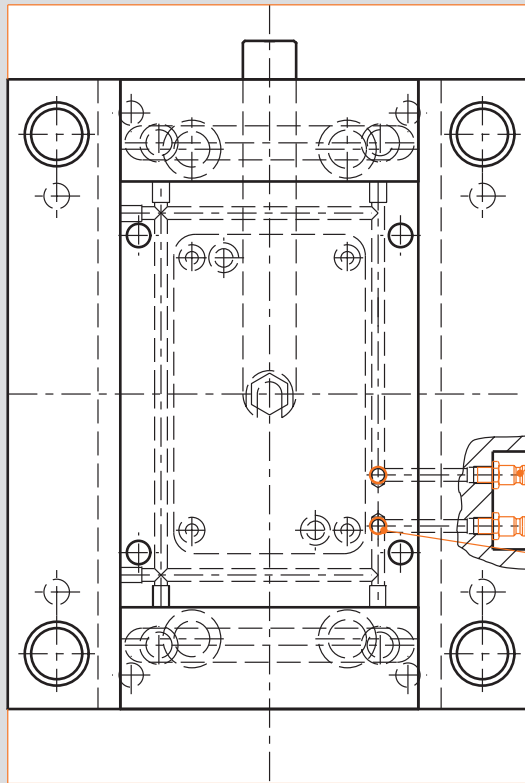
Les tasseaux K40/... suivantes sont requises pour le moule de changement K3500/...:

K 40/156 x 196 x 76/...
K 40/246 x 296 x 76/...
K 40/296 x 396 x 96/...

L'épaisseur de tasseaux h_1 doit être impérativement respectée.

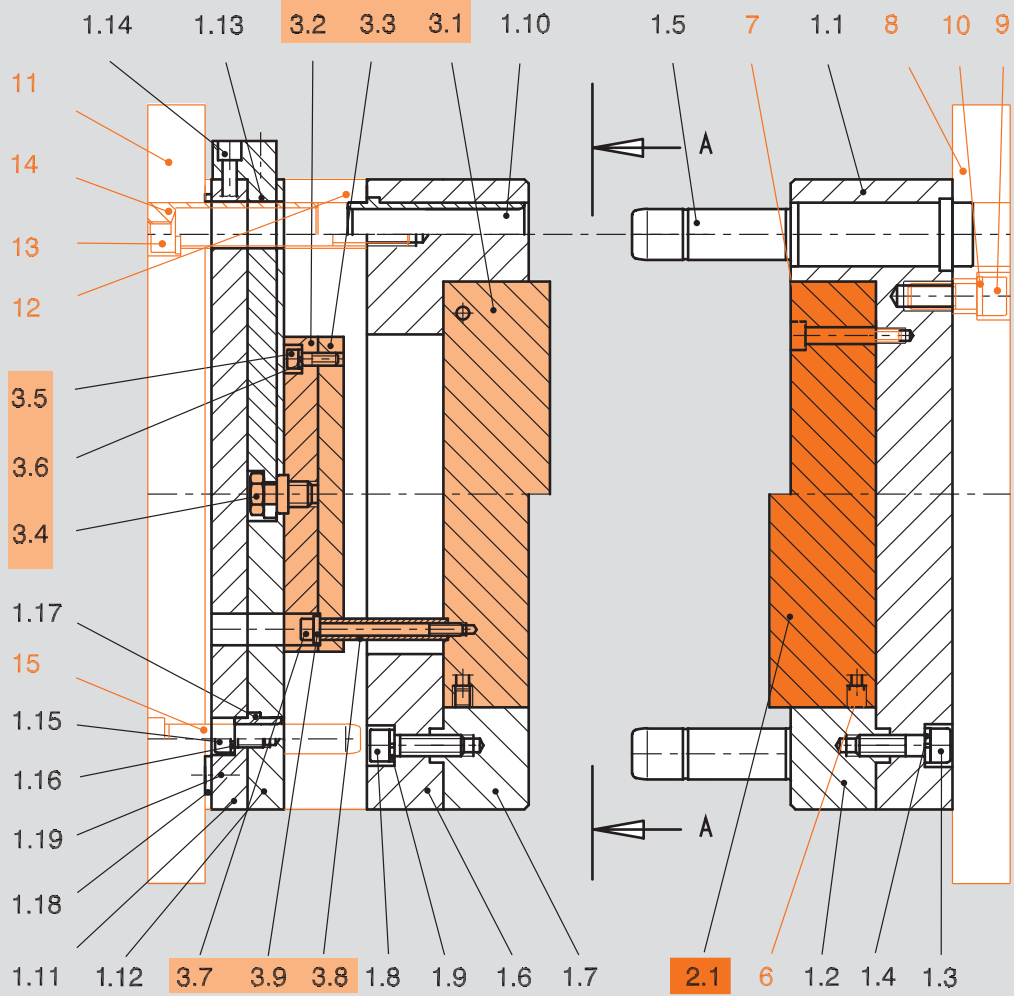


A - A



4

5



Pos.	Benennung	Designation	Désignation	St./Pc.	Nr./No.
1.1	Rahmenformplatte	Bolster plate	Plaque porte-empreinte avec logement	1	
1.2	Endstück	End piece	Verrou de fermeture	2	KR201/...
1.3	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	4	Z31/...
1.4	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	4	Z691/...
1.5	Führungssäule	Guide pillar	Colonne de guidage	4	Z00/...
1.6	Rahmenformplatte	Bolster plate	Plaque porte-empreinte avec logement	1	
1.7	Endstück	End piece	Verrou de fermeture	2	KR201/...
1.8	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	4	Z31/...
1.9	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	4	Z691/...
1.10	Führungsbuchse	Guide bush	Bague de guidage	4	Z10/...
1.11	Auswerfergrundplatte	Ejector base plate	Contre plaque d'éjection	1	
1.12	Auswerferhalteplatte	Ejector retainer plate	Plaque d'éjection	1	
1.13	Verriegelung	Locking bar	Verrou	1	
1.14	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	1	Z31/...
1.15	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	4	Z31/...
1.16	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	4	Z691/...
1.17	Führungsbuchse	Guide bush	Bague de guidage	2/4	Z13W /17/...
1.18	Auflagescheibe	Seating washer	Rondelle de butée	4	Z55/18x3
1.19	Senkschraube	Countersunk screw	Vis à tête fraisée	4	Z33/4x8

**Formeinsatz
(feste Seite) K3520/...**
**Mould insert
(fixed side) K3520/...**
**Insert porte-empreintes
(côté fixe) K3520/...**

Pos.	Benennung	Designation	Désignation	St./Pc.	Nr./No.
2.1	Formeinsatz	Cavity insert	Plaque dévêtisseuse	1	K3520/...

**Formeinsatz
(bewegliche Seite) K3501/...**
**Mould insert
(moving side) K3501/...**
**Insert porte-empreintes
(côté mobile) K3501/...**

Pos.	Benennung	Designation	Désignation	St./Pc.	Nr./No.
3.1	Formeinsatz	Cavity insert	Plaque dévêtisseuse	1	
3.2	Auswerfergrundplatte für K3501	Ejector base plate for K3501	Contre plaque d'éjection pour K3501	1	
3.3	Auswerferhalteplatte für K3501	Ejector retainer plate for K3501	Plaque d'éjection pour K3501	1	
3.4	Verriegelungsschraube	Locking screw	Vis de verrouillage	1	
3.5	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	4	Z31/...
3.6	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	4	Z691/...
3.7	Zylinderschraube	SHC screw	Vis à tête cylindrique	2	Z31/...
3.8	Führungshülse	Guide sleeve	Douille de guidage	2	Z022/10/...
3.9	Scheibe	Disc	Rondelle	2	Z561/14x3

**Sonstige K + Z Teile,
extra Bestellung erforderlich!**
**Miscellaneous K + Z parts,
extra ordering required!**
**Autres pièces K + Z,
commande séparée obligatoire!**


Pos.	Benennung	Designation	Désignation	St./Pc.	Nr./No.
4	Anschlussnippel	Nipple	Raccord de préférence	4	Z81/9/10x1
5	Viton O-Ring	Viton O-ring	Joint torique Viton	4	Z98/7,5/1,5
6	Verschlusschraube	Hexagon socket pipe plug	Bouchon fileté à 6 pans creux	12	Z94/8x0,75
7	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	8	Z31/...*
8	Aufspannplatte	Clamping plate	Plaque de fixation	1	K10/...*
9	Zylinderschraube	Hexagon socket head cap screw	Vis à tête cylindrique à 6 pans creux	4	Z31/...*
10	Sperrkantring	Locking edge washer	Rondelle à bords d'arrêt	8	Z691/...*
11	Aufspannplatte	Clamping plate	Plaque de fixation	1	K10/...*
12	Leiste	Riser	Tasseaux	2	K40/...
13	Zylinderschraube	SHC screw	Vis à tête cylindrique	4	Z31/...*
14	Zentrierhülse	Centering sleeve	Douille de centrage	4	Z20/...*
15	Führungssäule	Guide pillar	Colonne de guidage	4	Z01/14x...*

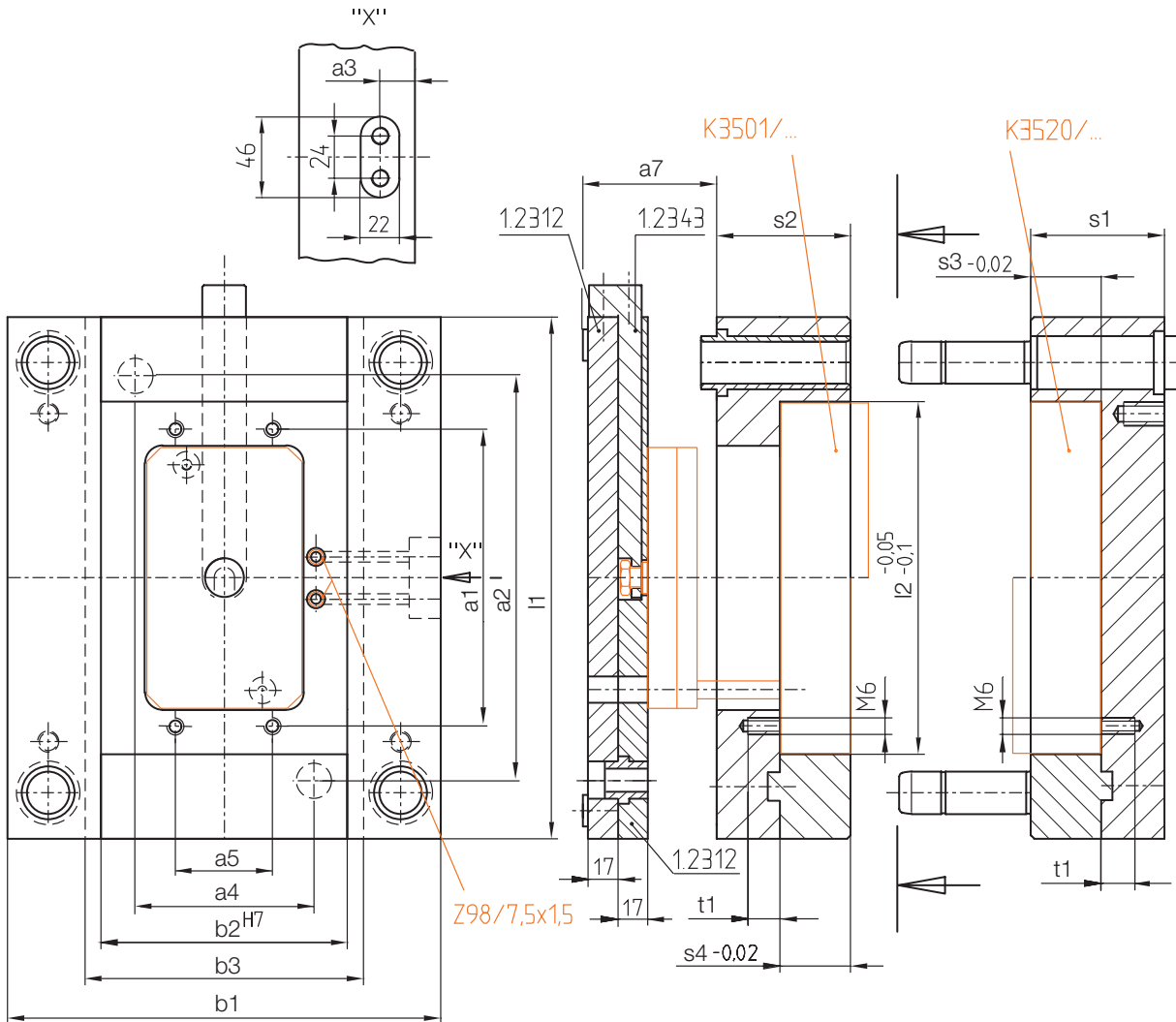
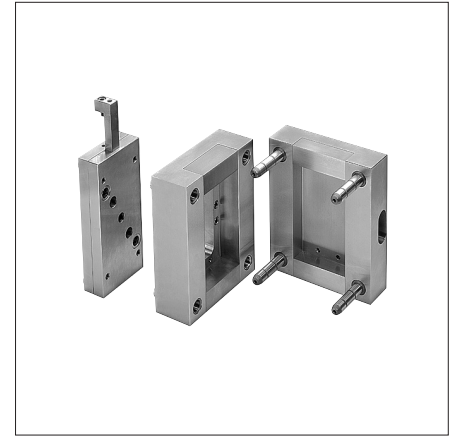
* Typ und Abmessung ist vom Konstrukteur festzulegen.

* Type and dimension is to be determined by the designer.

* Le type et les dimensions doivent être déterminés par le concepteur.

K 3500 /...

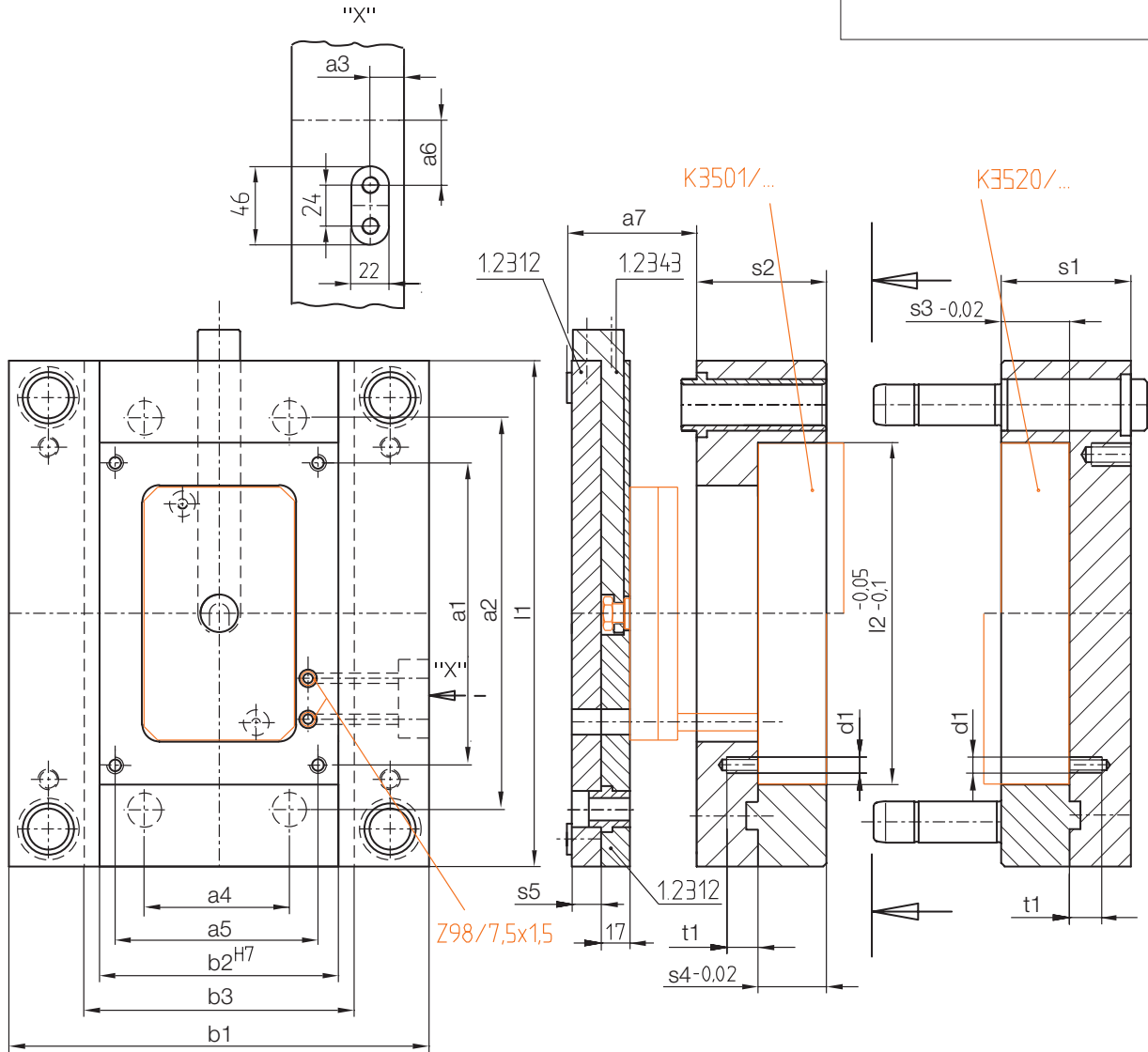
Wechselwerkzeug
Mould-changing system
Moule de changement



t1	s4	s3	a7	a5	a4	a3	a2	a1	b3	b2	l2	b1	l1	s1	s2	Mat.	Nr./No.				
14	25	25	76	31	61	14	124	101	90	80	140	156	196	46	46	1.2312	K 3500 / 156 x 196 x 46 x 46 / 1.2312				
																1.2085	1.2085				
																56	1.2312	46 x 56 / 1.2312			
																	1.2085	1.2085			
																25	32	56	46	1.2312	56 x 46 / 1.2312
																				1.2085	1.2085
	32	56	1.2312	56 x 56 / 1.2312																	
					1.2085	1.2085															

K 3500 /...

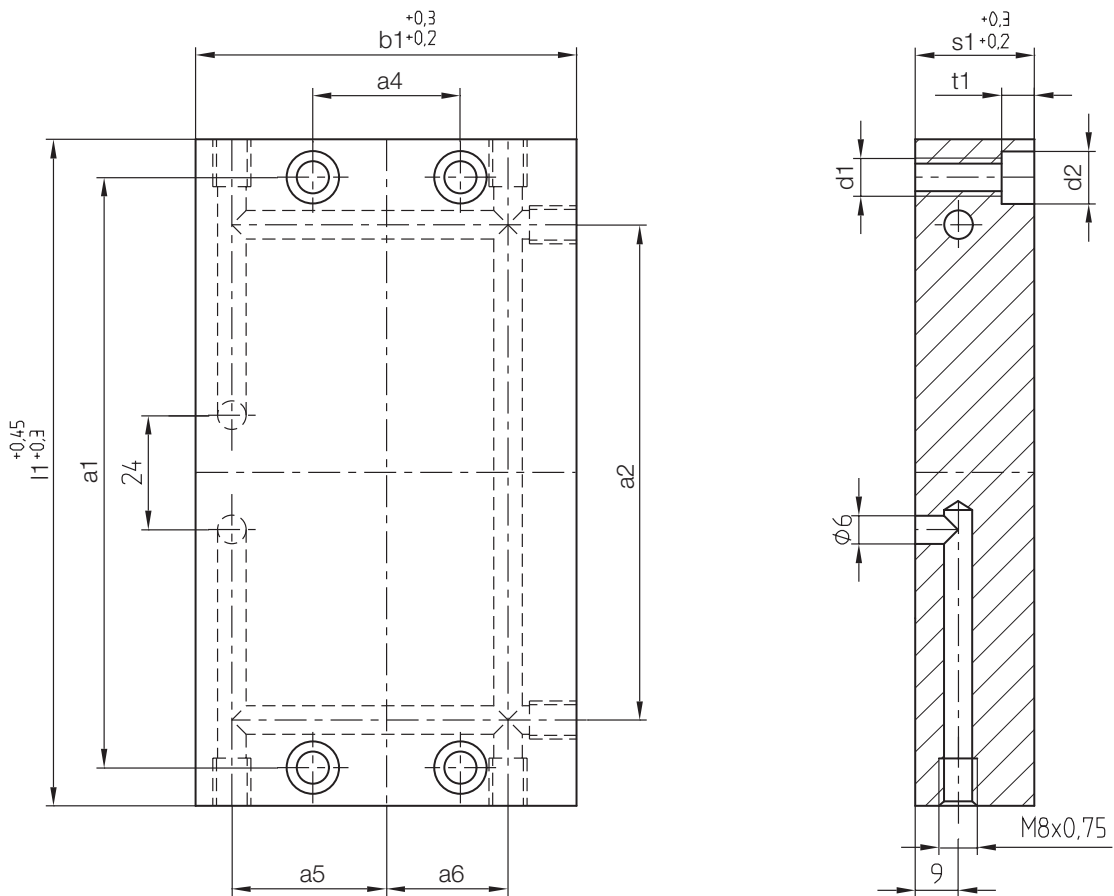
Wechselwerkzeug
Mould-changing system
Moule de changement



t1	s5	s4	s3	a7	a6	a5	a4	a3	a2	a1	b3	b2	l2	d1	b1	l1	s1	s2	Mat.	Nr./No.	
14	17	32	32	76	38	123	73	20	230	149	158	140	200	M6	246	296	66	66	1.2312	K 3500/246x296x66x66/1.2312	
																			1.2085	1.2085	
		40																76	1.2312	66x76/1.2312	
																			1.2085	1.2085	
		32	40															76	66	1.2312	76x66/1.2312
																			1.2085	1.2085	
		40																76	1.2312	76x76/1.2312	
																			1.2085	1.2085	
16	22	50	50	96	63	159	116	25	330	244	200	180	300	M8	296	396	86	86	1.2312	K 3500/296x396x86x86/1.2312	
																			1.2085	1.2085	

K 3520 /...

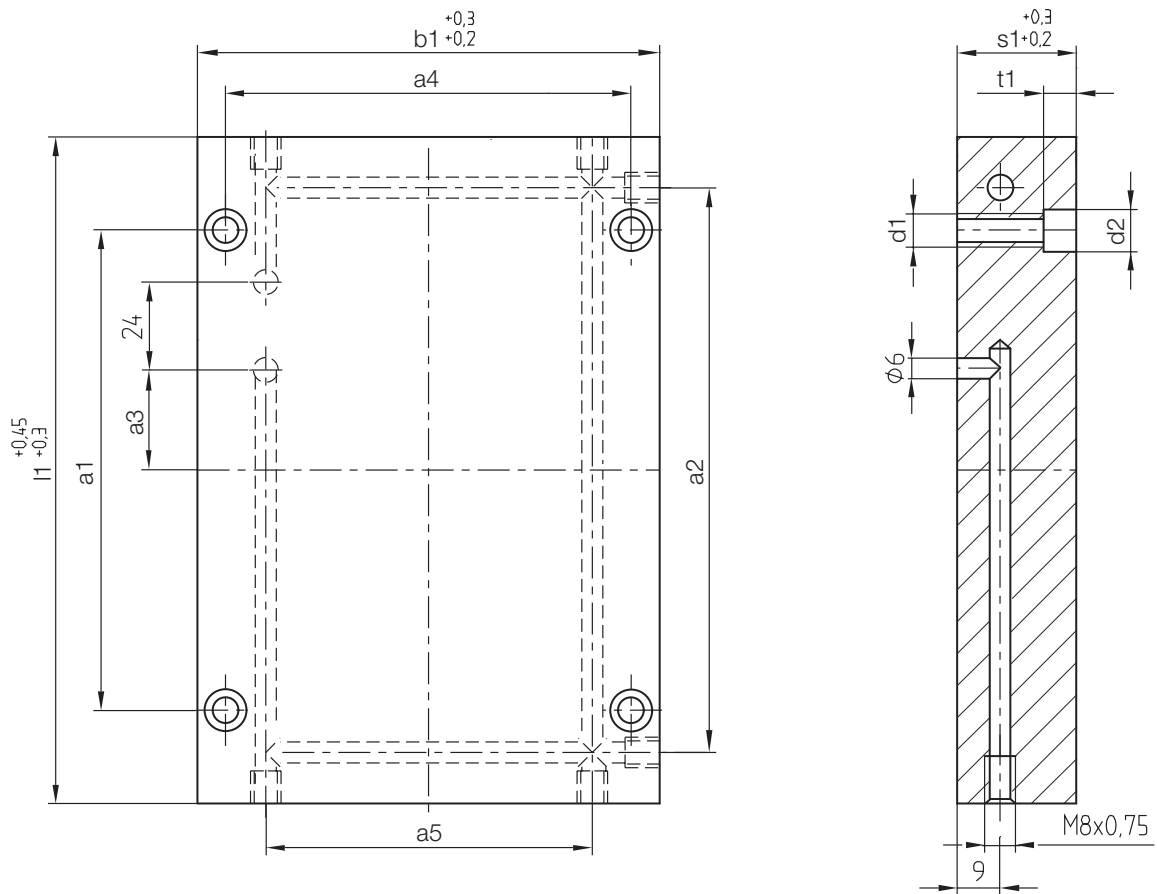
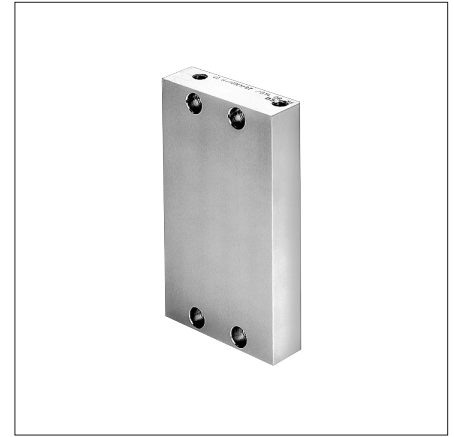
Formeinsatz
Mould insert
Insert porte-empreintes



t1	a6	a5	a4	a2	a1	d2	d1	b1	l1	s1	Mat.	Nr./No.	
6,9	25,5	32,5	31	104	124	11	M8	80	140	25	1.2767	K 3520/80x140x25/1.2767	
											3.4365	3.4365	
13,9											32	1.2767	32/1.2767
											3.4365	3.4365	
21,9											40	1.2767	40/1.2767
											3.4365	3.4365	

K 3520 /...

Formeinsatz
Mould insert
Insert porte-empreintes



t1	a5	a4	a3	a2	a1	d2	d1	b1	l1	s1	Mat.	Nr./No.
6,9	103	123	38	170	149	11	M8	140	200	32	1.2767	K 3520/140x200x32/1.2767
											3.4365	3.4365
14,9										40	1.2767	40/1.2767
											3.4365	3.4365
24,9										50	1.2767	50/1.2767
											3.4365	3.4365
9	135	159	63	268	244	15	M10	180	300	50	1.2767	K 3520/180x300x50/1.2767
											3.4365	3.4365
22										63	1.2767	63/1.2767
											3.4365	3.4365



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Ermöglichen mit System.

K 3600 /...

*Kleinserienwerkzeug
Small series mould
Moule pour petites séries*



Werkzeuggrößen
Mould sizes
Grandeurs de moules

156 x 156
 190 x 246
 246 x 296
 296 x 396



Das HASCO Kleinserienwerkzeug K3600/... ist speziell für die kostengünstige Produktion praxisnaher Kleinserien entwickelt worden.

Es handelt sich hier um ein speziell auf das HASCO Clever Mold System A8500/... abgestimmtes Wechsel-Werkzeug, welches effizientes und schnelles Werkzeugwechseln auf allen gängigen Spritzgießmaschinen zulässt.

Das Clever Mold System in Verbindung mit dem Kleinserienwerkzeug K3600/... reduziert sowohl die Rüstzeiten, als auch die Werkzeugkosten.

Besondere Merkmale

- Einfaches Wechseln der kompletten Baugruppe auf der Spritzgießmaschine möglich
- Keine Reduzierung der nutzbaren Plattenfläche durch Einsetzen vordefinierter Auswerferpakete (im Vergleich zu allen herkömmlichen Systemen)
- Minimale Maschinenstillstandzeiten durch schnelles Wechseln des Werkzeugs
- Formplatten sind in den Materialien 1.2767 und Toolox 33 erhältlich
- Reduzierung von Werkzeugkosten
- Praxiserprobt
- 4 Werkzeuggrößen, kompatibel zum K-Programm

The HASCO small series mould K3600/... has been specially developed for the cost-effective production of practical small production runs.

This is an interchangeable mould specially adapted to the HASCO Clever Mold System A8500/..., which enables the mould to be changed quickly and efficiently on all current injection moulding systems.

The Clever Mold System in conjunction with the small series tool K3600/... reduces both the set-up times and the costs of the tool.

Special Features

- Simple changing of the complete module assembly is possible on the injection moulding system
- No reduction of the usable plate surface by using predefined ejector assemblies (compared with all conventional systems)
- Minimum machine downtimes due to fast changing of the mould
- Mould plates can be obtained in materials 1.2767 and Toolox 33
- Reduced tool costs
- Field-tested
- 4 mould sizes, compatible with the K-range

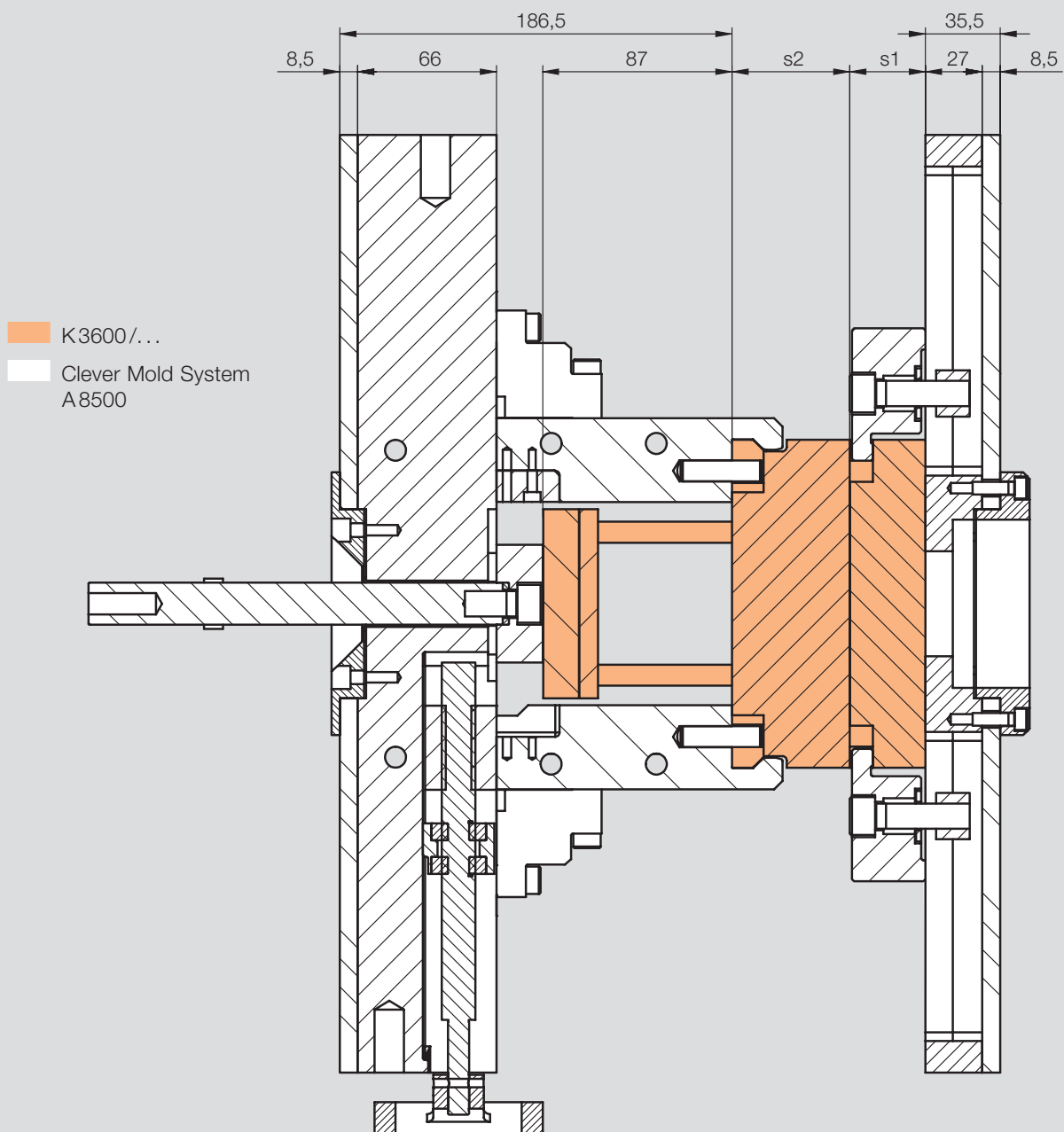
Le moule pour petites séries HASCO K3600/... a été spécialement développé pour la production à moindre coût de petites séries proches de la pratique.

Il s'agit d'un moule interchangeable spécialement adapté au HASCO Clever Mold System A8500/... et permettant un changement de moule efficace et rapide sur toutes les presses de moulage par injection courantes.

Le Clever Mold System, en combinaison avec le moule pour petites séries K3600/..., réduit les temps d'installation et les frais d'outillage.

Caractéristiques particulières

- Possibilité de changer facilement le module complet sur la presse de moulage par injection
- Aucune réduction de la surface utile de plaque grâce à l'utilisation de batteries d'éjection prédéfinies (par rapport à tous les systèmes classiques)
- Durées d'immobilisation minimales grâce au changement rapide des moules
- Plaques porte-empreintes sont disponibles dans les qualités 1.2767 et Toolox 33
- Frais d'outillage réduit
- Éprouvé dans la pratique
- 4 grandeurs de moules, compatibles avec le programme K



Einbaumaße

K3600/... Einbau

Im geöffnetem Zustand wird mit Hilfe des Handrades das komplette HASCO Kleinserienwerkzeug K3600/... über die Spannbacke des Clever Mold Systems in der Auswerferseite montiert.

Das Auswerferpaket wird über zwei Spannpratzen auf der Spannleiste befestigt.

Anschließend fährt die Maschine zusammen damit die Formplatte (FS) befestigt werden kann.

Mounting dimensions

K3600/... Assembly

When open, the complete HASCO quick interchangeable mould system K3600/... is installed on the ejector side with the clamping jaw of the Clever Mold System using the hand wheel.

The ejector assembly is fastened to the clamping bar via two clamping shoes.

Then the machine starts so that the fixed mould plate can be fastened.

Dimensions de montage

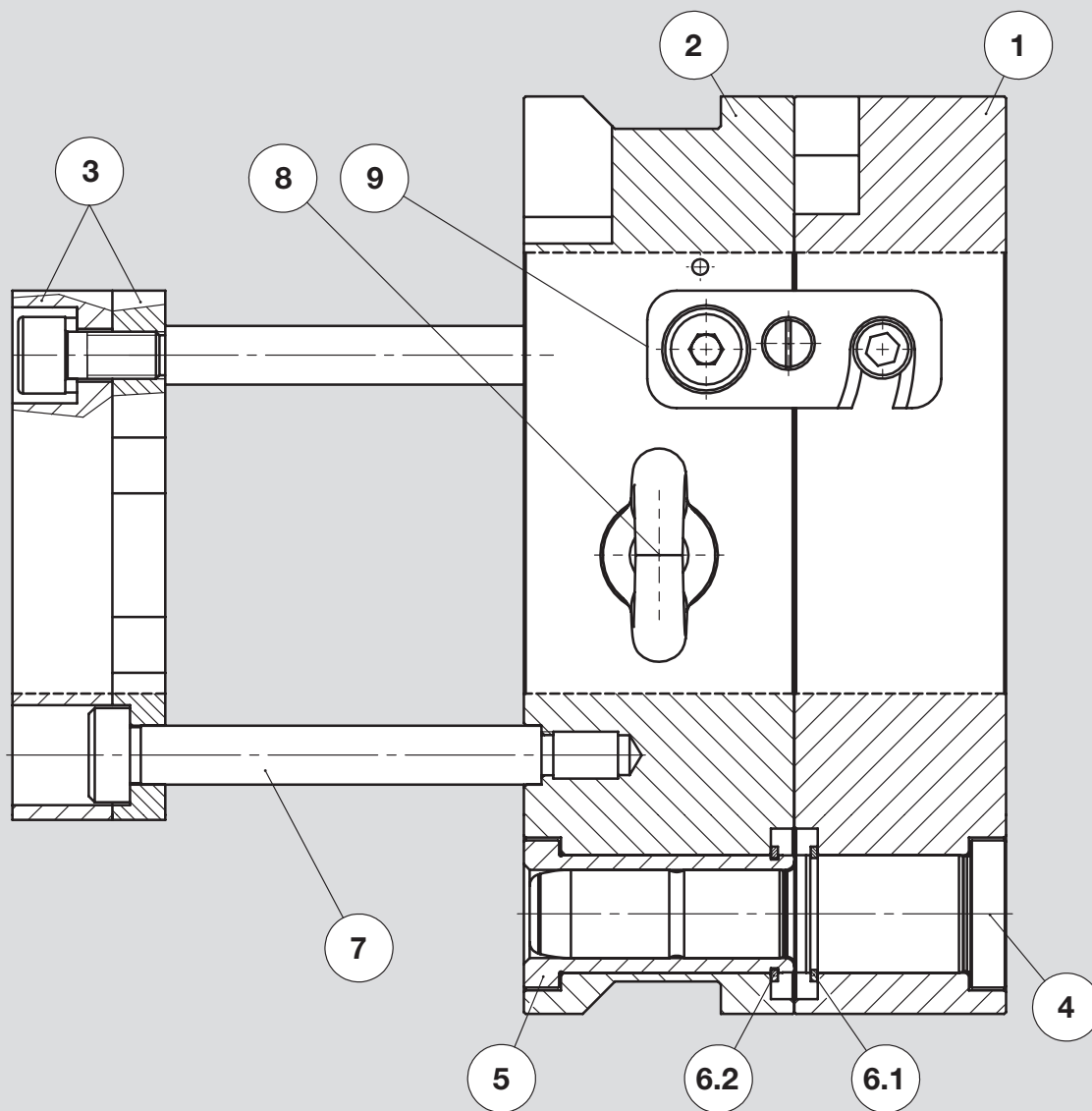
K3600/... Montage

En état ouvert, le système complet de moules à changement rapide K3600/... est monté du côté de l'éjecteur par le biais de la mâchoire de serrage du Système Clever Mold à l'aide du volant à main.

La batterie d'éjection est fixée sur la barre de serrage par le biais de deux griffes de serrage.

Ensuite, la presse est resserrée afin que la plaque porte-empreinte fixe puisse être attachée.





Stückliste

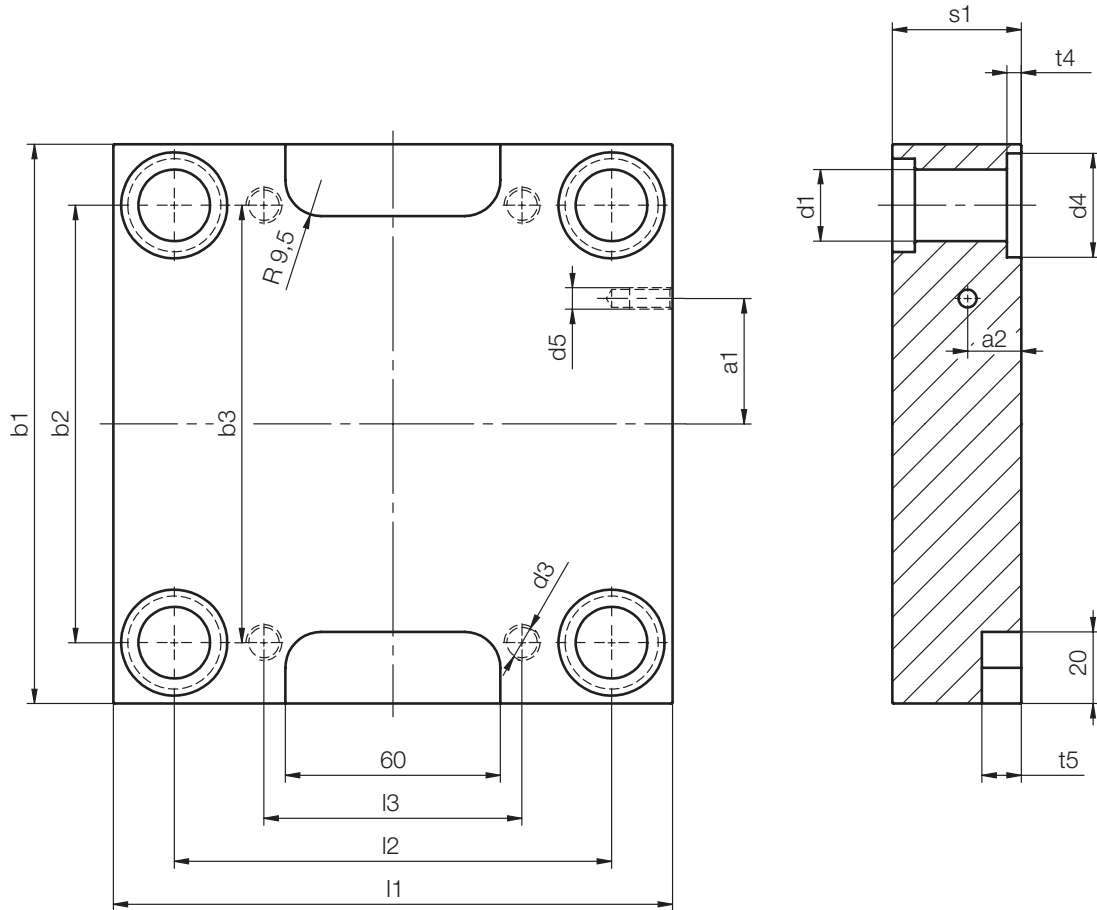
Parts list

Liste de pièces

Pos.	Benennung	Designation	Désignation	St./PC.	Nr./No.
1	Formplatte (FS)	Fixed mould plate	Plaque porte-empreinte fixe	1	K3620/..:
2	Formplatte (BS)	Moving mould plate	Plaque porte-empreinte mobile	1	K3621/...
3	Auswerferpaket	Ejector assembly	Batterie d'éjection	1	K3660-3670/...
4	Führungssäule	Guide pillar	Colonne de guidage	4	Z032/...
5	Führungsbuchse	Guide bush	Bague de guidage	4	Z1101/...
6.1	Sicherungsring	External circlip	Circlip	4	Z67/...
6.2	Sicherungsring	External circlip	Circlip	4	Z67/...
7	Schulterschraube	Shoulder screw	Vis à tête cylindrique épaulée	4	Z38/10x70
8	Ringschraube	Lifting eye bolt	Anneau de levage	1	Z710/...
9	Werkzeugsicherung	Tool safety device	Sécutité d'outillage	1	Z73/...

K3620/...

Formplatte (FS)
Fixed mould plate
Plaque porte-empreinte fixe

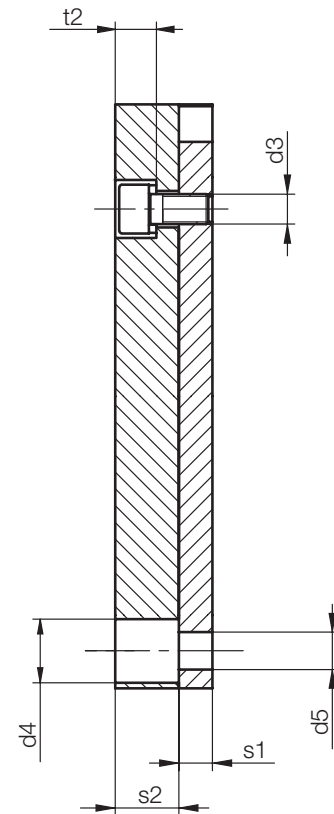
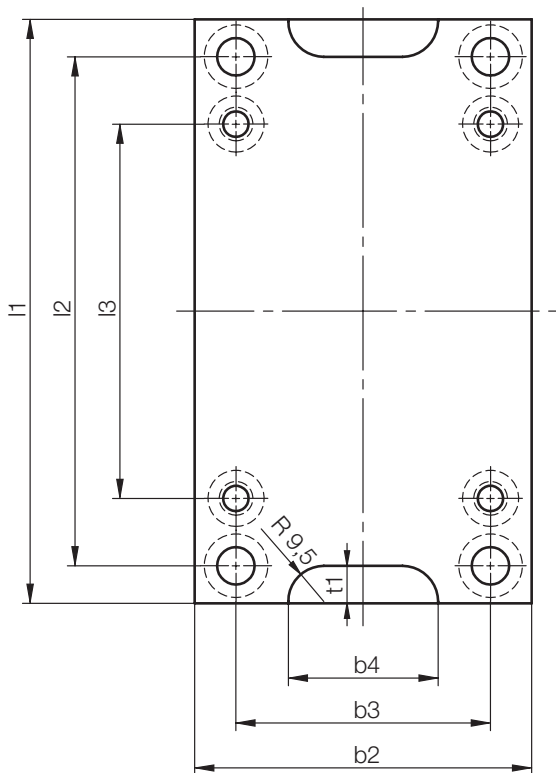


t5	t4	a2	a1	b3	b2	l3	l2	d5	d4	d3	d1	b1	l1	s1	Mat.		Nr./No.	
															1.2767	Toolox33		
11	4	15	35	122	122	72	122	M6	29	M10	20	156	156	36	■	■	K3620/ 156x156 x 36/Mat.	
21														46	■	■		46
31														56	■	■		56
11	5	15	35	148	148	150	202	36	26	M12	30	190	246	36	■	■	K3620/ 190x246 x 36/Mat.	
21				46	■	■	46											
31				56	■	■	56											
21	5	15	35	200	200	186	244	41	M12	30	246	296	46	■	■	K3620/ 246x296 x 46/Mat.		
31				56	■	■	56											
41				66	■	■	66											
21	5	15	35	248	248	284	340	41	M12	30	296	396	46	■	■	K3620/ 296x396 x 46/Mat.		
31				56	■	■	56											
41				66	■	■	66											



K 3660 - 3670 /...

Auswerferpaket
Ejector assembly
Batterie d'éjection

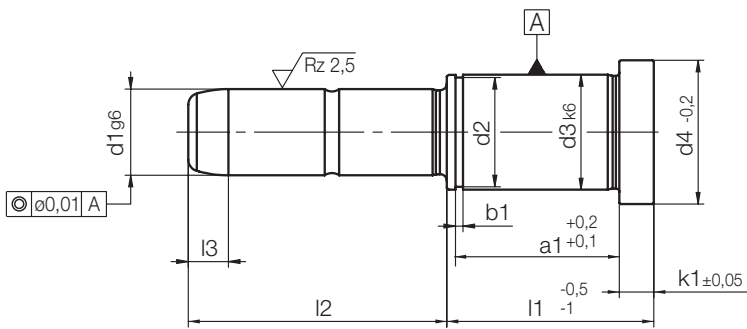


d5	d4	d3	l3	l2	b3	b2	s1	s2	b4	t2	t1	b1	l1	Mat.		Nr./No.
														1.1730	1.2312	
10	17	M8	100	136	68	90	9	17	40	11	10	156	156	■	■	K 3660-3670/ 156 x 156/ Mat.
			182	216	90	112	12	190				246	■	■	190 x 246	
			230	264	130	158		246				296	■	■	246 x 296	
			330	364	176	200	17	22				296	396	■	■	

Z032/...

Führungssäule, ohne Zentrieransatz
 Guide pillar, shouldered
 Colonne de guidage, sans plot de centrage

Mat.: ≈ 1.0401/690 + 70 HV 30
 ≈ DIN 16761-B

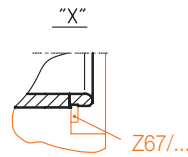
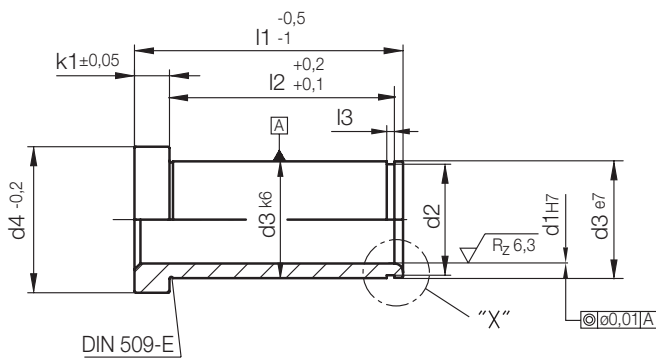


k1	a1	b1	l3	d4	d3	d2	l1	d1	l2	Nr./No.		
6	27,3	1,3	7	25	20	19	36	15	45	Z032/36x15x45		
									55	36x15x55		
									46	46x15x45		
	37,3	46					35	56x15x35				
							55	56x15x55				
							56	56x15x55				
	47,3	56		31	26	24,9	36	20	45	Z032/36x20x45		
									65	36x20x65		
									46	46x20x45		
	37,3	46					65	46x20x65				
							56	56x20x35				
							55	56x20x55				
36,6	1,6	35	30	28,6	46	22	50	Z032/46x22x50				
							70	46x22x70				
							56	56x22x55				
	46,6				55	56	55	56x22x55	66	24	75	56x22x75
											55	66x22x55
											75	66x22x75
	56,6	66	46	24	65	46	24	85	Z032/46x24x65			
								56	46x24x85			
								55	56x24x55			
	36,6	55				56	55	56x24x55	66	24	75	56x24x75
											55	66x24x55
											75	66x24x75
46,6	66	56	55	56x24x55	66	24	55	66x24x55				
							75	66x24x75				
							75	66x24x75				
56,6	75				66	55	66x24x55	66	24	55	66x24x55	
										75	66x24x75	
										75	66x24x75	

Z1101/...

Führungsbuchse, ohne Zentrieransatz
 Guide bush, headed
 Bague de guidage, sans plot de centrage

Mat.: ≈ 1.0401/690 + 70 HV 30
 ≈ DIN 16716-E



k1	l3	l2	d4	d3	d2	l1	d1	Nr./No.
6	1,3	37,3	25	20	19	46	15	Z1101/ 46x15
		47,3				56		56
		37,3	31	26	24,9	46	20	Z1101/ 46x20
		57,3				66		66

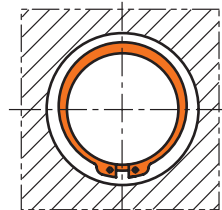
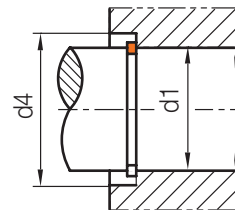
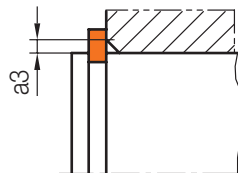
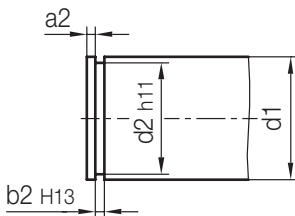
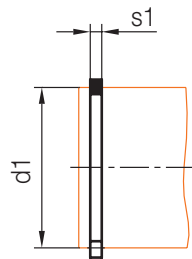
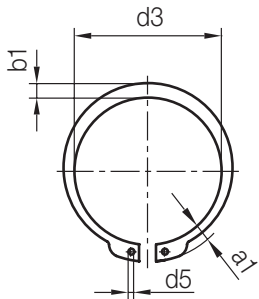
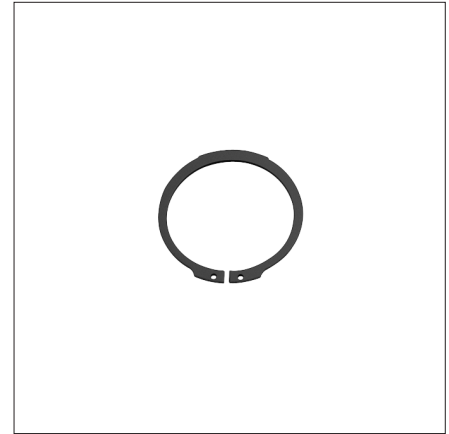
k1	l3	l2	d4	d3	d2	l1	d1	Nr./No.
6	1,6	46,6	35	30	28,6	56	22	Z1101/ 56x22
		66,6				76		76
		56,6	31	26	24,9	66	24	Z1101/ 66x24
		76,6				86		86



Z67/...

Sicherungsring, für Wellen
 External circlip
 Circlip pour arbre

DIN 471



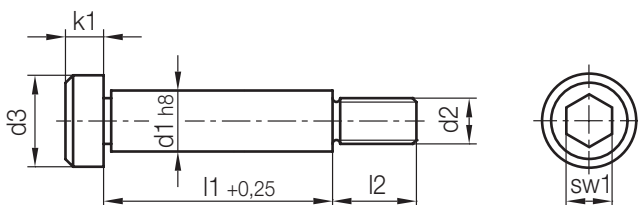
Umfangreiches Z67/... Programm siehe Z-Katalog, Bereich 2.
 Refer to the Z-catalogue, section 2 for a comprehensive range of Z67/... .
 Pour une gamme complète Z67/..., voir le catalogue Z, secteur 2.

	≤ a3	≤ a2	a1	b2	b1	d5	d4	d3	d2	d1	s1	Nr./No.
20	1,5	1,5	4	1,3	2,6	2	29	18,5	19	20	1,2	Z67/ 20x1,2
10			4,5		3,1		36	24,2	24,9	26		26
	1,5	2,1	5	1,6	3,5		41	27,9	28,6	30	1,5	Z67/ 30x1,5

Z38/...

SchulterSchraube
Shoulder screw
Vis à tête cylindrique épaulée

Mat.: 12.9/40±2 HRC
≈ ISO 7379



Umfangreiches Z38/... Programm siehe Z-Katalog, Bereich 2.

Refer to the Z-catalogue, section 2 for a comprehensive range of Z38/...

Pour une gamme complète Z38/..., voir le catalogue Z, secteur 2.

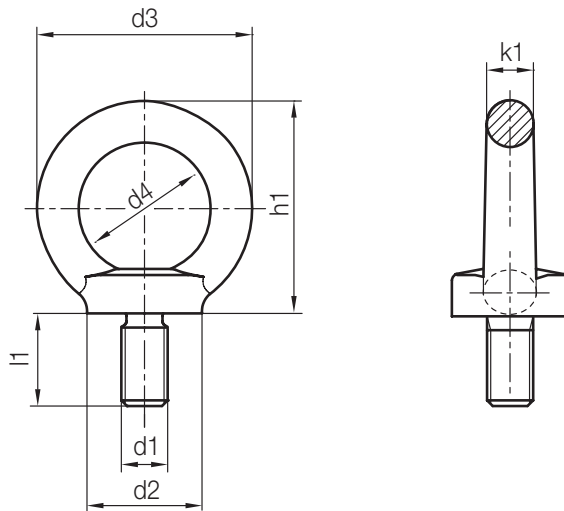
	sw1	k1	l2	d3	d2	d1	l1	Nr./No.
4	5	7	13	16	M8	10	70	Z38/10x70

Z710/...

Ringschraube
Lifting eye bolt
Anneau de levage

Mat : C15E
DIN 580
Max. °C: 200

CE



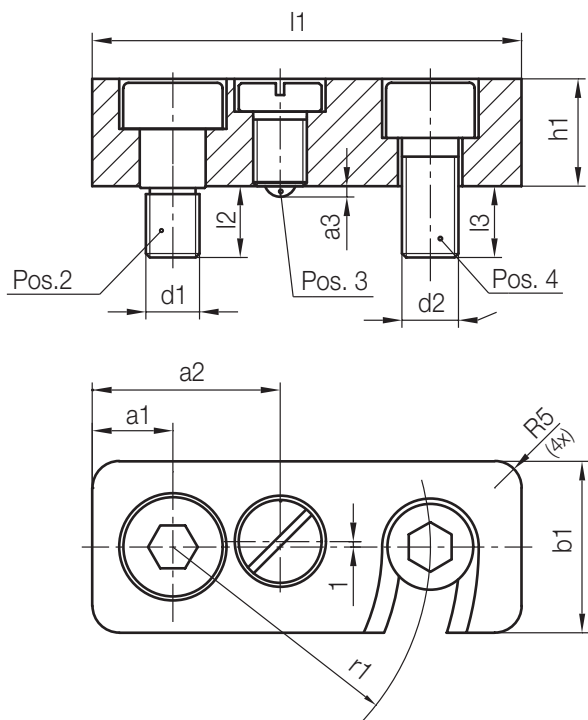
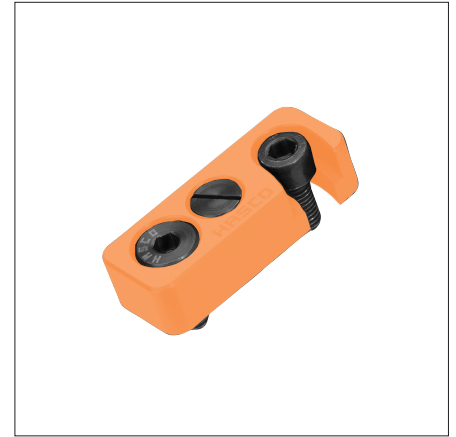
Umfangreiches Z710/... Programm siehe Z-Katalog, Bereich 2.
Refer to the Z-catalogue, section 2 for a comprehensive range of Z710/...
Pour une gamme complète Z710/..., voir le catalogue Z, secteur 2.

max. F1 [kg]	max. F2 [kg]	k1	h1	l1	d4	d3	d2	d1	Nr./No.
140	100	8	36	13	20	36	20	M 8	Z710/ 8
230	170	10	45	17	25	45	25	M 10	10
340	240	12	53	20,5	30	54	30	M 12	12

Z73/...

Werkzeugsicherung
 Tool safety device
 Sécurité d'outillage

Mat.: 1.2312/1080 N/mm²
 orange - pulverbeschichtet
 powder coated
 revêtement à la poudre



Umfangreiches Z73/... Programm siehe Z-Katalog, Bereich 2.
 Refer to the Z-catalogue, section 2 for a comprehensive range of Z73/...
 Pour une gamme complète Z73/..., voir le catalogue Z, secteur 2.

Pos. 4	Pos. 3	Pos. 2	r1	a3	a2	a1	l3	l2	d2	d1	h1	b1	l1	Nr./No.
Z31/ 6x14	Z36/ 5x12	Z381/ 6x 6	30	0,9	24	10	8	9	M 6	M 6	12	20	50	Z73/12x20x50





*Ermöglicher für Innovation
Enabler for innovation*



***Ich entwickle
für Ihre
Formen
von Morgen.***

- HASCO-Produktentwicklung im Haus
- Vom Prototypen zum Neuprodukt
- Hohe Innovationsfrequenz
- Innovationspartnerschaften mit Kunden
- Produktivitätssteigerung für den Formenbau

***I develop
for your
moulds of
tomorrow.***

- In-house development
- Prototype to product
- High innovation frequency
- Close partnerships with customers
- Our goal is to boost your productivity

HASCO®

Ermöglichen mit System.

A 8001/...

*Spannvorrichtung
Clamping fixture
Table de bridage*





**Präzise! Effizient!
Einfach!**

**Precise! Efficient!
Simple!**

**Précis! Efficient!
Simple!**

Die HASCO-Spannvorrichtung A 8001/... wurde zum präzisen Aufspannen und Ausrichten von HASCO K- und Auswerferplatten entwickelt.

Besondere Merkmale

- Wirtschaftliches Spannen von HASCO Systemplatten (K- und Auswerferplatten sowie Platten des Kleinserienwerkzeuges K 3600/...)
- Horizontale und vertikale Bearbeitung aller gängigen Werkzeugabmessungen problemlos möglich
- Hochpräzise Positionierung der Zentrieraufnahmen durch engste Toleranzen gewährleistet Wiederholgenauigkeiten von 10 µm
- Spreizspannen in den Systemen ermöglicht eine optimale 5-Seiten-Bearbeitung

The HASCO clamping device A 8001/... was developed for precision clamping and alignment of HASCO K-and ejector plates.

Special Features

- Cost-efficient clamping of HASCO system plates (K-plates, ejector plates as well as plates of the Small series mould K 3600/...)
- Problem-free horizontal and vertical machining of all common mould dimensions
- High-precision positioning of the location elements through very tight tolerances, ensuring a repeat accuracy of 10 µm
- Expanding collet clamping in the system holes permit optimum 5-side processing

La table de bridage A 8001/... de HASCO a été développée pour la fixation et l'orientation précises de plaques K et plaques d'éjection de HASCO.

Caractéristiques particulières

- Fixation rapide des plaques HASCO (K/..., batterie d'éjection ainsi que plaques de moule petite série type K 3600/...)
- Usinage horizontal et vertical avec tous types d'outils sans problème
- Positionnement ultra-précis par des tolérances de fabrication très serrées et répétabilité de 10 µm
- Fixation interne dans les alésages permettant des usinages de façon optimale sur les 5 faces



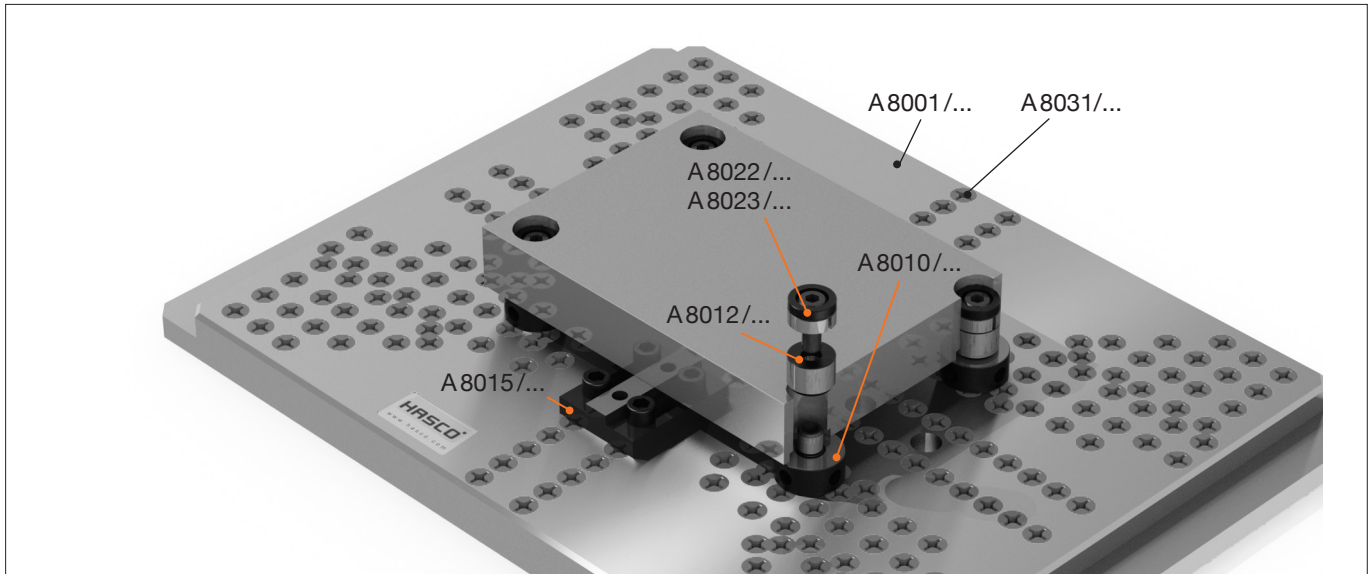
- | | | |
|--|--|--|
| <ul style="list-style-type: none"> - Mit den drei Standardgrößen der A8001/... Grundplatten können alle Werkzeugabmessungen von 156x156 bis 596x796 bearbeitet werden - Einfaches Handling durch separate Zubehör-Steckmodule sortiert nach Systemdurchmessern - Minimale Rüstzeiten durch den Einsatz farbiger Stopfen zur Kennzeichnung der Stichmaß-Position für die Systemplatten - Korrosionsbeständige A8001/... Grundplatten aus Edelstahl und DLC beschichtete Funktionselemente garantieren Verschleißminimierung und Langlebigkeit - Sonderausführungen der Grundplatten nach Kundenwunsch realisierbar | <ul style="list-style-type: none"> - With the three standard sizes of the A8001/... base plates, all tool dimensions of 156 x 156 to 596 x 796 can be processed. - Easy handling through separate accessory plug-in modules classified by system diameter - Minimal set-up times through the use of coloured plugs to mark the hole positions for the system plates - Corrosion-resistant A8001/... base plates in stainless steel and DLC-coated functional elements guarantee minimal wear and a long life - Special customised base plate versions available | <ul style="list-style-type: none"> - Avec les trois tailles standard de plaques de base A8001/..., il est possible d'usiner toutes les tailles de moule de 156x156 jusqu'à 596x796 - Manipulation aisée grâce à un support d'accessoires séparé avec tri selon les diamètres de colonnage - Temps de changement minimum grâce aux bouchons colorés permettant un repérage rapide et visuel des positions de colonnage - Plaques de base A8001/... anti-corrosion en acier haute qualité 1.2099 et revêtement DLC sur les éléments de centrage garanti un minimum d'usure et une durée de vie inégalée - Possibilité de réaliser des plaques de base sur-mesure selon le souhait du client |
|--|--|--|



Spannen mit Spreizelementen

Clamping with expansion elements

Bridage de plaques avec des éléments de serrage



Spannen von K-Platten mit Spreizelementen (A8022/..., A8023/...) in den Systembohrungen

Die Zentrieraufnahmen A8010/... werden auf die Grundplatte A8001/... mit der Montagehilfe A8037/... geschraubt.

Die Zentrieraufnahmen müssen das gleiche Stichmaß aufweisen wie die Systembohrungen der zu spannenden K-Platte (schnelle Umsetzung durch Stichmaßschablonen).

Anschließend wird die K-Platte auf die Zentrieraufnahmen gelegt und mit den Zentrierhülsen A8012/... positioniert.

Die K-Platte wird mit den Spreizelementen A8022/... oder A8023/..., abhängig des Systemdurchmessers, wiederholgenau gespannt.

Verwendung des Stützkörpers A8015/...

Zum Abstützen, speziell von größeren und dünnen Platten, empfiehlt sich der Einsatz des Stützkörpers A8015/...

Verwendung der Ausziehstange A8035/... und Ausziehverlängerung A8036/...

Das Entfernen der Zentrierhülse A8012/... aus der Systembohrung, erfolgt mit der Ausziehstange A8035/...

Für tiefere Systembohrungen empfiehlt sich der Einsatz der Ausziehverlängerung A8036/..., welche auf die Ausziehstange aufgeschraubt wird.

Clamping of K-plates with expansion elements (A8022/..., A8023/...) in the guide holes

The location elements A8010/... are screwed to the base plate A8001/..., with the assembly tool A8037/...

The location elements must have the same gauge as the system bores of the K-plate to be clamped (rapid implementation through hole spacing templates).

Then the K-plate is placed on the location elements and positioned using the centring sleeves A8012/...

The K-plate is clamped repeat accurately with the expansion elements A8022/... or A8023/..., depending on the system diameter.

Use of support element A8015/...

For support, especially of larger and thin plates, it is recommended to use the support element A8015/...

Use of the pulling bar A8035/... and extension A8036/...

The centring sleeve A8012/... is removed from the system bore with the pulling bar A8035/...

For deeper system bores it is recommended to use the extension, A8036/... which is screwed to the pulling bar.

Bridage de plaques K avec éléments de serrage (A8022/..., A8023/...) noyés dans les alésage

Les centreurs A8010/... seront vissés sur la plaque de base A8001/... avec l'outil de montage A8037/...

Les centreurs doivent présenter les mêmes cotes que les alésages de système des plaques K à visser (mise en oeuvre rapide avec jauges d'entre-axe).

Ensuite, la plaque K sera posée sur les centreurs et positionnée avec les douilles de centrage A8012/...

La plaque K sera fixée répétitivement avec les éléments de serrage A8022/... ou A8023/..., selon le diamètre du système.

Utilisation du support A8015/...

Pour soutenir, spécialement les plaques des plus importantes et fins, il est recommandé d'utiliser l'élément de support A8015/...

Utilisation de l'extracteur A8035/... et de la rallonge d'extracteur A8036/...

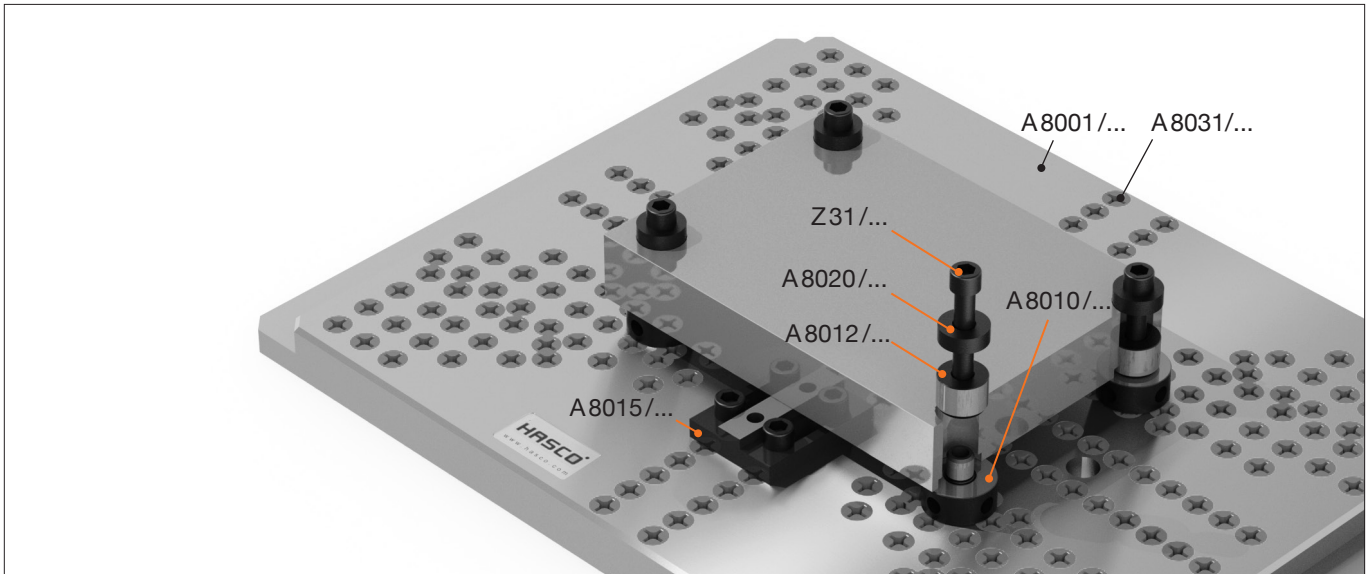
L'extracteur A8035/... sert à enlever la douille de centrage A8012/... de l'alésage de système.

Pour des alésages de système plus profonds, il est recommandé de recourir à la rallonge d'extracteur A8036/... qui sera vissée sur l'extracteur.

Spannen mit Spannscheibe

Clamping with locking washer

Fixation de plaques avec rondelle de serrage



Spannen von K-Platten mit Spannscheibe A8020/...

Die Zentrieraufnahmen A8010/... werden auf die Grundplatte A8001/... mit der Montagehilfe A8037/..., geschraubt.

Die Zentrieraufnahmen müssen das gleiche Stichmaß aufweisen, wie die Systembohrungen der zu spannenden K-Platte.

Anschließend wird die K-Platte auf die Zentrieraufnahmen gelegt und mit den Zentrierhülsen A8012/... positioniert.

Gespannt wird die K-Platte, indem die Spannscheibe A8020/... mit den Zentrieraufnahmen, über Kreuz, mit Z31/... verschraubt werden.

Die Ausdrehung der Spannscheibe A8020/... muss in Richtung der Platte zeigen.

Vorzugsweise für große Plattenstärken und/oder zum Vorschruppen.

Verwendung der Montagehilfe A8037/...

Die Montagehilfe dient zum Ein- und Ausschrauben der Zentrieraufnahme A8010/... und Distanzsäule A8011/... und zum Demontieren der Verschlussstopfen A8031/...

Clamping of K-plates with locking washer A8020/...

The location elements A8010/... are screwed to the base plate A8001/... with the assembly tool A8037/...

The location elements must have the same gauge as the system bores of the K-plate to be clamped.

Then the K-plate is placed on the location elements and positioned with the centring sleeves A8012/...

The K-plate is clamped by screwing the locking washer A8020/... to the centring holders, diagonally, with Z31/...

The recess of the locking washer must face the plate.

For preferential use with thick plates and/or for roughing.

Use of the assembly tool A8037/...

The assembly tool is used for screwing the location element A8010/... and distance element A8011/... in and out and for dismantling the sealing plugs A8031/...

Fixation de plaques K avec rondelle de serrage A8020/...

Les centreurs A8010/... seront vissés sur la plaque de base A8001/... avec l'outil de montage A8037/...

Les centreurs doivent présenter les mêmes cotes que les alésages de système des plaques K à visser.

Ensuite, la plaque K sera posée sur les centreurs et positionnée avec les douilles de centrage A8012/...

La plaque K sera fixée en vissant, de manière croisée, les rondelles de serrage A8020/... avec centreurs, avec Z31/...

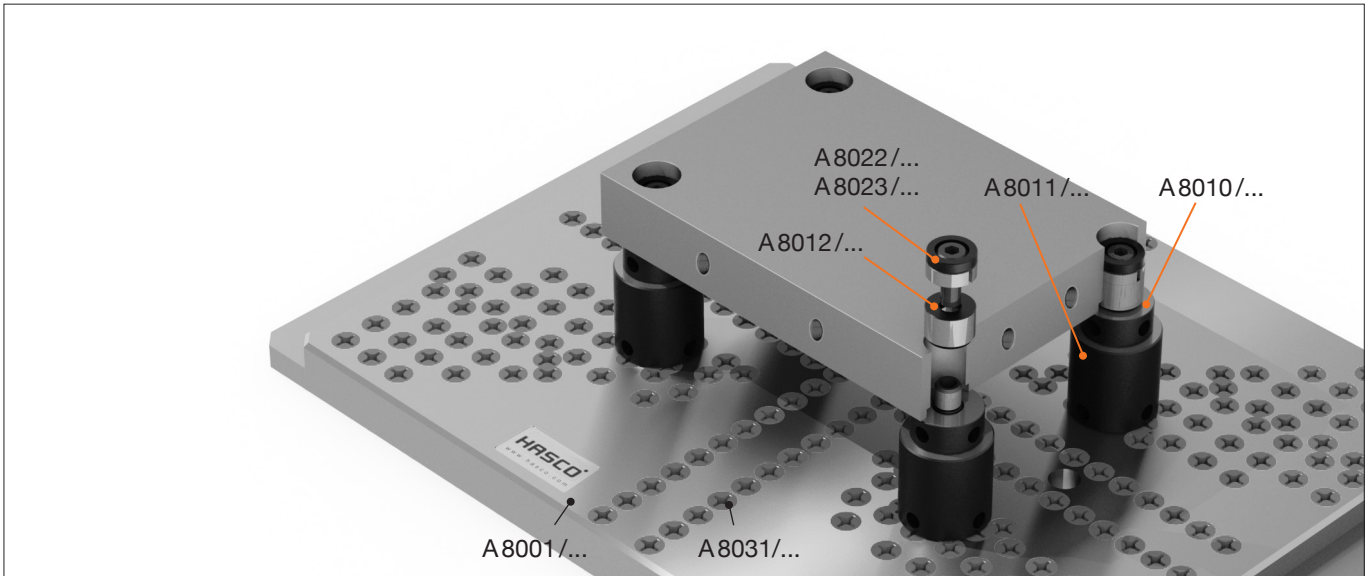
Le dévissage des rondelles de serrage doit être orienté contre la plaque.

De préférence pour les grandes épaisseurs et/ou ébauche.

Utilisation de l'outil de montage A8037/...

L'outil de montage sert au vissage et au dévissage du logement de centrage A8010/... et de l'entretoise A8011/... et pour le démontage des bouchons A8031/...





Spannen von K-Platten auch für seitliche Bearbeitungen

Auch für die seitliche Bearbeitungen empfiehlt sich der Einsatz von Distanzsäulen A8011/... Diese werden auf die Grundplatte A8001/... mit der Montagehilfe A8037/... geschraubt.

Die Distanzsäulen müssen das gleiche Stichmaß aufweisen wie die Systembohrungen der zu spannenden K-Platte.

Danach werden die Zentrieraufnahmen A8010/... auf die Distanzsäulen geschraubt.

Auf die Zentrieraufnahmen wird nun die K-Platte gelegt und mittels Zentrierhülsen A8012/... positioniert.

Die K-Platte kann nun mit den Spanscheiben A8020/... oder den Spreizelementen A8022/... oder A8023/..., abhängig des Systemdurchmessers, gespannt werden.

Verwendung der Verschlussstopfen A8031/...

Die Verschlussstopfen A8031/... werden in die Bohrungen der Grundplatte A8001/... geschraubt und verhindern das Verschmutzen während der Bearbeitung.

Zur Markierung für schnelles Positionieren empfehlen sich die farbigen Verschlussstopfen A8031/... Typ 2-6 (als Kit A8051/...).

Clamping of K-plates also for lateral processing

Also for lateral processing it is recommended to use distance columns A8011/... These are screwed one above the other to the base plate A8001/... with the assembly tool A8037/...

The distance columns must have the same gauge as the system bores of the K-plate to be clamped.

Then the location elements A8010/... are screwed to the distance columns.

The K-plate is then placed on the location elements and positioned using centring sleeves A8012/...

The K-plate can then be clamped with the locking washers A8020/... or the expansion elements A8022/... or A8023/... depending on the system diameter.

Use of the sealing plugs A8031/...

The sealing plugs A8031/... are screwed into the holes in the base plate A8001/... and prevent soiling during processing.

We recommend use of the coloured sealing plugs A8031/... type 2-6 (as kit A8051/...) to mark holes for rapid positioning.

Fixation de plaques K aussi pour usinage latéral

Aussi pour l'usinage latéral, il est recommandé d'utiliser les entretoises A8011/... Celles-ci étant vissées l'une sur l'autre sur la plaque de base A8001/... avec l'outil de montage A8037/...

Les entretoises doivent présenter les mêmes cotes que les alésages de système des plaques K à visser.

Ensuite, les centreurs A8010/... seront vissés sur les entretoises.

La plaque K sera alors posée sur les centreurs et positionnée avec les douilles de centrage A8012/...

La plaque K pourra alors être fixée avec les rondelles de serrage A8020/... ou les élément de serrage A8022/... ou A8023/..., selon le diamètre du système.

Utilisation des bouchons A8031/...

Le bouchon A8031/... sera vissé dans les orifices de la plaque de base A8001/... et empêche ainsi la pénétration d'impuretés pendant l'usinage.

Pour la visualisation et un positionnement rapide nous vous recommandons les bouchons colorés A8031/... type 2-6 (en kit A8051/...).

Spannen von HASCO K-Platten

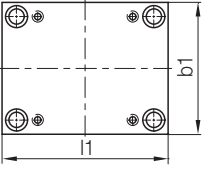
Auflistung von HASCO K-Platten, die mit der Spannvorrichtung A8001/... gespannt werden können.

Clamping of HASCO K-plates

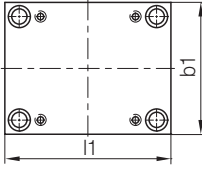
List of HASCO K-plates which can be clamped with the clamping device A8001/...

Fixation de plaques K de HASCO

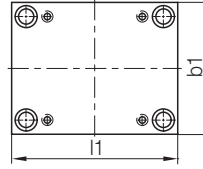
Liste des plaques K de HASCO qui peuvent être fixées avec le dispositif de fixation A8001/...



b x l	d1	A 8001/1 (366x546)	A 8001/2 (466x646)	A 8001/3 (556x846)
156 x 156	ø 20	X	X	X
156 x 196		X	X	X
156 x 246		X	X	X
156 x 296		X	X	X
156 x 346		X	X	X
190 x 246	ø 26	X	X	X
196 x 196	ø 26	X	X	X
196 x 296	ø 30	X	X	X
196 x 346		X	X	X
196 x 396		X	X	X
196 x 446		X	X	X
196 x 496		X	X	X
218 x 246	ø 26	X	X	X
218 x 296	ø 30	X	X	X
246 x 246	ø 30	X	X	X
246 x 296		X	X	X
246 x 346		X	X	X
246 x 396		X	X	X
246 x 446		X	X	X
246 x 496		X	X	X
246 x 546			X	X
246 x 596			X	X



b x l	d1	A 8001/1 (366x546)	A 8001/2 (466x646)	A 8001/3 (556x846)
296 x 296	ø 30	X	X	X
296 x 346		X	X	X
296 x 396		X	X	X
296 x 446		X	X	X
296 x 496		X	X	X
296 x 546			X	X
296 x 596			X	X
296 x 646	ø 42			X
296 x 696				X
346 x 346	ø 30	X	X	X
346 x 396	ø 42	X	X	X
346 x 446		X	X	X
346 x 496		X	X	X
346 x 546			X	X
346 x 596			X	X
346 x 646				X
346 x 696				X
346 x 796				X
396 x 396	ø 42	X	X	X
396 x 446		X	X	X
396 x 496		X	X	X
396 x 546			X	X
396 x 596			X	X
396 x 646				X
396 x 696				X
396 x 796				X



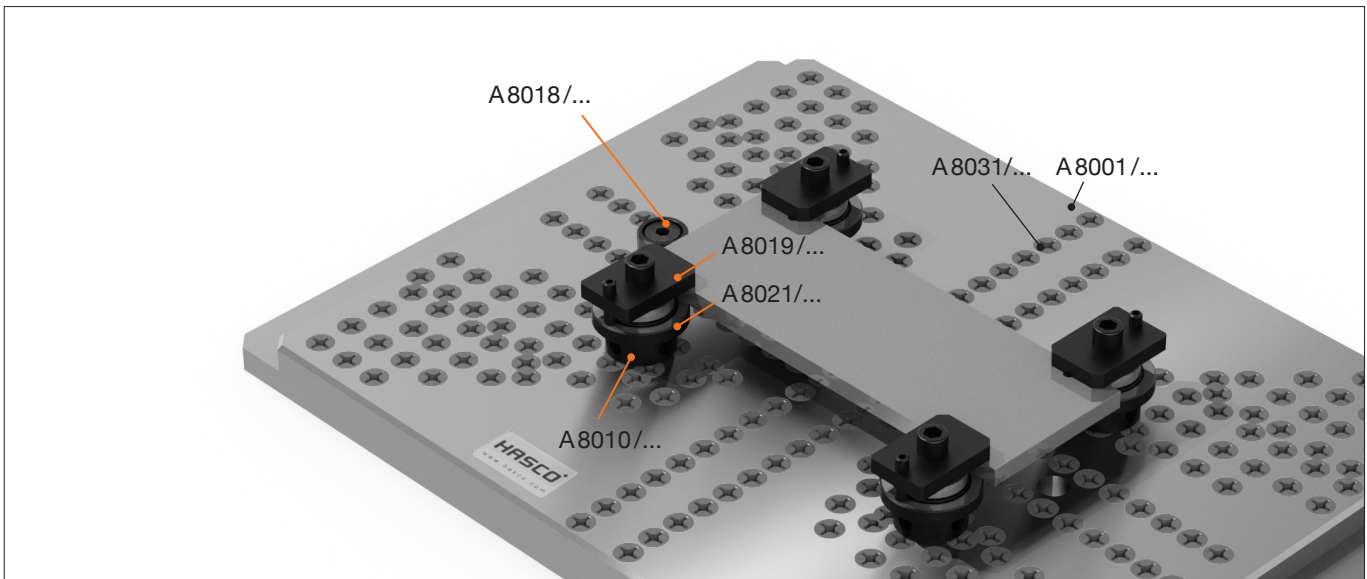
b x l	d1	A 8001/1 (366x546)	A 8001/2 (466x646)	A 8001/3 (556x846)
446 x 446	ø 42		X	X
446 x 496			X	X
446 x 546			X	X
446 x 596			X	X
446 x 646				X
446 x 696				X
446 x 796				X
496 x 496	ø 42		X	X
496 x 546			X	X
496 x 596			X	X
496 x 646				X
496 x 696				X
496 x 796	ø 54			X
546 x 546	ø 42			X
546 x 596				X
546 x 646				X
546 x 696				X
546 x 796	ø 54			X
596 x 596	ø 42			X
596 x 646	ø 54			X
596 x 696				X
596 x 796				X

Bei den markierten quadratischen Plattengrößen ist eine Aufspannung auch um 90° verdreht möglich.

The square plate sizes that are marked can also be rotated through 90° and clamped.

Les plaques rectangulaires repérées peuvent également être positionnées à 90°.





**Spannen von HASCO
Auswerferplatten K60 und K70**

Problemloses Spannen von
Auswerferplatten.

Die Zentrieraufnahmen A8010/... sind durch vorherige K-Spannung mit entsprechender Formgröße positioniert. Es werden auf einer Seite zwei Auflageteller A8021/... als Anschlag und Auflage verwendet.

Durch die Positionierung mit einem Anschlagelement A8018/... wird eine 3-Punkt Anlage realisiert. Auf der gegenüberliegenden Seite kommen zwei A8021/... mit kleinerem Durchmesser (mit Markierung) als Auflage zum Einsatz.

Zum Spannen der Auswerferplatte werden vier Spanneisen A8019/... mit Z31/... verwendet.

**Clamping of HASCO
ejector plates K60 and K70**

Problem-free clamping of ejector plates.

The locating elements A8010/... are positioned by the previous K clamping with corresponding mould size. Two support plates A8021/... are used as a limit stop and support on one side.

A 3-point system is realised by positioning stop device A8018/...

Two A8021/... with a smaller diameter (with marking) than the support are used on the opposite side.

For tensioning the ejector plate, four clamps A8019/... with Z31/... are used.

**Bridage de plaques batterie
type K60, K70 de HASCO**

Fixation facile de plaques d'éjection.

Les centreurs A8010/... sont positionnées avec la taille de moules adéquate grâce à la fixation K précédent. Deux A8021/... sont utilisées d'un côté comme butée et appui.

Un système à 3 points est réalisé grâce au positionnement de l'A8018/...

Du côté opposé, deux entretoises support A8021/... d'un diamètre inférieur (avec marquage) sont utilisées avec comme appui.

Pour la fixation de la plaque d'éjection, quatre brides de fixation A8019/... sont serrées avec Z31/...

Spannen von HASCO Auswerferplatten K60 und K70

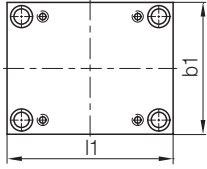
Auflistung von HASCO Auswerferplatten, welche mit der Spannvorrichtung A8001/... gespannt werden können.

Clamping of HASCO ejector plates K60 and K70

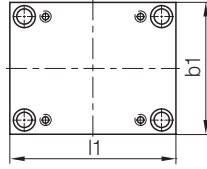
List of HASCO ejector plates which can be clamped with the clamping device A8001/...

Fixation des plaques d'éjection de HASCO K60 et K70

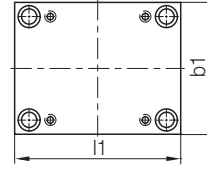
Liste des plaques d'éjection de HASCO qui peuvent être fixées avec le dispositif de fixation A8001/...



b x l	d1	A8001/1 (366x546)	A8001/2 (466x646)	A8001/3 (556x846)
156 x 156	ø20	X	X	X
156 x 196		X	X	X
156 x 246		X	X	X
156 x 296		X	X	X
156 x 346		X	X	X
190 x 246	ø26	X	X	X
196 x 196	ø26	X	X	X
196 x 296	ø30	X	X	X
196 x 346		X	X	X
196 x 396		X	X	X
196 x 446		X	X	X
196 x 496		X	X	X
218 x 246	ø26	X	X	X
218 x 296	ø30	X	X	X
246 x 246	ø30	X	X	X
246 x 296		X	X	X
246 x 346		X	X	X
246 x 396		X	X	X
246 x 446		X	X	X
246 x 496		X	X	X
246 x 546			X	X
246 x 596			X	X



b x l	d1	A8001/1 (366x546)	A8001/2 (466x646)	A8001/3 (556x846)
296 x 296	ø30	X	X	X
296 x 346		X	X	X
296 x 396		X	X	X
296 x 446		X	X	X
296 x 496		X	X	X
296 x 546			X	X
296 x 596			X	X
296 x 646	ø42			X
296 x 696				X
346 x 346	ø30	X	X	X
346 x 396	ø42	X	X	X
346 x 446		X	X	X
346 x 496		X	X	X
346 x 546			X	X
346 x 596			X	X
346 x 646				X
346 x 696				X
346 x 796				X
396 x 396	ø42	X	X	X
396 x 446		X	X	X
396 x 496		X	X	X
396 x 546			X	X
396 x 596			X	X
396 x 646				X
396 x 696				X
396 x 796				X



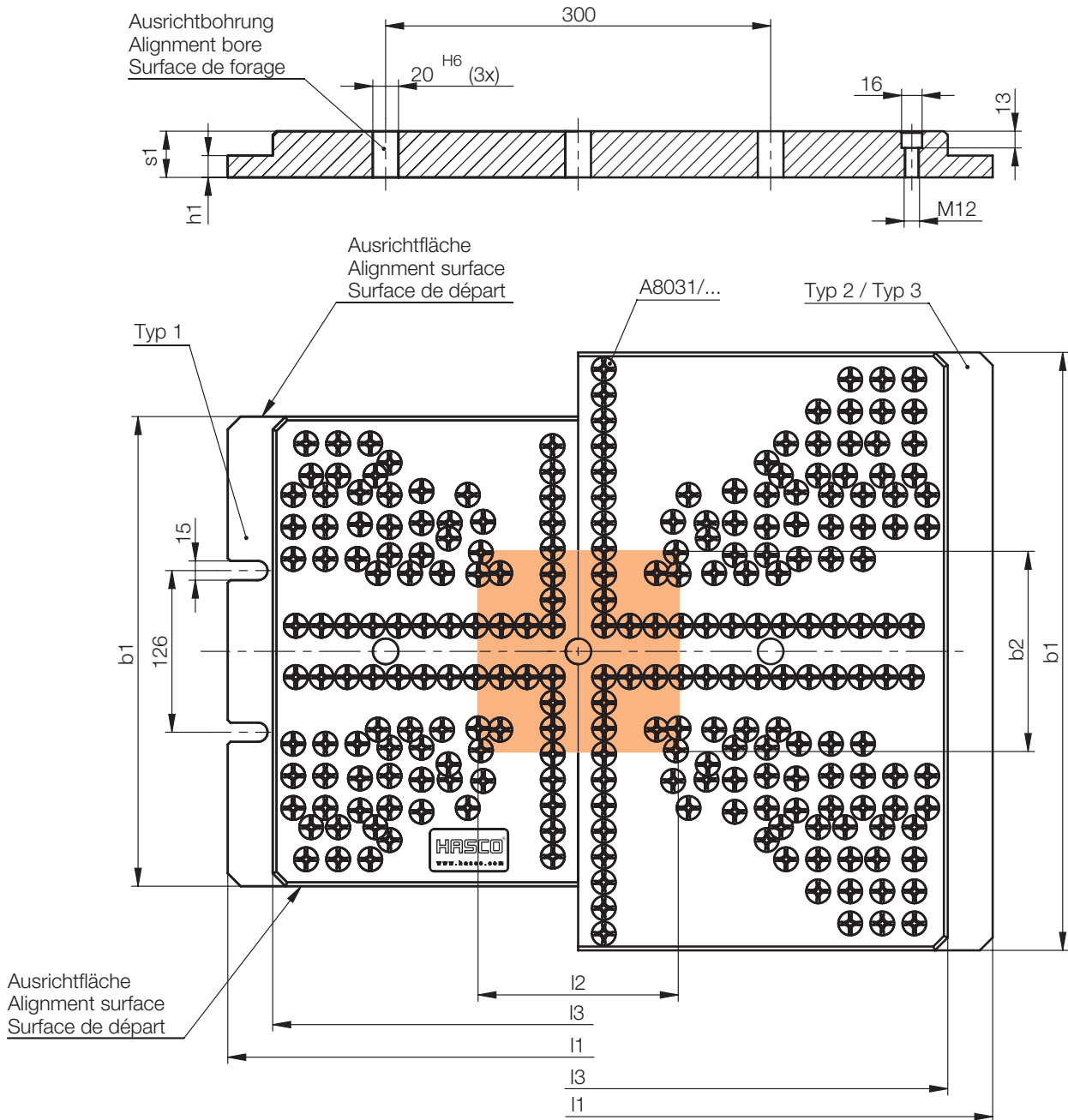
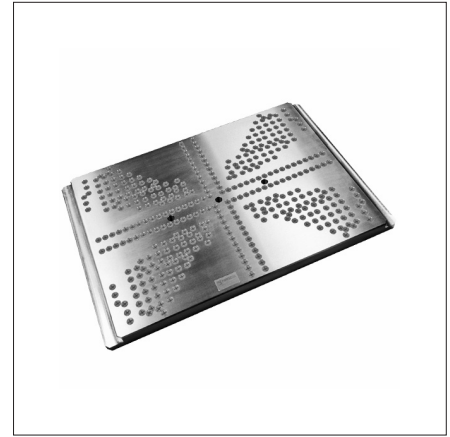
b x l	d1	A8001/1 (366x546)	A8001/2 (466x646)	A8001/3 (556x846)
446 x 446	ø42		X	X
446 x 496			X	X
446 x 546			X	X
446 x 596			X	X
446 x 646				X
446 x 696				X
446 x 796				X
496 x 496	ø42		X	X
496 x 546			X	X
496 x 596			X	X
496 x 646				X
496 x 696				X
496 x 796	ø54			X
546 x 546	ø42			X
546 x 596				X
546 x 646				X
546 x 696				X
546 x 796	ø54			X
596 x 596	ø42			X
596 x 646	ø54			X
596 x 696				X
596 x 796				X



A 8001/...

Grundplatte
Base plate
Plaque de base

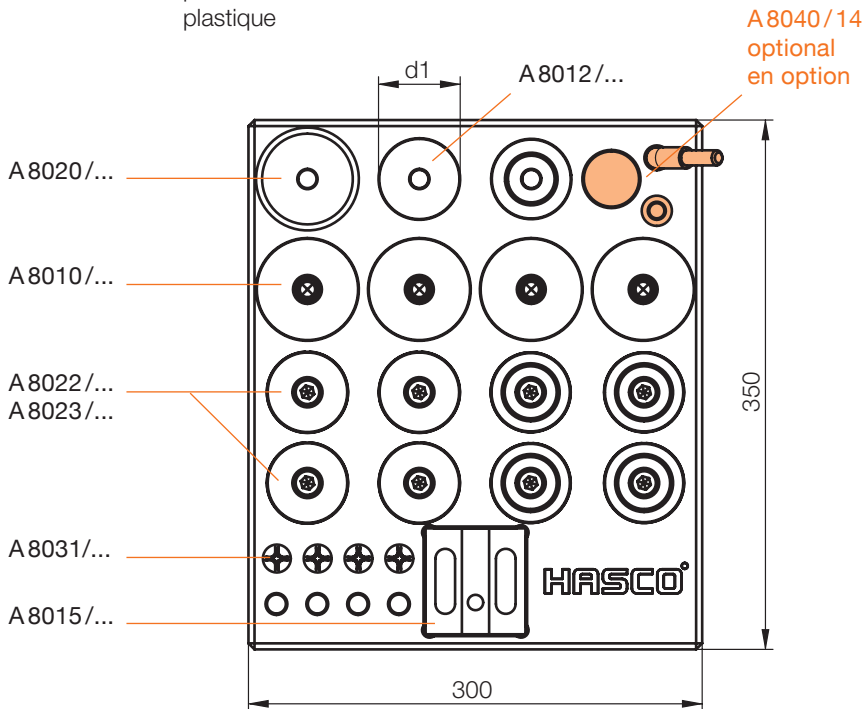
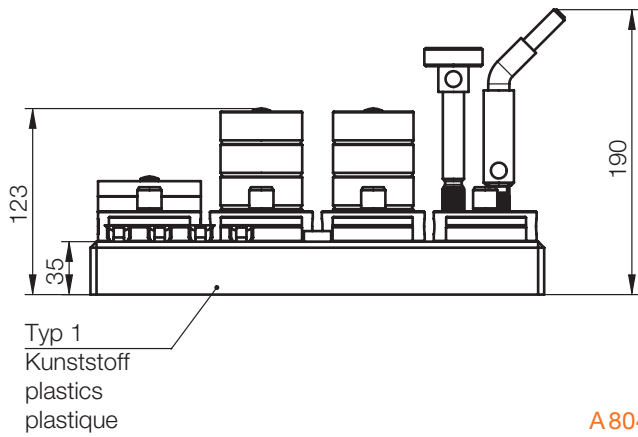
Mat.: 1.2099 HASCO.M/1060 N/mm²



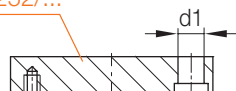
h1	s1	min.	max.	b1	l3	min.	max.	l1	Typ	Nr./No.
17	36	156	396	366	476	156	496	546	1	A 8001 / 1
			496	466	576		596	646	2	2
23	46	156	596	556	776	156	796	846	3	3

A 8005 / 1 ...

Steckmodul, bestückt
 Plug-in module, fitted
 Module plug-in, monté



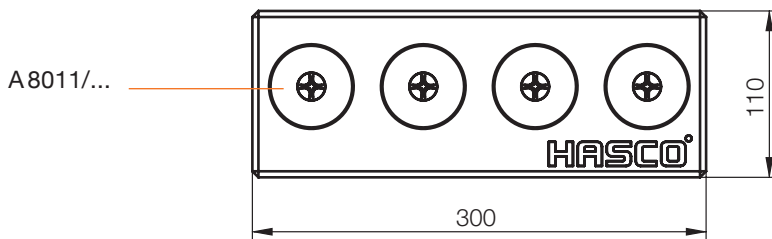
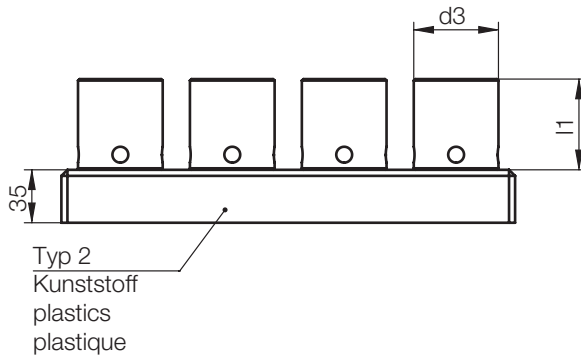
z.B. / e.g. / p. ex.
 K 20/...
 K 252/...



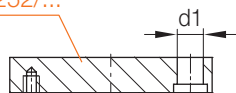
Ø d1	Typ 1 Modul module	Typ 2 Bestückung assembly équipement	Nr./No.
20	1	1	A 8005 / 1 x 1
26		2	2
30		3	3
42		4	4
54		5	5

A 8005 / 2...

Steckmodul, bestückt
 Plug-in module, fitted
 Module plug-in, monté



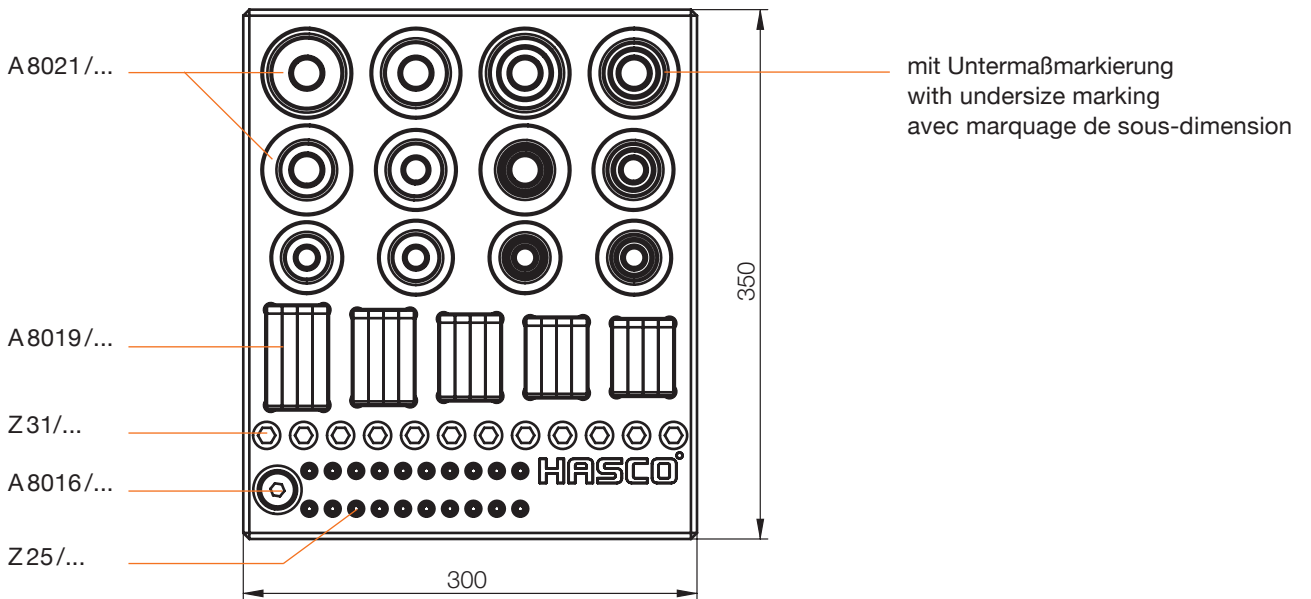
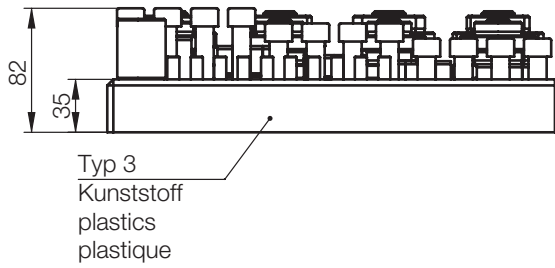
z.B. / e.g. / p. ex.
 K 20/...
 K 252/...



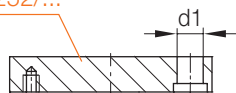
Ø d1	d3	l1	Typ 1 Modul module	Typ 2 Bestückung assembly équipement	Nr./No.			
20	56	60	2	1	A 8005 / 2 x 1			
26								
30								
42								
20	56	90		2	2	A 8005 / 2 x 2		
26								
30								
42								
54	68	60	3		3	A 8005 / 2 x 3		
		90						
54		68			60	4	4	A 8005 / 2 x 4
					90			

A 8005 / 3...

Steckmodul, bestückt
 Plug-in module, fitted
 Module plug-in, monté



z.B. / e.g. / p. ex.
 K 20/...
 K 252/...

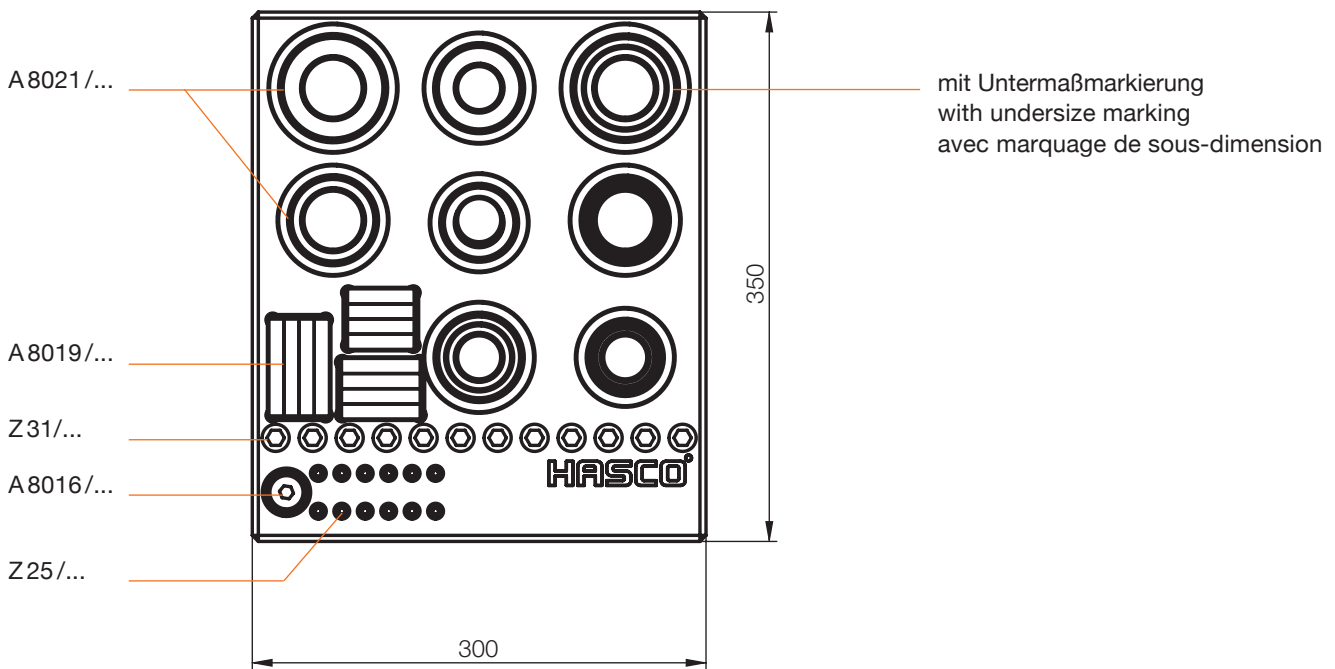
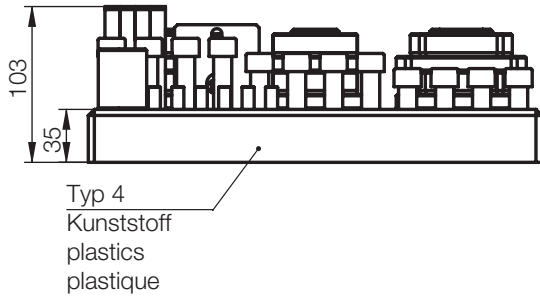
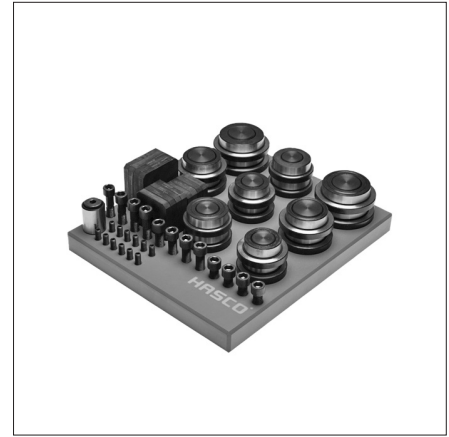


Ø d1	Typ 1 Modul module	Typ 2 Bestückung assembly équipement	Nr./No.
20	3	1	A 8005 / 3 x 1
26			
30			

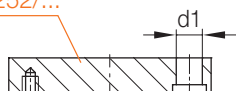


A 8005 / 4...

Steckmodul, bestückt
 Plug-in module, fitted
 Module plug-in, monté



z.B. / e.g. / p. ex.
 K 20/...
 K 252/...

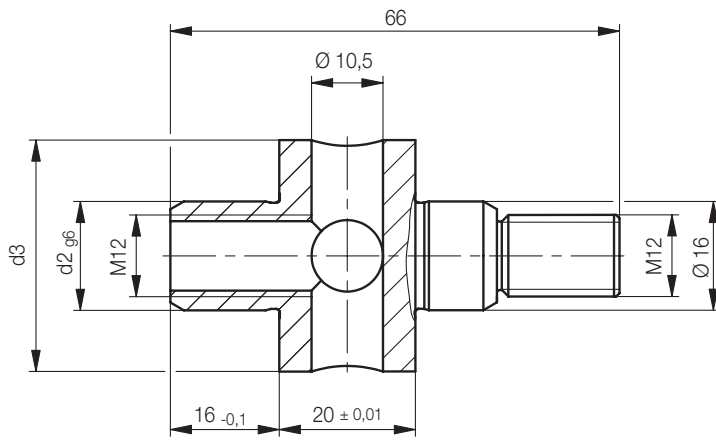


Ø d1	Typ 1 Modul module module	Typ 2 Bestückung assembly équipement	Nr./No.
42	4	1	A 8005 / 4 x 1
54			

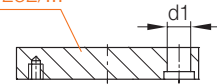
A8010/...

Zentrieraufnahme
Locating element
Centreur

Mat.: 1.7131/58 ± 2 HRC



z.B. / e.g. / p. ex.
K 20/...
K 252/...

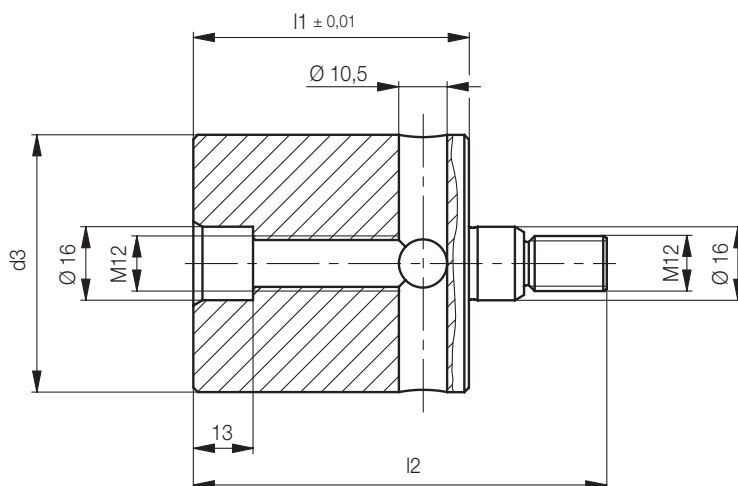


d2	K252	K20	d3	Nr./No.
	ø d1	Ø d1		
16	19,6	20	34	A 8005/20x34
18	25,5	26	40	26x40
22	29,4	30	44	30x44
32	41,3	42	56	42x56
42	53,2	54	68	54x68

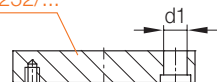
A8011/...

Distanzsäule
Distance column
Entretoise

Mat.: 1.7131/58 ± 2 HRC



z.B. / e.g. / p. ex.
K 20/...
K 252/...



l2	K252	K20	d3	l1	Nr./No.
	ø d1	Ø d1			
90	19,6	20	56	60	A 8011/56x60
	25,5	26			
	29,4	30			
	41,3	42			
120	19,6	20	56	90	A 8011/56x90

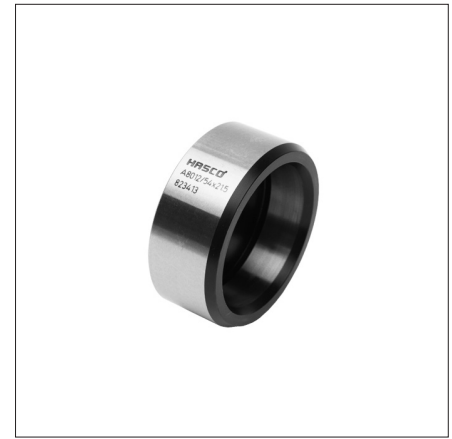
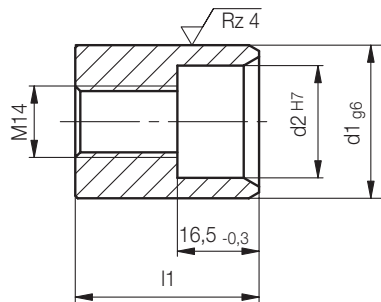
l2	K252	K20	d3	l1	Nr./No.
	ø d1	Ø d1			
120	25,5	26	56	90	A 8011/56x90
	29,4	30			
	41,3	42			
	53,2	54			
90	53,2	54	68	60	A 8011/68x60
120				90	A 8011/68x90



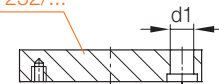
A 8012 / ...

Zentrierhülse
Centring sleeve
Douille de centrage

Mat.: 1.7131 / 58 ± 2 HRC



z.B. / e.g. / p. ex.
K 20/...
K 252/...



mit Untermaßmarkierung / with undersize marking
avec marquage de sous-dimension

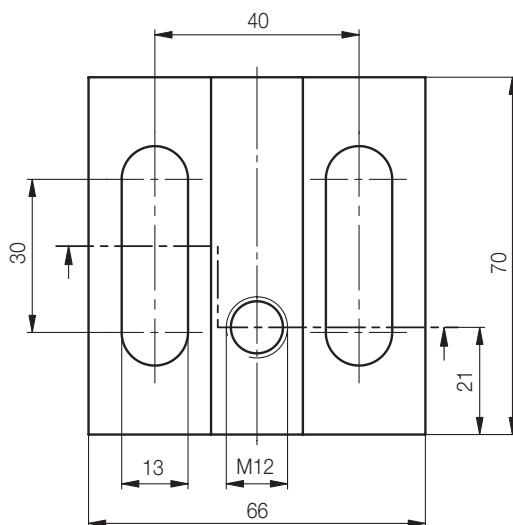
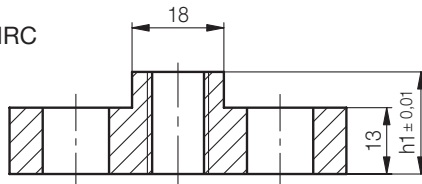
Typ	d2	d1	l1	Nr./No.
1	16	19,6	21,5	A 8012 / 19,6x21,5
		20		20
	18	25,5		25,5
		26		26
	22	29,4		29,4

Typ	d2	d1	l1	Nr./No.
1	22	30	21,5	A 8012 / 30 x21,5
		41,3		41,3
	32	42		42
		53,2		53,2
	42	54		54

A 8015 / ...

Stützkörper
Support element
Élément de support

Mat.: 1.2162 / 58 ± 2 HRC

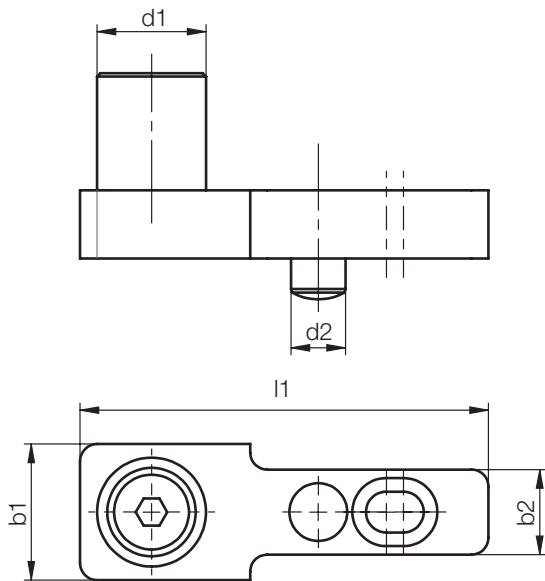


h1	Nr./No.
20	A 8015 / 20
30	30

A8018/...

Anschlagelement
Stop device
Butée

Mat.: 1.7131/58 ± 2 HRC

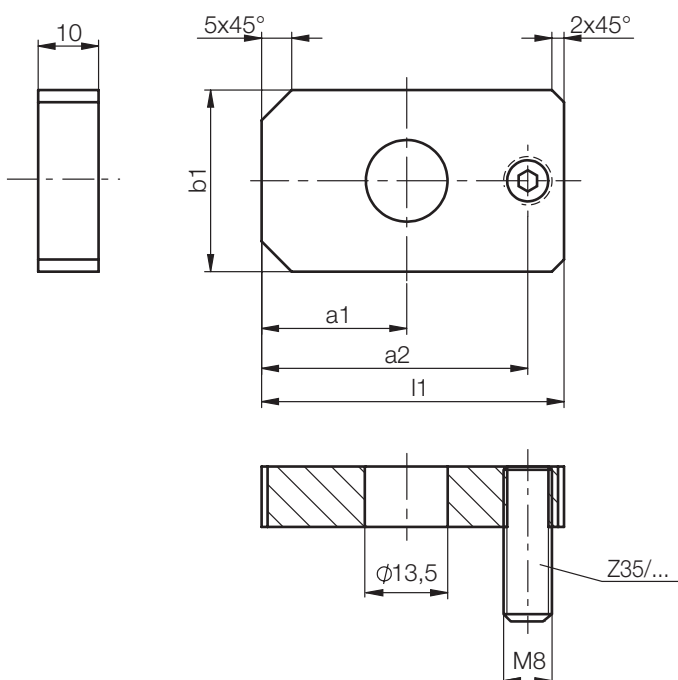


Neu/New/Nouveau

b2	b1	l1	d2	d1	Nr./No.
25	40	120	16	32	A8018/32

A8019/...

Spanneisen
Clamp
Bride de fixation



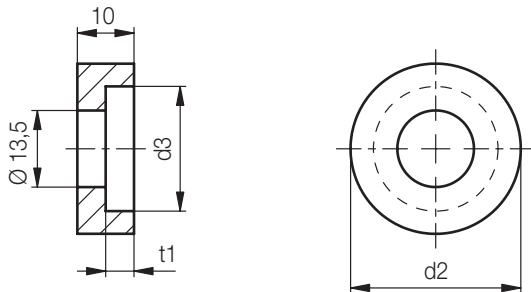
l1	a1	a2	b1	Nr./No.
50	24	44	30	A8019/30
52	25	46	32	32
56	27	50	36	36
62	30	56	42	42
68	33	62	48	48
76	37	70	56	56
88	43	82	68	68



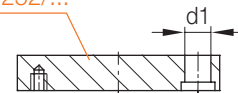
A 8020 /...

Spannscheibe
Locking washer
Rondelle de serrage

Mat.: 1.2312 / 1080 N/mm²



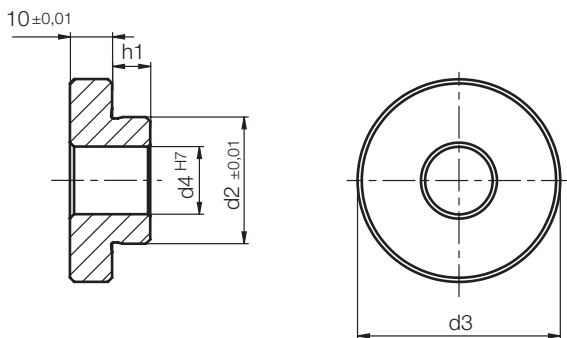
z.B. / e.g. / p. ex.
K 20/...
K 252/...



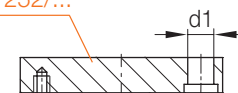
t1	d3	K 252	K 20	d2	Nr./No.
		ø d1	Ø d1		
5	22	19,6	20	30	A 8020/20 x 30
	30	25,5	26	38	26 x 38
1	36	29,4	30	44	30 x 44
	48	41,3	42	56	42 x 56
	60	53,2	54	68	54 x 68

A 8021 /...

Auflageteller
Support plate
Entretoise support



z.B. / e.g. / p. ex.
K 20/...
K 252/...



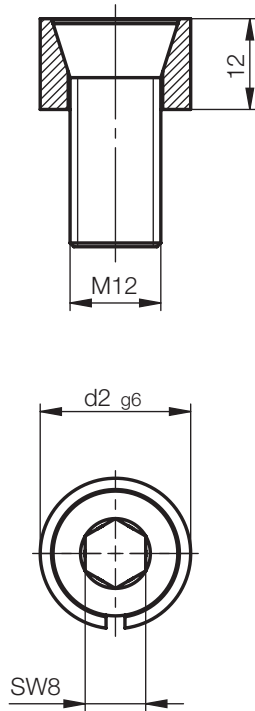
■ mit Untermaßmarkierung / with undersize marking
avec marquage de sous-dimension

h1	d4	d3	Ø d1	d2	Nr./No.
9	16	48	20	29,5	A 8021/20 x 29,5
				30	30
		50	31,5	31,5	
			32	32	
11	18	54	26	35,5	A 8021/26 x 35,5
				36	36
	22	60	30	35,5	A 8021/30 x 35,5
				36	36
			41,5	41,5	
			42	42	

h1	d4	d3	Ø d1	d2	Nr./No.
11	22	60	30	47,5	A 8021/30 x 47,5
				48	48
15	32	66	42	47,5	A 8021/42 x 47,5
				48	48
				55,5	55,5
	42	74	54	55,5	A 8021/54 x 55,5
				56	56
				67,5	67,5
		86	68	68	

A 8022 /...

Spreizelement, 2-teilig
Expansion element, 2 components
Élément de serrage, 2 pièce



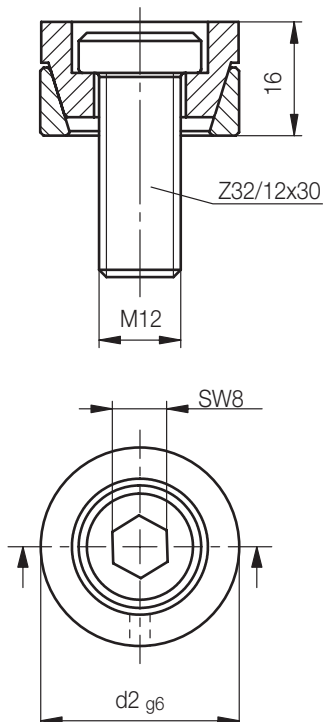
z.B. / e.g. / p. ex.
K 20/...
K 252/...



d2	Ø d1	Nr./No.
19,5	19,6	A 8022/ 19,6
19,9	20	20
25,4	25,5	25,5
25,9	26	26

A 8023 /...

Spreizelement, 3-teilig
Expansion element, 3 components
Élément de serrage, 3 pièce



z.B. / e.g. / p. ex.
K 20/...
K 252/...



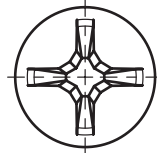
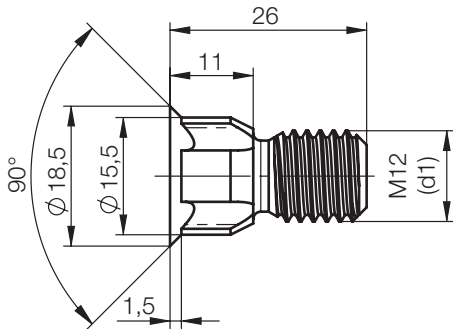
d2	Ø d1	Nr./No.
29,3	29,4	A 8023/ 29,4
29,9	30	30
41,2	41,3	41,3
41,9	42	42
53,1	53,2	53,2
53,9	54	54

mit Untermaßmarkierung / with undersize marking
avec marquage de sous-dimension

A 8031 /...

Verschlussstopfen
Sealing plug
Bouchon de fermeture

Mat.: Kunststoff/Plastic/Plastique

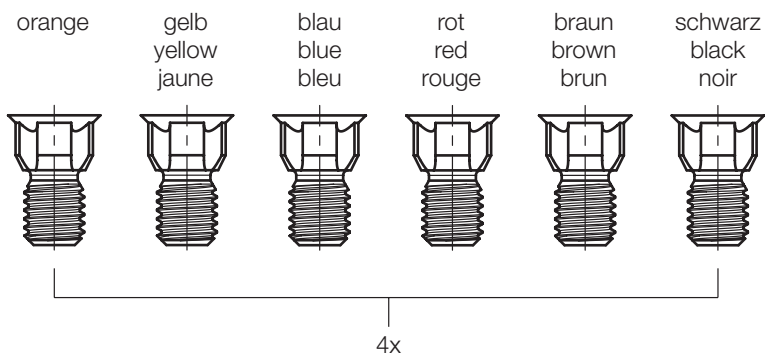


style	d1	Typ	Nr./No.
orange	12	1	A 8031 / 1
gelb/yellow/jaune		2	2
rot/red/rouge		3	3
blau/blue/bleu		4	4
braun/brown/brun		5	5
schwarz/black/noir		6	6

A 8051 /...

Verschlussstopfen Kit
Sealing plug-kit
Kit de bouchon de fermeture

Mat.: Kunststoff/Plastic/Plastique

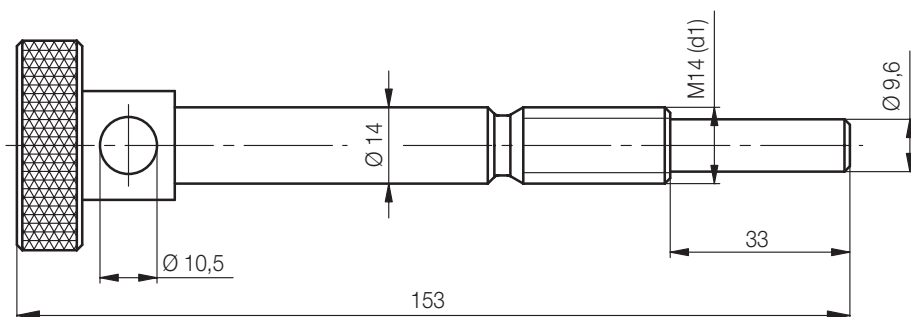


style	Stck./Pc.	Typ	Nr./No.
orange	4	1	A 8051 / 1
gelb/yellow/jaune	pro Farbe per colour par couleur		
rot/red/rouge			
blau/blue/bleu			
braun/brown/brun			
schwarz/black/noir			

A 8035 /...

Ausziehstange
Pulling bar
Extrateur

Mat.: 1.2312/1080 N/mm²

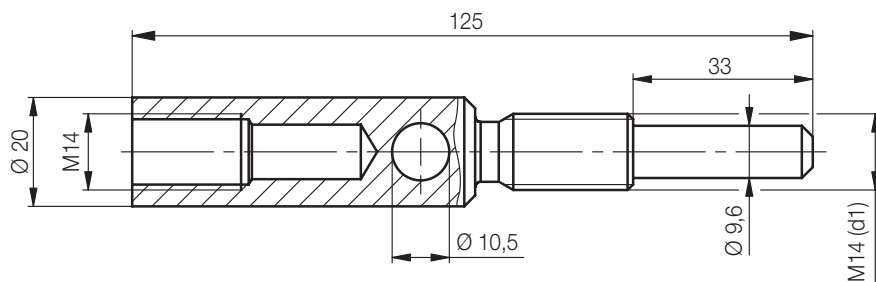


d1	Nr./No.
M 14	A 8035 / 14

A 8036 /...

Ausziehverlängerung
Extension
Rallonge

Mat.: 1.2312/1080 N/mm²



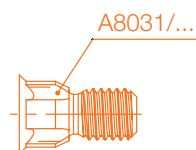
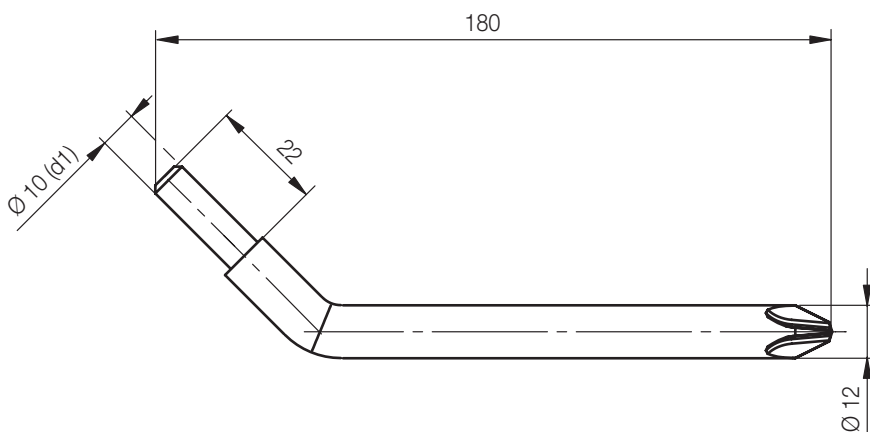
d1	Nr./No.
M 14	A 8036 / 14



A 8037 /...

Montagehilfe
Assembly tool
Outil de montage

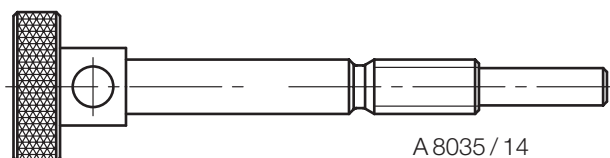
Mat.: 1.0037



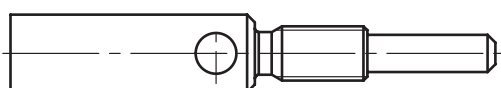
d1	Nr./No.
10	A 8037 / 10

A 8040 /...

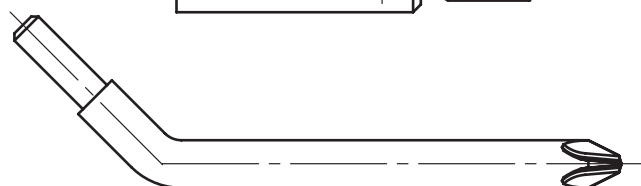
Montage-Schlüsselsatz
Assembly-kit
Outil de montage



A 8035 / 14



A 8036 / 14



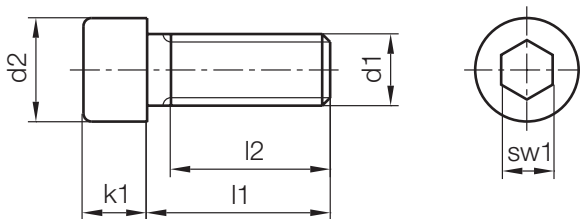
A 8037 / 14

d1	Nr./No.
14	A 8040 / 14

Z31/...

Zylinderschraube
Hexagon socket head cap screw
Vis à tête cylindrique à 6 pans creux


Mat.: 12.9 / 1000 N/mm²
DIN EN ISO 4762 (DIN 912)



sw1	d2	k1	l2	d1	l1	Nr./No.
10	18	12	6,8	M 12	12	Z31/12 x 12
			8,8		14	14
			10,8		16	16
			12,8		18	18
			14,8		20	20
			16,8		22	22
			19,8		25	25
			24,8		30	30
			29,8		35	35
			34,8		40	40
			39,8		45	45
			44,8		50	50
			36		55	55
					60	60
					65	65
					70	70
75	75					
			80	80		
			90	90		
			100	100		
			110	110		

sw1	d2	k1	l2	d1	l1	Nr./No.
10	18	12	36	M 12	120	Z31/12 x 120
					130	130
					135	135
					140	140
					145	145
					150	150
					160	160
					165	165
					170	170
					180	180
					190	190
					200	200
					220	220
					240	240
					260	260
					270	270
280	280					
300	300					
320	320					
340	340					





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	Nr./No.	Mat.-Nr./No.	Stck./Pc.
Grundplatten Base plates Plaques de base	A 8001 / 1	2049828	
	A 8001 / 2	2049829	
	A 8001 / 3	2049830	
Steckmodule Plug-in modules Modules plug-in für Systemdurchmesser for system diameter pour diamètre de colonnage Ø 20 - 54	A 8005 / 1 x 1 (Ø20)	2049831	
	A 8005 / 1 x 2 (Ø26)	2049832	
	A 8005 / 1 x 3 (Ø30)	2049833	
	A 8005 / 1 x 4 (Ø42)	2049834	
	A 8005 / 1 x 5 (Ø54)	2049835	
Steckmodule Plug-in modules Modules plug-in für /for/ pour A 8011 (Distanzsäule/Distance column/ Entretoise)	A 8005 / 2 x 1	2049836	
	A 8005 / 2 x 2	2049837	
	A 8005 / 2 x 3	2049838	
	A 8005 / 2 x 4	2049839	
Steckmodule Plug-in modules Modules plug-in für /for/ pour K 60 / K 70	A 8005 / 3 x 1	2049840	
	A 8005 / 4 x 1	2049841	
Montage-Schlüsselsatz Assembly-kit Outil de montage	A 8040 / 14	2050290	
Verschlussstopfen Kit Sealing plug-kit Kit de bouchon de fermeture	A 8051 / 1	2050291	
Stützkörper Support element Élément de support	A 8015 / 30	2008562	



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