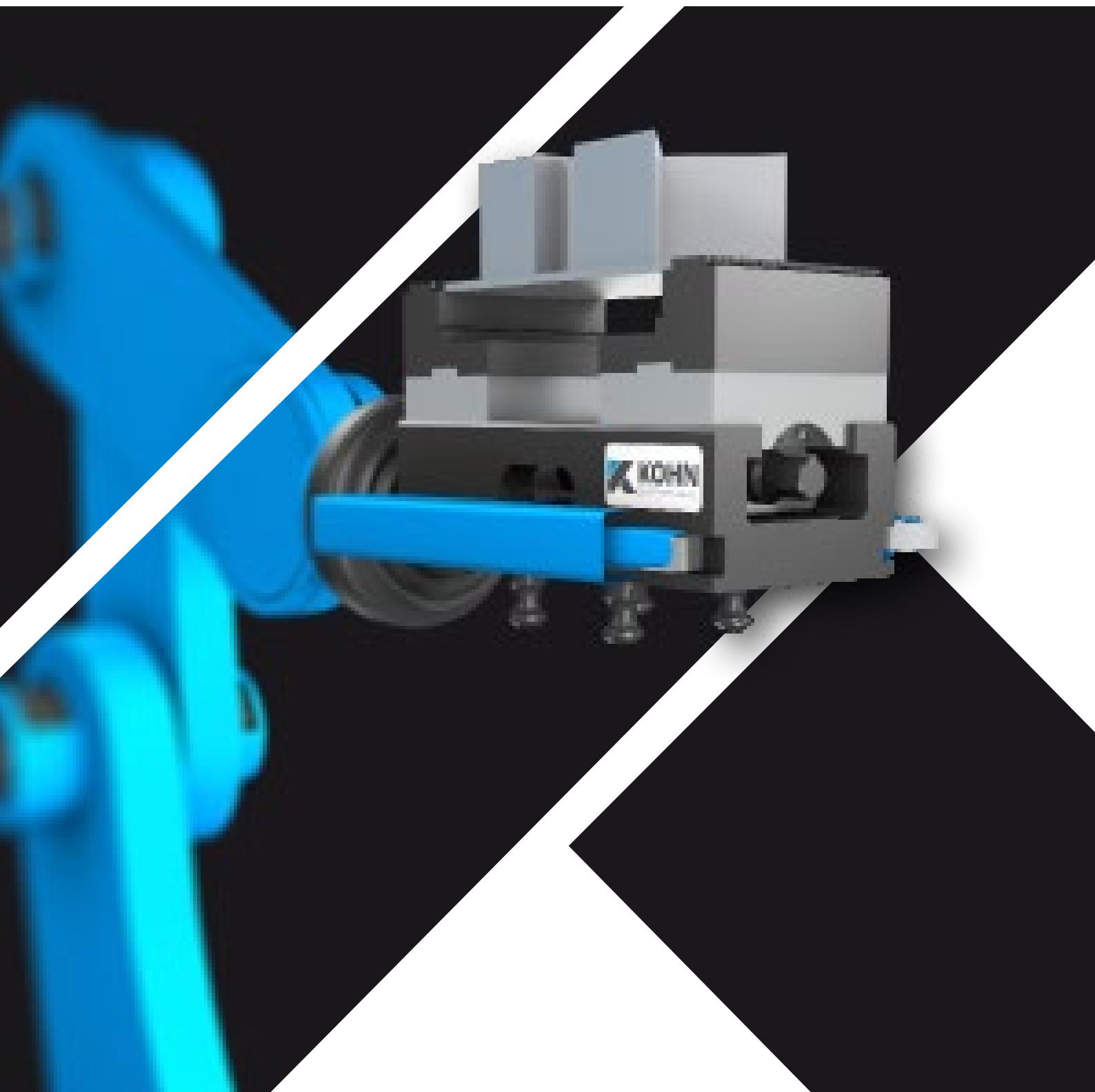




solid. connections.

Clamping and Automation Solutions
for High-End Machining



Automation, innovation,
investment – we have
the right product range to
meet your requirements.



Dear Customers,

Last year, 2022, we completely redesigned and clearly structured our catalogue. The response from our customers was entirely positive. Now the new edition of the 2018 catalogue extended by numerous new, innovative products, is available.

Our wide product range of accessories in its diversity and dimension, has been extended. It is easy to understand and clearly arranged in such a way that you can find and order the right clamping accessories for your application and/or production process.

solid. connections. Our new slogan communicates our company's and product philosophy, which has been pursued for many years. "solid" is part of our product aspiration to con-

sistently deliver the highest quality, precision and associated longevity, coupled with maximum efficiency. Sound advice and excellent quality as well as fast availability and fair prices are the basic pillars of our customer-oriented thinking.

Our "connections" is a priority for us. We see our products as the key link between machine and workpiece. At the same time, in the age of on-line thinking, we continue to be the contact partner, solution provider and innovation motivator for our customers in the machining industry.
Feel free to contact us, we are the experts with decades of experience and also have the right answer to your clamping task.



Heike Kohn
Managing Director

Legal notice

The content of this catalogue was compiled with the utmost care and all data contained herein have been checked for correctness. By publishing this catalogue all previous versions hereof become invalid. However, we assume no liability for incorrect or incomplete information. Subject to changes due to continuous improvements of the product range. The Terms and Conditions of Sale and Delivery (GTC) referred to on our website shall apply to deliveries and other services in commercial transactions.

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Design & Implementation

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About us

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Expertise and experience

Founded over 70 years ago, KOHN Spannwerkzeuge stands for the highest quality and precision in the development and production of machine vices. We cover the entire process chain. Whether consulting services, the development, manufacture and installation to customer support services, we will always be happy to support our customers to the best of our abilities.



Innovation and structure

Our team-oriented corporate structure integrates development, manufacturing, marketing and sales to the highest degree. Innovations and new products are created in close cooperation with our customers.

!?

Standard and special accessories

Our extensive standard range offers a wide range of clamping solutions to our customers in the areas of mechanical clamping, mechanical-hydraulic clamping and fully hydraulic clamping. We are also known as a specialist in customer-specific solutions in the market. We see ourselves as problem solvers. Our products are characterized by a long service life and precision with a fine price-performance ratio.



Our objective

We always want to remind ourselves of the art to listen to what our customer wants. We see this as the main condition for satisfied customers. We want to inspire our customers with team spirit, motivation and joy. The best advice, top quality, custom solutions and last not least, fast and reliable after-sales service are the focal point of our efforts. Long-term partnership with our customers and suppliers. Satisfied and motivated employees. In this respect, the person should always play a key role.

this is what the KOHN team stands for.



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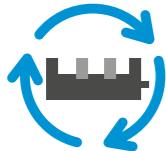
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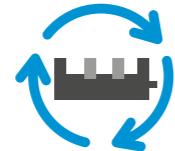
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Das maßgeschneiderte KOHN-Konzept: Mieten | Tauschen | Grundüberholung



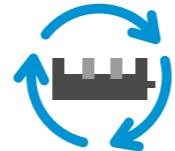
MIETSERVICE

Sie haben einen **einmaligen Job** und möchten Ihre **Grund- und Rüstkosten so gering wie möglich** halten? Dann ist **unser Mietservice genau die richtige Alternative**: Sie bestimmen die Mietdauer und können diese auch beliebig verlängern. Sie möchten nach der Mietdauer unser Produkt behalten? **Kein Problem, die Mietkosten rechnen wir Ihnen auf den Kaufpreis an.** Wir freuen uns auf Ihre Anfrage.



TAUSCHPRÄMIE

Sie arbeiten bereits mit unseren Produkten und stellen fest, dass Sie Ihre Spannaufgaben mit anderen KOHN-Produkten noch verbessern können? **Dann tauschen Sie doch einfach Ihren alten KOHN-Spannstock gegen einen Neuen ein.** Unser Aussendienst kann Ihnen hierzu ein **attraktives Angebot** machen.



GRUNDÜBERHOLUNG

Ihr KOHN-Spannstock hat schon einige Jahre auf dem „Buckel“? Sie möchten sicher gehen, dass Zentriergenauigkeit und Wiederholgenauigkeit auf akutellem Stand sind? Dann lassen Sie Ihre KOHN-Spannstöcke bei uns überholen. **Ausgestattet mit neuen Ersatzteilen und voller Funktionsprüfung erhalten Sie einen Spannstock in Neuwert-Präzision**, der für viele weitere Maschinenstunden gut ist. Kontaktieren Sie uns, wir machen Ihnen ein fairenes Angebot.

Training provided: By professionals, for professionals

What does the right clamping mean? How do I handle steel, aluminium or plastic? What forces affect the blank during clamping and cutting? What tools and tricks are there for difficult clamping tasks and how do I achieve the best repetition accuracy? Many questions about clamping are discussed and solved in our workshops. Do you want to learn more? Then you should definitely visit us in the beautiful town of Rudersberg. Just call us and make an appointment.



Customer references

Our customers range from small businesses in trade and industry leading up to Germany's leading large enterprises, as well as machinery manufacturers and dealers in Germany and abroad.

For us, the only manufacturer in the field of centring vices is: the KOHN company! Why? We feel that your product is versatile and particularly stable. Moreover, ZSS 125 is characterised by easy handling and what is especially important, its high repeatability is really impressive.

**Hans Hellbeck Maschinenbau –
Horst Hellbeck, Company Owner**



- 1.) Clamping means/ tools are of super quality
- 2.) Delivery times are met
- 3.) Super service in the repair shop, including fair dealing policy
- 4.) Price-performance ratio is fine, individual arrangements with regard to terms and conditions is always possible

**Mauersberger & Fritzsche GmbH & Co. KG –
Pierre Neitsch, Head of Purchasing**



The documents and website are clearly arranged, the service is fast and uncomplicated, the cooperation is always pleasant. We have no problems with the open spindle. We flush the chips through the side holes by means of cooling water.

**Promet AG –
Simon Fässler, Productions Manger &
Evelyne Kruger, Assistant Manager**



In our daily processing of thermosetting fibre-glass reinforced plastics, we use your mechanical centring vice ZSS 80/200 M with internal spindle bearing and this is absolutely reliable and low-maintenance. The open spindle system does not cause any problems and makes chips and dust easy to remove.

HZ Gmbh – Matthias Zeder, Managing Director



Above all, we value the possibility of individually adapting machine vices to different working environments. The NCS design allows easy removal of chips and thus also a fast change of the workpiece.

**Werkzeugbau LEISS GmbH –
Georg Hörning, Production Manager**



We have used the KOHN centring vice ZSS 80/200 as well as several NCS-ZA125 M-HD for many years and are extremely satisfied. The KOHN booth is always a pleasant place to visit and assess novelties with a cup of coffee.

Robolution GmbH – Stefan Seipel, CNC Operations Manager



Our company Metall + Plastic has been a customer of KOHN for over 15 years and utilises 22 vices with the utmost satisfaction.

**METALL + PLASTIC GmbH –
Sassa Hlavacek, Documentation**



For several years now, we have equipped our machining centres with KOHN hydraulic vices, as their reliability and durability is a guarantee for trouble-free production. In the service sector, we can rely on a short response time and professional consultation and/or fast turnaround.

**Schleicher-Laller GmbH –
Rupert Laller, Managing Director**

Schleicher-Laller
► CNC Dreh- und Frästechnik
WINNENDE

I have been using KOHN vices for over 20 years. Single tensioners as well as the popular double tensioners. We had over 30 purchased vices repaired 4 times within 2-3 days. The vices provide for maximum flexibility in the clamping situation, whether mould, step, clawed, or prism jaws. If it has to be fast, you can buy it or adapt it yourself to a workpiece.
As regards the "open spindles" we never had any problems, despite high chip volume in VA and steel chips. To date, no spindle has yet to be replaced! They will last forever if handled reasonably.

**Klenk & Stiefele –
Andreas Stiefele, Managing Director**

KLENK&STIEFELE
METALLBEARBEITUNG - CNC-TECHNIK GMBH



We use KOHN NCS vices daily on all milling machines, both hydraulic and mechanical. They are very reliable and versatile.

**Hinkelmann Metall GmbH & Co. KG –
Mark Hinkelmann, Managing Director**



**Rogatti Bewegungstechnik GmbH & Co. KG –
Mike Strohmaier, Production Manager**



We have been using the "HWS" centring vices every day since 2001, and to date every vice has operated as if on the first day. The free-running spindle can be easily cleaned and greased, if necessary.

**Zeppelin Baumaschinen GmbH –
Mathias Fahrenholz, Technician**



We have opted for KOHN vices to achieve our Vision 2030 "We are the fastest plastic chipper in Europe".

**Dutec Kunststofftechnik GmbH –
Hendrik Wielens, Tool Procurement**



In our production we use the KOHN VZA cross-clamping system in various sizes. In the field of CNC special machining we specialize in the customised production of tool components. These individual pieces require a flexible clamping system. The VZA cross-clamping system reduces set-up times by up to 30%. Large workpieces can be quickly and securely fastened on the machine table by clamping on four sides. The workpieces are precisely positioned in the machine centre by means of the two centring spindles. In most cases, no probing is needed. The investment made in the VZAs has quickly paid off for us.

**Marks GmbH –
Lothar Marks, Managing Director**



KOHN has adjusted one-metre long vices "ESS-FV 160/1000 HD SV" to our machine precisely in accordance with our requirements, which allows us to make maximum use of the machine area. The precision and reliability is provided throughout the clamping range. Due to the quick adjustment of the Clamping sliders we are able to change over to different workpiece sizes in seconds. The solid jaw at the front is a luxury feature for the operator, which allows to bring workpieces to the machine quickly, comfortably and ergonomically. A complete package, including hydraulic accessories, enabled a fast connection to the machine hydraulics without additional specialist personnel.

**Walther Flender GmbH –
Christof Hanning, Production & Assembly Manager,
Member of the Executive Board**



Regarding the open spindle: Easy-to-clean, trouble-free, no chip accumulation.

**Miratec Kunststofftechnik GmbH –
Michael Hansen, Managing Director**



We use KOHN products every day and are thrilled by the longevity at a fair price. A competent partner with whom we can efficiently implement our special solutions. Excellent consulting and fast shipping of spare parts guarantee the utmost satisfaction.

**Solidtec GmbH –
Daniel Parr, Project Manager**



Was macht KOHN Spannwerkzeuge so einmalig und erfolgreich bei unseren Kunden? Einfach gesagt sind es unsere 3 Grundprinzipien:

1. QUALITÄT & LANGLEBIGKEIT

Wir wissen, dass Ihr Erfolg von unseren Spannmitteln abhängig ist. Daher fertigen wir sämtliche Spannstöcke incl. Zubehör in überdurchschnittlicher Qualität und Güte. Viele unserer Produkte sind auch nach 30 und mehr Jahren noch im Einsatz.



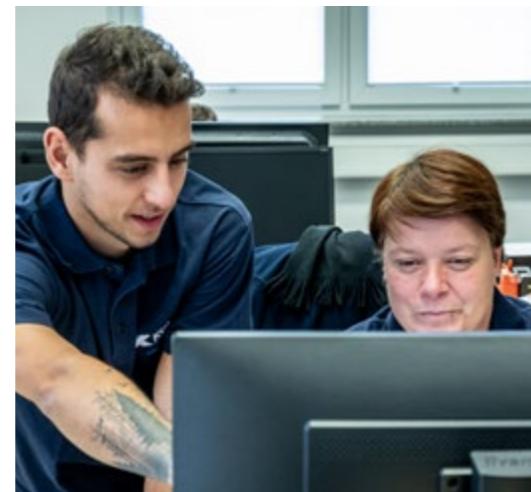
3. KOMPETENZ UND PROBLEMLÖSERQUALITÄTEN

Sie haben mit uns einen Partner an Ihrer Seite, der nicht nur verkaufen oder vermieten möchte. Unsere jahrzehntelangen Erfahrungen in der Spanntechnik geben wir gerne an die jüngere Generation weiter. Kein Meister fällt vom Himmel: Für jede Spannaufgabe – und sei sie noch so kurios oder komplex – finden wir gemeinsam immer die beste und wirtschaftlichste Lösung. Fragen Sie uns an, wir beraten Sie gerne.



2. FUNKTIONALITÄT

Wir sind kein Handelsunternehmen, wir fertigen auftragsbezogen für unsere Kunden. Daher kennen wir die meisten Anwendungsgebiete und bieten somit auch individuelle Konfigurationen an. Ein entscheidender Vorteil, wenn es um Zeit- und Materialersparnis geht.



KOHN-Automation: Spannen und Bestücken



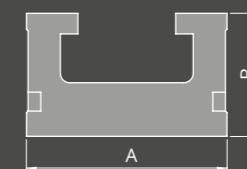
Alles aus einer Hand – produzieren von Anfang an. Als erfahrener Hersteller von hochwertigen Spannmitteln sind wir ebenfalls Ihr Partner für die komplette, automatisierte Bestückung Ihrer Maschinen. Erfolgreich Automatisieren mit dem KOHN-Full-Service: Auf Wunsch erhalten Sie alle notwendigen Komponenten und Leistungen quasi aus einer Hand:

- + KOHN-Spannstöcke inklusive Adaption auf Ihr bestehendes Nullpunkt-Spannsystem
- + Systemintegration des Roboters durch unseren Systempartner
- + Software, Testlauf und Einweisung vor Ort
- + Auf Wunsch Finanzierung durch unseren Partner GEFA-Bank

Flachbettversionen: Mehr Raum, weniger Gewicht!

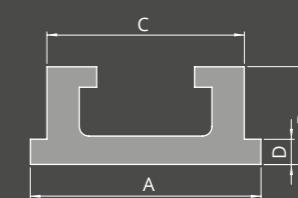
Mehr Raum in allen Dimensionen! Sie arbeiten mit Mehrfachaufspannungen am Turm oder am Würfel? Oft fehlen hier die entscheidenden Millimeter für die Realisierung Ihres Projektes, weil der Arbeitsraum nicht mehr ausreicht. Bei KOHN einzigartig: Sie erhalten bei allen Spannstöcken, die mit unserem Button „Flachbettversion“ gekennzeichnet sind, den Grundkörper in reduzierter Höhe! Und nebenbei sparen Sie bis zu 20% Gewicht. Weniger ist mehr – so geht clever Spannen!

Hohes Bett:



Größe	A	B
80	84	65
100	104	78
125	127	78

Flaches Bett:



Größe	A	B	C	D
80	98	45	80	12
100	118	52	100	14
125	146	62	125	16

The small ABC of the KOHN product range...

DSS

Double vice

Vice with two symmetrical current clamping bolts, a central jaw and a continuous spindle.

ESS

single vice

Vice equipped with one fixed jaw and a movable clamping slider with continuous spindle.

ESS-FV

"fixed jaw in front"

Fixed jaw on the operator side of the vice.

HP

Hydraulic

Hydraulic pressure build-up, hydraulic unit required, mechanical span adjustment.

M

Mechanical

Mechanical pressure build-up and span adjustment, the use of a torque wrench is recommended.

MFS

Multi-functional vice

Two individually adjustable clamping sliders, which can be moved both separately and jointly. The central jaw is fixed.

M-HD

Mechanical-hydraulic

Mechanically operated vice with mechanical-hydraulic power transmission, (no hydraulic unit required).

MFS-MK

mechanical-disk cam

Vice equipped with cam-plate locking for adjusting. One or two clamping sliders can be adjusted.

MOT

motor-driven

Span adjustment and pressure build-up powered by a hydraulic motor.

NCA

NC-vice vertical

Vice with a fixed jaw and a movable clamping slider, which can be mounted vertically on the machine table.

NCS

NC-vice

Vice equipped with one fixed jaw and a movable clamping slider. Build-up of the clamping force optionally with mechanical and hydraulic booster or purely hydraulic.

NCS-ZA

NCS-vice with tie rods

Vice equipped with one fixed jaw and a movable clamping slider and tie rod system to prevent the fixed jaw from tilting away.

UNI

universal/ all-purpose

UNI vices can be used for a wide range of purposes for clamping and workpiece automation. They are suitable for all zero point clamping systems and can be adapted by means of pallets.

VZA

Starting from the center

Workpiece is clamped with two spindles arranged crosswise in the centre of vice.

ZSS

Self-centering vice

Vice with two concentric converging clamping bolts.

False jaw

Attachable clamping element with different clamp steps on the clamping slider, fixed and central jaw.

Jaw width

Measurement for specifying the vice width and breadth of the screw in jaw.

Bed/bed length

Main body of the vice and its length.

Screw-in jaw

Clamping unit mountable on fixed, middle and clamping jaws, according to the requirements.

Clamping depth

Measures from the top screw-in jaw up to the bed surface.

Fixed jaw

A fixed jaw screwed to the bed at the width of the vice.

Grip bar

Screw-in insert, for clamping with clamping edge, with grip or smooth.

Clamping slide

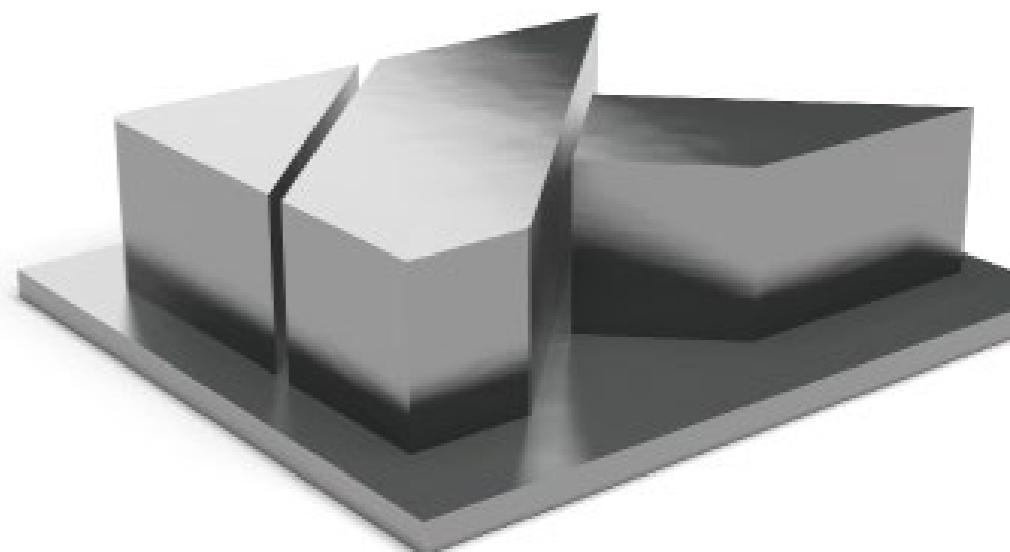
A movable element with a thread for clamping of workpieces, which jaws can be screwed in and onto.

Changeover slider

A mountable sliding jaw (without tools) for multiple clamping, that floats along the vice bed.

Important:

All dimensions in the tables are listed in mm. We reserve the right to undertake technical modifications. Depending on the series product, figures may deviate from the actual equipment. Order numbers are stated in pieces, unless specified otherwise.



Quality is our product range: What do all KOHN vices have in common?



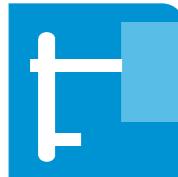
Main bodies are milled from a solid block as well as fixed and standard jaws. Hardened to 58 Rc on all sides.



The spindles consist of high-tensile special steel.



Lateral grooves for quick positioning.



Side threads for workpiece stops.



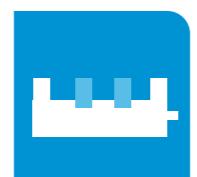
Grooves and installation thread for accommodating stepped jaw attachments and grip bars.



Bed lengths up to 1,200 mm available, other sizes available on request.



Fixed and central jaws are secured on all levels (X,Y,Z).



Fastening of workpiece materials are possible with changeover sliders. No tools required for assembly. (not possible on ZSS 65),



Always use a torque spanner for mechanical clamping. Please refer to the range of accessories on p. 137.



NCS machine vice

The clamping slider clamps against a fixed jaw or changeover sliders (multiple workpieces). Mechanical-hydraulic or hydraulic, Jaw width 125 mm, bed length with ground beds 64 mm to 1,200 mm, available with tie rods.



ESS single vice

Clamping slider clamps against fixed jaw backwards or forwards (FV). Bed lengths up to 1,200 mm possible, jaw widths 65, 80, 100, 125, 160 mm, mechanical, mechanical-hydraulic or hydraulic.



DSS double vice

Two clamping sliders clamp two sides against a fixed central jaw through a continuous spindle (mechanically), jaw widths 65, 80, 100, 125 mm, standard bed lengths up to 740 mm, upon request 1,200 mm possible.



MFS multi-functional vice

The vice can be retrofitted to a single, double or multi-functional vice quickly and flexibly. Both mechanical and hydraulic vices are available, jaw widths 80, 100, 125 and 160 mm, standard bed lengths up to 750 mm, upon request 1,200 mm possible.



ZSS self-centring vice

Two clamping sliders clamp a workpiece symmetric to the centre through a continuous spindle which can be driven mechanically, jaw width 100, 125, 160 mm, standard bed lengths up to 650 mm, upon request, bed length up to 1,200 mm is possible.



UNI all-purpose clamp for automation, clamping and palletising systems

All-purpose vices for automation solutions, suitable for all commercially available zero-point and pallet clamping systems, mechanical or hydraulic, jaw widths 65, 80, 125 mm, various bed lengths and different bed heights.



VZA cross-clamping system

Two continuous spindles clamp a workpiece through two axes to the vice centre, standard sizes 400x400, 500x500, 600x600 mm available, other sizes available on request.



Accessories & hydraulics

Clamping jaws, top jaws and down jaws in various sizes and designs, angle drives, workpiece stops, other accessories, as well as hydraulics.

from p. 15

ESS

DSS

MFS

ZSS

UNI

VZA

Accessories

The quickest way to the right accessories



Accessories
Quickfinder
you can find
starting from page

94

Our strength - your advantage! We have over 70 different jaws, changeover sliders and grip bars in the product range for your individual clamping solutions. Quickfinder shows the compatibility of the accessories with your KOHN vice.

If suitable accessories are not listed in the catalogue, please contact our clamping experts – our Technical Department will also find the right solution for your production.

Type: Machine vice

View
on-line:

NCS

System:

Accurate position clamping with a clamping slider against a fixed jaw.

Versions:

NCS 125 M-HD

Mechanical-hydraulic power transmission up to 40 kN.

NCS 125 HD

hydraulic version via external hydraulic power unit up to 35 kN.

NCA 125 M-HD/HD

Version for vertical use, direct mounting on the machine table

NCS-ZA 125 M-HD

with tie-rod system and mechanical-hydraulic power transmission up to 25 kN.

NCS is our best-seller!

Versatile and cost-efficient

Customisable

Groove and thread
for false jaws
and grip bars

Stand-alone

Flexible - suitable for every machine table, with clamping insert and tenon blocks (optional) ready to go

Optimum positioning

Traverse groove for alignment

Quick pre-configuring

Shot pin for fast pre-positioning of different workpiece sizes

Impressive advantages:

- ☒ Repeat accuracy ≤ 0.01 mm
- ☒ Fixed jaws secured on all levels (X,Y,Z)
- ☒ Vertical use directly on the machine table optionally as NCA
- ☒ Large clamping range due to stepped jaw attachments
- ☒ Basic equipment: 2 reversible screw-in jaws and 1 hand crank
- ☒ Laterally tiltable, with mounting holes for a groove of 63 mm and 100 mm (for a bed length of 470 mm – otherwise optional)

Suitable accessories
you can find
starting from
page 94

ON REQUEST:

Bed length up to
1,200 mm

Multi-clamping

Usage of changeover sliders enable more workpieces to be clamped. No tools required for assembly

Optional: Saves time

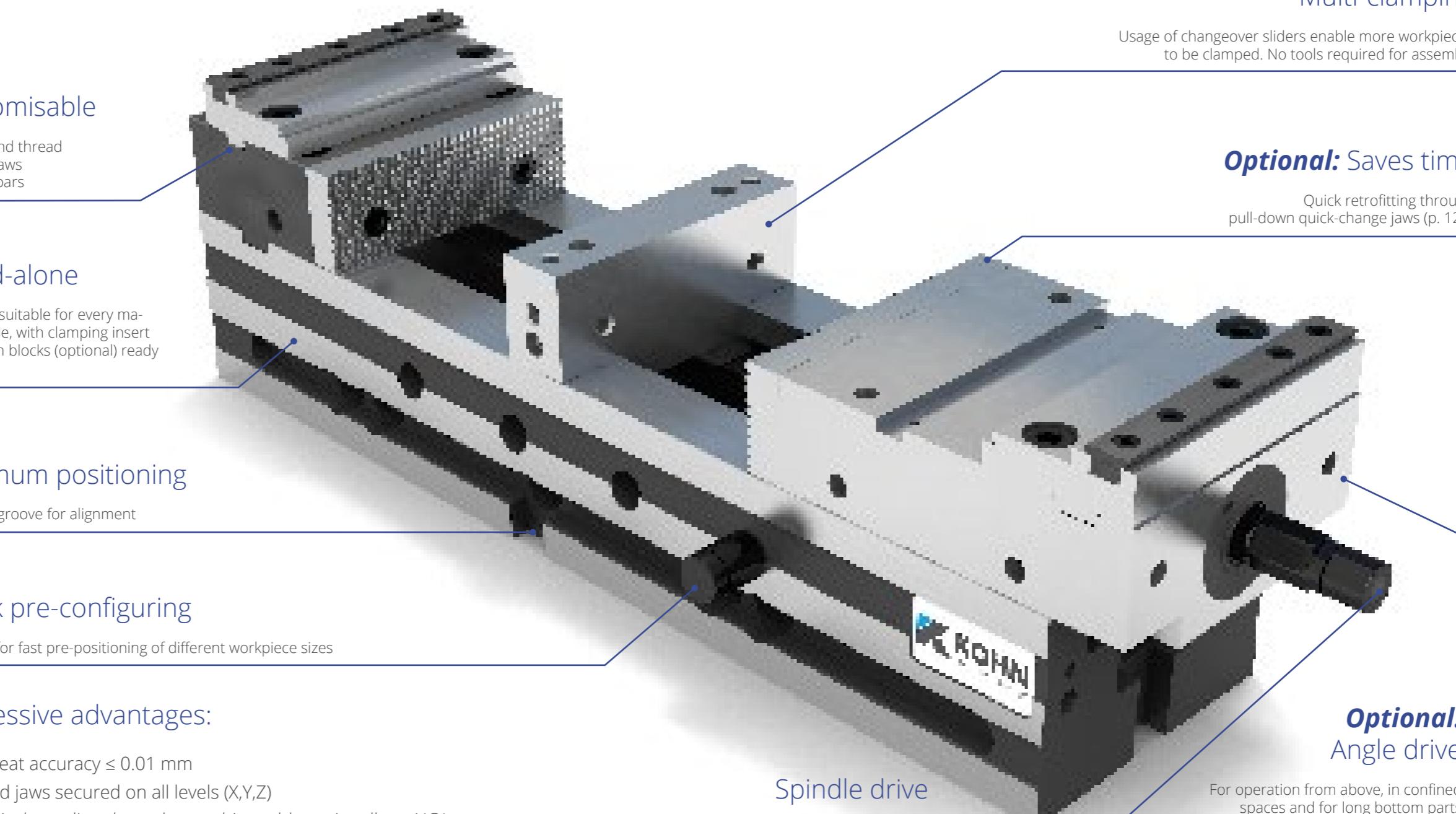
Quick retrofitting through pull-down quick-change jaws (p. 128)

Spindle drive

Optionally, mechanical-hydraulic version up to 40kN or purely mechanical clamping up to 10kN.
Pure hydraulic clamping up to 35kN by replacing the clamping slider.

Optional: Angle drive

For operation from above, in confined spaces and for long bottom parts

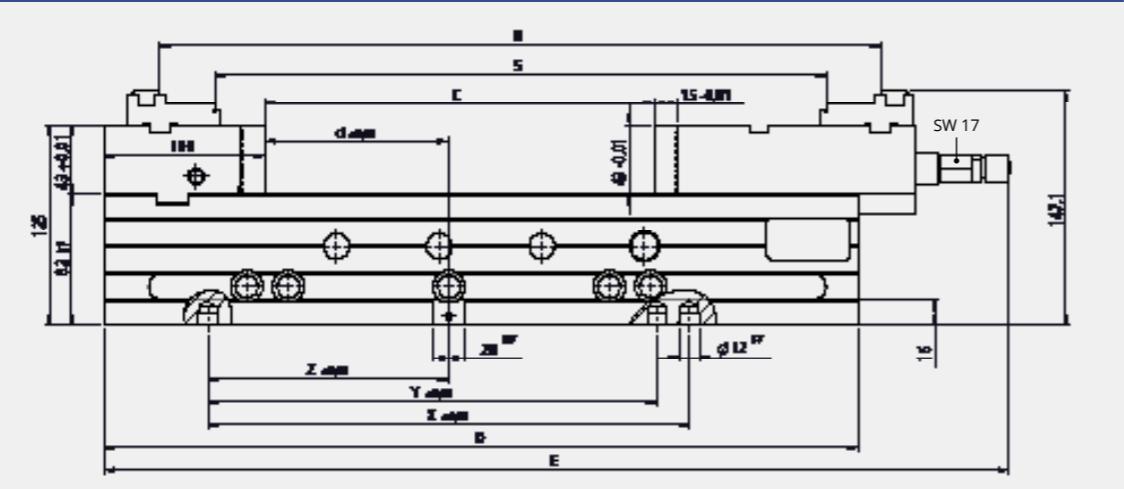




NCS 125 M-HD

Manual or mechanical-hydraulic – clamping up to 1,200 mm of bed length

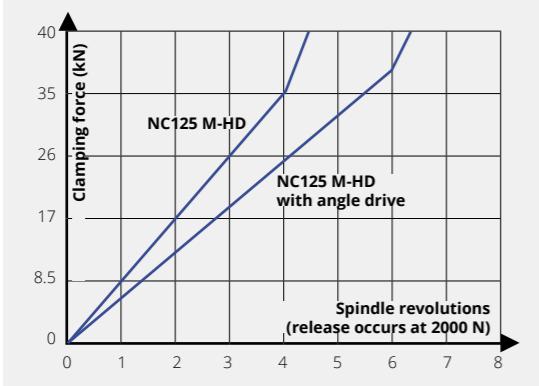
Technical drawing



Technical specifications

Order No.	09522	09523	09524	09525	09526	09527	09528	09529	Optionally
Jaw width/ Total width	125/127								
Bed length D	470	534	598	662	726	790	854	918	max. 1,000
Overall length E	564	628	692	756	820	884	948	1012	
d	115	167	199	231	263	295	327	359	
X	300	400	500	500	500	500	500	500	
Y	280	–	480	480	480	480	480	480	
Z	150	200	250	250	250	250	250	250	
Span C	0-239	0-303	0-367	0-431	0-495	0-559	0-623	0-687	
Span R	131-445	131-509	131-573	131-637	131-701	131-765	131-829	131-893	
Span S	63-377	63-441	63-505	63-569	63-633	63-697	63-761	63-825	
Weight kg	37.6	41.7	45.1	48.5	51.9	55.3	58.7	62.1	

Clamping force diagram



Suitable
accessories
you can find
starting from
page 94

NCS 125/990 M-HD as the double
vice of special central jaws and the
second clamping jaw slide

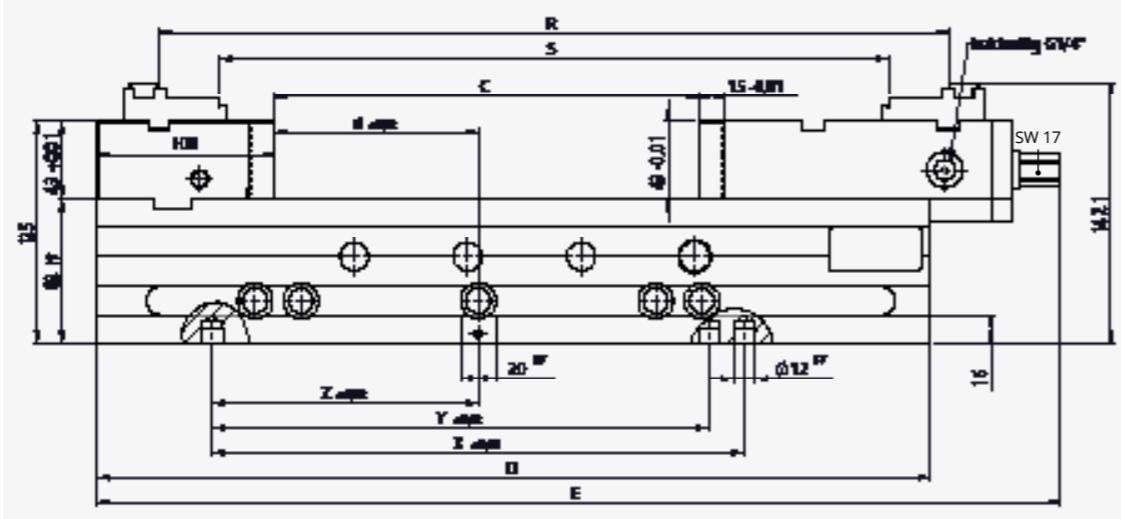




NCS 125 HD

Hydraulic clamping – for your mass production

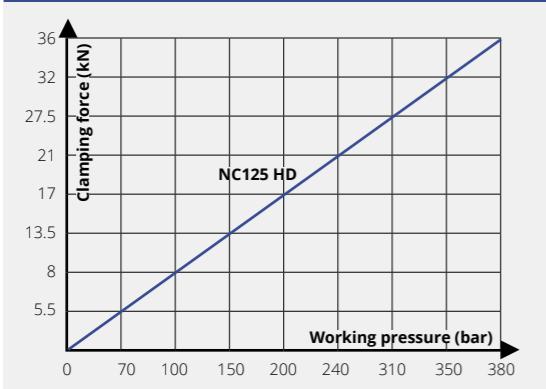
Technical drawing



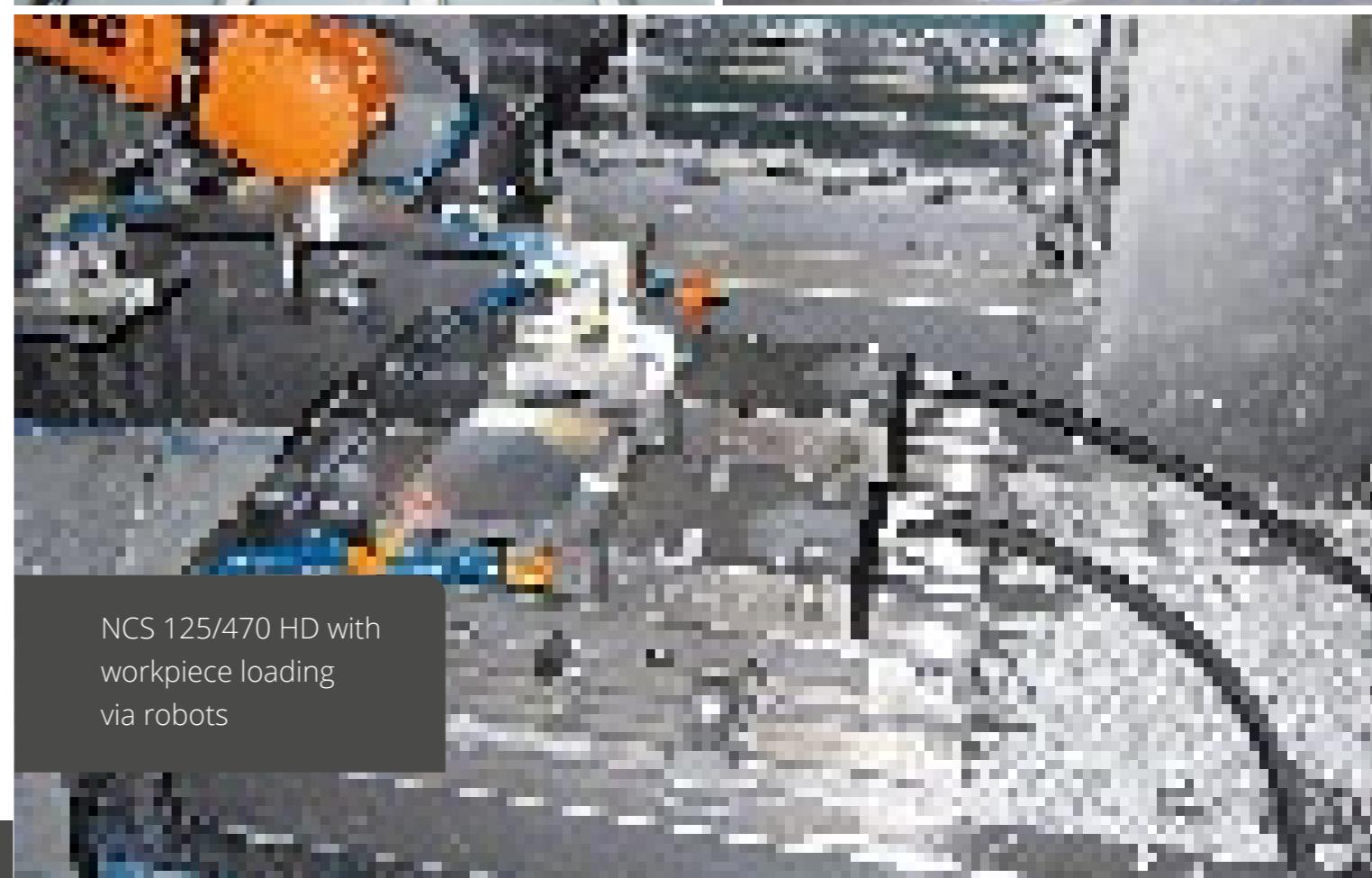
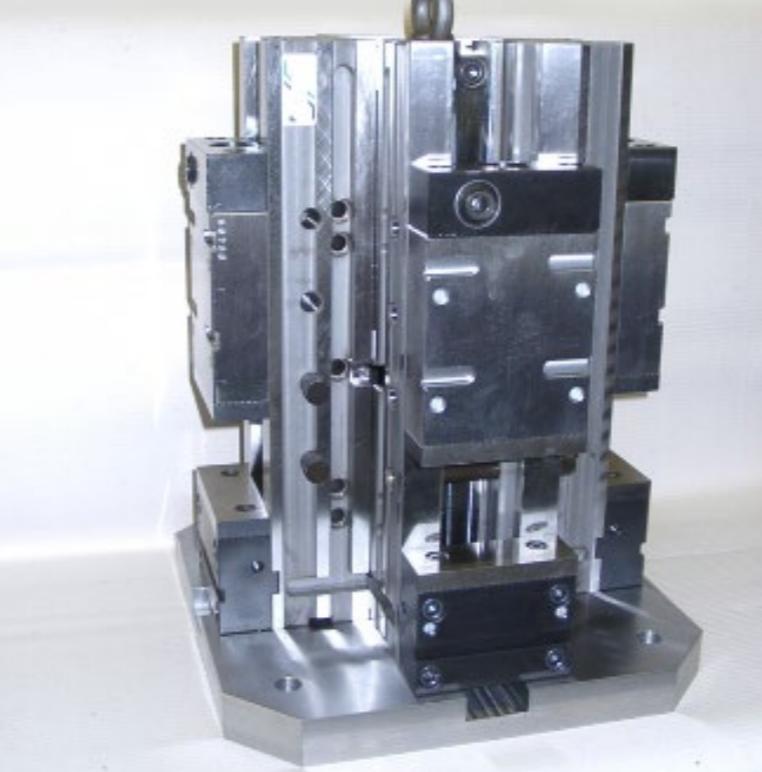
Technical specifications

Order No.	09532	09533	09534	09535	09536	09537	09538	09539	Optionally
Jaw width/ Total width	125/127								
Bed length	D	470	534	598	662	726	790	854	918
Overall length	E	542	606	670	734	798	862	926	990
	d	115	167	199	231	263	295	327	359
	X	300	400	500	500	500	500	500	500
	Y	280	–	480	480	480	480	480	480
	Z	150	200	250	250	250	250	250	250
Span	C	0-239	0-303	0-367	0-431	0-495	0-559	0-623	0-687
Span	R	131-445	131-509	131-573	131-637	131-701	131-765	131-829	131-893
Span	S	63-377	63-441	63-505	63-569	63-633	63-697	63-761	63-825
Weight	kg	37.7	41.1	45.2	48.6	52	55.4	58.8	62.2

Clamping force diagram



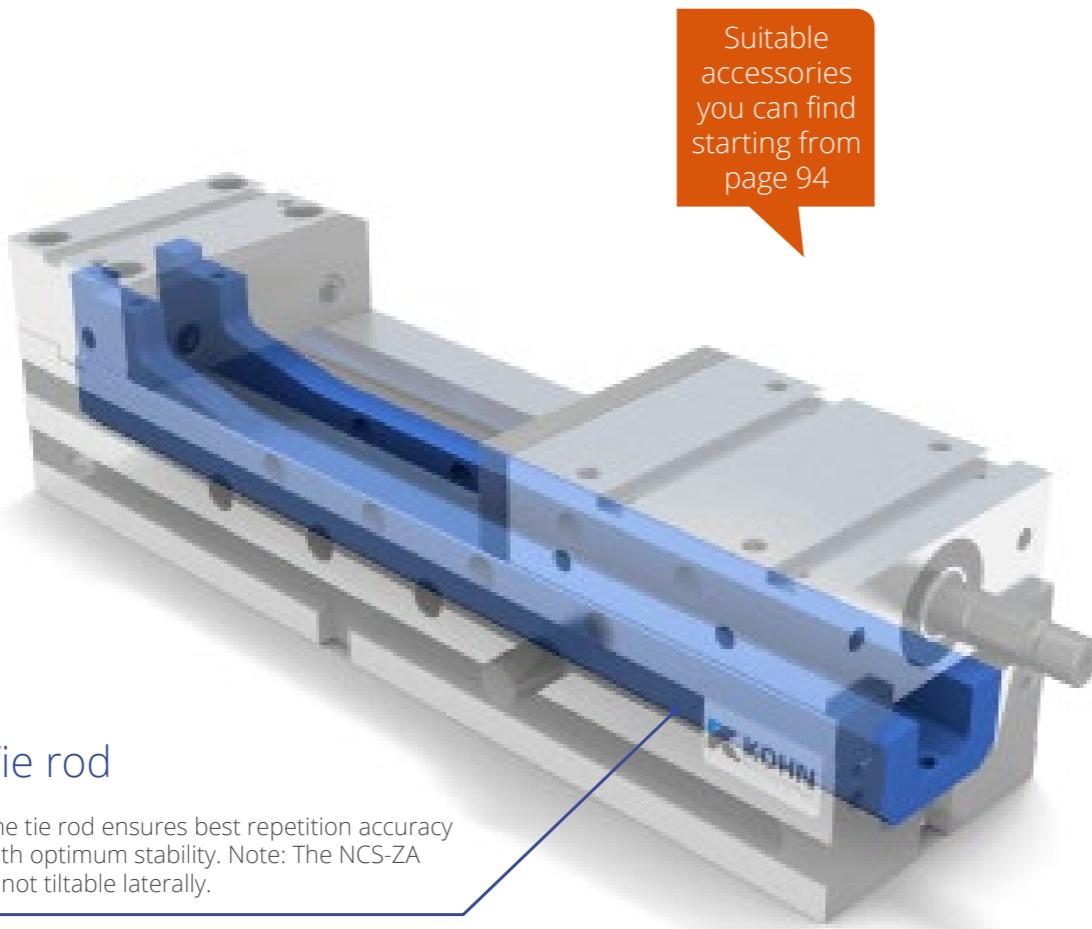
Suitable
accessories
you can find
starting from
page 94





NCS-ZA 125 M-HD

Highest repeating accuracy
and precision due to tie rod system

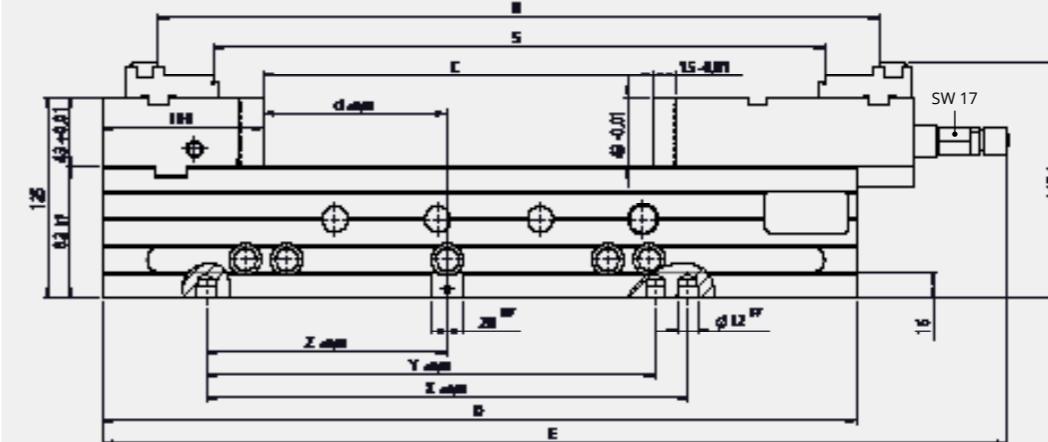

Tie rod

The tie rod ensures best repetition accuracy with optimum stability. Note: The NCS-ZA is not tiltable laterally.

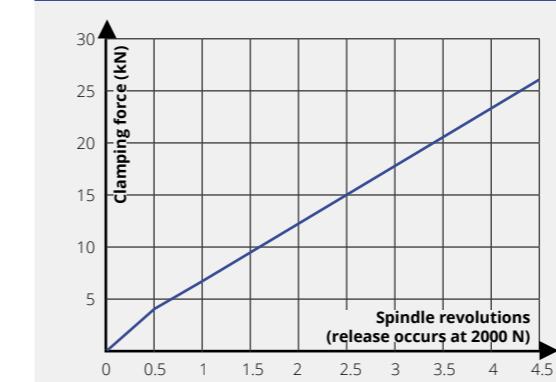
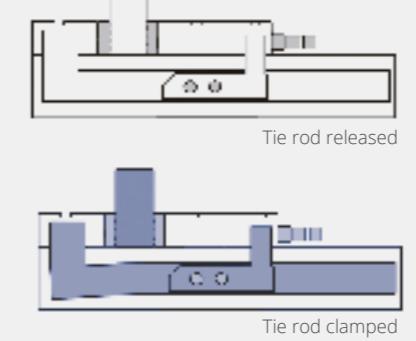
Suitable
accessories
you can find
starting from
page 94

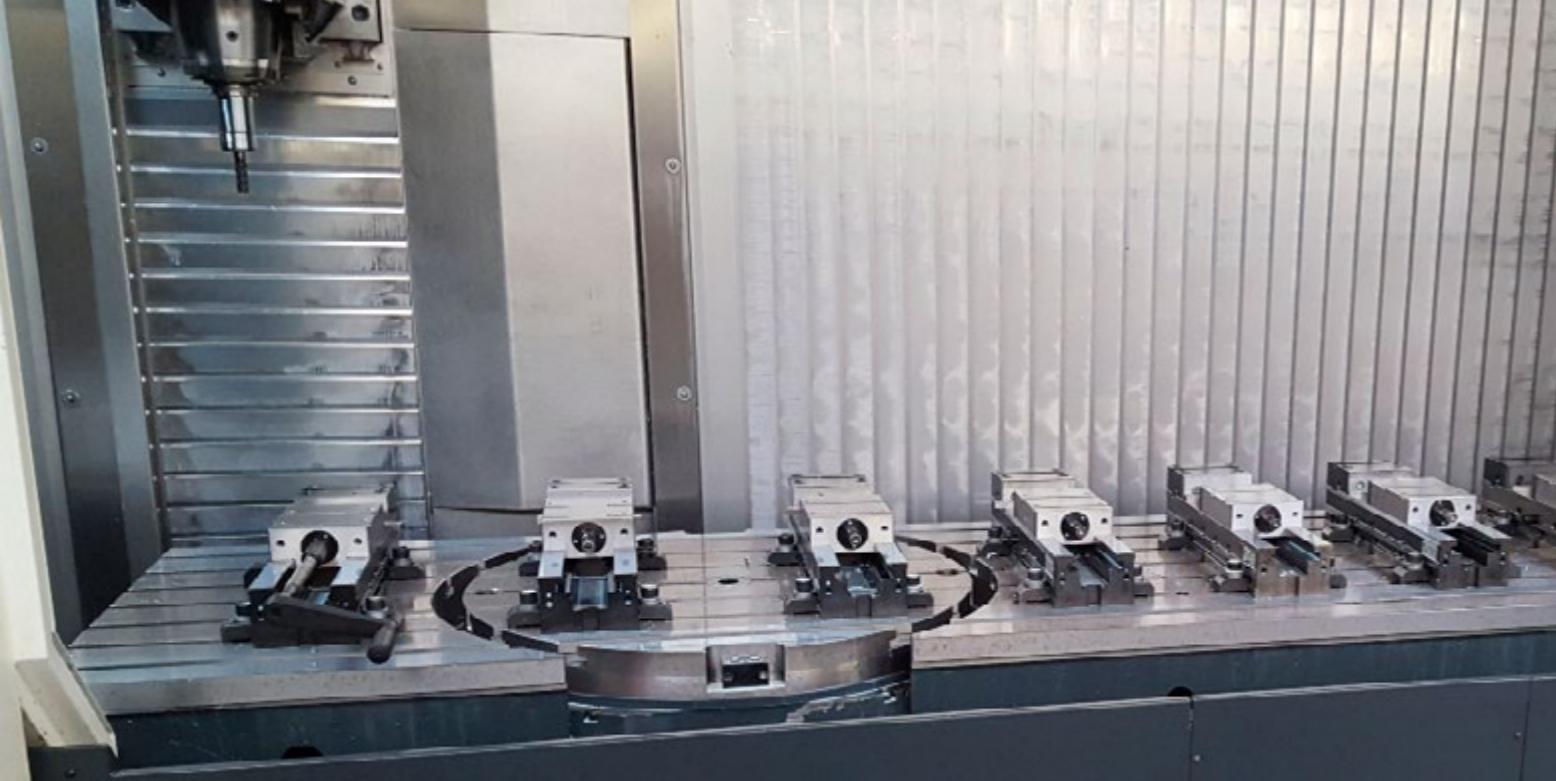
Impressive advantages:

- █ At full tension, the fixed jaw of the clamping slider is only deflected in the μ range. This substantially prevents misalignment of the fixed jaw and thereby the work-piece.
- █ The tie rod allows for use with zero-point clamping systems. It transmits the clamping force directly to the jaw, with almost no load on the bottom part. This ensures that precision components can be produced.
- █ The use of pull-down quick-change jaws extends the range of applications of the vice. It is even possible to compensate for existing angular misalignment of the workpieces.

Technical drawing

Technical specifications

Order No.	09522ZA	09523ZA	09524ZA	09525ZA	09526ZA
Jaw width/ Total width	125/127				
Bed length	D	470	534	598	662
Overall length	E	564	628	692	756
	d	115	167	199	231
	X	300	400	500	500
	Y	280	-	480	480
	Z	150	200	250	250
Span	C	0-239	0-303	0-367	0-431
Span	R	131-445	131-509	131-573	131-637
Span	S	63-377	63-441	63-505	63-569
Weight	kg	39.7	43.2	46.7	50.2
					53.7

Clamping force diagram

Mode of operation




Type:

single vice

View
on-line:

ESS

System:

A clamping slider clamps with a continuous spindle against a fixed jaw.

Versions:

ESS-M

Mechanical clamping range adjustment and force build-up

ESS-M-HD

Mechanical clamping range adjustment and mechanical-hydraulic force build-up

ESS-HD

Mechanical clamping range adjustment and hydraulic force build-up

ESS-FV

Fixed jaw forward at operating side for easy mounting of heavy workpieces

Single vice – unrivalled versatility and economy

ON REQUEST:

Bed length up to 1,200 mm

OPTIONAL:

Flat bed version on request (p. 8)

Suitable accessories you can find starting from page 94

Multi-clamping

Usage of changeover sliders enable more workpieces to be clamped.
No tools required for assembly

Seamless clamping range

for clamping width adjustment through a continuous spindle

very best repeating accuracy

Clamping slider and spindle nut made of one piece

Optionally, front or rear

For optimum loading select front or rear fixed jaw.

Optimised

coolant and chip flow

Optional: tiltable

Tempered and smoothed sides for maximum flexibility

Impressive advantages:

- ◀ Repeat accuracy ≤ 0.01 mm
- ◀ Fixed jaws secured on all levels (X,Y,Z)
- ◀ Can be used horizontally and vertically (on the tower)
- ◀ Large clamping range due to stepped jaw attachments
- ◀ Basic equipment: 2 screw-in jaws and 1 hand crank

Grease nipple

Grease nipple for lubrication of the clamping slider guideway

Manual, hydraulic or mechanical-hydraulic

Depending on requirements: boost your productivity



ESS-M & ESS-HD

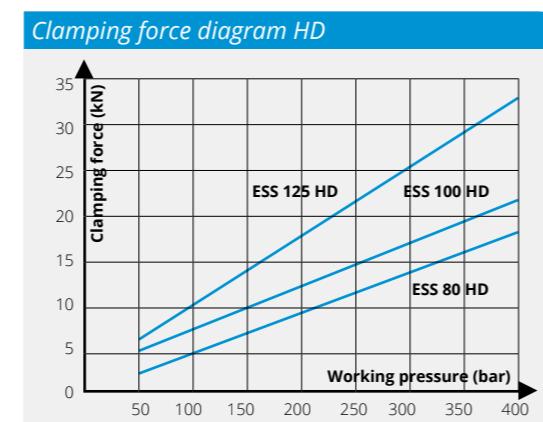
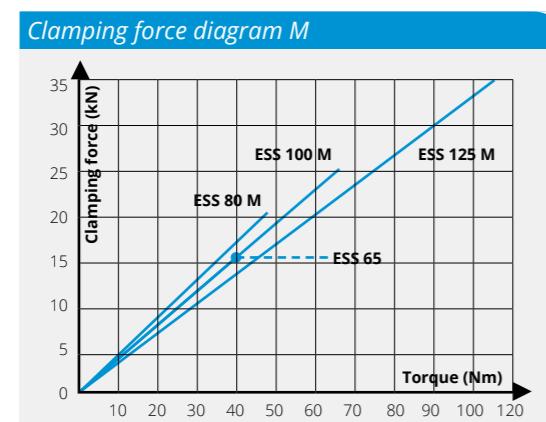
Single vice, mechanical or hydraulic version,
Fixed jaw on the rear (opposite the operator side)



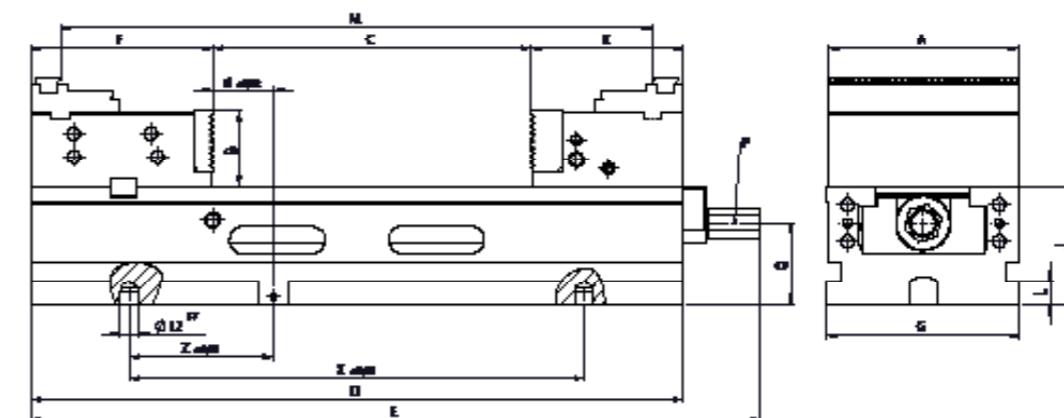
Suitable accessories you can find starting from page 94

Impressive advantages:

- ❖ ESS-HD: Option for quick adjustment spindle for rapid moves of the clamping slider (no vertical clamping possible). Clamping force adjustment via hydraulic pressure
- ❖ Option: Mounting holes and holes for your zero-point clamping
- ❖ Option for longitudinal groove



Technical drawing



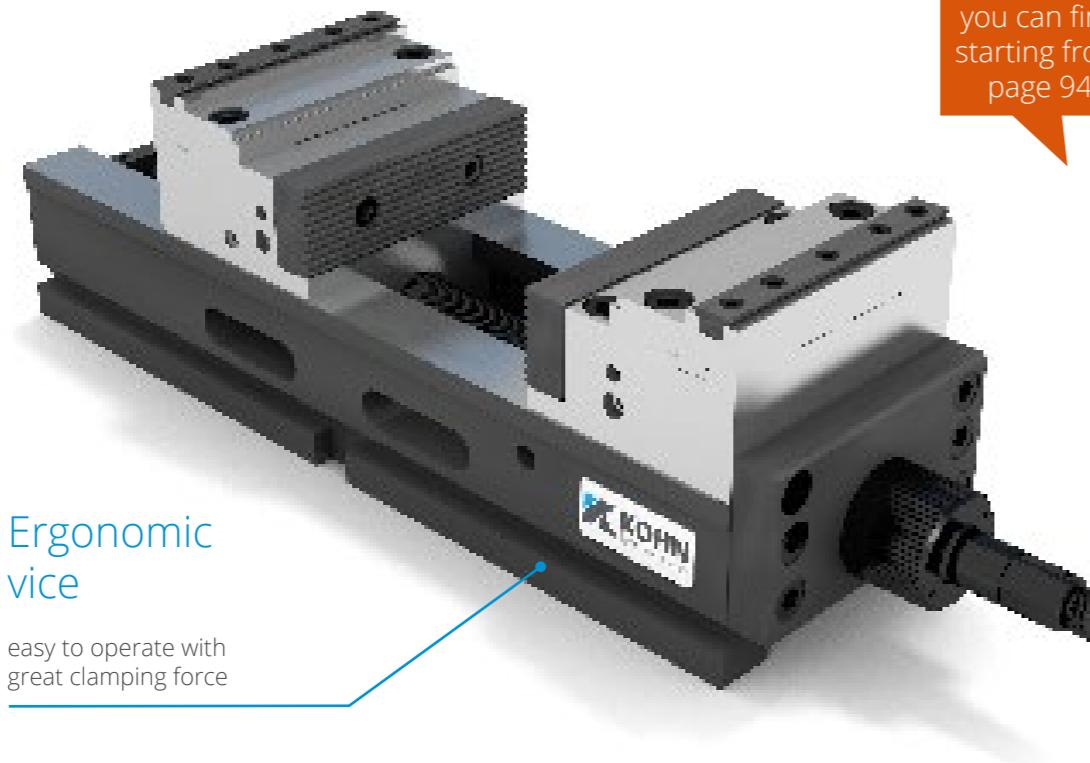
Technical specifications

Jaw width	A	100	125
Order No. mechanical		01411	01511
Order No. hydraulic		01431	01531
without jaws		01431000100	01531000100
Clamping depth	B	44	50
Span	C	0-180	0-210
Bed length	D	360	430
Overall length	E	404 (HD 392)	481 (HD 472)
Fixed jaw	F	100	120
Base width	G	104	127
Overall height	H	122	128
Bed height	J ^{h7}	78	78
Clamping slide length	K	80	100
L		14	16
Hexagonal connection SW	P	14	17
Q		58	54
d		40	40
X		300	300
Z		120	95
Span with stepped jaw attachments	M	148-328	180-390
N		92-272	112-322
Clamping stroke	mm	4-5	4-5
Mechanical clamping force	kN/Nm	25/64	35/115
Hydraulic clamping force	kN/380 bar	20	30
Weight	kg	21	36



ESS-FV M-HD

Single vice, mechanical-hydraulic booster,
"fixed jaw on the front" *(on the operator side)*

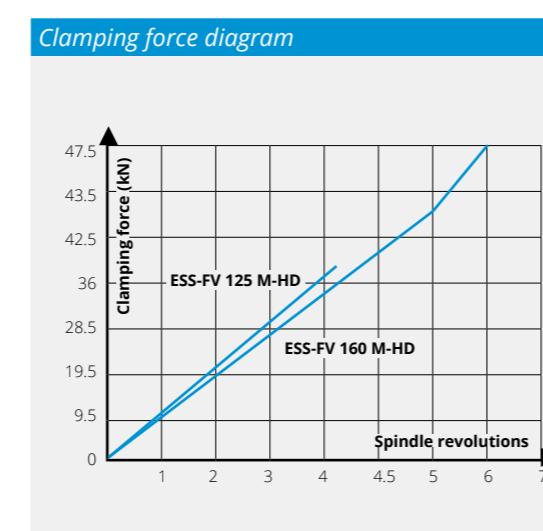


Ergonomic vice

easy to operate with great clamping force

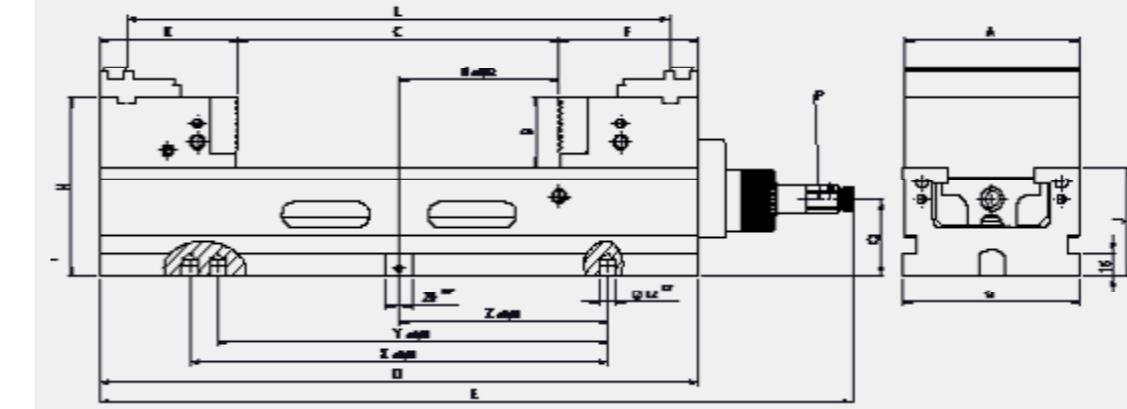
Impressive advantages:

- ❖ Fixed jaw on the operator side:
Best handling for the machine operator, ideal for great Y-travel distance
- ❖ Option: Mounting holes and holes for zero-point clamping
- ❖ Clamping force via marking rings readable



Suitable accessories you can find starting from page 94

Technical drawing



Technical specifications

Jaw width A	125				160			
Order No.	01520-FV	01521-FV	01522-FV	01523-FV	01524-FV	01620-FV	01621-FV	01622-FV
Clamping depth B			50					54
Bed length D	430	500	560	680	740	600	750	900
Overall length E	545	615	675	795	855	714	864	1014
Span C	0-230	0-300	0-360	0-480	0-540	0-342	0-492	0-642
Fixed jaw F			100				130	
Base width G			127				162	
Overall height H			128				144	
Bed height J h7			78				90	
Clamping slide K			100				126	
Top stepped jaws L	160-390	160-460	160-520	160-640	160-700	204-546	204-696	204-846
N	92-322	92-392	92-452	92-572	92-632	134-476	134-626	134-776
Hexagonal connection SW P			19				19	
Q			54				64	
d	115	150	180	240	270	170	245	320
X	300	400	400	500	500	500	500	500
Y	280	-	-	480	480	-	480	480
Z	150	200	200	250	250	250	250	250
Clamping force kN			38				47.5	
Weight kg	35	39	42	47	50	68	78	88



ESS-FV HD

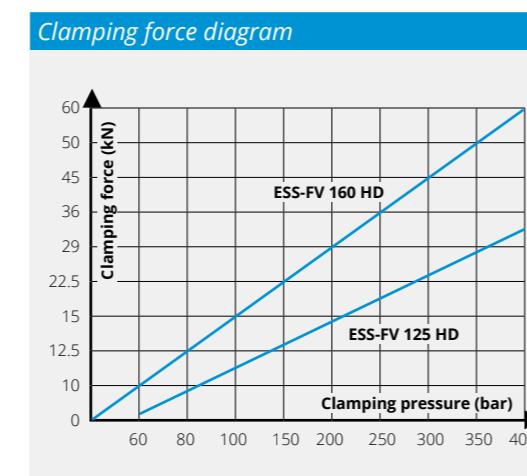
Single vice,
hydraulic force regulation,
"fixed jaw on the front" *(on the operator side)*



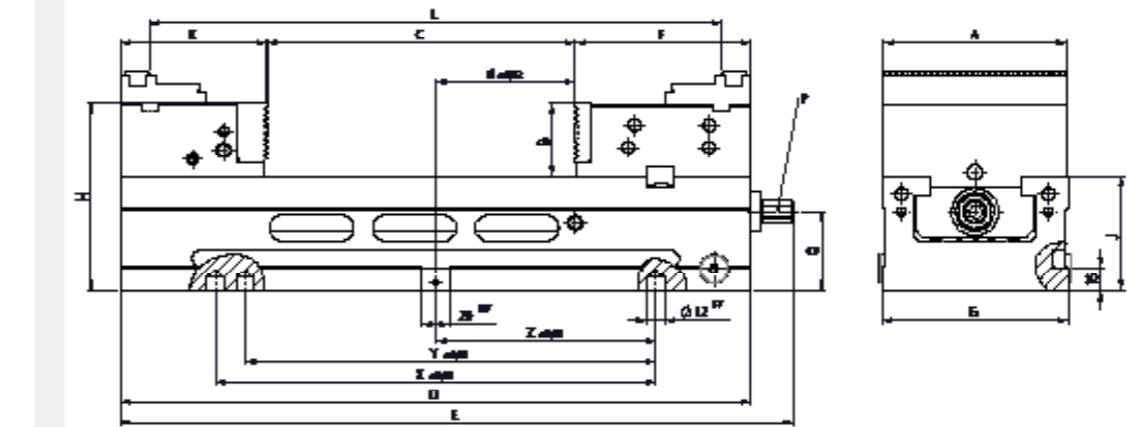
Suitable
accessories
you can find
starting from
page 94

Impressive advantages:

- ◀ Fixed jaw on the operator side: best handling for the machine operator, ideal for great Y-travel distance
- ◀ The clamping force is adjusted via the hydraulic pressure.
- ◀ ESS-HD: Option for quick adjustment spindle for rapid moves of the clamping slider (no vertical clamping possible).
- ◀ Option: Mounting holes and holes for zero-point clamping

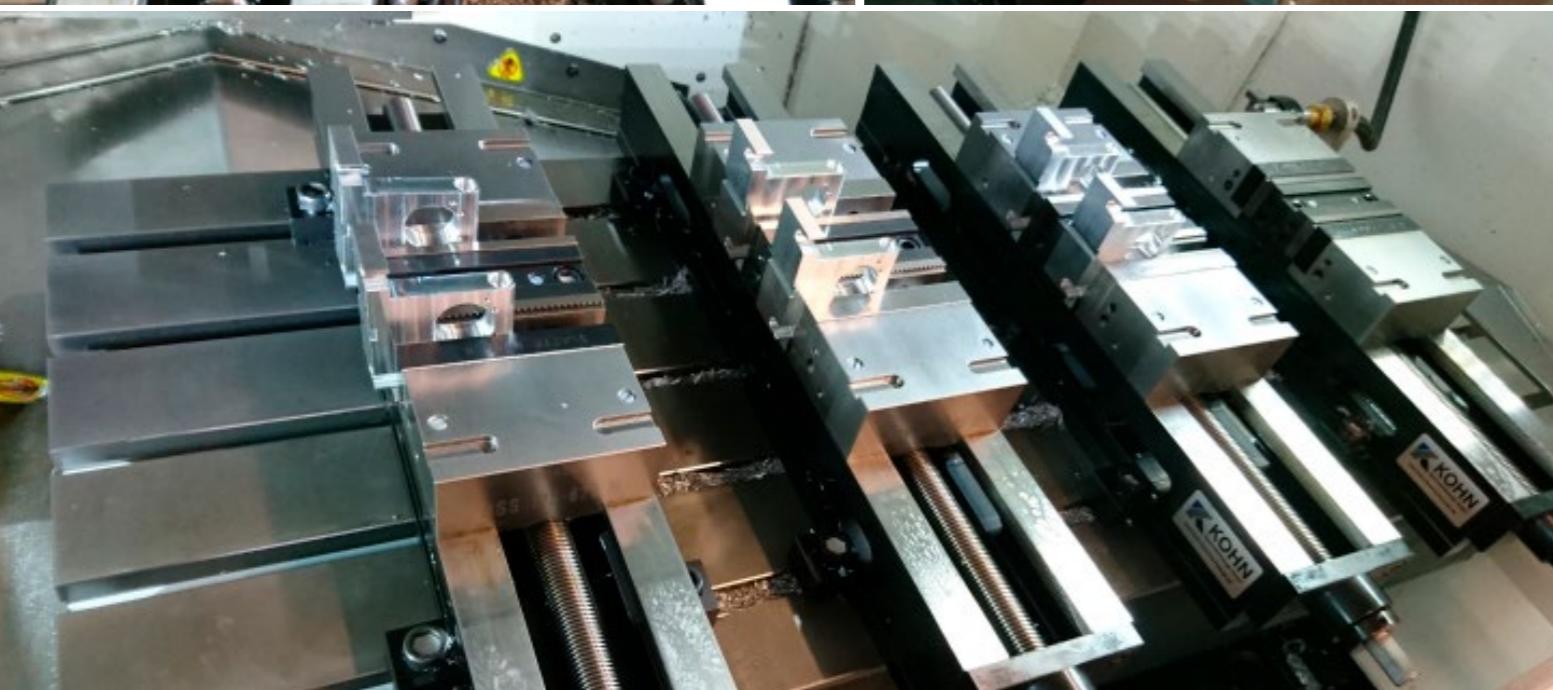
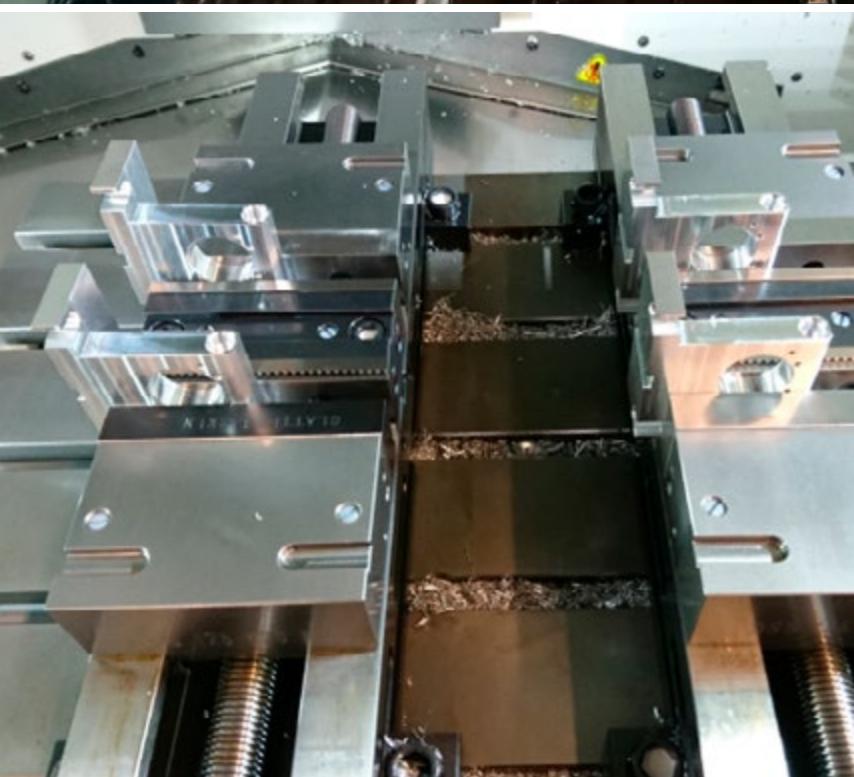


Technical drawing



Technical specifications

Jaw width A	125					160			
Order No.	01530-FV 01531-FV 01532-FV 01533-FV 01534-FV					01630-FV 01631-FV 01632-FV 01633-FV			
Clamping depth B	50					54			
Bed length D	430 500 560 680 740					600 750 900 1050			
Overall length E	463 533 593 713 773					647 797 947 1097			
Span C	0-210 0-280 0-340 0-460 0-520					0-325 0-475 0-625 0-775			
Fixed jaw F	120					146.5			
Base width G	127					162			
Overall height H	128					144			
Bed height J h7	78					90			
Clamping slide K	100					126			
False jaws L	180-390	180-460	180-520	180-640	180-700	221-529	221-679	221-829	221-979
N	112-322	112-392	112-452	112-572	112-632	151-478	151-628	151-778	151-928
Hexagonal connection SW P	14					17			
Q	54					64			
d	95	130	160	220	250	153.5	228.5	303.5	378.5
X	300	400	500	500	500	400	500	500	500
Y	280	-	480	480	480	-	480	480	480
Z	150	200	200	250	250	200	250	250	250
Clamping stroke	4					4			
Clamping force hydraulic 380 bar	30					55			
Weight kg	46	51	55	63	67	72	82	93	103



Type:

Double vice

View
on-line:

DSS

System:

Two clamping sliders, one central jaw, and one continuous spindle simultaneous clamping from both sides against the central jaw.

Versions:

DSS-M

Mechanical span adjustment and pressure build-up. Different work-piece dimensions ± 2 mm can be compensated by spindle bearings.

DSS – multi-clamping in all dimensions, for the rational small-batch and series production

Best repeat accuracy

Clamping slider and
spindle nut made of one piece

Simple pre-clamping (3-hand operation)

Pre-clamping of workpiece 1,
Insert workpiece 2 and clamp both.
And that can be easily done vertically!

Safe stop

The free-standing central jaw is
secured on all levels (X,Y,Z)

Delayed stroke

2 mm delayed stroke provides sufficient
clearance for inserting workpiece 2

Impressive advantages:

- Repeat accuracy ≤ 0.01 mm
- Can be used horizontally and vertically
- Large clamping range due to stepped jaw attachments
- Basic equipment: 4 screw-in jaws and 1 hand crank
- Option: Mounting holes and transverse groove position for your zero-point clamping
- Option for longitudinal groove

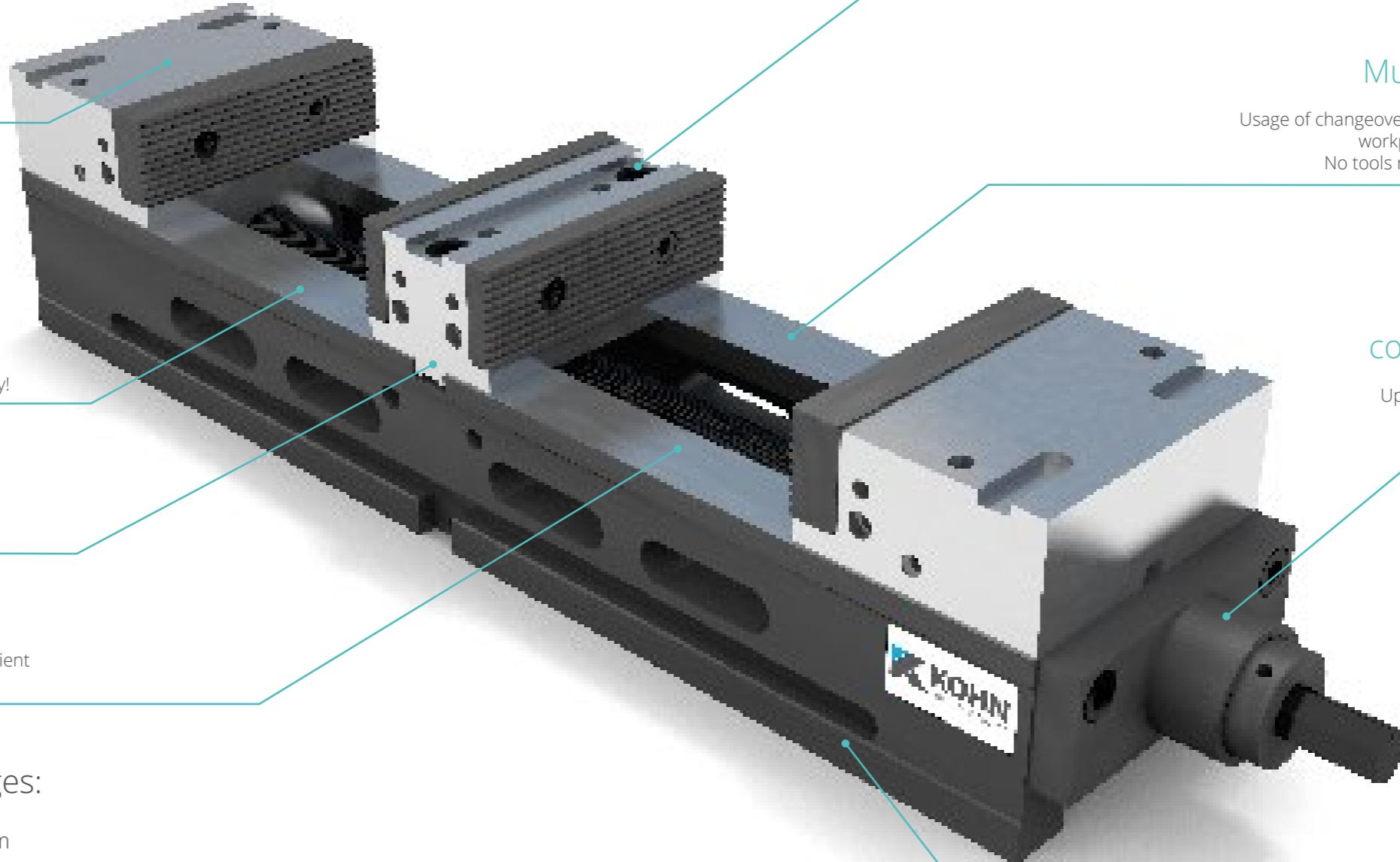
Suitable
accessories
you can find
starting from
page 94

ON REQUEST:
Bed length up to
1,200 mm

OPTIONAL:
Flat bed version
on request (p. 8)

Both workpieces are clamped with
identical clamping force

Consistent Clamping force



Multi-clamping

Usage of changeover sliders enable more
workpieces to be clamped.
No tools required for assembly

Tolerance compensation

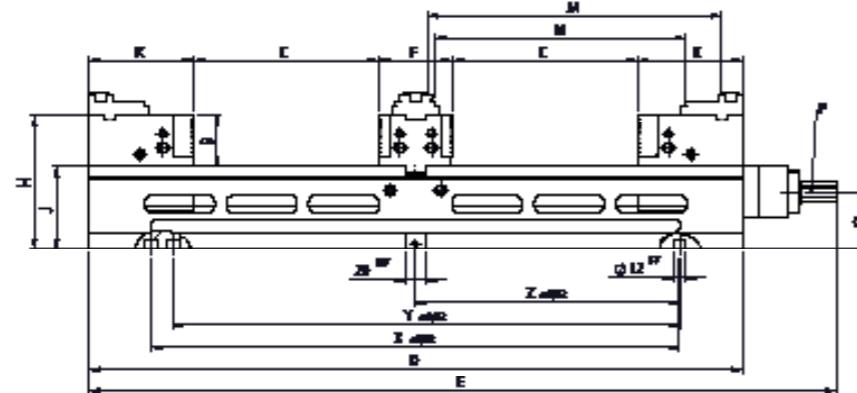
Up to ± 2 mm workpiece
tolerances can be
compensated by vice

Optional: tiltable

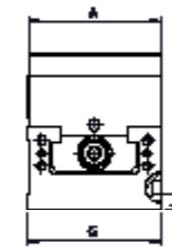
Tempered and smoothed side walls
ensure maximum flexibility



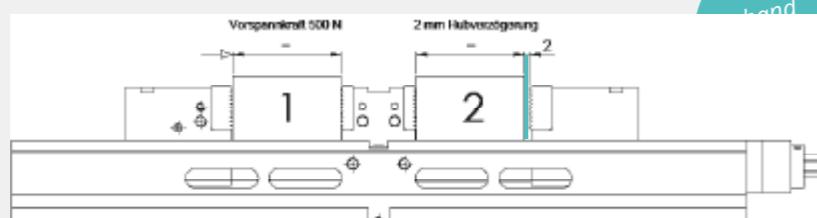
DSS-M

Technical drawing


You need more flexibility?
Then our MFS would be the right solution for you.



The delayed stroke favors fixed clamping when it is used on vertical situations



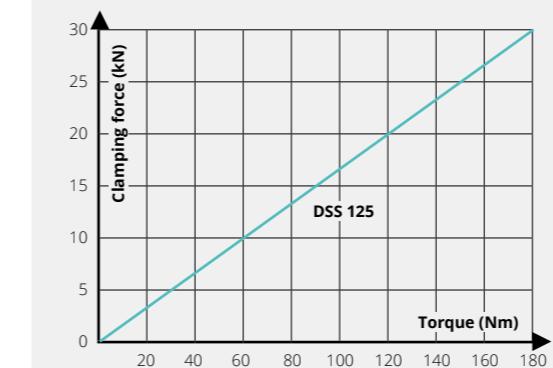
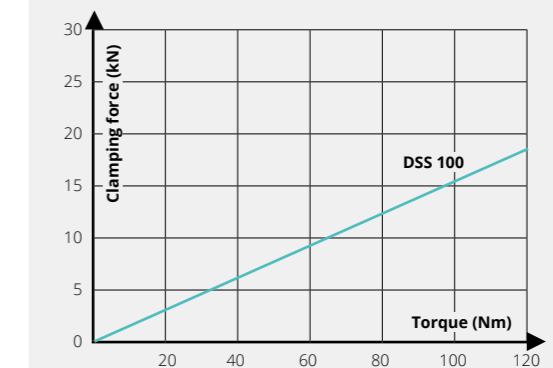
Workpiece 1:
clamped with an initial force of approx. 500 N

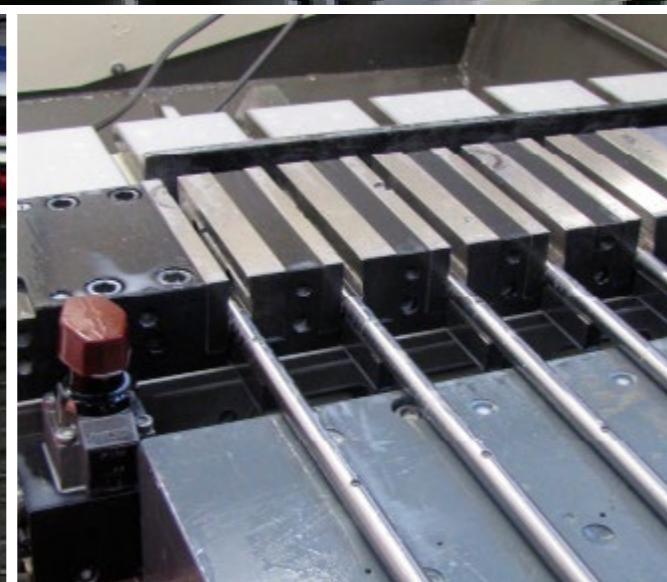
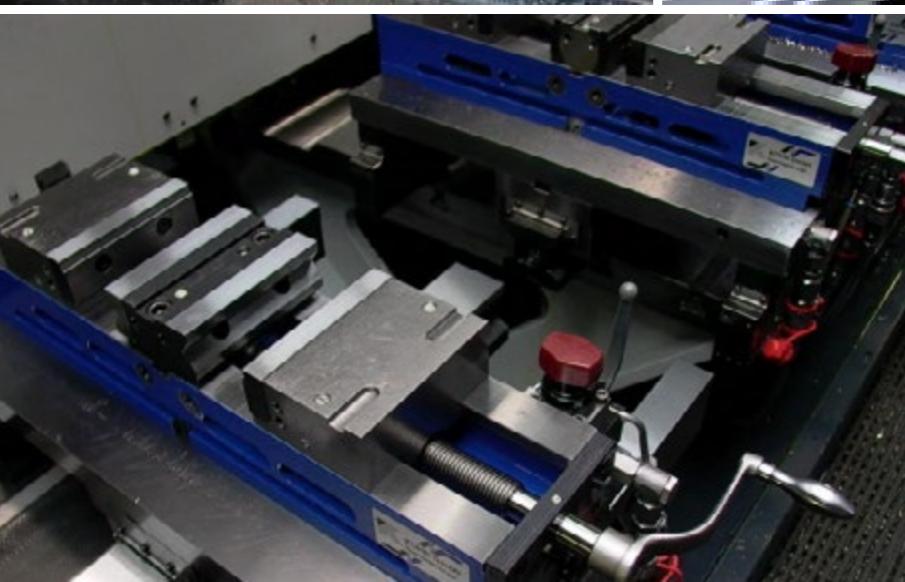
Workpiece 2:
has not been clamped by the jaws and can be positioned

Suitable accessories
you can find starting from
page 94

Technical specifications

Jaw width	A	100				125			
Order No.		02411	02412	02413	02414	02511	02512	02513	02514
Clamping depth	B			44				50	
Span	C	0-115	0-140	0-165	0-190	0-145	0-175	0-205	0-235
Bed length	D	450	500	550	600	560	620	680	740
Overall length	E	530	580	630	680	650	710	770	830
Fixed jaw	F±0,02			60				70	
Base width	G			104				127	
Overall height	H			122				128	
Bed height	J h7			78				78	
Clamping slide	K			80				100	
L				14				16	
M		82-196	82-221	82-246	82-271	103-248	103-278	103-308	103-338
N		50-165	50-190	50-215	50-240	62-207	62-237	32-267	32-297
Hexagonal connection SW	P			14				17	
Q				58				54	
X		300	400	400	400	400	500	500	500
Y		280	-	-	-	-	480	480	480
Z		150	200	200	200	200	250	250	250
Clamping force	kN/Nm			20/130				30/180	
Weight	kg	31	32	33	34	48	51	53	55

Clamping force diagram DSS 125 M

Clamping force diagram DSS 100 M




Type:

Multi-functional vice

View
on-line:

MFS

System:

Two clamping sliders, one central jaw, and two continuous spindles easy to rebuild in a single vice, double vice or multiple clamping vice.

Versions:

MFS-MK

Mechanical operation with lock-in discs for span adjustment, mechanical force build-up.

MFS-HD

Mechanical span adjustment, hydraulic strength build-up, return stroke through pressurised air cushions

MFS – can be used for various purposes, ideal for multi-clamping. Our vice with the greatest possible utilisation factor!

OPTIONAL:

Flat bed version
on request (p. 8)

ON REQUEST:

Bed length up to
1,200 mm

Suitable
accessories
you can find
starting from
page 94

Multi-clamping

Usage of changeover sliders enable more workpieces to be clamped, depending on the bed length.

Permanently consistent Clamping force

Two independent spindles generate the same clamping force for each individual clamping.

Safe stop

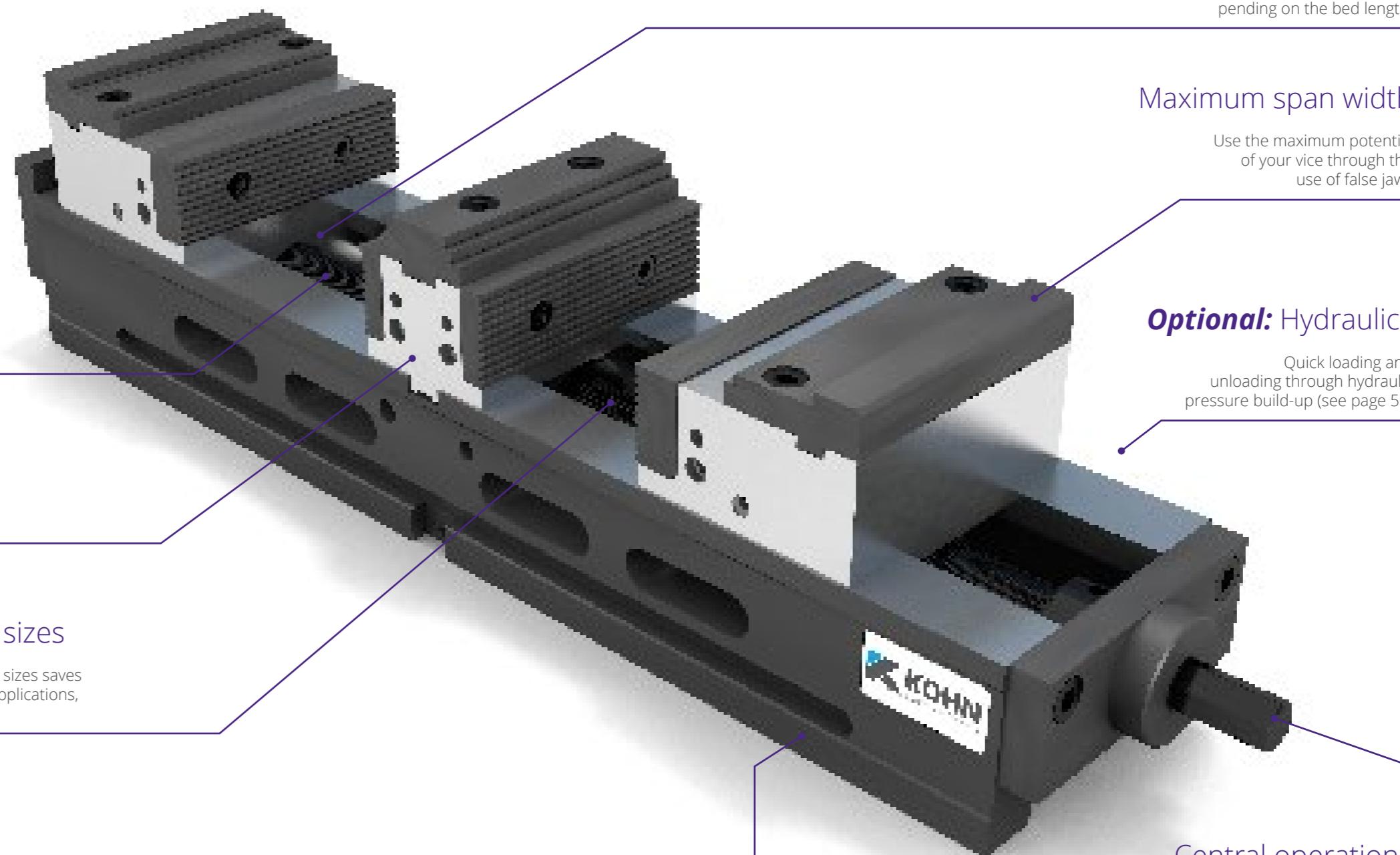
The free-standing central jaw is secured on all levels (X,Y,Z)

Variable workpiece sizes

Clamping with different workpiece sizes saves presetting and set-up times. For applications, see next page

Impressive advantages:

- ▀ Best repeat accuracy ≤ 0.01 mm
- ▀ Extended clamping range due to stepped jaw attachments



Tilttable

Hardened and smoothed side walls provide for even more flexibility (option)

Maximum span width

Use the maximum potential of your vice through the use of false jaws

Optional: Hydraulics

Quick loading and unloading through hydraulic pressure build-up (see page 50)

Central operation for quick clamping

Ideal for the operator: Closing and clamping of only one side allows a workpiece changeover in a few seconds.



MFS

1 vice – 3 different clamping functions



Clamping of **2 blanks:**

Simple and extremely rapid movement of the clamping slider allows clamping of the similarly and differently sized workpieces. Clamping sliders may be moved together or individually to adjust the clamping range.



Clamping of **3 or more blanks:**

Rapid installation of changeover sliders enable more work pieces to be clamped. No tools required for assembly.



Clamping of **large blanks:**

Divided into three differently sized clamping ranges. after removal of the central jaw, the rear clamping slider serves as a fixed jaw. Large or long workpieces (e.g., plates, strips, etc.) may be clamped by attaching stepped jaw attachments to the fixed jaw and the movable clamping slider.





MFS-MK

Multi-functional vice – mechanical version with cam-plate locking

Stop plate

Fasten stop plate around clamping slider. After removal of the central jaw, the rear Clamping slider serves as a fixed jaw.

Spacer plate

Reduced span if used as a single vice



Basic equipment:

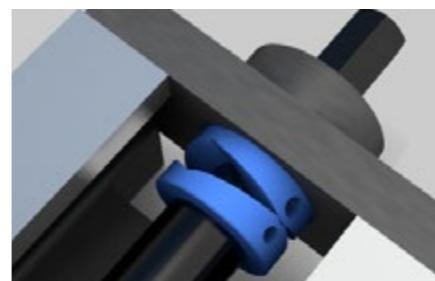
MFS-100 MK:

- ✓ 4 screw-in jaws (longitudinally knurled)
- ✓ 1 hand crank
- ✓ 1 handrail
- ✓ 1 spacer plate with 2 locking screws

MFS-125 MK:

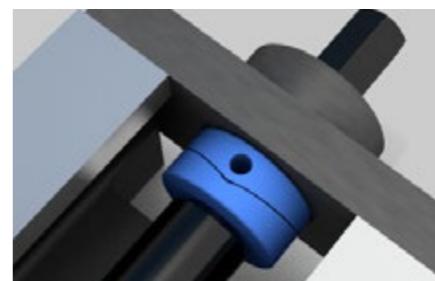
- ✓ 2 reversible screw-in jaws (1 side knurled, 1 side smooth)
- ✓ 2 screw-in jaws longitudinally knurled
- ✓ 1 hand crank
- ✓ 1 handrail
- ✓ 1 spacer plate with 2 locking screws

Cam-plate locking



Both spindles are rotating:

- ▶ **Adjust rear clamping range**



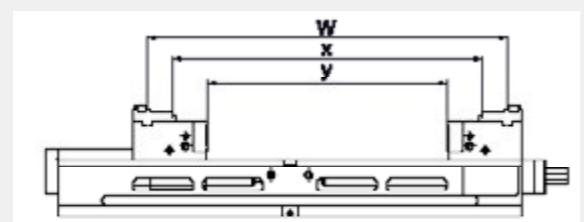
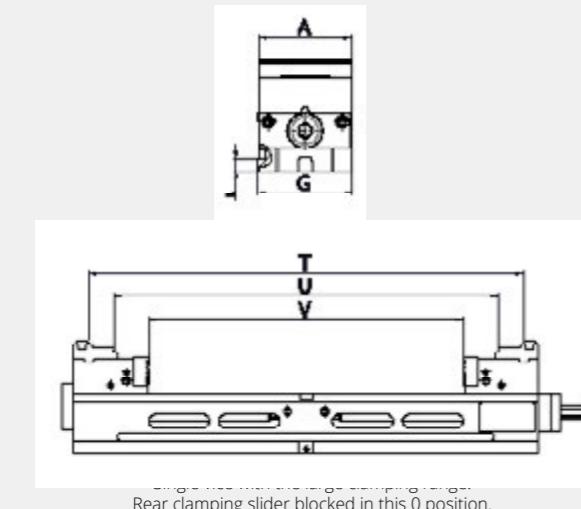
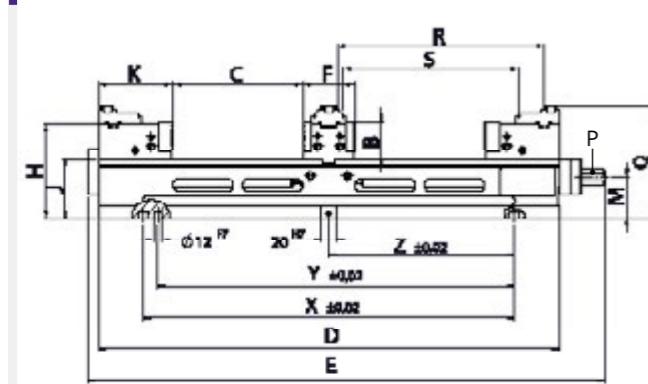
Front spindle is rotating:

- ▶ **Adjust front clamping range clamped on the front and rear simultaneously**

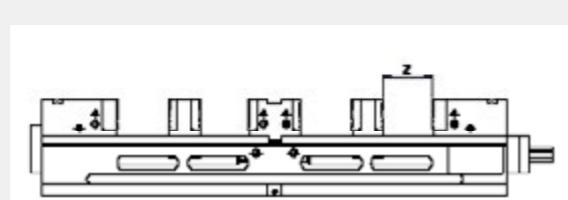
Suitable accessories you can find starting from page 94

Mechanical design with cam-plate locking

MFS-MK

Technical drawing

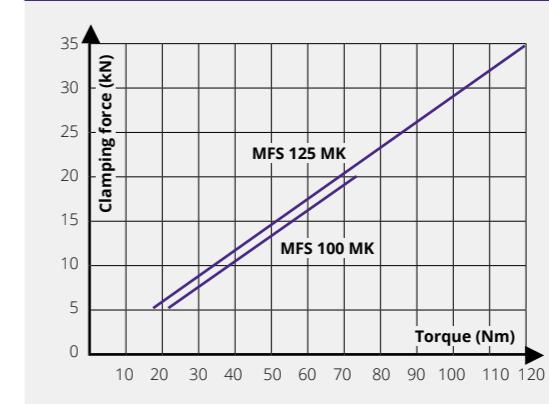
Single vice with a medium clamping range.
Central jaw removed, clamping slider is attached to the rear spacer plate.



No tools required for installation of changeover sliders.

Technical specifications

	A	100	125					
Order No.		08481	08482	08483	08484	08580	08581	08582
Clamping depth B			44				50	
Bed length D	450	500	550	600	500	560	620	680
Overall length E	535	585	635	685	564	645	705	765
Fixed jaw F±0.02			60				70	
Total width G			104				127	
Overall height H			122				128	
Bed height Jh7			78				78	
Clamping slide K			80				100	
Metal clamping flange L			14				16	
Spindle centre point M			58				54	
Hexagonal connection SW P			14				17	
Q			137,5				149,1	
X	300	300	400	400	400	400	500	500
Y	280	280	-	-	-	-	480	480
Z	150	150	200	200	200	200	250	250
Span C	0-113	0-138	0-163	0-188	0-113	0-143	0-173	0-203
Span R	84-195	84-220	84-245	84-270	102-213	102-243	102-273	102-303
Span S	52-163	52-188	52-213	52-238	64-175	64-205	64-235	64-295
Span T	416	466	516	566	458	518	578	638
Span U	249-360	274-410	299-460	324-510	279-390	309-450	339-510	369-570
Span V	177-288	202-338	227-388	252-438	187-298	217-358	247-418	277-478
W	316	366	416	466	358	418	478	538
x	149-260	174-310	199-360	224-410	179-290	209-350	239-410	269-470
y	77-188	102-238	127-288	152-338	87-198	117-258	147-318	177-378
z	0-39	0-51	0-64	0-76	0-36	0-51	0-66	0-81
Weight kg	31	32	33	34	46	48	51	53
Clamping force kN/Nm			20/72				35/120	

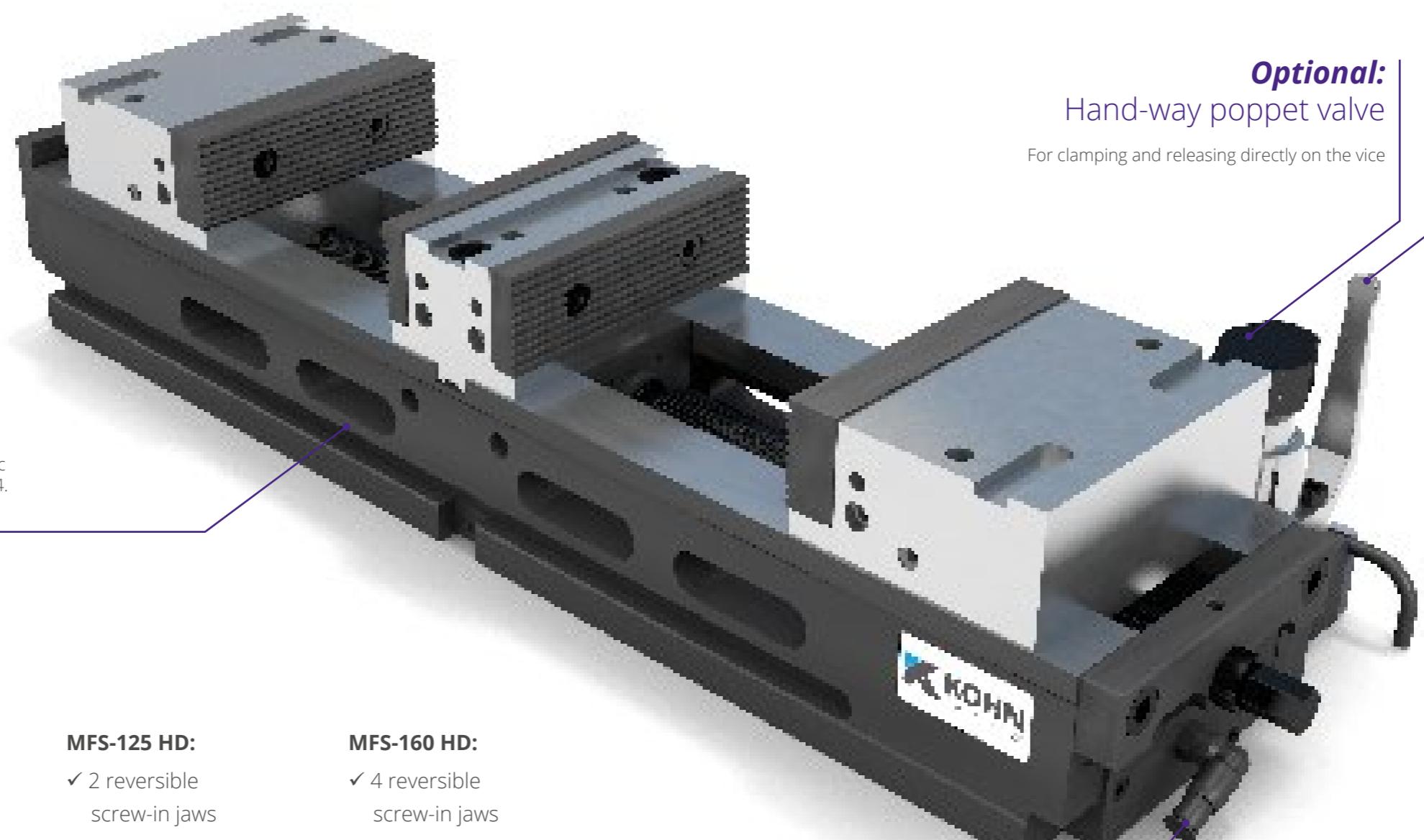
Clamping force diagram

Multi-functional vice – hydraulic version



MFS-HD

Suitable accessories you can find starting from page 94



Flexible applications

such as customer-specific hydraulic solutions are described on page 54.

Basic equipment:

MFS-80 HD/MFS-100 HD:

- ✓ 4 screw-in jaws (longitudinally knurled)
- ✓ 1 spacer plate with set screw
- ✓ 1 hand crank
- ✓ 1 ball valve

MFS-125 HD:

- ✓ 2 reversible screw-in jaws
- ✓ 2 screw-in jaws (longitudinally knurled)
- ✓ 1 spacer plate with set screw
- ✓ 1 hand crank
- ✓ 1 ball valve

MFS-160 HD:

- ✓ 4 reversible screw-in jaws
- ✓ 1 spacer plate with set screw
- ✓ 1 hand crank
- ✓ 1 ball valve

Ball valve three-way plates

For separate adjustment of the two clamping ranges. Hydraulic operation instead of cam-plate locking (p. 47).

Optional:

Hand-way poppet valve

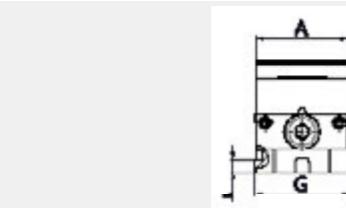
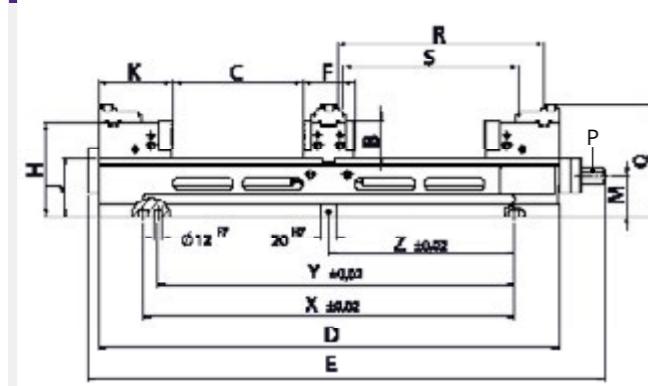
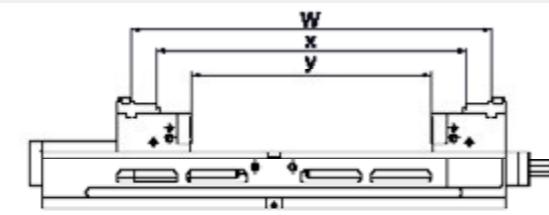
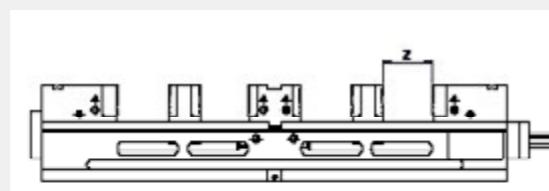
For clamping and releasing directly on the vice

Fast release of workpieces

The return stroke is produced by a pressurised air cushion that can be filled through a valve.

Multi-functional vice – hydraulic version

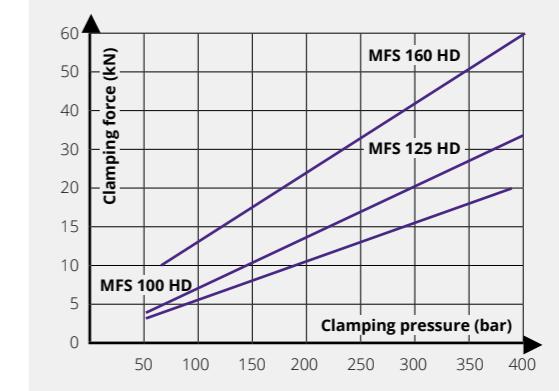
MFS-HD

Technical drawing

 Single vice with the rear clamping range.
Rear clamping slider blocked in this 0 position.

 Single vice with a medium clamping range.
central jaw removed, clamping slider is attached to the rear spacer plate.

 Changeover sliders can be easily fitted.
No tools required for installation of changeover sliders.

Technical specifications

	A	100	125	160
Order No.	08431	08432	08433	08434
Clamping depth	B	44	50	54
Bed length	D	450	500	550
Overall length	E	535	585	635
Fixed jaw	F ±0.02	60	70	90
Total width	G	104	127	161
Overall height	H	122	128	144
Bed height	Jh7	78	78	90
Clamping slide	K	80	100	126
Metal clamping flange	L	14	16	16
Spindle centre point	M	58	54	64
Hexagonal connection SW	P	14	14	14
Q	137.5	146	167	
X	300	300	400	500
Y	280	280	–	480
Z	150	150	200	250
Span	C	0-113	0-138	0-163
Span	R	84-195	84-220	84-245
Span	S	52-163	52-188	52-213
Span	T	416	466	516
Span	U	249-360	274-410	299-460
Span	V	177-288	202-338	277-388
Span	W	316	366	416
Span	x	149-260	174-310	199-360
Span	y	77-188	102-238	127-288
Span	z	0-39	0-51	0-64
Weight	kg	31	32	33
Clamping force	kN bar	20	380	30
				400

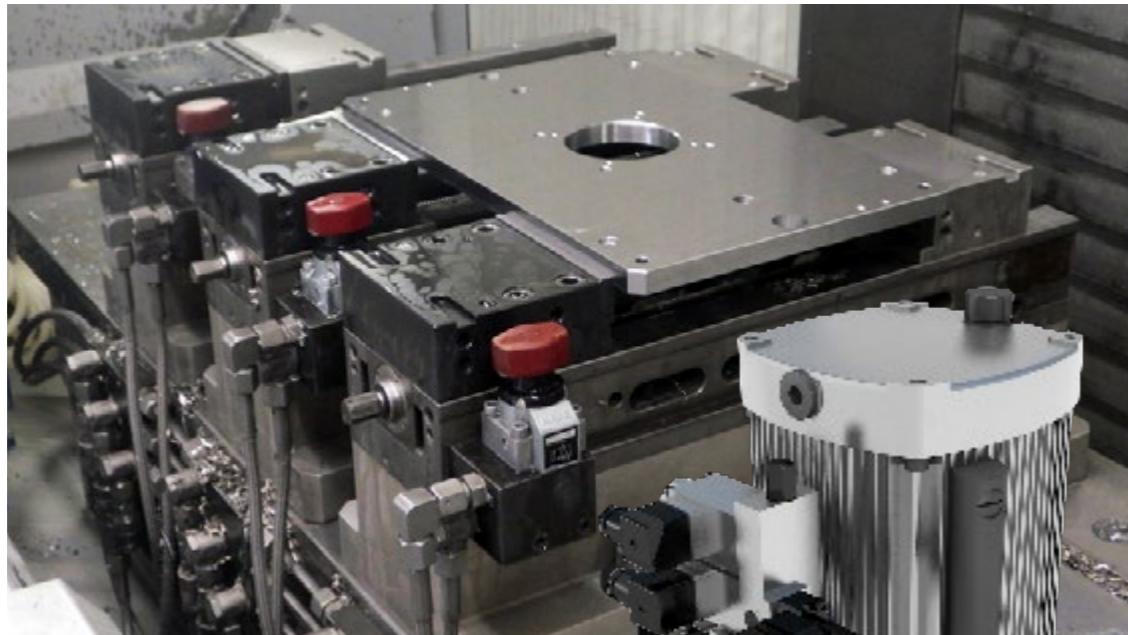
Additional bed lengths (D) upon request

Clamping force diagram




MFS-HD

Ready to start:
Our customised hydraulic solutions
allow for immediate production:



Feel free to contact our
Technology Department specialists
for various options.

- ☒ The operation of the vice requires a hydraulic unit or a pressure booster delivering a pressure of up to 400 bar. The maximum operating pressure of the vice is 380 bar. The clamping force is adjusted via the hydraulic pressure. The return stroke is produced by a pressurised air cushion that can be filled through a valve. No permanent connection necessary, but possible (through check valve).
- ☒ Control and monitoring of the vices (operation on electric push button, foot switch, hand-way poppet valve or connection to the machine control unit via control box pp. 140-141).
- ☒ Design of the hydraulic unit with control cabinet according to their assigned tasks (unit in a simple, 1-pass or multi-circuit version)
- ☒ Clamping and release of one or several vices individually and / or jointly, etc.

Type: Self-centring vice

ZSS

View
on-line:

System:

Two clamping sliders with continuous spindle and simultaneous centric clamping of two sides

Versions:

ZSS-M

mechanical span adjustment and pressure build-up

ZSS-MOT

Span adjustment and pressure build-up powered by a hydraulic motor

ZSS – outstanding accessibility, ideal for complex and heavy-duty machining

Suitable
accessories
you can find
starting from
page 94

OPTIONAL:

Flat bed version
on request (p. 8)

ON REQUEST:

Bed length up to
1,200 mm

Usage of mould jaws

The vice, together with the hydraulic motor, is ideal for using mould jaws that require a high opening path /clamping stroke in automatic mode.

Perfect grip

The wide support for the clamping slider ensures maximum grip.

Impressive centring

Hardened and smoothed trapezoidal thread spindle (for ZSS 100 and ZSS 125)

Trouble-free for large chip volumes

Outstanding chip and coolant discharge

Optimum positioning

Traverse groove for alignment

Impressive advantages:

- ▀ Repeat accuracy ≤ 0.015 mm
- ▀ Heavy-duty design prevents vibrations
- ▀ Large clamping range due to reversible jaws
- ▀ Basic equipment: 2 standard prismatic jaws and 1 hand crank

Special jaws? No problem!

Customised jaw production:
Faster for professional clamping saves time during set-up!

Large clamping range

The extreme clamping slider geometry, in conjunction with reversible jaws, enables very large clamping ranges.

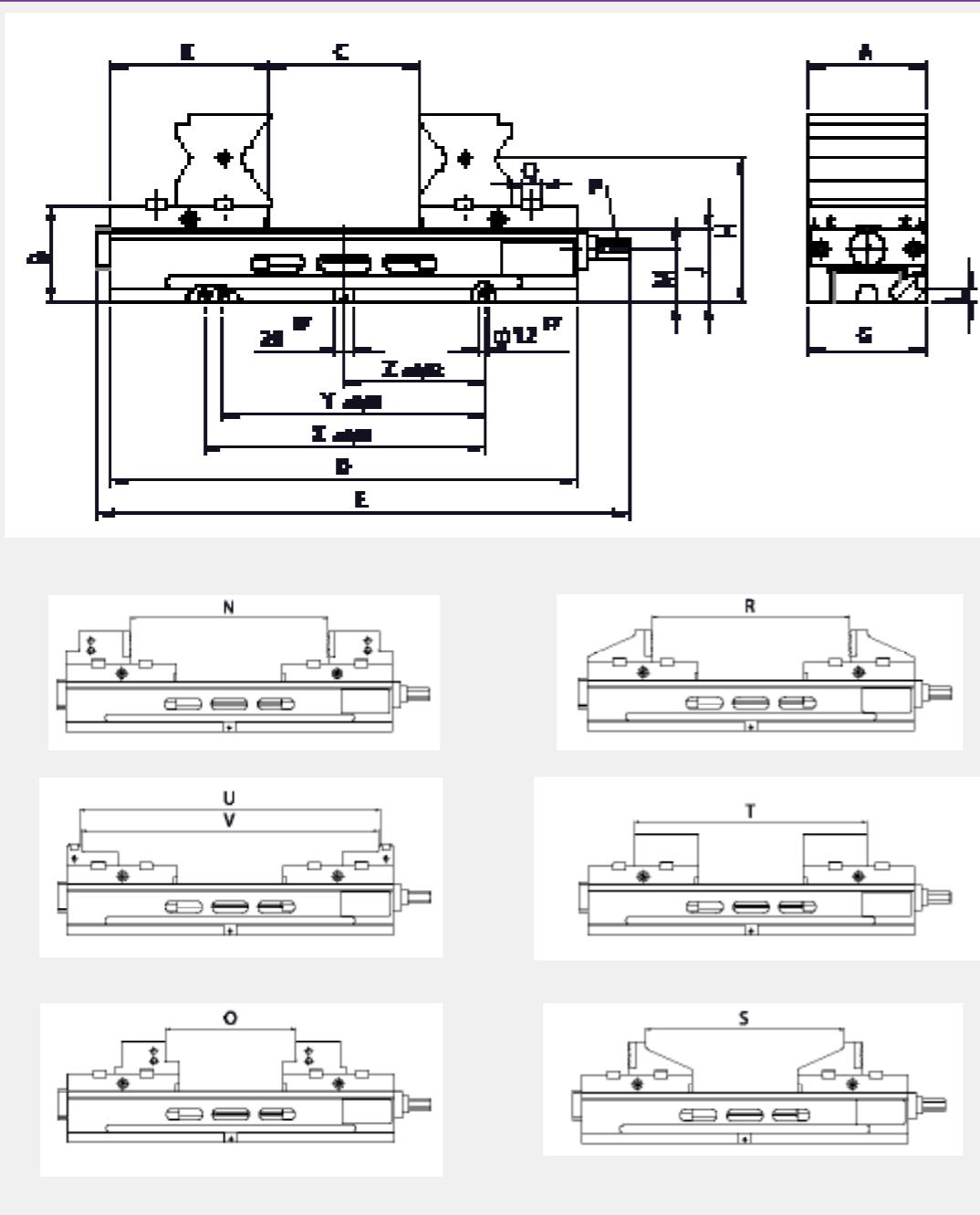
Spindle drive

Optionally, mechanic or motorised version

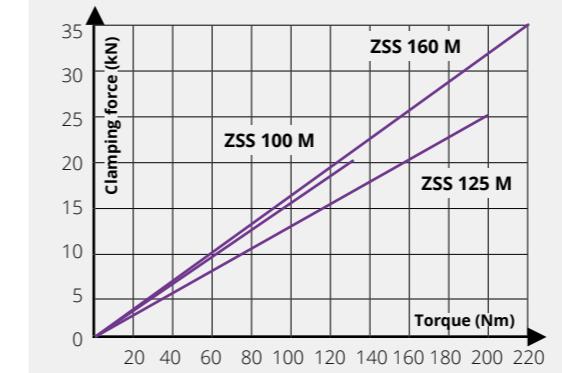
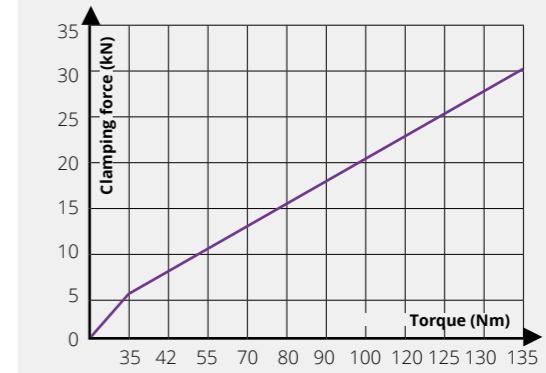




ZSS-M & ZSS-MOT

Technical drawing

Technical specifications

Jaw width	A	100	125	160
Order No. ZSS-M without jaws		03411A 03411A000100	03511A 03511A000100	03611 03611000100
B-0,03	96	105	125	
Bed length	D	350	500	650
Overall length	E	408	567	733
Total width	G	104	127	162
Center point	H	130	155	211
Bed height	J h7	78	78	90
Clamping slide	K	118	170	200
L	14	16	16	
M	63	58	64	
Hexagonal connection SW	P	17	17	19
Q	20h7	19.8h7	19.8h7	
X	300	300	400	
Y	-	280	-	
Z	150	150	200	
Clamping range with prismatic jaws		Ø 20-100	Ø 30-150	Ø 30-240
Span	C	114	160	250
Span	N	0-219	0-300	0-398
Span	O	32-252	42-340	30-430
Span	R	0-219	0-300	-
Span	S	86-308	147-447	-
Span	T	118-336	198-500	-
Span	U	10-310	10-455	622
Span	V	90-300	155-450	616
Weight	kg	26.4	53.5	98
Clamping force	kN/Nm	20/130	25/200	35/220

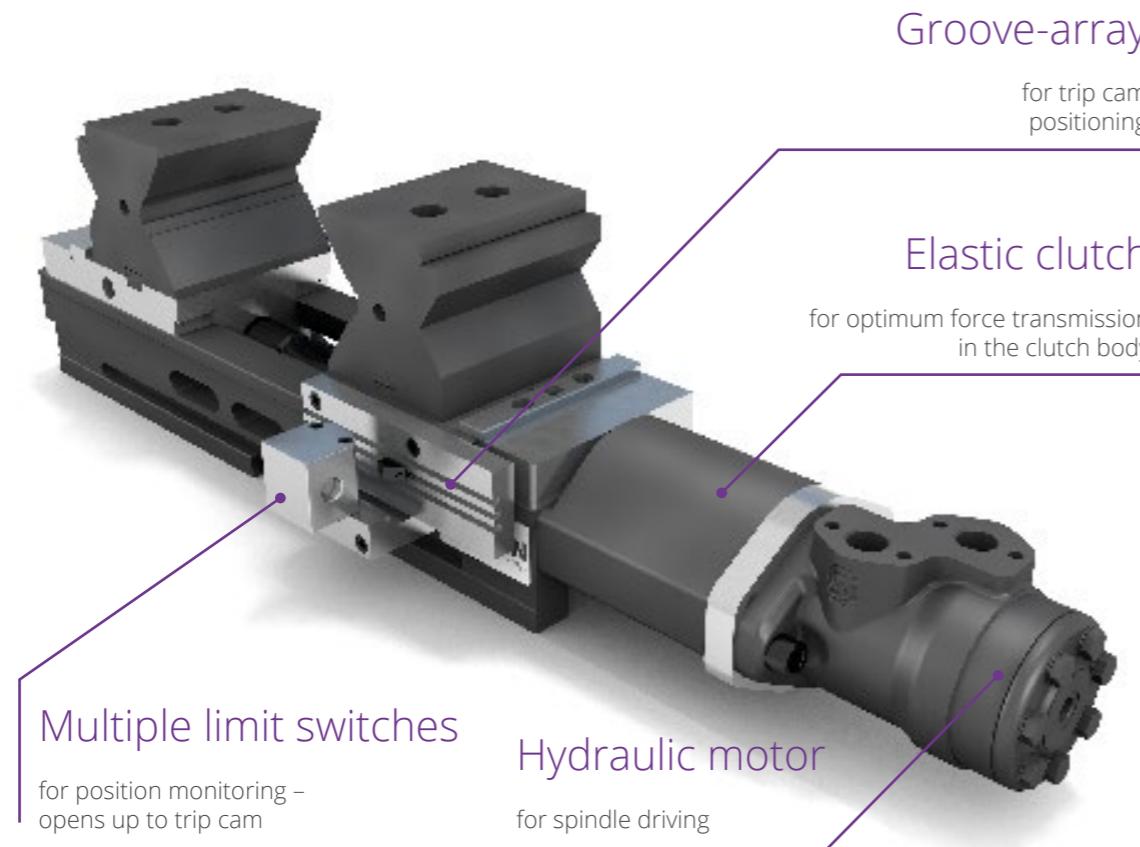
ZSS-M - span force diagram

ZSS 125 mot. with OMP 125 motor


NOTE: A hydraulic unit is necessary to operate motorised centring vice.



ZSS-MOT

Heavy-duty machining made easy: ZSS-MOT (hydraulic)



Technical specifications

Jaw width	A	100	125	160
Order No.		03451A	03551A	03651
without jaws		03451A000100	03551A000100	03651000100
Total length without clutch	E	547	610	-
Total length with clutch	E	-	792	972

For other dimensions see previous page



Type:

All-purpose vices

View
on-line:

UNI

System:

All-purpose vices for clamping device and workpiece automation, direct clamping on zero-point clamping systems, prepared for robot handling, adapter pallets for mounting on grid plates or automation systems.

Versions:

You can find an overview of our complete UNI vice family on the following spread.

Overview of our all-purpose vice family

Centring vices



Single vices



Direct adaptation to
all zero-point clamping
systems (NPSS) through
integrated vice foot



zero-point clamping system (NPSS) in integrated
directly in the vice foot



Gripper groove for
robot handling



Direct mounting on
the machine table



Mounting via base
on the machine table



Direct mounting on
automation pallets



Optional:
"fixed jaw on
the front"



Optional:
Integrated clamping
force measurement

Experience the automation solutions: all-purpose vices for zero-point clamping systems

Numerous accessories

Different jaws can be adapted to a particular application.

Automation compatible

Prefabricated with gripper groove for handling systems



Optional: Changeover slider

Changeover slider for multi-clamping.
Available in the following sizes: 80 and 125.

Suitable for each clamping system

For your zero-point clamping system or mounting on the machine table or with base on your own system.

The new generation of our UNI vices combines traditional precision and durability with innovative zero-point clamping and automation. On request, we also manufacture your vice for manufacturers of other zero-point clamping systems. Our Technology Department specialists will be happy to help you find a suitable solution.

Optional: Console

To ensure the best accessibility, especially for large tool holders or small workpieces. With groove for mounting on each machine table.



ZSS 65 AUT

Centring vice with mechanical design, for all zero-point clamping systems



Suitable accessories you can find starting from page 94



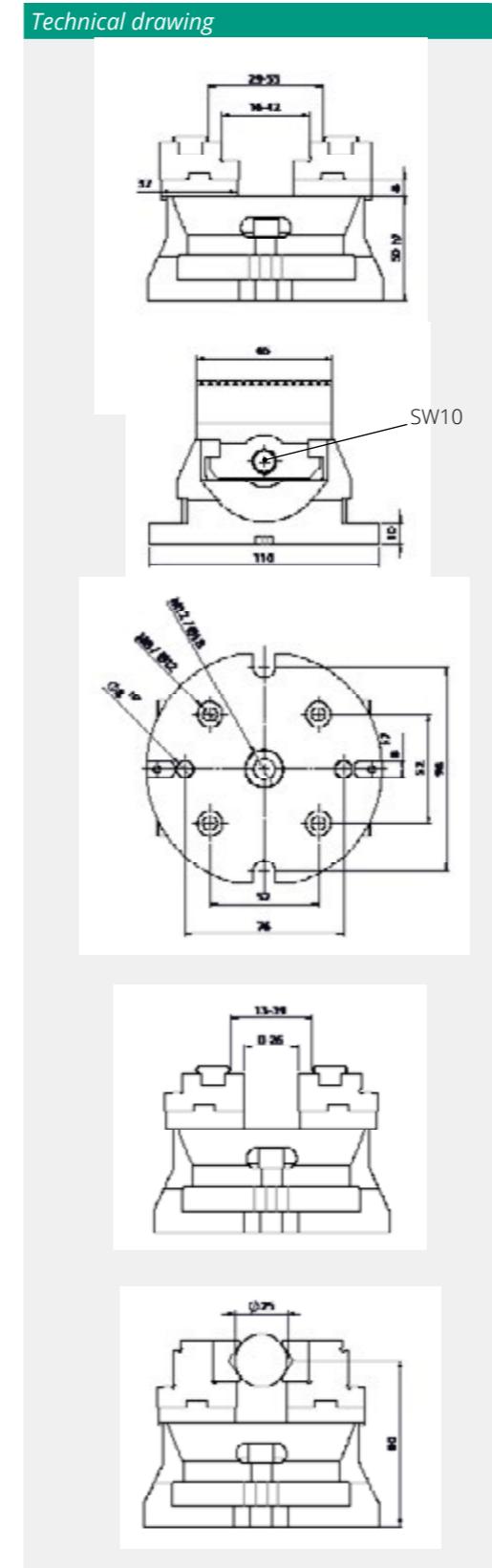
Support for NPSS

Suitable for handling systems

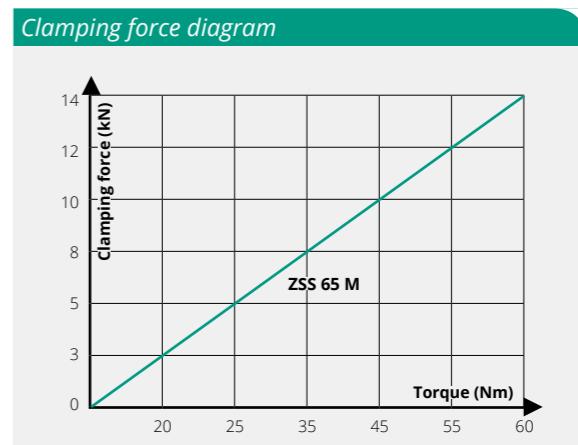
Machine table assembly

Impressive advantages:

- ◀ Compact design with reduced protruding edges: ideal for 5-axes machines and confined workspaces
- ◀ Lightweight model: particularly suitable for smaller handling systems
- ◀ Centring accuracy ± 0.1 mm (optional: ± 0.03 mm)
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar



Technical specifications	
Jaw width	65
Order No.	0321A100
Order No. without jaws	0321A1000100
... for Hirschmann 9000 including clamping spigots and two nuts	0321A100H9
... for AMF clamping station incl. four clamping nipples	0321A100AMF





ZSS 80 AUT

Centring vice with mechanical design, for all zero-point clamping systems


 Support for
NPSS

 Suitable for:
Handling systems

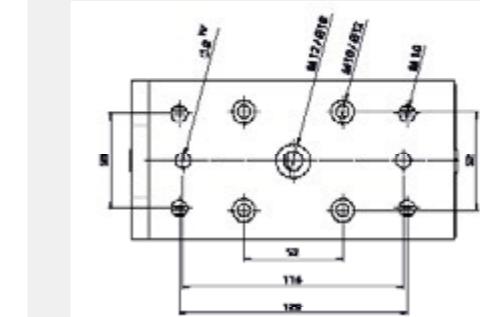
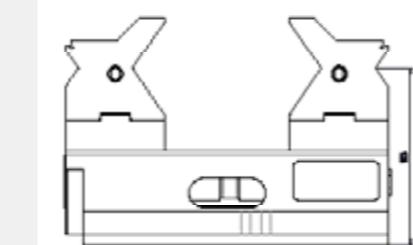
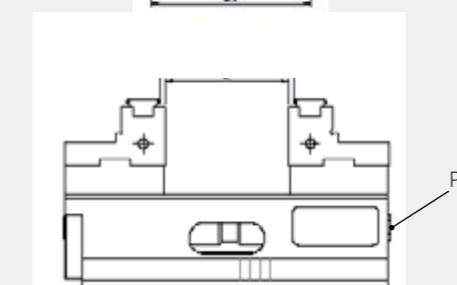
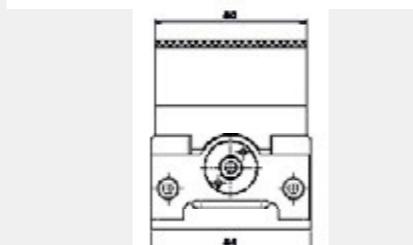
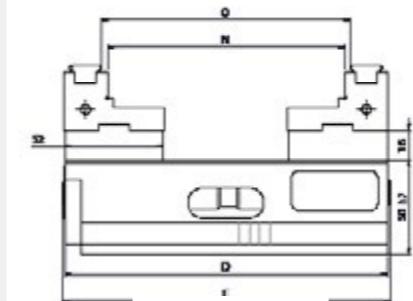
 Mounting with
Base

Suitable accessories you can find starting from page 94

Impressive advantages:

- ◀ 2 different bed lengths to choose from
- ◀ Ideal for medium and large workpieces
- ◀ Lightweight model for medium handling systems
- ◀ Centring accuracy ± 0.02 mm
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar

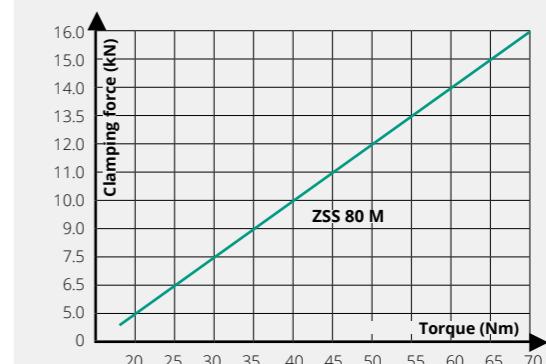
Technical drawing



Technical specifications

Jaw width	A	80	80
Order No.		0331A170	0331A200
without jaws		0331A1700100	0331A2000100
for Hirschmann 9000 including clamping spigots and two nuts		0331A170H9	0331A200H9
for AMF clamping station incl. four clamping nipples		0331A170AMF	0331A200AMF
Bed length	D	170	200
Overall length	E	172	202
Span	L	0.65	0.95
	M	6.71	6.101
	N	60-125	60-155
	O	66-131	66-161
Hexagonal connection SW	P	12	12
Centring accuracy		± 0.02	± 0.02
Weight	kg	6.2	6.7

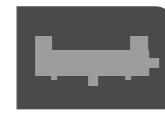
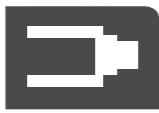
Clamping force diagram





ZSS 65 NPSS

All-inclusive: centring vice with integrated ze- ro-point clamping system


Integrated
NPSS

Suitable for:
Handling systems


Suitable
accessories
you can find
starting from
page 94

Technical specifications

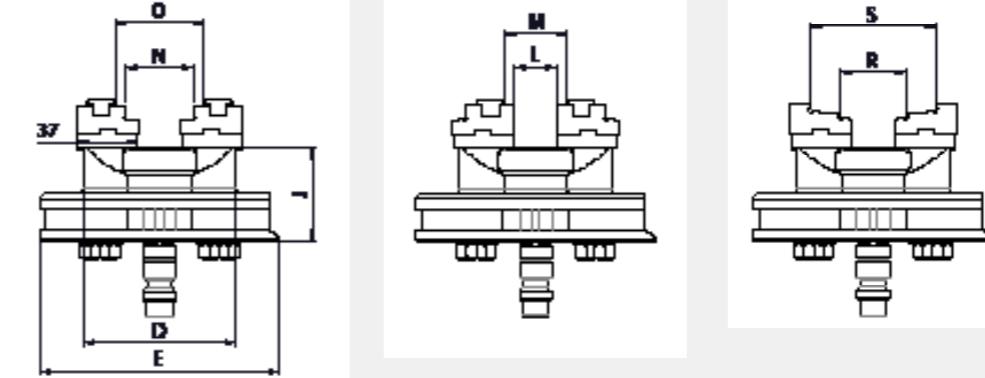
Jaw width	65	65	65	65	65
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for EROWA for EROWA for AMF for HIRSCHMANN PrisFix for HIRSCHMANN 9000

Order No.	0321ER000010	0321ER130010	03211A2	0321S130H510	0321S130H910
Bed length D	94	132	94	132	132
Overall length E	148	148	106	148	148
J h7	57,9	57,9	50	70	70
Hexagonal connection SW	10	10	10	10	10
Clamping range L	0-26	0-61	0-26	0-61	0-61
M	13-39	13-74	13-39	13-74	13-74
N	17-42	17-77	17-42	17-77	17-77
O	30-52	30-90	30-52	30-90	30-90
R	15-38	15-74	15-38	15-74	15-74
S	52-75	52-110	52-75	52-110	52-110
Centring acc. mm	±0,1	±0,1	±0,1	±0,1	±0,1
Weight kg	5,9	7,9	3,9	7,9	7,9

Technical drawing

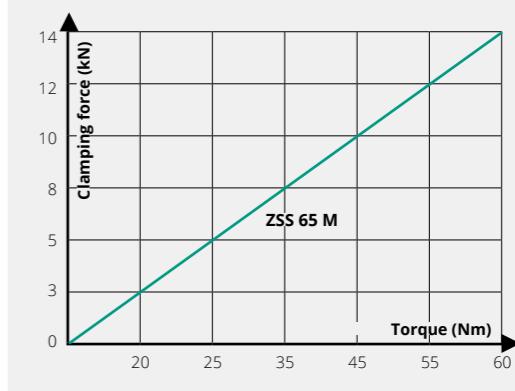


Impressive advantages:

- █ Centring vice with integrated range for zero-point clamping system
- █ available for the following zero-point systems: AMF K20, Erowa ITS, Hirschmann 5000 and Hirschmann 9000, other models upon request
- █ Basic equipment: 2 stepped jaw attachments with grip bar

Other
zero-point
clamping
systems upon
request

Clamping force diagram

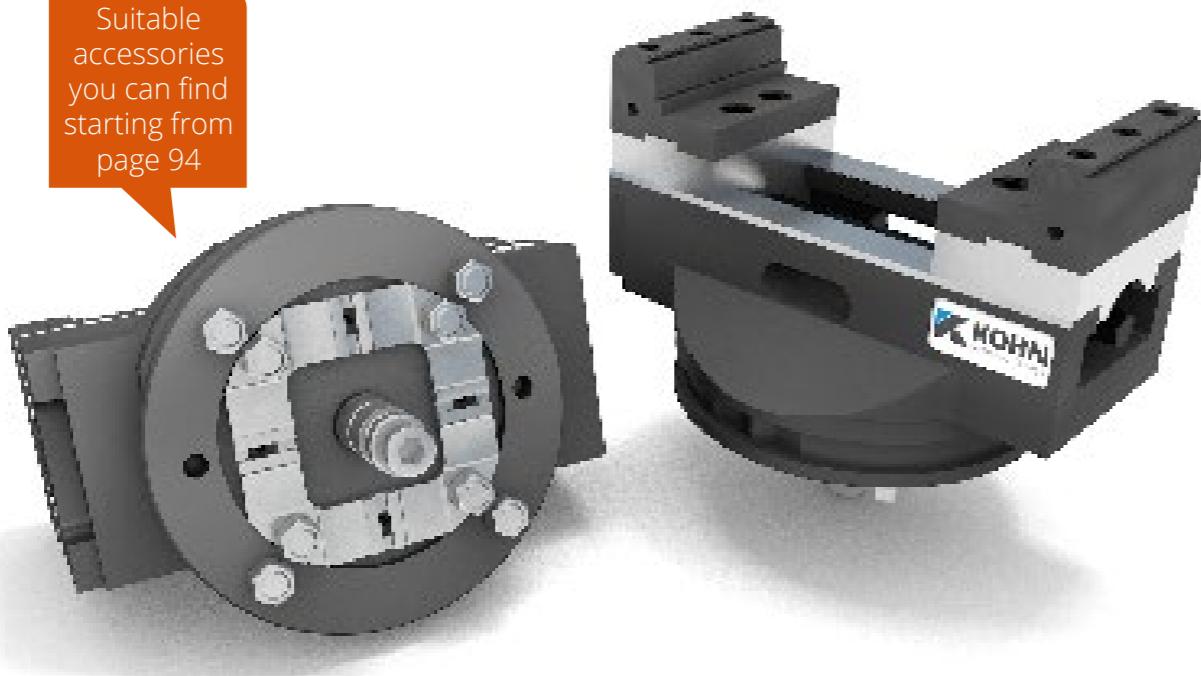




ZSS 80 NPSS

All-inclusive: centring vice with integrated zero-point clamping system

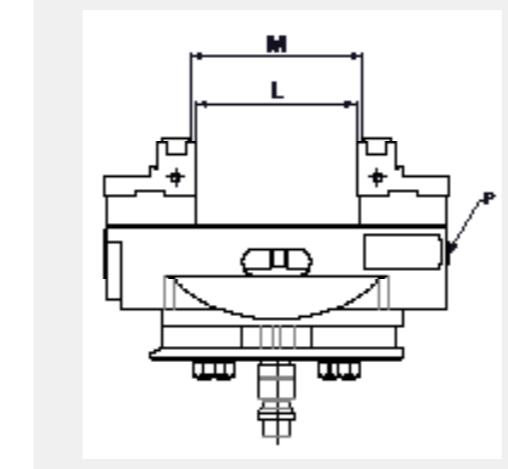
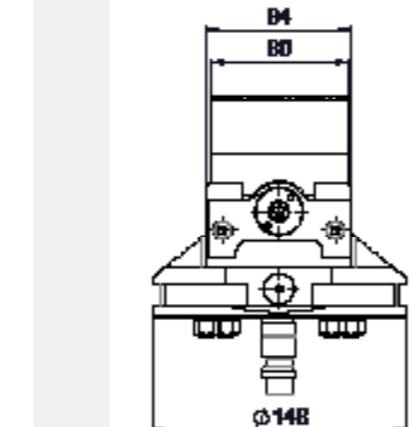
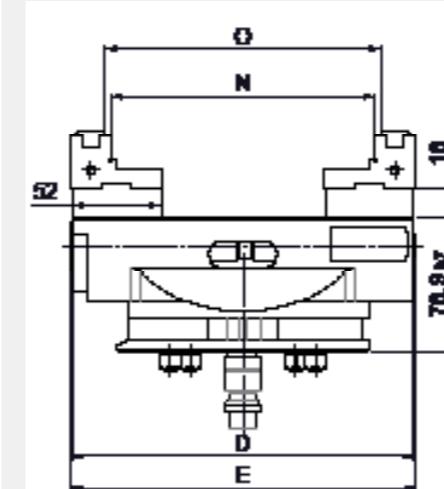
Suitable
accessories
you can find
starting from
page 94


Integrated
NPSS

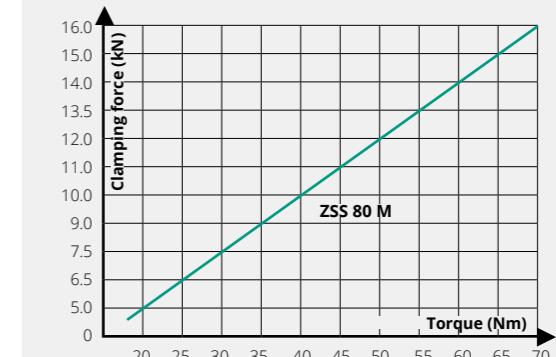
Suitable for:
Handling systems

Impressive advantages:

- ◀ Centring vice with integrated range for zero-point clamping system
Erowa ITS milled from solid material
- ◀ Other zero-point clamping systems upon request
- ◀ Centring accuracy ± 0.02 mm
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

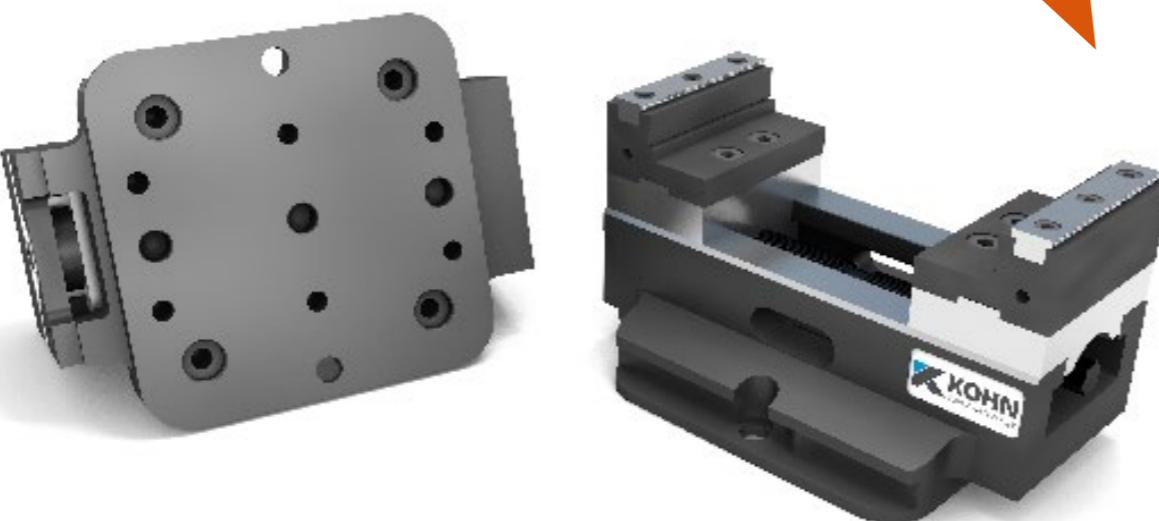
Technical drawing ZSS 80 NPSS

Technical specifications

	A	80	80
Order No.	Z3310ER	Z3311ER	
without jaws	Z3310ER00010	Z3311ER00010	
Bed length	D	170	200
Overall length	E	172	202
Span	L	0-65	0-95
	M	6-71	6-101
	N	60-125	60-155
	O	66-131	66-161
Hexagonal connection SW	P	12	12
Centring accuracy		± 0.02	± 0.02
Weight	kg	10,2	12

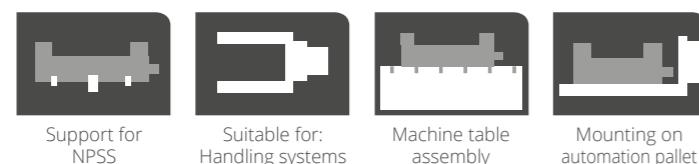
Clamping force diagram




ZSS 80 UNI AUT



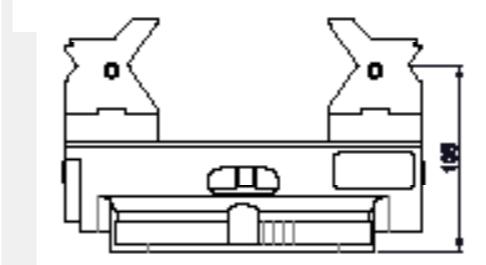
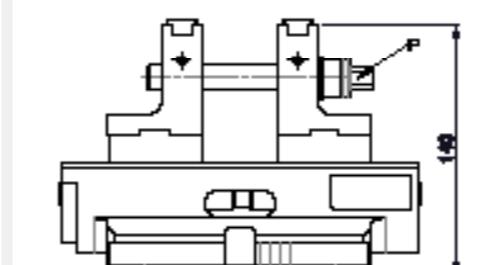
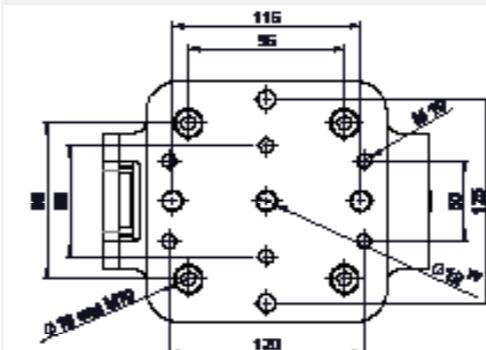
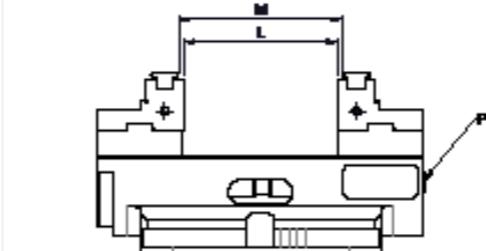
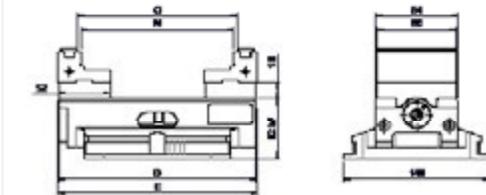
Suitable accessories you can find starting from page 94



Impressive advantages:

- █ Vice foot and bottom part in one piece milled from solid material, maximum stability and accuracy
- █ 2 different bed lengths to choose from
- █ A variety of different attachment and screw-in jaws as accessories
- █ Centring accuracy ± 0.02 mm
- █ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

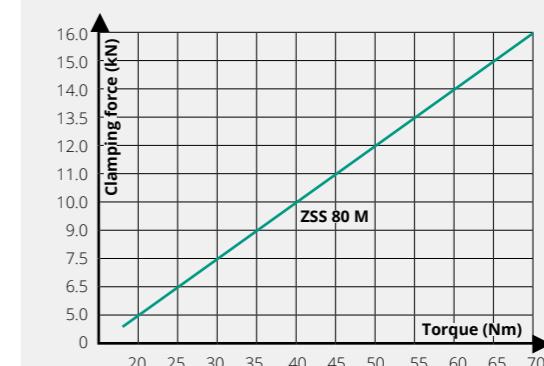
Technical drawing



Technical specifications

	A	80	80
Order No.	Z3310A	Z3311A	
without jaws	Z3310A000100	Z3311A000100	
Bed length	D	170	200
Overall length	E	172	202
Span	L	0-65	0-95
Span	M	6-71	6-101
Span	N	60-125	60-155
Span	O	66-131	66-161
Hexagonal connection SW	P	12	12
Centring accuracy		± 0.02	± 0.02
Weight	kg	8.3	8.8

Clamping force diagram



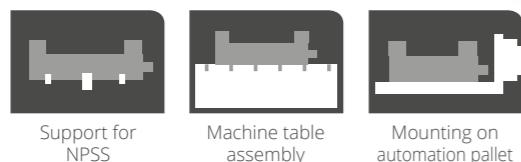
Stable centring vice for large dimensions



ZSS 125 UNI



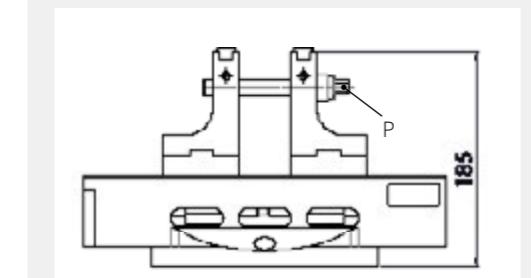
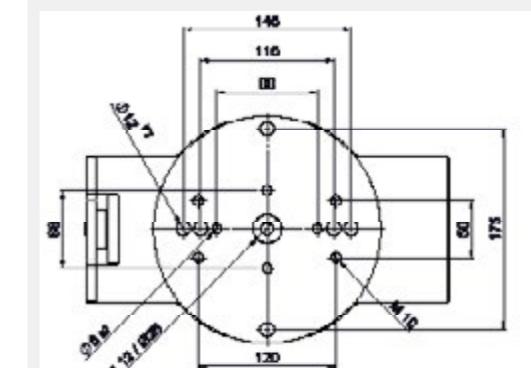
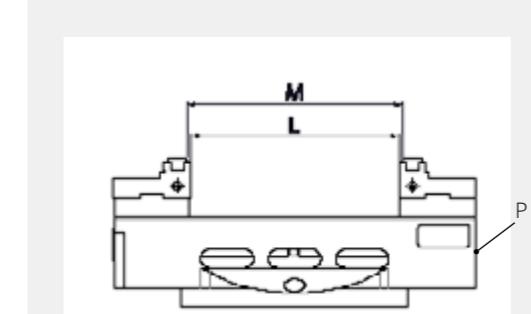
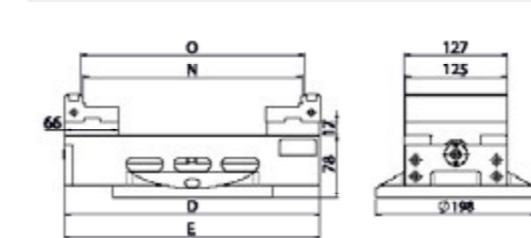
Suitable
accessories
you can find
starting from
page 94



Impressive advantages:

- █ Vice foot and bottom part in one piece milled from solid material, maximum stability and accuracy
- █ 2 different bed lengths to choose from
- █ A variety of different attachment and screw-in jaws as accessories
- █ Centring accuracy ± 0.02 mm
- █ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

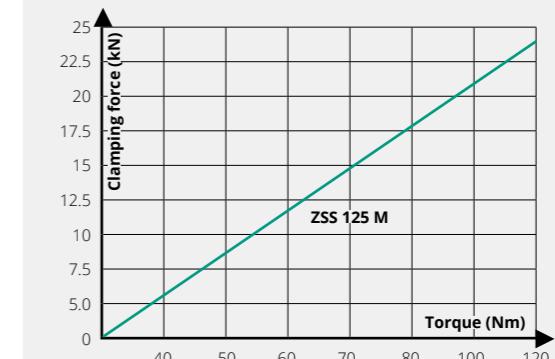
Technical drawing



Technical specifications

Jaw width	A	125	125
Order No.		Z3510	Z3511
without jaws		Z35100000100	Z35110000100
Bed length	D	245	315
Overall length	E	246	316
Span	L	0-112	0-182
Span	M	6-118	6-188
Span	N	88-200	88-270
Span	O	94-206	94-276
Hexagonal connection SW	P	14	14
Centring accuracy		± 0.02	± 0.02
Weight	kg	19.9	21.7

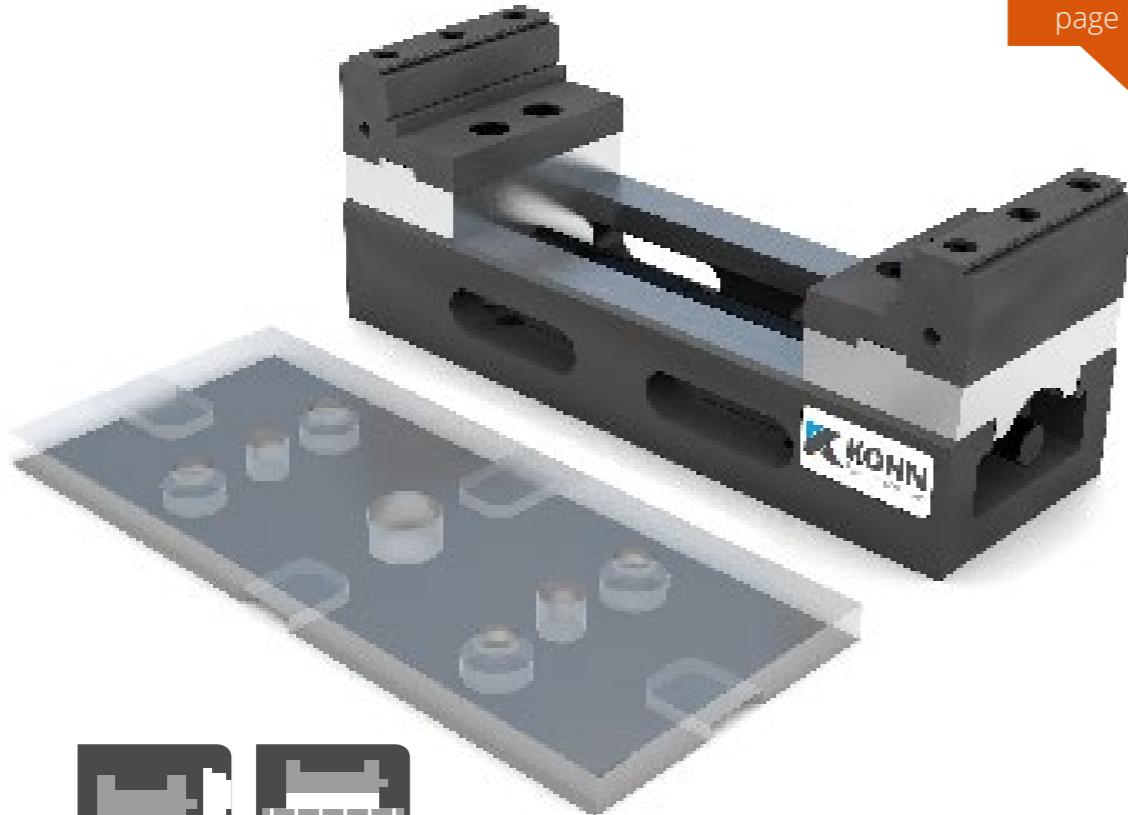
Clamping force diagram



Single centring vice used for a variety of purposes



ZSS 80 M



Mounting on
automation pallet



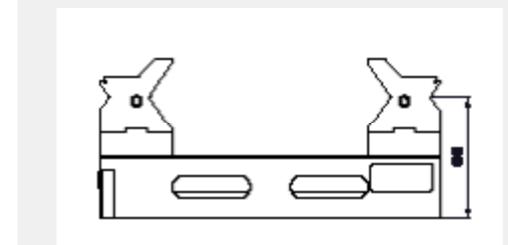
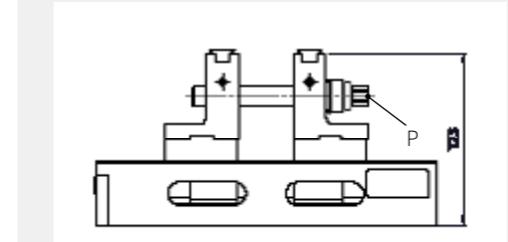
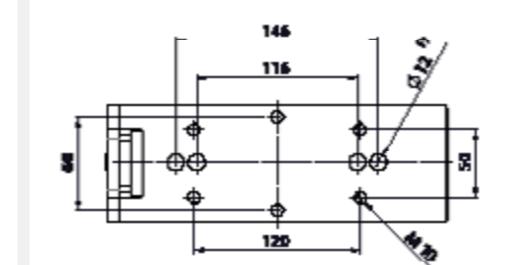
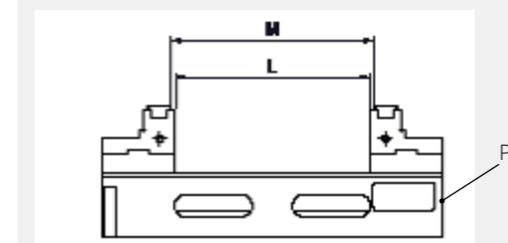
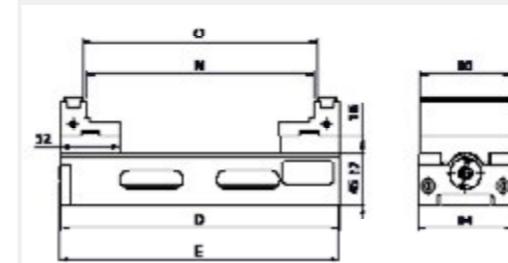
Mounting with
Base

Suitable
accessories
you can find
starting from
page 94

Impressive advantages:

- ◀ 3 different bed lengths to choose from
- ◀ A variety of different attachment and screw-in jaws as accessories
- ◀ Centring accuracy ± 0.02 mm
- ◀ Quick mounting with base, which is used as an adapter between vice and machine table.
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

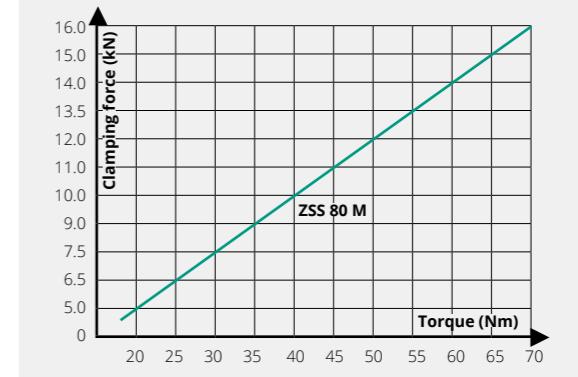
Technical drawing



Technical specifications

Jaw width	A	80	80	80
Order No.	0331S200	0331S245	0331S315	
without jaws	0331S200	0331S245	0331S315	
	0001	0001	0001	
Bed length	D	200	245	315
Overall length	E	201	246	316
Span	L	0-95	0-140	0-210
Span	M	6-101	6-146	6-216
Span	N	60-155	60-200	60-270
Span	O	66-161	66-206	66-276
Hexagonal connection SW	P	12	12	12
Centring accuracy		± 0.02	± 0.02	± 0.02
Weight	kg	5.4	5.5	6.7

Clamping force diagram





ZSS 125 M

Single centring vice used
for a variety of purposes for
heavy-duty machining


Mounting on
automation pallet

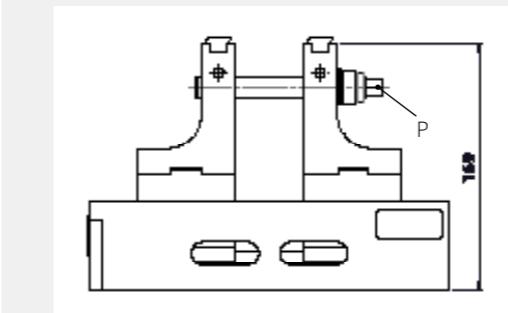
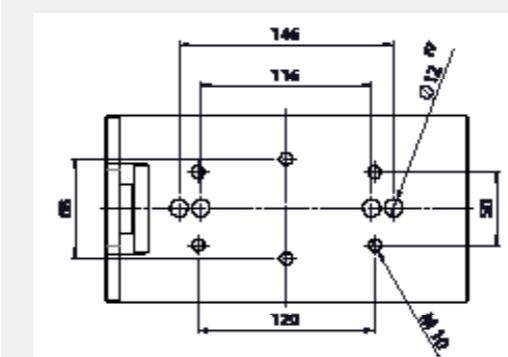
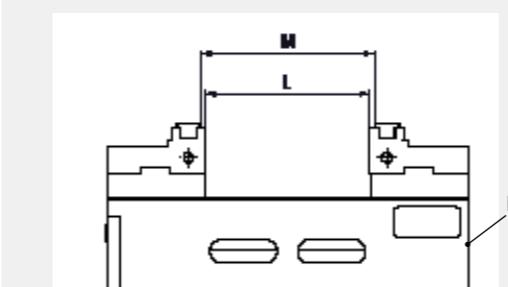
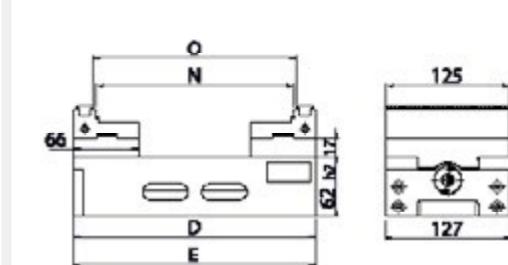
Mounting with
Base

Suitable
accessories
you can find
starting from
page 94

Impressive advantages:

- ◀ 2 different bed lengths to choose from
- ◀ A variety of different attachment and screw-in jaws as accessories
- ◀ Centring accuracy ± 0.02 mm
- ◀ Quick mounting with base, which is used as an adapter between vice and machine table.
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

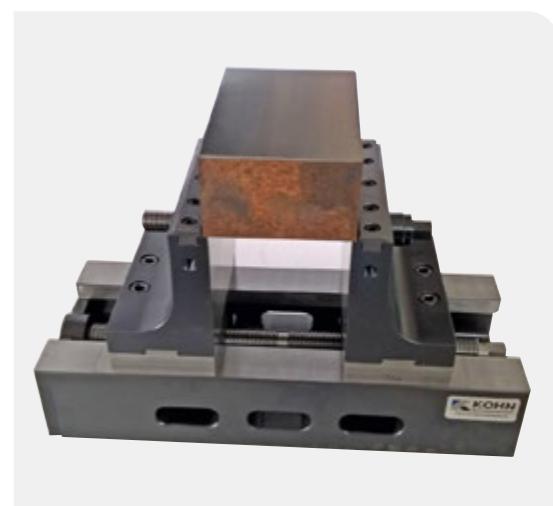
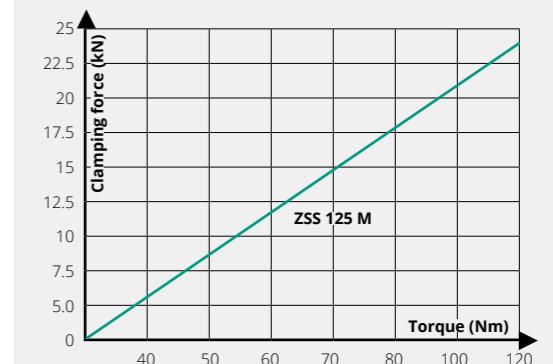
Technical drawing



Technical specifications

Jaw width	A	125	125
Order No.		0351S245	0351S315
without jaws		0351S245	0351S315
		0001	0001
Bed length	D	245	315
Overall length	E	246	316
Span	L	0-112	0-182
Span	M	6-118	6-188
Span	N	88-200	88-270
Span	O	94-206	94-276
Hexagonal connection SW	P	14	14
Centring accuracy		± 0.02	± 0.02
Weight	kg	12.7	15.5

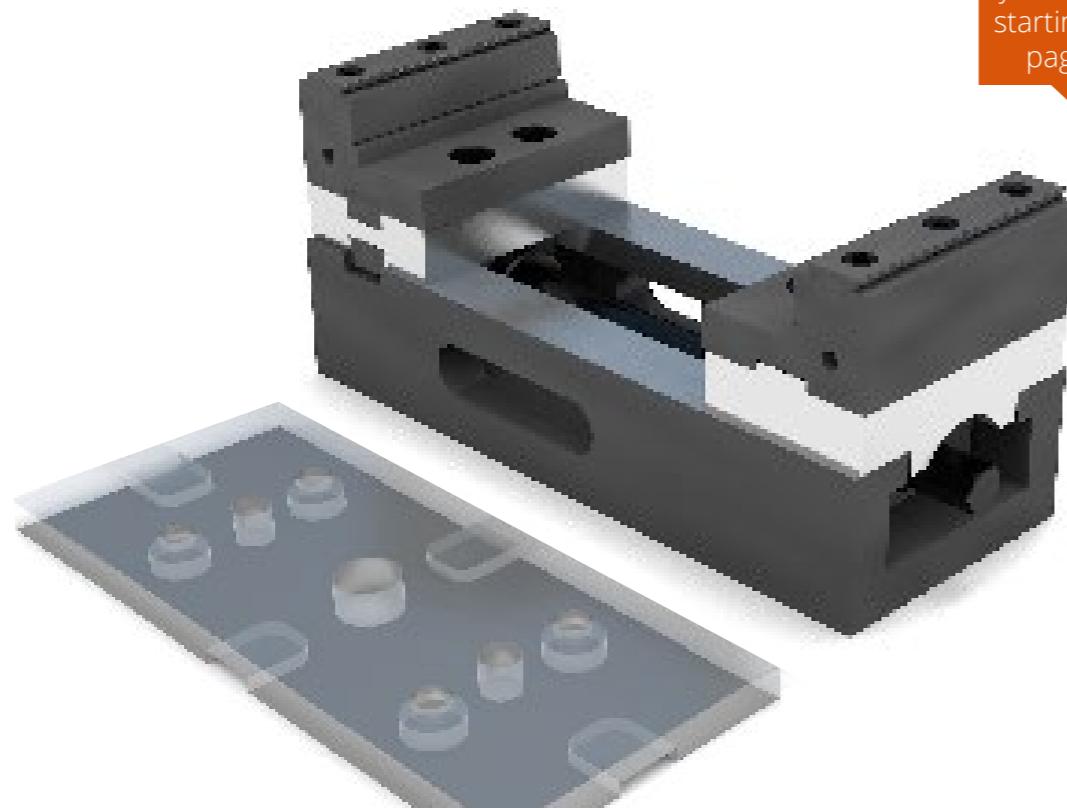
Clamping force diagram



Single vice used for a variety of purposes



ESS 80 M

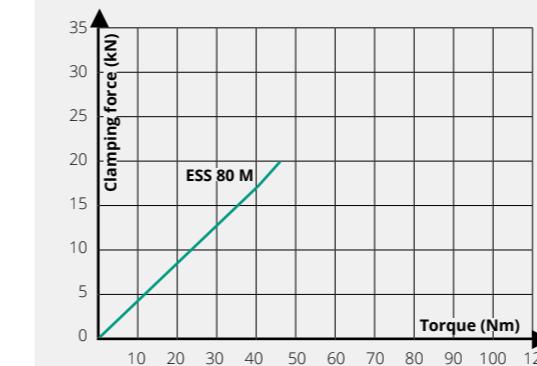

 Mounting with Base Mounting on automation pallet Optional:
"fixed jaw in front"

Impressive advantages:

- ◀ 2 different bed lengths to choose from
- ◀ A variety of different attachment and screw-in jaws as accessories
- ◀ Repeat accuracy ≤ 0.01 mm
- ◀ Fixed jaws secured on all levels (X,Y,Z)
- ◀ Quick mounting with base, which is used as an adapter between vice and machine table.
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

Suitable accessories you can find starting from page 94

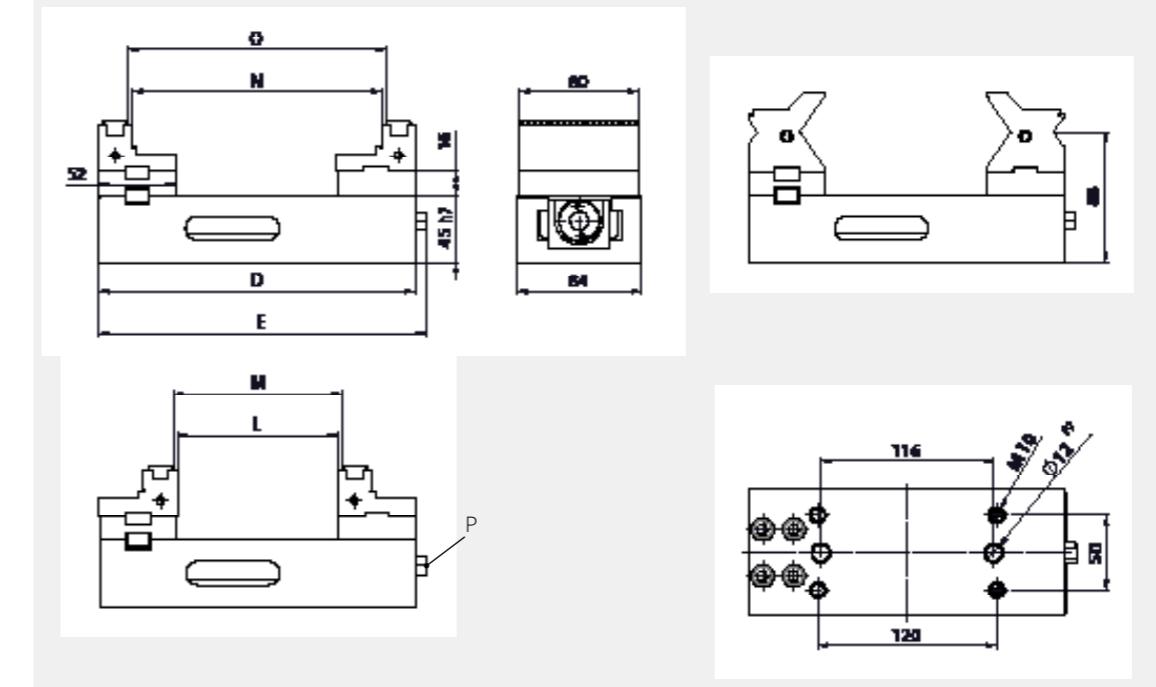
Clamping force diagram



Technical specifications

Jaw width	A	80	80
Order No.		01310IND	01311IND
without jaws		01310INDOB	01311INDOB
Bed length	D	212	246
Overall length	E	220	254
Span	L	0-107	0-141
Span	M	6-113	6-147
Span	N	60-167	60-201
Span	O	66-173	66-207
Hexagonal connection SW	P	12	12
Clamping force at 50 Nm	kN	22	22
Weight	kg	6.1	6.5

Technical drawing

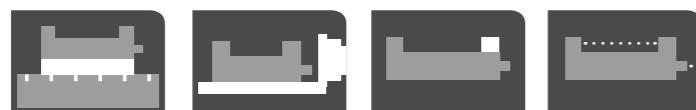


Single vice for heavy-duty machining



ESS 125 M

Suitable accessories you can find starting from page 94

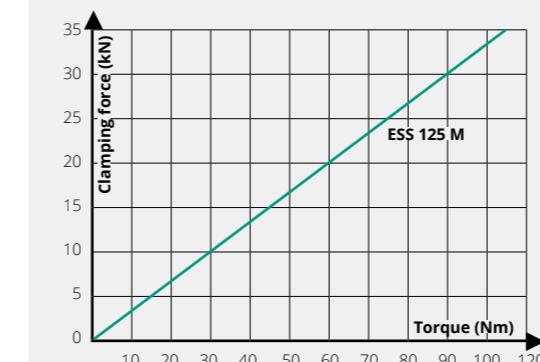


Mounting with Base Mounting on automation pallet Optional: "fixed jaw on the front" Optional: Clamping force measurement

Impressive advantages:

- ◀ 2 different bed lengths to choose from
- ◀ A variety of different attachment and screw-in jaws as accessories
- ◀ Repeat accuracy ≤ 0.01 mm
- ◀ Fixed jaws secured on all levels (X,Y,Z)
- ◀ Quick mounting with base, which is used as an adapter between vice and machine table.
- ◀ Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

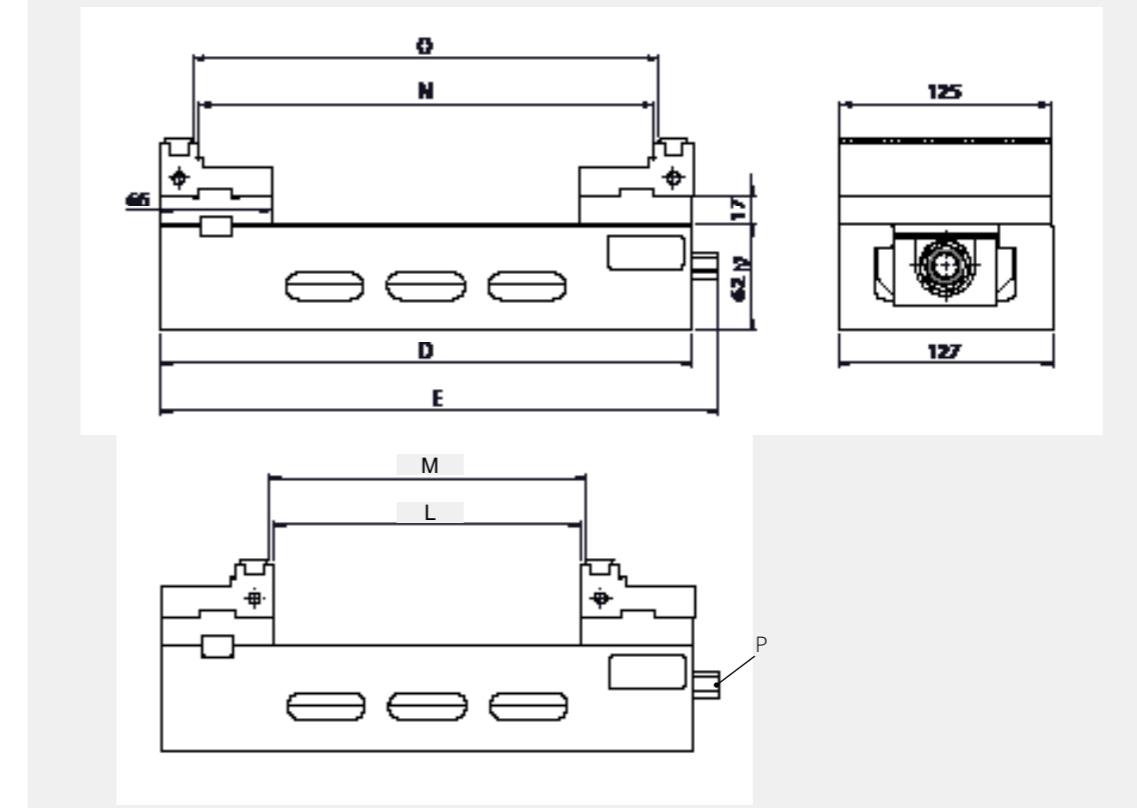
Clamping force diagram



Technical specifications

	A	125	125
Order No.	0151S245	0151S315	
without jaws	0151S245	0151S315	
	0001	0001	
Bed length	D	245	315
Overall length	E	261	331
Span	L	0-112	0-182
Span	M	6-118	6-188
Span	N	88-200	88-270
Span	O	94-206	94-276
Hexagonal connection SW	P	14	14
Clamping force at 115 Nm	kN	35	35
Weight	kg	12.7	15.5

Technical drawing



Clamping force measurement in the ESS vice



Absolute process safety during clamping. Plastics, aluminium and steel - you can now precisely monitor the pre-configured clamping pressures for each material, similar to your production process. The right step into the future in combination with the proven KOHN quality. Feel free to contact our Technology Department for any queries.

+ Force measurement via sensors:
before, during and after machining

+ Quick recognition of clamping errors and
optimum workpiece handling during cutting
process – minimises rejects and reduces
production costs

+ Continuous reading via stand-alone display
or control panel

+ Suitable for any standard interface

Type: 2-axes centring clamp

VZA

View
on-line:

System:

Complex parts reliably brought to
the centre

Versions:

Customised...

... bed lengths upon request.



VZA

VZA – clamping right in the centre:
Highest retention forces and precision
for maximum clamping performance!

Suitable
accessories
you can find
starting from
page 94

Central
workpiece clamping

Form-locked clamping via 4 sides internally
and externally.

Clamping range
up to 560 mm

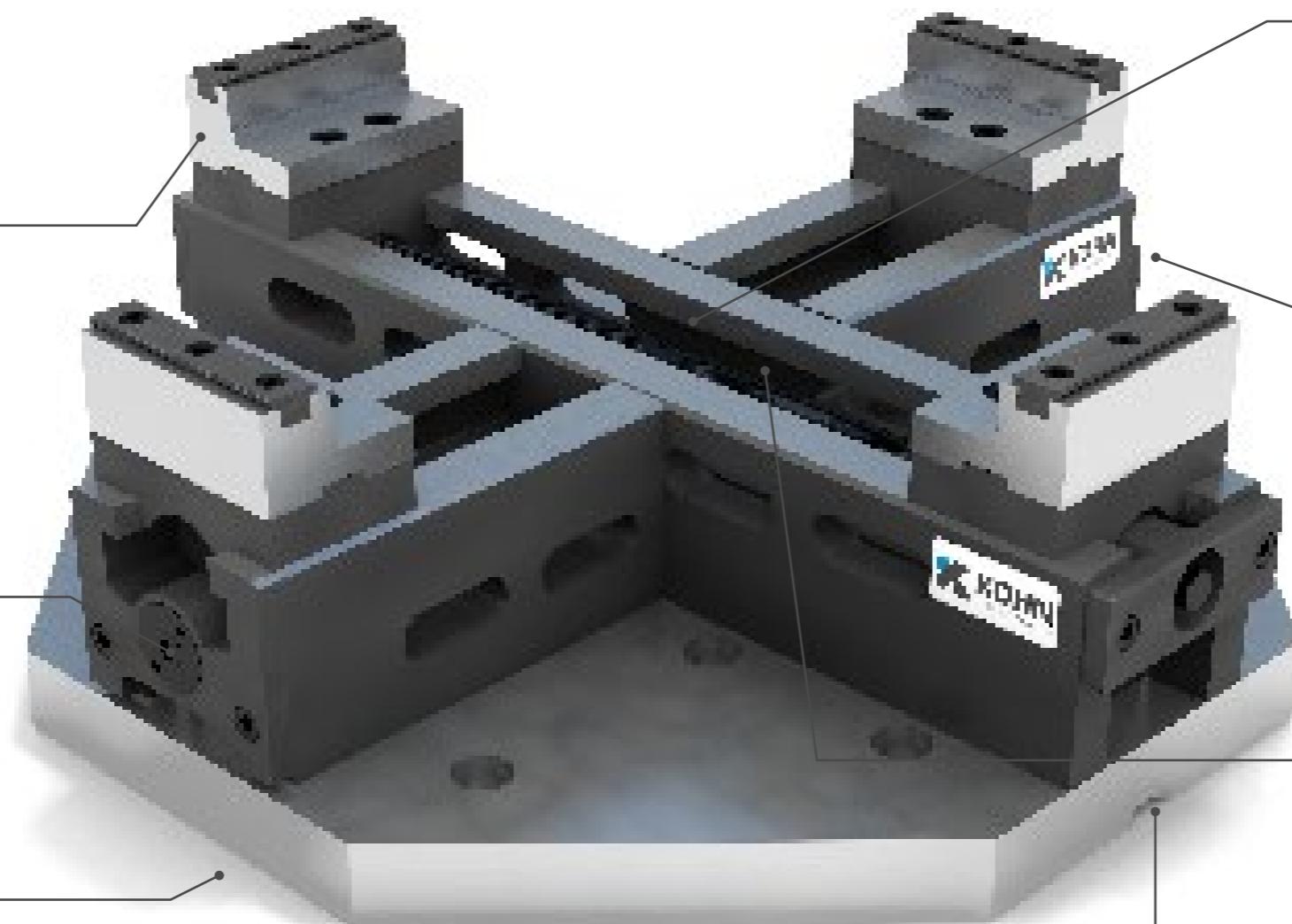
Workpieces up to Ø 560 mm can be
clamped with a bed length of 600 mm
by means of jaws.

High level
of
centring accuracy
 ± 0.02 mm

Two continuous spindles allow maxi-
mum precision.

Any zero-point
clamping systems

Can be adapted to any
zero-point clamping system



Optimal
use of space

Best accessibility and optimal machine
room utilisation open up countless possi-
bilities.

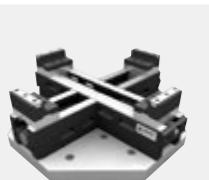
Easy
programming

When programming, just start from the
centre. It couldn't be easier:

Clamping right in the centre: the flexible solution, for example, for the mould maker. You can always clamp your material right in the centre by means of two axes. It couldn't be faster or easier. Any clamping size and base drilling pattern is feasible. Due to their excellent reproducibility, workpieces can be easily removed and reused. In addition, our wide range of jaws offers a number of customised clamping solutions.

Easy machine table
mounting

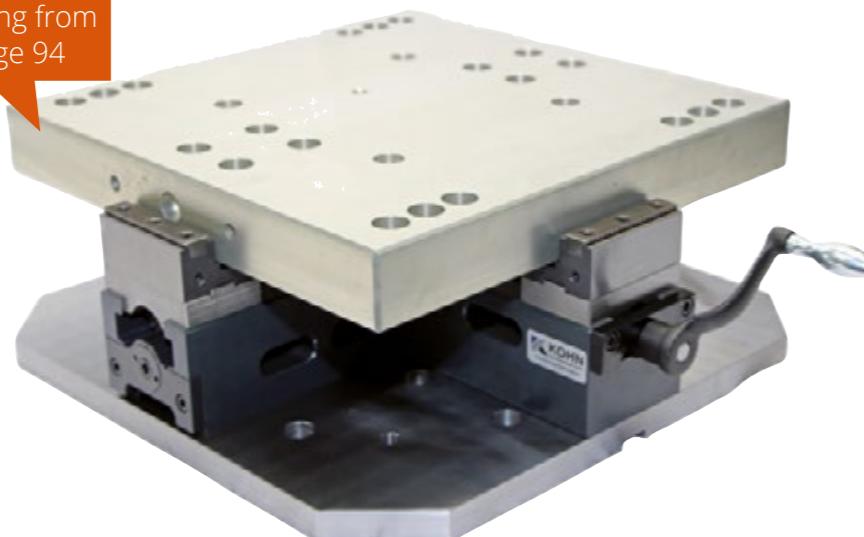
To be reproducibly mounted on each machine
table via centre hole and transverse groove



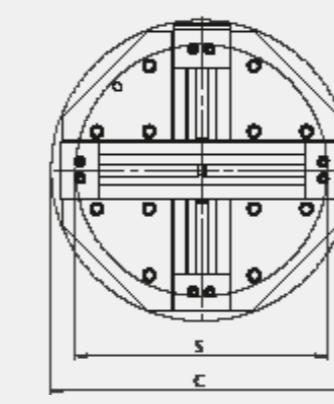
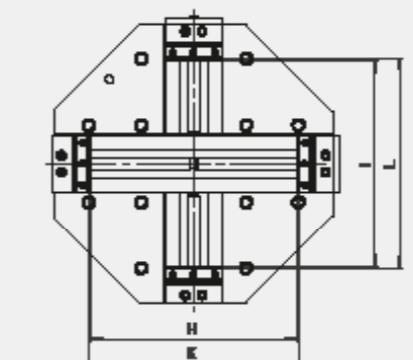
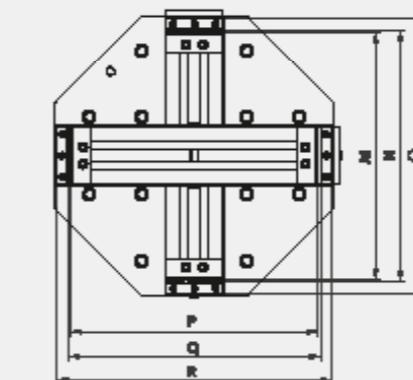
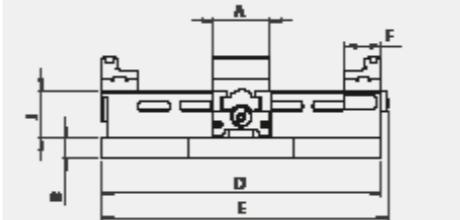
VZA

VZA – from the centre:
for the right base to ensure
the highest-quality workpieces!

Suitable
accessories
you can find
starting from
page 94



Technical drawing



Technical specifications

Jaw width	A	80	
Order No.		V3311	V3313
Bed length	D	400	500
Overall length	E	410x410	510x510
Interference range	C	Ø430	Ø525
Bed height	J h7	68	
Clamping slide	F	52	
Panel height	B	28	
Hexagonal connection SW		12	
Clamping range	H	0-290	0-390
	I	85-290	85-390
	K	10-300	10-400
	L	90-300	90-400
	M	145-350	145-450
	N	150-360	150-460
	O	185-390	185-490
	P	65-350	65-450
	Q	70-360	70-460
	R	100-390	100-490
	S	Ø100-360	Ø100-460
Weight	kg	55	70
Clamping force at 70 Nm	kN		16
Centring accuracy	mm	± 0.02	

Basic version: 4 stepped jaw attachments and grip bar, hand crank bent SW 12.

Other bed lengths upon request.



Accessories

Versions:

Screw-in jaws

starting from page 102

False jaws

starting from page 109

Changeover slider

starting from page 122

Grip bars

starting from page 124

Pull-down quick-change jaws

starting from page 126

Other accessories

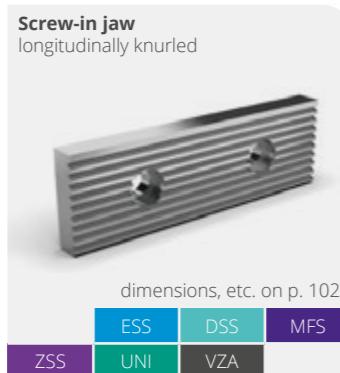
starting from page 129

Hydraulics (NEW)

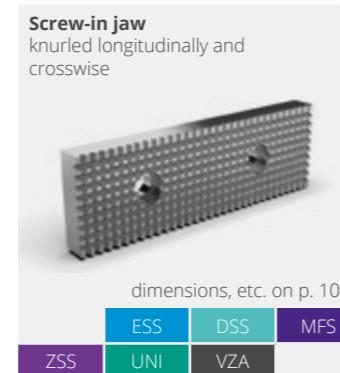
starting from page 142

Accessories Quickfinder

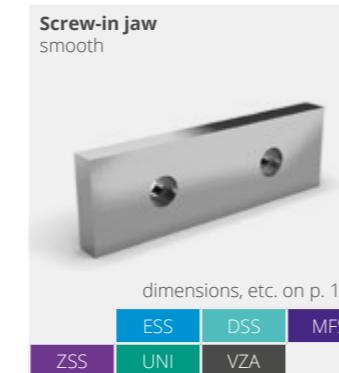
Screw-in jaws



Screw-in jaw
longitudinally knurled



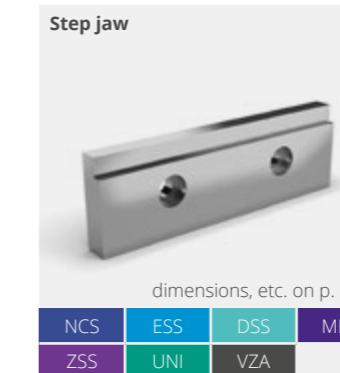
Screw-in jaw
knurled longitudinally and
crosswise



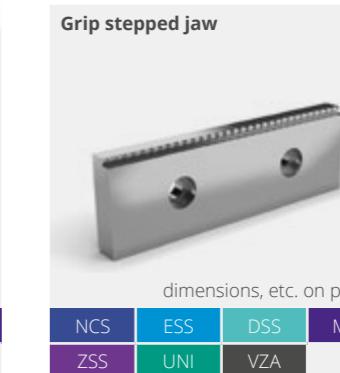
Screw-in jaw
smooth



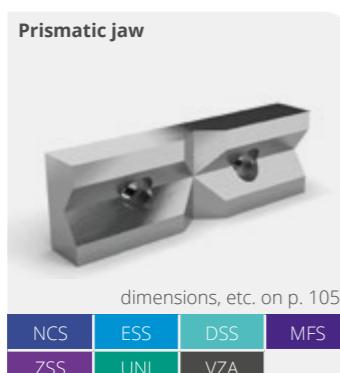
Soft clamping jaw
with grinding allowance



Step jaw



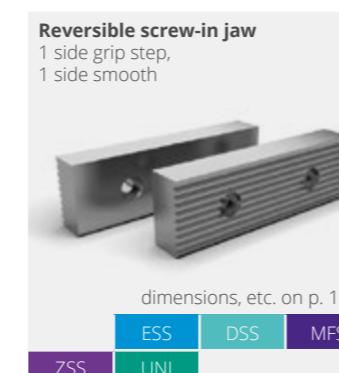
Grip stepped jaw



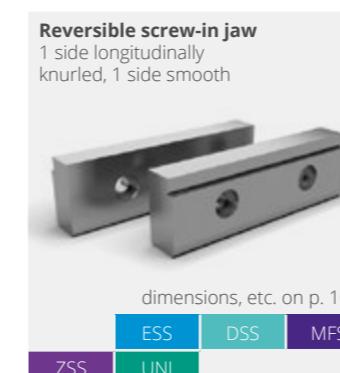
Prismatic jaw



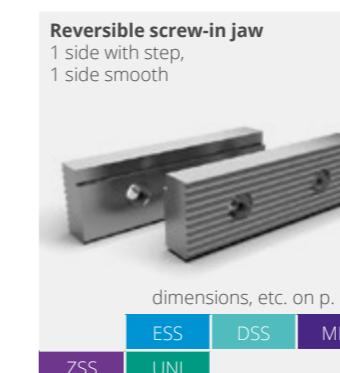
Prismatic jaw
horizontal and vertical



Reversible screw-in jaw
1 side grip step,
1 side smooth



Reversible screw-in jaw
1 side longitudinally
knurled, 1 side smooth



Reversible screw-in jaw
1 side with step,
1 side smooth



Reversible screw-in jaw
1 side with step,
1 side knurled longitudinally



Reversible screw-in jaw
1 side with longitudinal and
cross knurls, 1 side smooth

False jaws



Stepped jaw attachment



Stepped jaw attachment
with grip bar



Stepped jaw attachment
with grip bar



Stepped jaw attachment
with grip bar ZSS 65 (5-axis)



Stepped jaw attachment
with grip bar ZSS 80/125
(5-Axis) narrow step



Stepped jaw attachment
with grip bar ZSS 80 and
125 (5-axis)

>>>

Accessories Quickfinder

False jaws



Stepped jaw attachment
with grip

dimensions, etc. on p. 112

DSS | MFS



Stepped jaw attachment
for central jaw

dimensions, etc. on p. 113

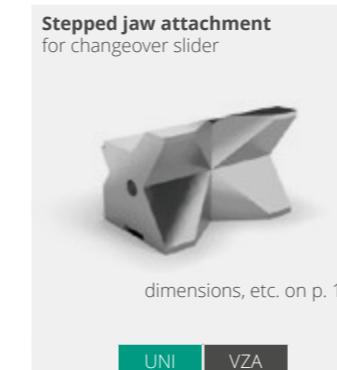
DSS | MFS



Stepped jaw attachment
for central jaw
with grip bar

dimensions, etc. on p. 113

NCS



Stepped jaw attachment
for changeover slider

dimensions, etc. on p. 114

UNI | VZA



Screw-in jaw
with groove for grip bar

dimensions, etc. on p. 114

ZSS



Prismatic jaw
(horizontal and vertical)
for 5-axis

dimensions, etc. on p. 115

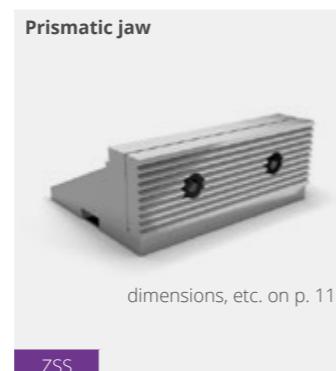
ZSS



Prismatic jaws as stand-
ard

dimensions, etc. on p. 115

ZSS



Prismatic jaw

dimensions, etc. on p. 116

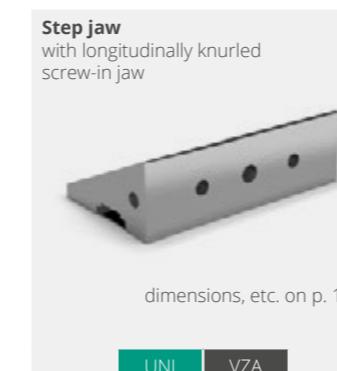
ZSS



Prismatic jaw
Ø 6 - Ø 32

dimensions, etc. on p. 116

UNI



Step jaw
with longitudinally knurled
screw-in jaw

dimensions, etc. on p. 117

UNI | VZA



Stepped jaw attachment
with longitudinally knurled
screw-in jaw

dimensions, etc. on p. 117

UNI



Stepped jaw/Main jaw
for ZSS 65

dimensions, etc. on p. 118

ZSS | UNI | VZA



False main jaw

dimensions, etc. on p. 118

UNI



False main jaw
for 5-axis

dimensions, etc. on p. 119

UNI

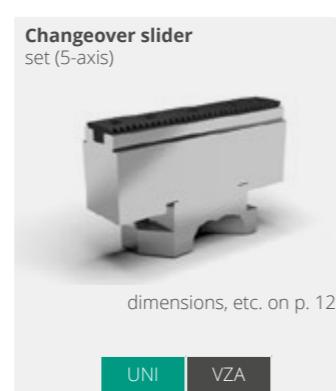
Changeover slider



Changeover slider
without screw-in jaws

dimensions, etc. on p. 122

ESS | DSS | MFS



Changeover slider
set (5-axis)

dimensions, etc. on p. 122

UNI | VZA



Changeover slider
NCS

dimensions, etc. on p. 123

NCS



Shim strip
for changeover slider (NCS)
nitrified

dimensions, etc. on p. 123

NCS | ESS | DSS | MFS

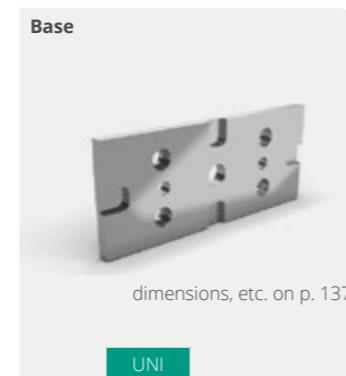
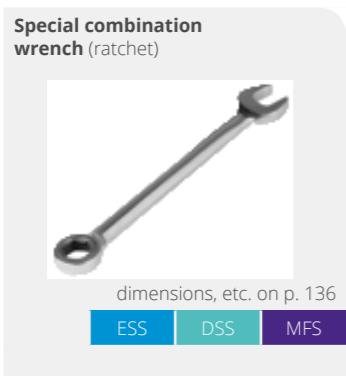
Accessories Quickfinder

Grip bars						
	dimensions, etc. on p. 124	dimensions, etc. on p. 124	dimensions, etc. on p. 125			
Pull-down-quick-change jaws						
	hardened and ground	hardened and ground	hardened and ground	hardened and ground	hardened and ground	hardened and ground
Other accessories						
	for secure fastening of workpiece material	for secure fastening of workpiece material		is mounted on the vice, clamping slider or in the central jaw	is attached to the central jaw or the clamping slider	for attaching the vice to the machine table
	suitable for clamping vices with a jaw width of 80 and 100 mm	straight or bent	straight or bent	for NCS	dimensions, etc. on p. 136	
	suitable for clamping vices with a jaw width of 125 and 160 mm	dimensions, etc. on p. 132	dimensions, etc. on p. 133	dimensions, etc. on p. 134	dimensions, etc. on p. 135	dimensions, etc. on p. 136

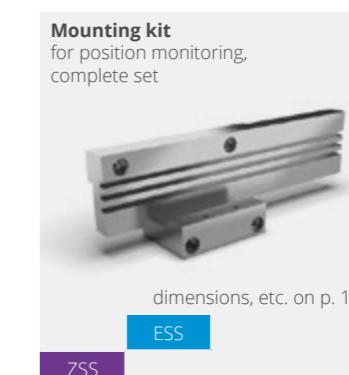
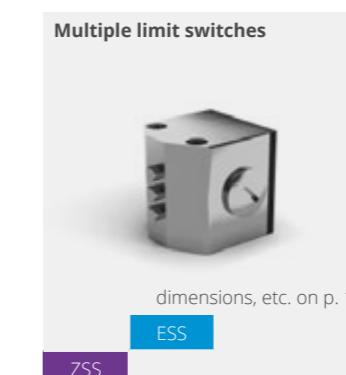
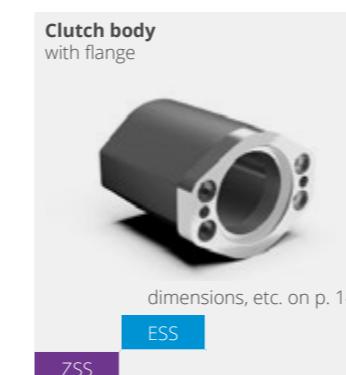
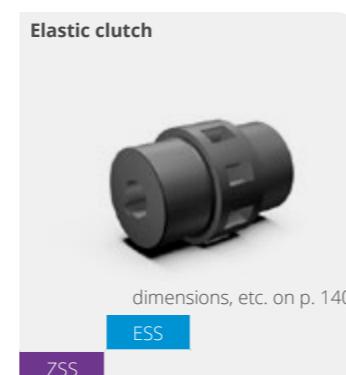
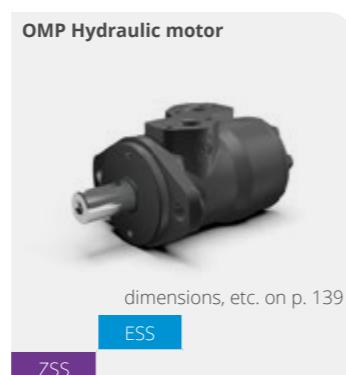
>>>

Accessories Quickfinder

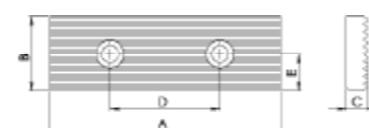
Other accessories



Hydraulic accessories

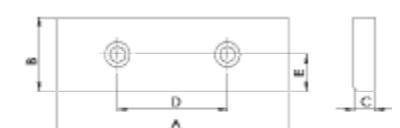


Screw-in jaw
longitudinally knurled



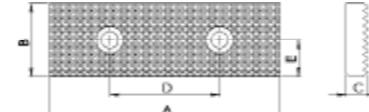
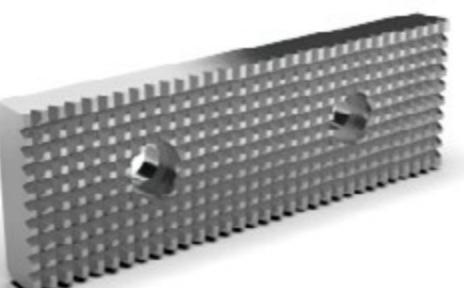
Size	Order No.	A	B*	C*	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210500	65,5	20	7,5	34	10		✓	✓			✓	
80	02310500	80,5	25	7,5	38	12,5		✓	✓	✓		✓	✓
100	02410500	100,5	30	9,5	43	15		✓	✓	✓	✓		
125	02510500	125,5	40	11,5	60	20		✓	✓	✓	✓	✓	
160	02610500	160,5	44	14,5	80	22		✓	✓				

Screw-in jaw
smooth



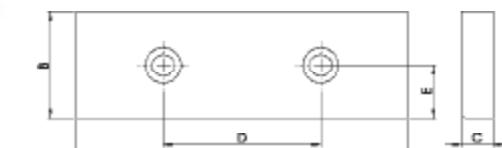
Size	Order No.	A	B*	C*	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210502	65,5	20	7,5	34	10		✓	✓			✓	
80	02310502	80,5	25	7,5	38	12,5		✓	✓	✓		✓	✓
100	02410502	100,5	30	9,5	43	15		✓	✓	✓	✓		
125	02510502	125,5	40	11,5	60	20		✓	✓	✓	✓	✓	
160	02610502	160,5	44	14,5	80	22		✓					

Screw-in jaw
knurled longitudinally and crosswise



Size	Order No.	A	B*	C*	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210501	65,5	20	7,5	34	10		✓	✓			✓	
80	02310501	80,5	25	7,5	38	12,5		✓	✓	✓		✓	✓
100	02410501	100,5	30	9,5	43	15		✓	✓	✓	✓		
125	02510501	125,5	40	11,5	60	20		✓	✓	✓	✓	✓	
160	02610501	160,5	44	14,5	80	22		✓	✓				

Soft clamping jaw
with grinding allowance



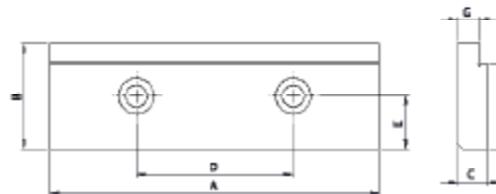
Size	Order No.	A	B	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210503	65,5	20,5	8	34	10,2		✓	✓			✓	
80	02310503	80,5	25,5	8	38	12,7		✓	✓	✓		✓	✓
100	02410503	100,5	30,5	10	43	15,2		✓	✓	✓	✓		
125	02510503	125,5	40,5	12	60	20,2		✓	✓	✓	✓	✓	
125	09520504	125,5	43,4	15,4	80	16,2		✓					
160	02610503	160,5	44,5	15	80	22,2		✓					

*Dimensions ± 0,01 mm

Stepped jaw

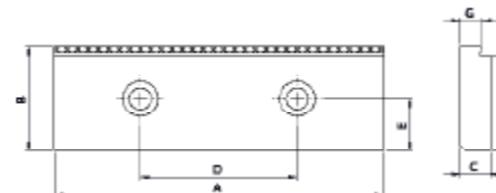


Other steps available upon request.



Size	Order No.	A	B*	C*	D	E	F*	G*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210504	65,5	20	7,5	34	10	16	4,5	✓	✓				✓	
80	02310510	80,5	25	7,5	38	12,5	21	4,5	✓	✓	✓			✓	✓
100	02410504	100,5	30	9,5	43	15	25	6,5	✓	✓	✓	✓			
125	02510504	125,5	40	11,5	60	20	32	8,5	✓	✓	✓	✓		✓	
125	09510504	125,5	43	11,5	80	16	35	8,5	✓						
160	02610504	160,5	44	14,5	80	22	34	11,5		✓					

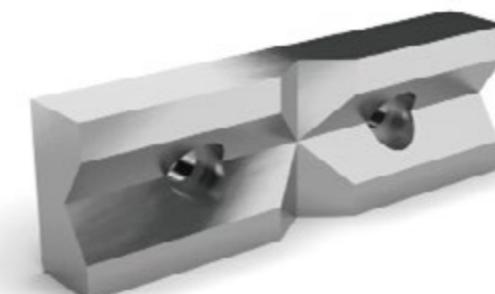
Grip stepped jaw



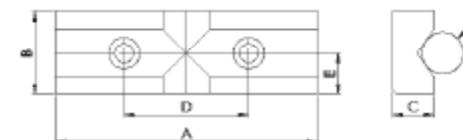
Size	Order No.	A	B*	C*	D	E	F	G	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	02310511	80,5	25	7,5	38	12,5	22	4,5	✓	✓	✓	✓	✓	✓	✓
100	02410511	100,5	30	9,5	43	15	27	6,5	✓	✓	✓	✓	✓		
125	02510511	125,5	40	11,5	60	20	37	8,5	✓	✓	✓	✓	✓	✓	
125	09510511	125,5	43	11,5	80	16	40	8,5	✓						
160	02610511	160,5	44	14,5	80	22	41	11,5		✓					
160	02610511	160	44	14,5	80	22	41	11,5		✓					

Prismatic jaw

horizontal and vertical, prisms with 110°

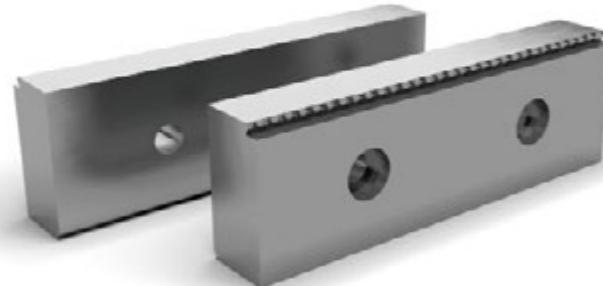
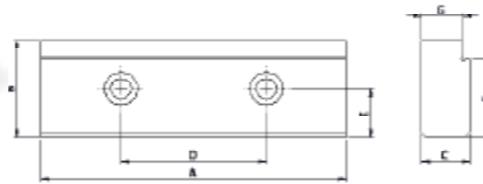


For using a prismatic jaw and a smooth jaw.



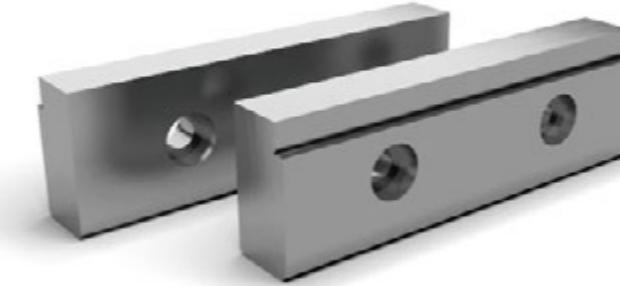
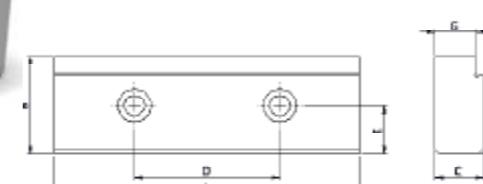
Size	Order No.	A	B*	C*	D	E*	F	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210509V	65,5	20	12,5	34	10	5-25		✓	✓				✓
80	02310509V	80,5	25	12,5	38	12,5	5-25		✓	✓	✓		✓	✓
100	02410509V	100,5	30	14,5	43	15	7-34		✓	✓	✓	✓		
125	08530509V	125,5	40	20	60	20	8-38		✓	✓	✓	✓	✓	
125	09510509S	125,5	43	20	80	16	8-38	✓						

Reversible screw-in jaw 1 side with grip step, 1 side smooth


Other sizes available on request.


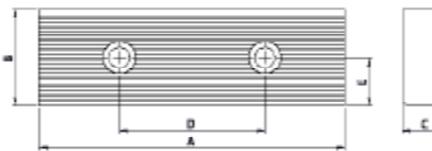
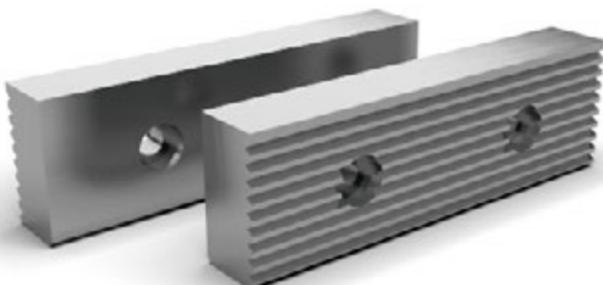
Size	Order No.	A	B*	C*	D	E	F	G	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08510511	125,5	40	20	60	20	37	17	✓	✓	✓			✓	

Reversible screw-in jaw 1 side with step, 1 side smooth


Other sizes available on request.


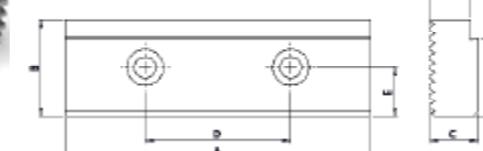
Size	Order No.	A	B*	C*	D	E	F*	G*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08530504	125,5	40	20	60	20	32	17	✓	✓	✓			✓	

Reversible screw-in jaw 1 side knurled longitudinally, 1 side smooth



Size	Order No.	A	B*	C*	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08530500	125,5	40	20	60	20	✓	✓	✓			✓	

Reversible screw-in jaw 1 side with step, 1 side knurled longitudinally

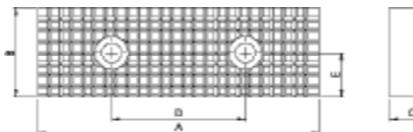
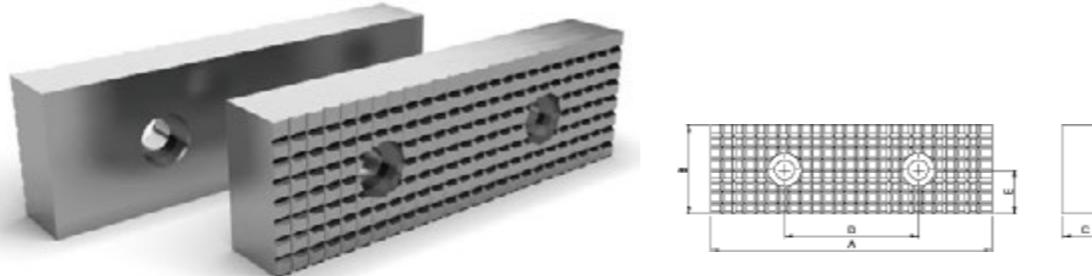

Other customised steps upon request.


Size	Order No.	A	B*	C*	D	E	F*	G*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08530506	125,5	40	20	60	20	32	17	✓	✓	✓			✓	

*Dimensions ± 0.01 mm

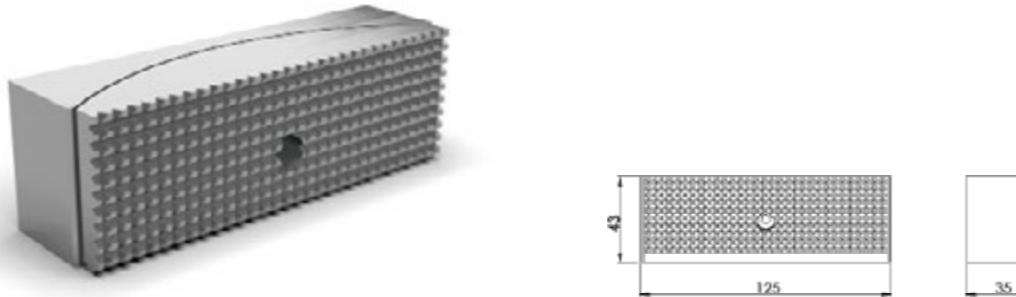
Reversible screw-in jaw

1 side with longitudinal and cross knurls, 1 side smooth

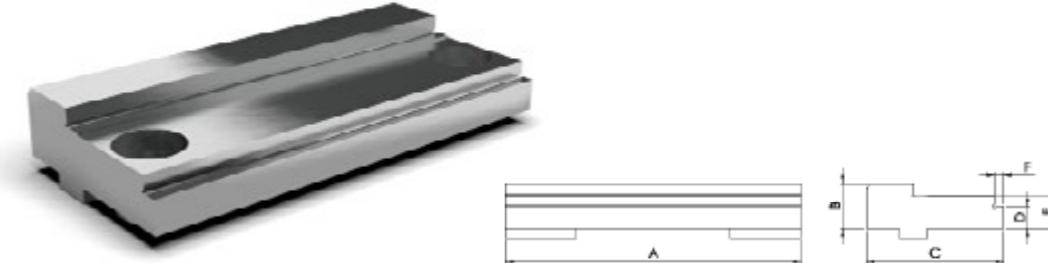


Size	Order No.	A	B*	C*	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08530507	125,5	40	20	60	20		✓	✓	✓			
125	09520500	125,5	43	15	80	16		✓					

Pull-down jaw with spring leaf



Stepped jaw attachment



Size	Order No.	A	B*	C	D	E	F	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	09510001		✓						✓	✓	✓	✓	✓	

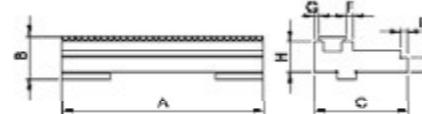
Size	Order No.	A	B	C	D*	E*	F	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	08330510	80	16,5	48	6,5	11,5	4		✓	✓	✓			
100	08430510	100	16,5	48	6,5	11,5	4		✓	✓	✓			
125	08530510	125	19	58	9	14	4		✓	✓	✓	✓		
160	08630510	160	22	64	12	17	4		✓		✓			

*Dimensions ± 0,01 mm

Stepped jaw attachment
with grip bar



Various grip bars can be mounted.

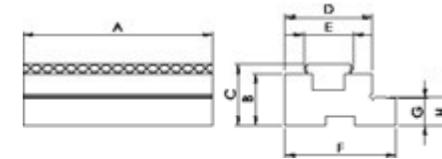


Size	Order No.	A	B	C	D*	E	F	G	H*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	02310025-1	80	23,6	48	6,5	4	3	3	16,5	✓	✓	✓				
100	02410025-1	100	23,6	48	6,5	4	3	3	16,5	✓	✓	✓				
125	02510025-1	125	26,1	58	9	4	4	3	19	✓	✓	✓	✓			
160	02610025-1	160	29,1	64	12	4	4	3	22	✓	✓					

Stepped jaw attachment
with grip bar

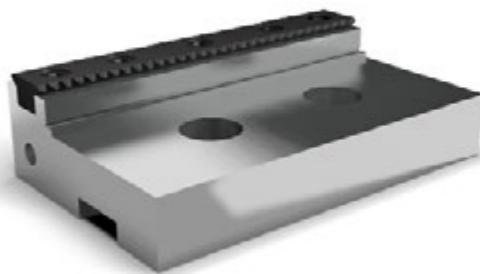


Various grip bars can be mounted.

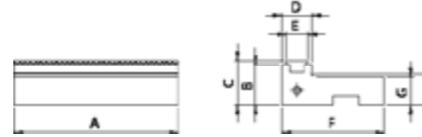


Size	Order No.	A	B*	C	D	E	F	G	H*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	03210012-1	65	18	21	30	17	38	9	9,5					✓		
80	03210014-1	80	18	21	30	17	38	9	9,5					✓		

Stepped jaw attachment
with grip bar

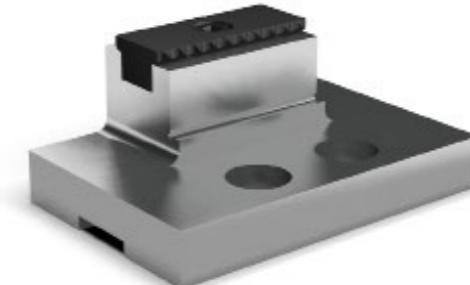


Various grip bars can be mounted.

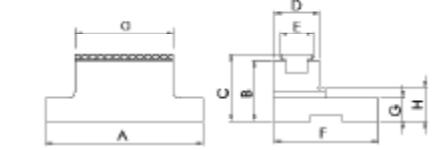


Size	Order No.	A	B*	C	D	E	F	G	H*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
100	03410512-1	100	31	34,1	23	17	65	20	22	✓						
125	03510512-1	125	31	34,1	23	17	78	21	23	✓						
160	03610512-1	160	31	34,1	23	17	116	21	23	✓						

Stepped jaw attachment
with grip bar



Various grip bars can be mounted.



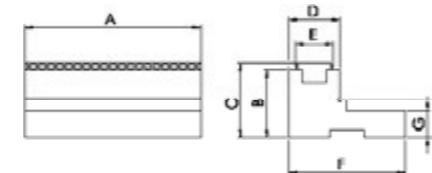
Size	Order No.	A/a	B*	C	D	E	F	G	H*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80/40	03310011-1	80/40	31	34	23	17	53	12	17	✓	✓					
80/50	03310010-1	80/50	31	34	23	17	53	12	17	✓	✓					
125/80	03510028S080-1	125/80	31	34	23	17	67	18	23	✓						

*Dimensions ± 0,01 mm

Stepped jaw attachment
with grip bar



Various grip bars can be mounted.



Size	Order No.	A	B*	C	D	E	F	G	H*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	03310009-1	80	31	34	23	17	53	12	17	✓	✓					
80	03310012-1	100	31	34	23	17	53	12	17	✓	✓					
80	03310018-1	125	31	34	23	17	53	12	17	✓	✓					
125	03510026-1	125	31	34	23	17	67	18	23	✓						

Stepped jaw attachment
for central jaw



Size	Order No.	A	B*	C*	D	E*	F*	G	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	08330520	80	6,5	11,5	16,5	24	32	40	✓	✓					
100	08430520	100	6,5	11,5	16,5	24	32	40	✓	✓					
125	08530520	125	9	14	19	30	38	46	✓	✓					
160	08630520	160	12	17	22	44	52	60			✓				

Stepped jaw attachment
for central jaw with grip bar



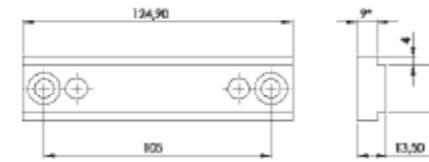
Various grip bars can be mounted.



Size	Order No.	A	B*	C*	D	E	F*	G*	H	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	08330521-1	80	6,5	11,5	16,5	20	24	32	40	✓	✓					
100	08430521-1	100	6,5	11,5	16,5	20	24	32	40	✓	✓					
125	08530521-1	125	9	14	19	23	30	38	46	✓	✓					
160	08630521-1	125	12	17	22	17	23	52	60			✓				

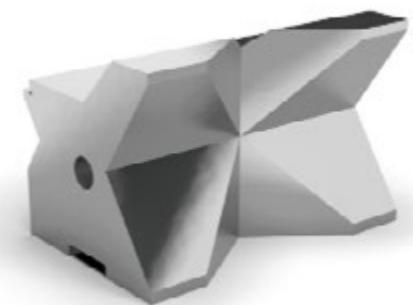
*Dimensions ± 0,01 mm

Stepped jaw attachment
for changeover slider

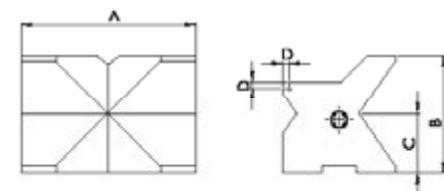


Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	09520033	✓						

Prismatic jaw
(horizontal and vertical) for
5-axes, prisms with 110°



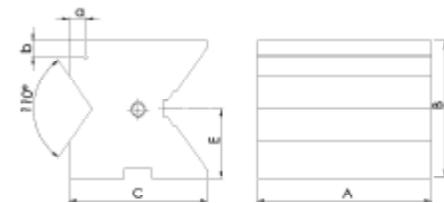
ClampØ	vertical	horizontal
Size 80	Ø 11-30	Ø 30-80



Size	Order No.	A	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	03310501V	80	53.5	27	3	✓						

Prismatic jaw
Standard

ClampØ	front	rear
Size 100	Ø 35-100	Ø 20-56
Size 125	Ø 52-150	Ø 30-80



Size	A	B	C	E	a	b	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
100	100	68	58	34	10	10	03410500	✓						
125	125	99	99	50	12	12	03510500							✓

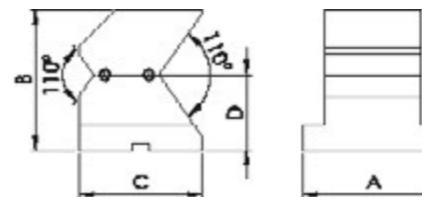
Set consisting of two prismatic jaws.

*Dimensions ± 0.01 mm

Prismatic jaw

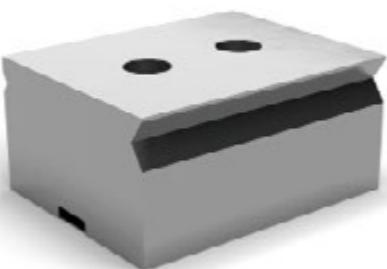


ClampØ	front	rear
Size 160	Ø 80-240	Ø 30-80



Size	Order No.	A	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
160	03610001S	160	160	140	86				✓			

Prismatic jaw Ø 6 – 32



Spann-Ø	vorne	hinten
Größe 100	Ø 12-32	Ø 6-14
Größe 125	Ø 12-32	Ø 6-13



Größe	B	E	Bestell-Nr.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
100	45	34	03410501				✓			
125	61	50	03510501				✓			

Setzbestellung für zwei Prismatic-Jawen.

Stepped jaw attachment
with screw-in jaw knurled longitudinally



You can find other suitable screw-in jaws starting from 102.



Size	B	a	b	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
100	44	3	5	03410510				✓			
125	50	3	8	03510510				✓			

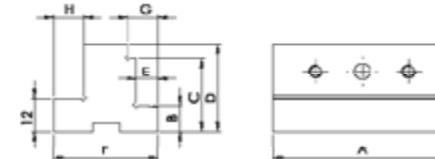
Set consisting of two stepped jaws with screw-in jaws.

*Dimensions ± 0.01 mm

Stepped jaw - Main jaw

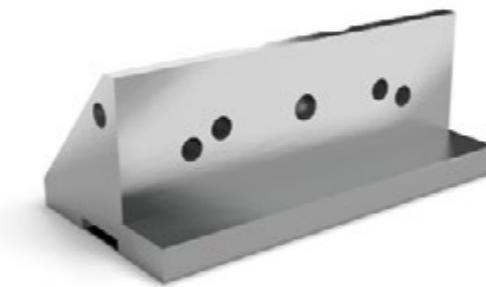


All screw-in jaws size 65 can be mounted. Starting from 102.

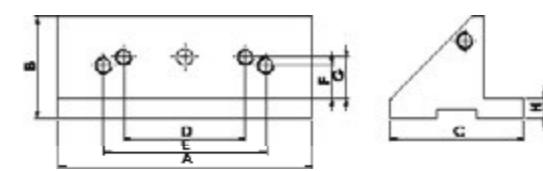


Size	Order No.	A	B*	C*	D	E	F	G	H*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	03210503	65	9.5	27	32	8	38	11	11						✓	

False main jaw for 5-axis

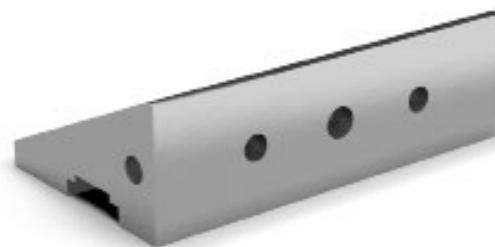


All screw-in jaws size 125 can be mounted. Starting from 102.

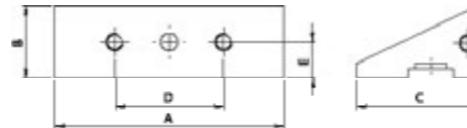


Size	Order No.	A	B	C	D	E	F	G	H	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	03510511S002	125	50	66	60	80	16	20	10						✓	

False main jaw



All screw-in jaws size 80 can be mounted. Starting from 102.



Size	Order No.	A	B	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	033105511	80	25	45	38	12.5						✓	✓

Jaw blank made from aluminium



Other materials on request.



Size	Order No.	A	B	C	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	03310505	80	35	53						✓	✓
80	03310507	80	20	53						✓	✓
100	03410505	100	44	58						✓	
125	03510505	125	48	98						✓	

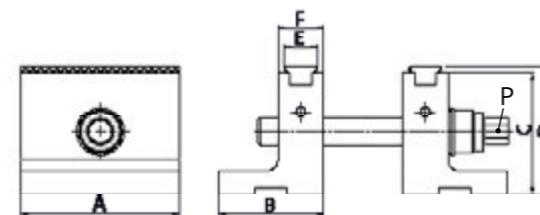
*Dimensions ± 0.01 mm

High stepped jaw attachment complete set



First, workpiece is clamped with the centring spindle, then with the clamping spindle.

incl. 3 clamping spindles



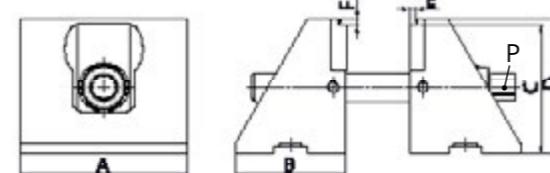
Size	Order No.	A	B	C*	D	E	F	P	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	03310027	80	53	62	65.1	17	23	12					✓		
125	03510030	125	53	90	93.1	17	23	14					✓		

High main jaw attachment complete set

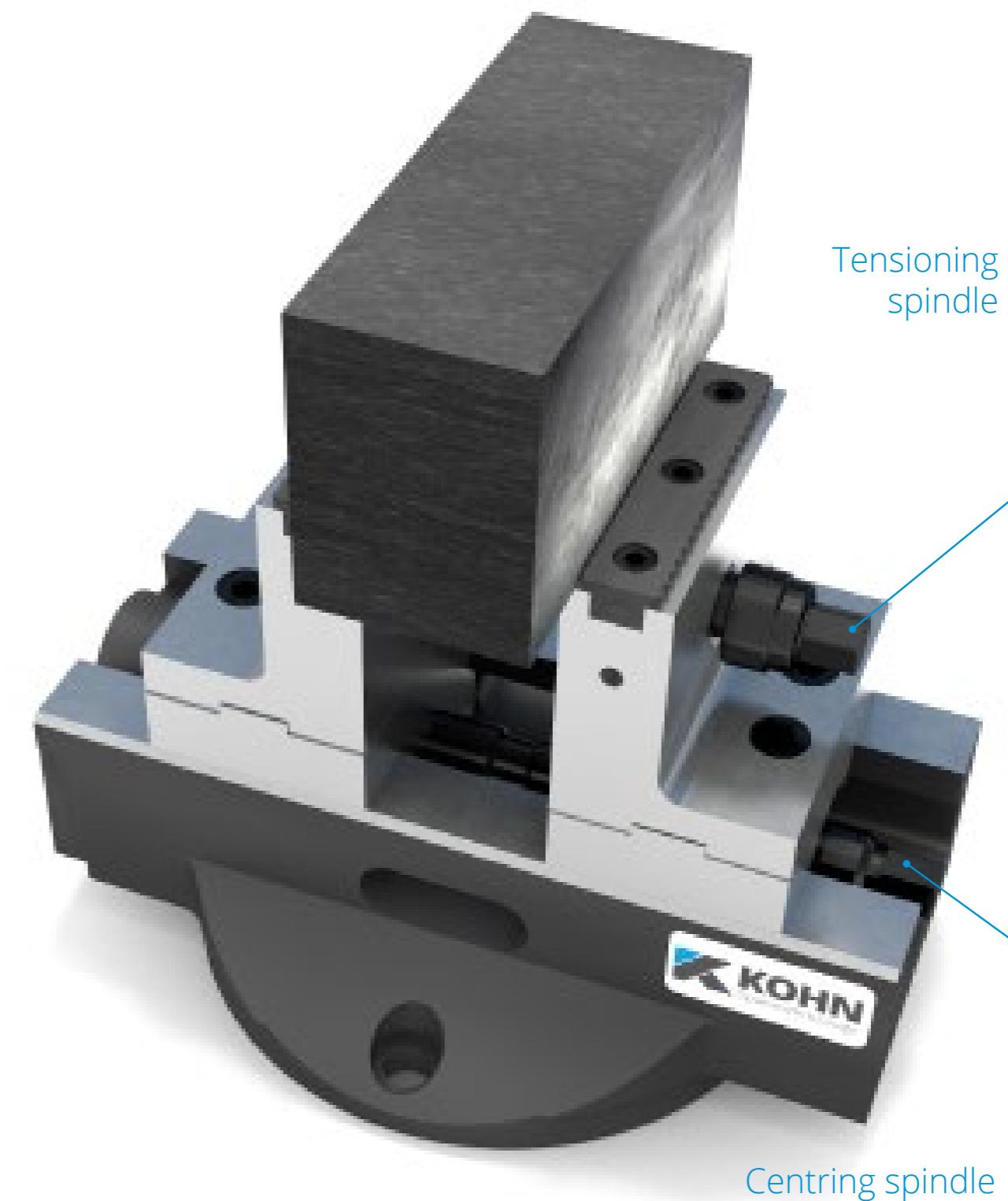


First, workpiece is clamped with the centring spindle, then with the clamping spindle.

incl. 3 clamping spindles



Size	Order No.	A	B	C	D	E	F	P	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	03310028	80	53	62	65	3	3	12					✓		



Tensioning spindle



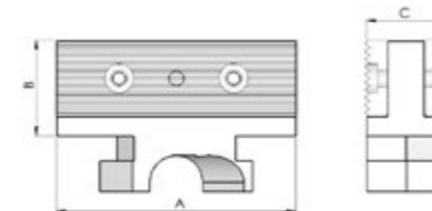
Centring spindle

*Dimensions ± 0.01 mm

Changeover slider without screw-in jaws



Changeover sliders enable multi-clamping for workpieces. No tools required for assembly.



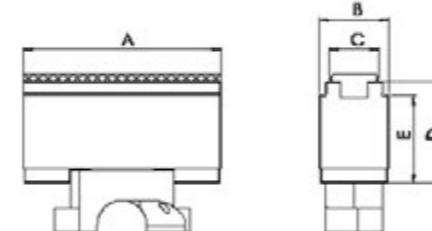
Size	Order No.	A	B	C ±0.02	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	02310030	80	32	30	✓	✓	✓				
100	02410030	100	44	36	✓	✓	✓				
125	02510030	125	50	42	✓	✓	✓				
160	02610030	160	54	52	✓		✓				

Changeover slider complete set with grip bar



Changeover sliders enable multi-clamping for workpieces. No tools required for assembly.

Form-locked clamping of workpieces up to 35 HRC.



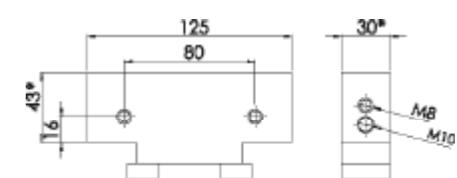
Size	Order No.	A	B	C	D*	E*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	03310234G	80	28	20	47	33	✓	✓					
125	03510234G	125	35	23	48	40		✓					

Changeover slider



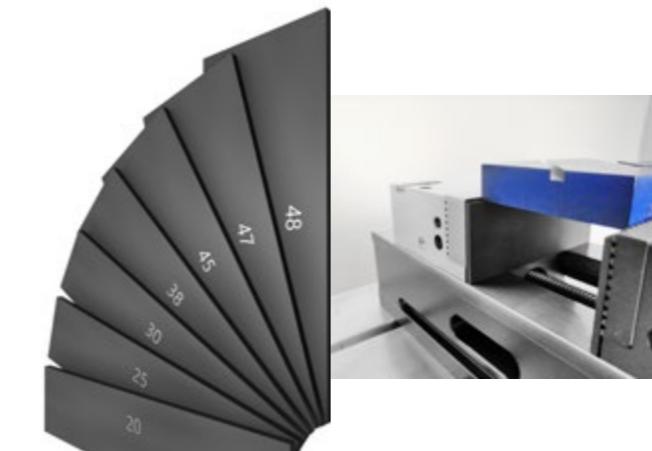
- ✓ hardened and ground
- ✓ without screw-in jaws

Changeover sliders enable multi-clamping for workpieces. No tools required for assembly



Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	09520030	✓						

Clickstep® Magnetunterlagen



Mit Clickstep® Magnetunterlagen erweitern Sie Ihre Spannhöhen um bis zu 48 mm. Jede Platte ist mit 2 Dauermagneten ausgestattet, die eine optimale Haltekraft gewährleisten. Mit 2 schnellen Handgriffen sind diese in Sekundenbruchteilen wieder entfernt

- ✓ schnell austauschbar, ohne Schrauben oder Werkzeug
- ✓ mehr Freiraum beim Spannen
- ✓ hohe Genauigkeit
- ✓ schmale Auflagenfläche
- ✓ verkürzt Rüstzeiten

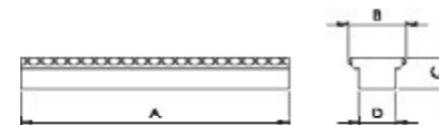
Höhe in mm	Dicke	Für Backenbreite	Bestell-Nr.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
20 mm	3	125	025107300020	✓	✓	✓	✓			
25 mm	3	125	025107300025	✓	✓	✓	✓	✓		
30 mm	3	125	025107300030	✓	✓	✓	✓	✓		
35 mm	3	125	025107300035	✓	✓	✓	✓	✓		
37 mm	3	125	025107300037	✓	✓	✓	✓	✓		
38 mm	3	125	025107300038	✓	✓	✓	✓	✓		
40 mm	3	125	025107300040	✓	✓	✓	✓	✓		
42 mm	3	125	025107300042	✓	✓	✓	✓	✓		
45 mm	3	125	025107300045	✓	✓	✓	✓	✓		
47 mm	3	125	025107300047	✓	✓	✓	✓	✓		
48 mm	3	125	025107300048	✓	✓	✓	✓	✓		

*Dimensions ± 0.01 mm

Grip bar with grip on both sides



Form-locked clamping of workpieces up to 35 HRC.



Size	Order No.	A	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	03210002	65	17	9.2	11						✓	
80	03310550	80	17	9.2	11	✓	✓	✓			✓	✓
80	03310551*	80	20	9.2	11						✓	✓
80/40	03310040	40	17	9.2	11						✓	✓
100	03310100	100	17	9.2	11	✓	✓	✓	✓	✓	✓	✓
125	03510550	125	17	9.2	11	✓	✓	✓	✓	✓	✓	✓
125	03510551*	125	23	9.2	11						✓	
160	02610550	160	17	9.2	11	✓		✓				
False stepped jaw for changeover slider												

Insert smooth on both sides



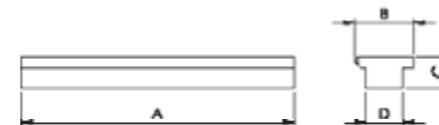
Size	Order No.	A	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
65	03210553	65	17	9.2	11							✓	
80	03310553	80	17	9.2	11	✓	✓	✓			✓	✓	
80	03310554*	80	20	9.2	11						✓	✓	
80/40	03310558	40	17	9.2	11							✓	✓
100	03410553	100	17	9.2	11	✓	✓	✓	✓	✓	✓	✓	
125	03510553	125	17	9.2	11	✓	✓	✓	✓	✓	✓	✓	
125	03510554*	125	23	9.2	11							✓	

False stepped jaw for changeover slider

Grip bar one side with grip, one side smooth

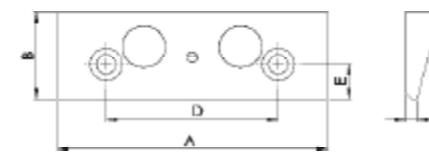
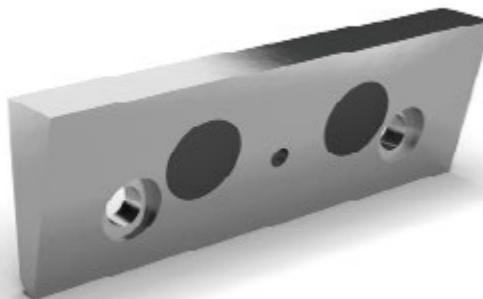


Form-locked clamping of workpieces up to 35 HRC.



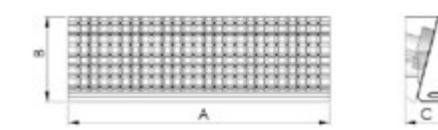
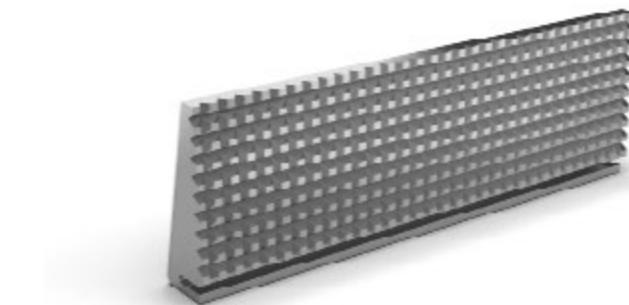
Size	Order No.	A	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	03210552	65	17	9.2	11						✓	
80	03310552	80	17	9.2	11	✓	✓	✓			✓	✓
80/40	033140552	40	17	9.2	11						✓	✓
100	03410552	100	17	9.2	11	✓	✓	✓	✓	✓	✓	✓
125	03510552	125	17	9.2	11	✓	✓	✓	✓	✓	✓	✓

Main jaw
with two permanent magnets



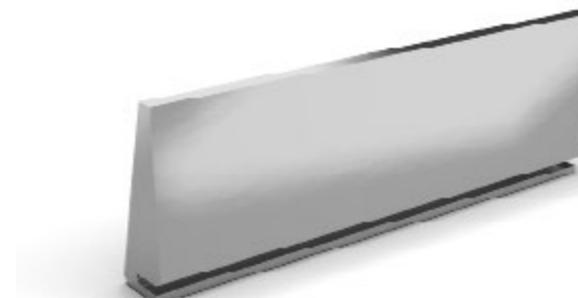
Size	Order No.	A	B*	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08520502	125	40	6	80	16		✓	✓	✓		✓	
125	07520502	125	43	6	80	16		✓					

Ribbed exchangeable jaw
for raw work pieces



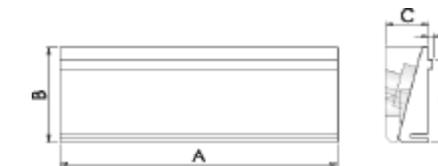
Size	Order No.	A	B*	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08520508	125	40	21.5				✓	✓	✓		✓	
125	07520508	125	43	21.5				✓					

Smooth exchangeable jaw
for machined workpieces



Size	Order No.	A	B*	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08520505	125	40	21.5				✓	✓	✓		✓	
125	07520505	125	43	21.5				✓					

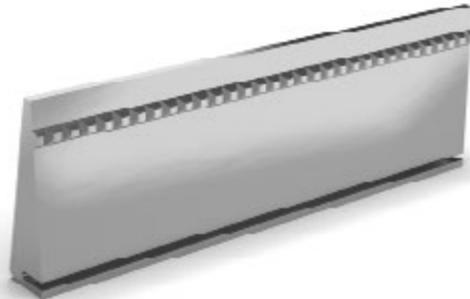
Line exchangeable jaw
for machined workpieces with angle errors



Size	Order No.	A	B*	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08520511	125	40	21.5	33	2		✓	✓	✓		✓	
125	07520521	125	43	21.5	37	2		✓					

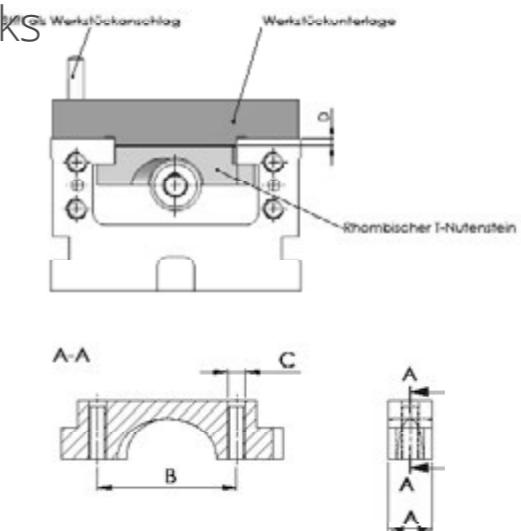
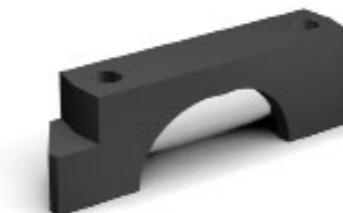
*Dimensions ± 0.01 mm

Ribbed line exchangeable jaw
for raw workpieces with angle errors



Size	Order No.	A	B*	C	D	E	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08520514	125	40	21.5	33	2		✓	✓	✓		✓	
125	07520522	125	43	21.5	37	2		✓					

Rhombic T-shaped tenon blocks
for secure fastening
of workpiece material

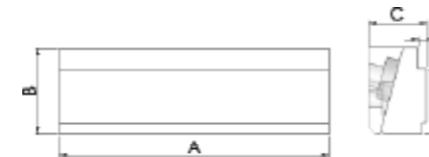


Size	Order No.	A	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210700	8	25	M4	4		✓	✓				
80	02310700	10	34	M5	4.5		✓	✓	✓		✓	✓
100	02410700	12	37	M5	3		✓	✓	✓			
125	02510700	15	48	M6	4		✓	✓	✓			✓
160	02610700	18	75	M6	4		✓		✓			

Exchangeable stepped jaw

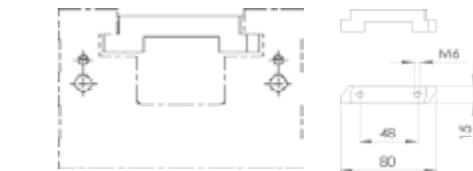


Other customised steps
available upon request



Size	Order No.	A	B*	C	D*	E*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	08520517	125	40	26.9	30	4		✓	✓	✓		✓	
125	07520517	125	43	26.9	33	4		✓					

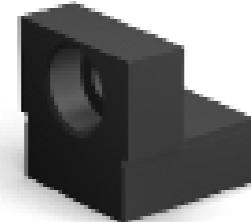
Rhombic T-shaped tenon block
for secure fastening of workpiece material



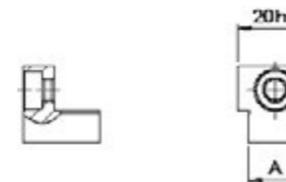
Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125	09522700		✓					

*Dimensions ± 0.01 mm

Tenon block



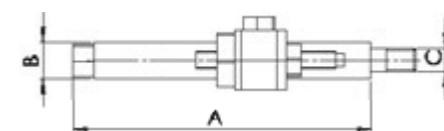
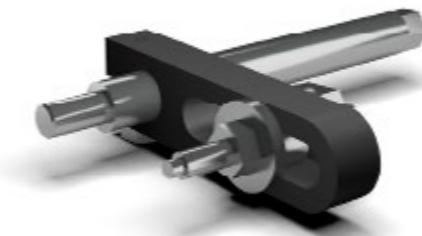
for quick and accurate positioning of the vice on the machine table.



Size	Order No.	A	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
20 h6	01310800	14 h6	✓	✓	✓	✓	✓		
20 h6	01310801	18 h6	✓	✓	✓	✓	✓		
20 h6	01310802	20 h6	✓	✓	✓	✓	✓		
20 h6	01310803	22 h6	✓	✓	✓	✓	✓		
20 h6	01310804	16 h6	✓	✓	✓	✓	✓		

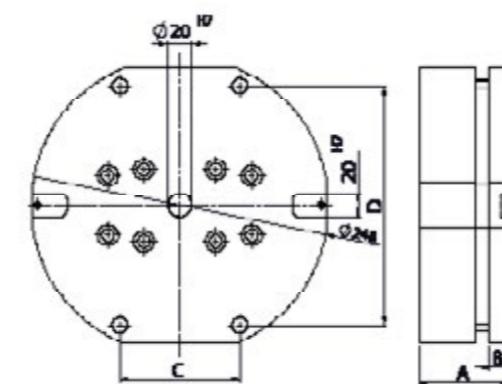
Workpiece stop

is attached to the vice, in the clamping slider or in the central jaw



Size	Order No.	A	B	C	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210701	65	8	M6		✓	✓				
80	02310701	80	10	M7		✓	✓		✓		
100	02410701	100	12	M8		✓	✓	✓	✓		
125	02510701	125	16	M10	✓	✓	✓	✓	✓		

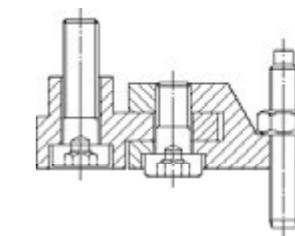
Console



Size	Order No.	A*	B	C	D	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65 / 80 / 125	104100000018	75	16	100	200				✓			

Joint stop

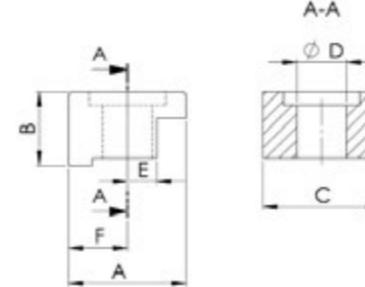
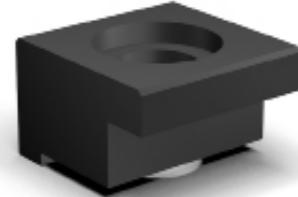
The joint stop is attached to the central jaw or the clamping slider



Size	Order No.	Thread	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	02310709	M6		✓	✓	✓			
100/125	02510709	M8		✓	✓	✓	✓	✓	
NCS/160	09520709	M10	✓	✓		✓			

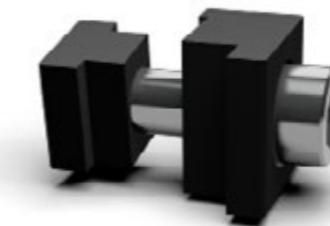
*Dimensions ± 0.01 mm

Metal clamp
for attaching the vice to the machine table



Size	Order No.	A	B	C	D	E	F	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
65	02210710	30	16	23	11	7	16	✓	✓					
80	02310710	30	20	28	11	7	14	✓	✓	✓		✓		
100	02410710	35	20	32	13	8	18	✓	✓	✓	✓	✓		
125	02510710	40	25	38	17	10	20	✓	✓	✓	✓	✓	✓	✓

Metal clamp set
suitable for clamping vices with a jaw width of 125



each consisting of 4x:

- ✓ metal clamps
- ✓ Nut for T-slot
- ✓ fixing screw

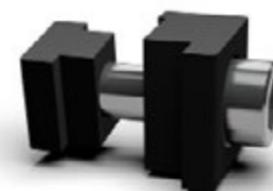
Note:

Other quantities required for larger bed lengths.

Other jaw widths and sizes available upon request

Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
Table slot 14	08410900		✓	✓	✓	✓		
Table slot 16	08410902		✓	✓	✓	✓		
Table slot 18	08410901		✓	✓	✓	✓		

Metal clamp set
suitable for clamping vices with a jaw width of 125



each consisting of 4x:

- ✓ metal clamps
- ✓ Nut for T-slot
- ✓ fixing screw

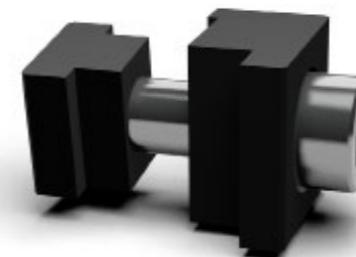
Note:

Other quantities required for larger bed lengths.

Other jaw widths and sizes available upon request

Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
Table slot 14	08310900	✓	✓	✓		✓		
Table slot 16	08310902	✓	✓	✓		✓		
Table slot 18	08310901	✓	✓	✓		✓		

Metal clamp set
suitable for clamping vices with a jaw width of 125



each consisting of 4x:

- ✓ metal clamps
- ✓ Nut for T-slot
- ✓ fixing screw

Note:

Other quantities required for larger bed lengths.

Other jaw widths and sizes available upon request

Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
Table slot 14	09540900	✓	✓	✓	✓	✓	✓	✓
Table slot 16	09540904							
Table slot 18	09540901	✓	✓	✓	✓	✓	✓	✓
Table slot 20	09540903	✓	✓	✓	✓	✓	✓	✓
Table slot 22	09540902	✓	✓	✓	✓	✓	✓	✓

Hand crank straight



Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
SW 17	02510660	✓	✓	✓	✓			
SW 19	07520660	✓		✓	✓			

Hand crank NCS



Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
SW 14	09520665				✓			

Hand crank bent



Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
SW 10	03210662	✓	✓				✓	
SW 12	08310662	✓	✓	✓		✓	✓	
SW 14	02410662	✓	✓	✓			✓	
SW 17	07520664	✓	✓	✓	✓			
SW 19	07520662	✓		✓	✓			

Crank rod NCS



NC-Type	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
125/470	09520667				✓			
125/534	09520668				✓			
125/598	09520669				✓			
125/662	0920673				✓			

Double ended socket wrench



Size	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
SW 10	K03210	✓	✓			✓		
SW 12	K03312	✓	✓	✓		✓	✓	

Torque wrench ½"

and nut driver inserts



Torque wrench with 20-200 Nm adjustment range (with left and right selector / clamping and release) for a controlled clamping force during tightening.

Type	Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
Torque wrench ½"	10100015	✓	✓	✓	✓	✓	✓	✓
SW 10 nut driver insert	10100006							
SW 12 nut driver insert	10100005							
SW 14 nut driver insert	10100004							
SW 17 nut driver insert	10100008							

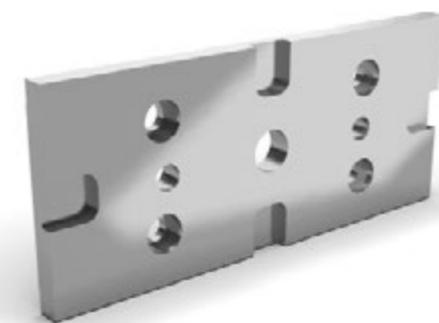
By specifying the vice type (for example, ZSS 80) we supply suitable nut driver insert

Special combination wrench (ratchet)

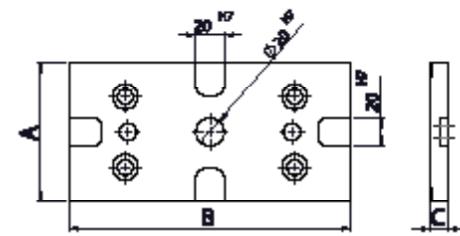


for size	Order No.	SW	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	08330013	SW9	✓		✓				
100	08430013	SW10	✓	✓	✓				
125	08530013	SW14	✓	✓	✓	✓			

Base



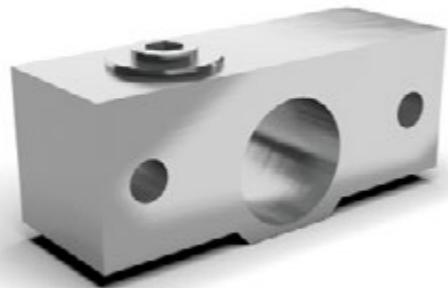
Base as an adapter between vice and machine table.



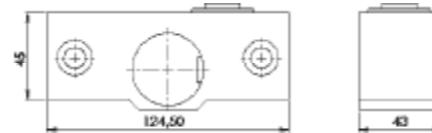
Size	Order No.	A	B	C*	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
80	033101041	98	200	12	✓						
80	033101042	98	230	12	✓						
80	033101043	98	246	12	✓						
80	033101044	98	315	12	✓						
125	035101041	147	245	16	✓						
125	035101042	147	315	16	✓						

*Dimensions ± 0.01 mm

Angle drive



Protrudes at maximum spans over the bottom part.

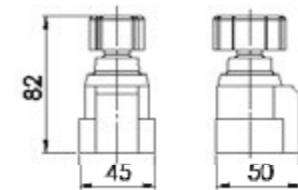


Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
09520800	✓						

Hand-seat valve

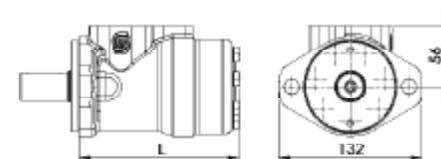


Mechanical operation directly on the vice. The design of the hand-seat valve matches the application.



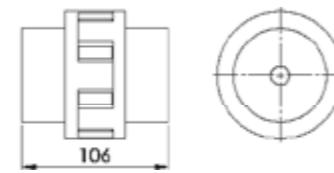
Order No.	for type	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
10054050	D 3-1 R	✓	✓		✓			
10054053	VP 1 Z	✓	✓		✓			

OMP hydraulic motor



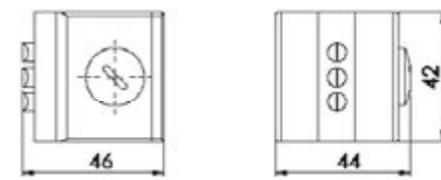
Order No.	Size	L	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
10051001	80	135		✓			✓		
10052001	100	137.5		✓			✓		
10052002	125	141		✓			✓		
10053001	160	145.5		✓			✓		

Elastic clutch

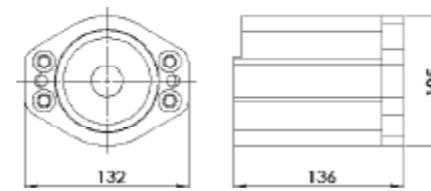


Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
K60404202		✓			✓		

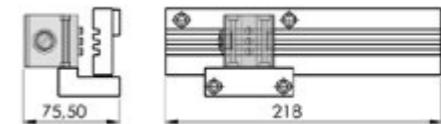
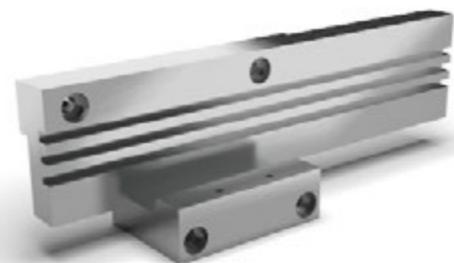
Multiple limit switches



Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
K201500			✓			✓	

 Clutch body
with flange


Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
03550004		✓			✓		

 Mounting kit for position monitoring
complete set


Order No.	NCS	ESS	DSS	MFS	ZSS	UNI	VZA
03550005		✓			✓		

consisting of:

- ✓ Mounting plate for multiple limit switches
- ✓ Groove-array
- ✓ Distance plate for groove-array
- ✓ Control cam

Hydraulic unit
single



Order No.	10054130						
Description:	hydraulic one-circuit unit without return valve. With pressure limiter and pressure switch.						
NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
✓	✓		✓		✓		

Hydraulic unit
1-circuit



Order No.	10054131						
Description:	hydraulic one-circuit unit with return valve. With pressure limiter and pressure switch.						
NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
✓	✓		✓		✓		

Pressure booster
with medium converter



Hydraulic hose
with quick-release coupling



Hydraulic unit
2-circuit



Pressure gauge



Pressure booster



Control box

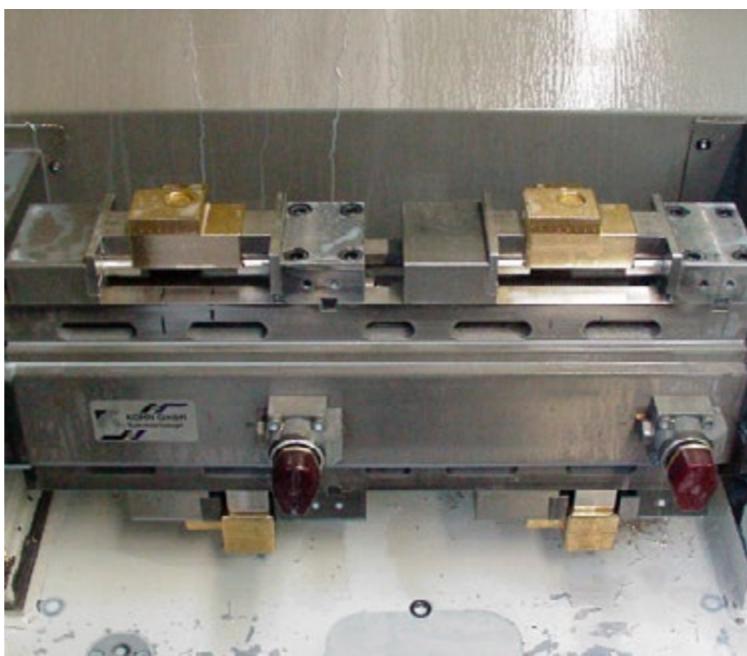
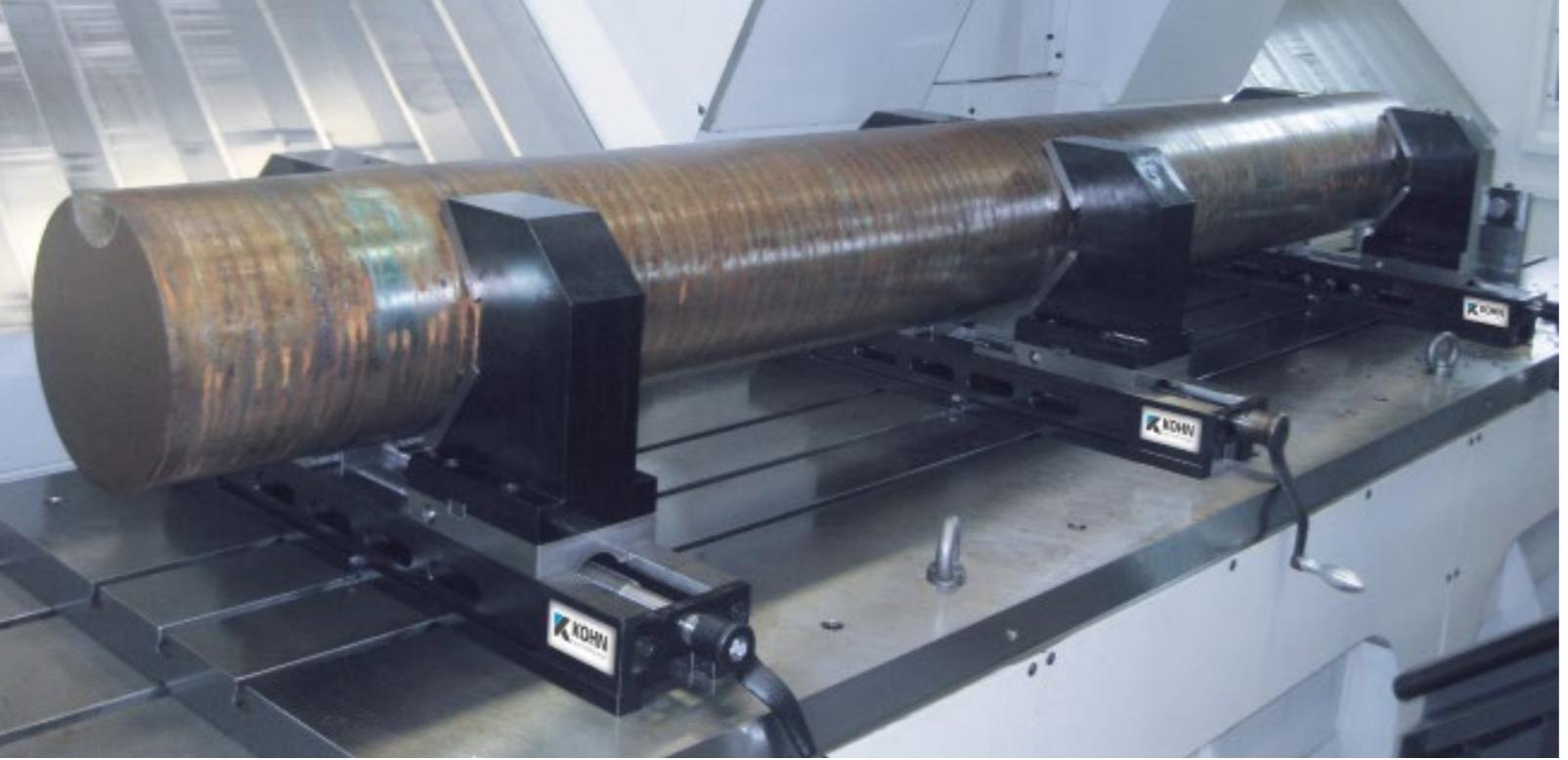


Order No.	10054132						
Description:	Hydraulic two-circuit unit with return valve. With pressure limiter and pressure switch.						
NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
✓	✓		✓		✓		

Order No.	10054072						
Description:	Includes pressure gauge, straight threaded male fitting, adjustable L-fitting, adjustable W-fitting						
NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
✓	✓		✓		✓		

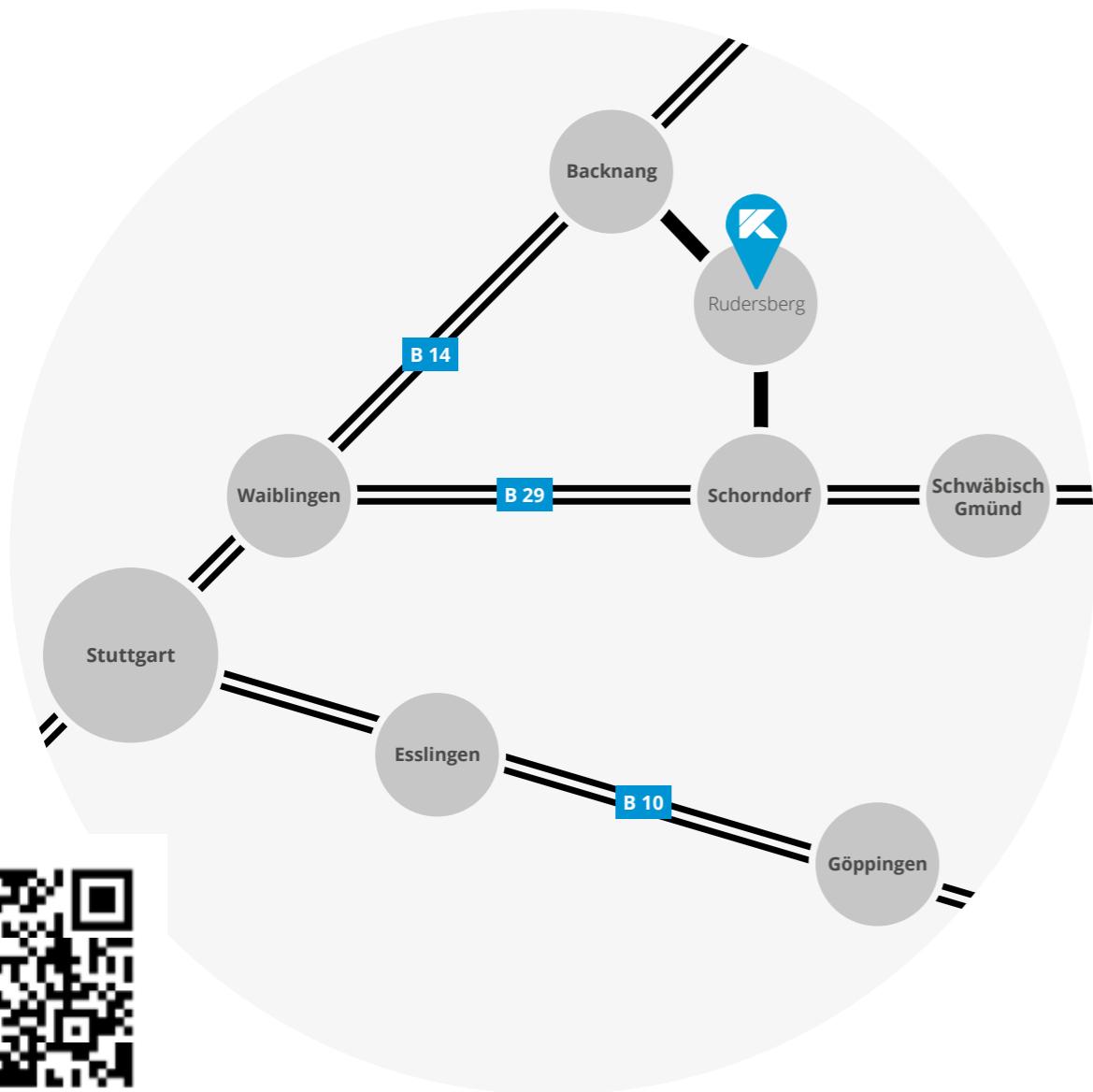
Order No.	10061021						
Description:	Converts 6.5 bar of pneumatic pressure into 400 bar of hydraulic pressure. Compatible with vice.						
NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
✓	✓				✓		

Order No.	10055300						
Description:	For monitoring the hydraulic system, manual control of the vices and connection to the machine control for automatic clamping.						
NCS	ESS	DSS	MFS	ZSS	UNI	VZA	
✓	✓		✓		✓		



solid. connections.

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***We look forward to hearing from you.
Your KOHN team***

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