

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

ZSS 65 AUT

from p. 66



Jaw width: 65 mm  
Spans up to: 75 mm



ZSS 80 AUT

from p. 68



Jaw width: 80 mm  
Spans up to: 161 mm



ZSS 80 UNI AUT

from p. 74



Jaw width: 80 mm  
Spans up to: 161 mm



ZSS 125 UNI

from p. 76



Jaw width: 125 mm  
Spans up to: 276 mm



Single vices

ESS 80 M UNI & HD UNI

from p. 82



Jaw width: 80 mm  
Spans up to: 161 mm



ESS 80 M

from p. 84



Jaw width: 80 mm  
Spans up to: 207 mm



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

ZSS 65 NPSS

from p. 70



Jaw width: 65 mm  
Spans up to: 110 mm



ZSS 80 NPSS

from p. 72



Jaw width: 80 mm  
Spans up to: 110 mm



ZSS 80 M

from p. 78



Jaw width: 80 mm  
Spans up to: 276 mm



ZSS 125 M

from p. 80



Jaw width: 125 mm  
Spans up to: 276 mm



ESS 125 M

from p. 86



Jaw width: 125 mm  
Spans up to: 276 mm



Mounting via base on the machine table



Direct mounting on automation pallets



**Optional:**  
"fixed jaw on the front"



**Optional:**  
Integrated clamping force measurement

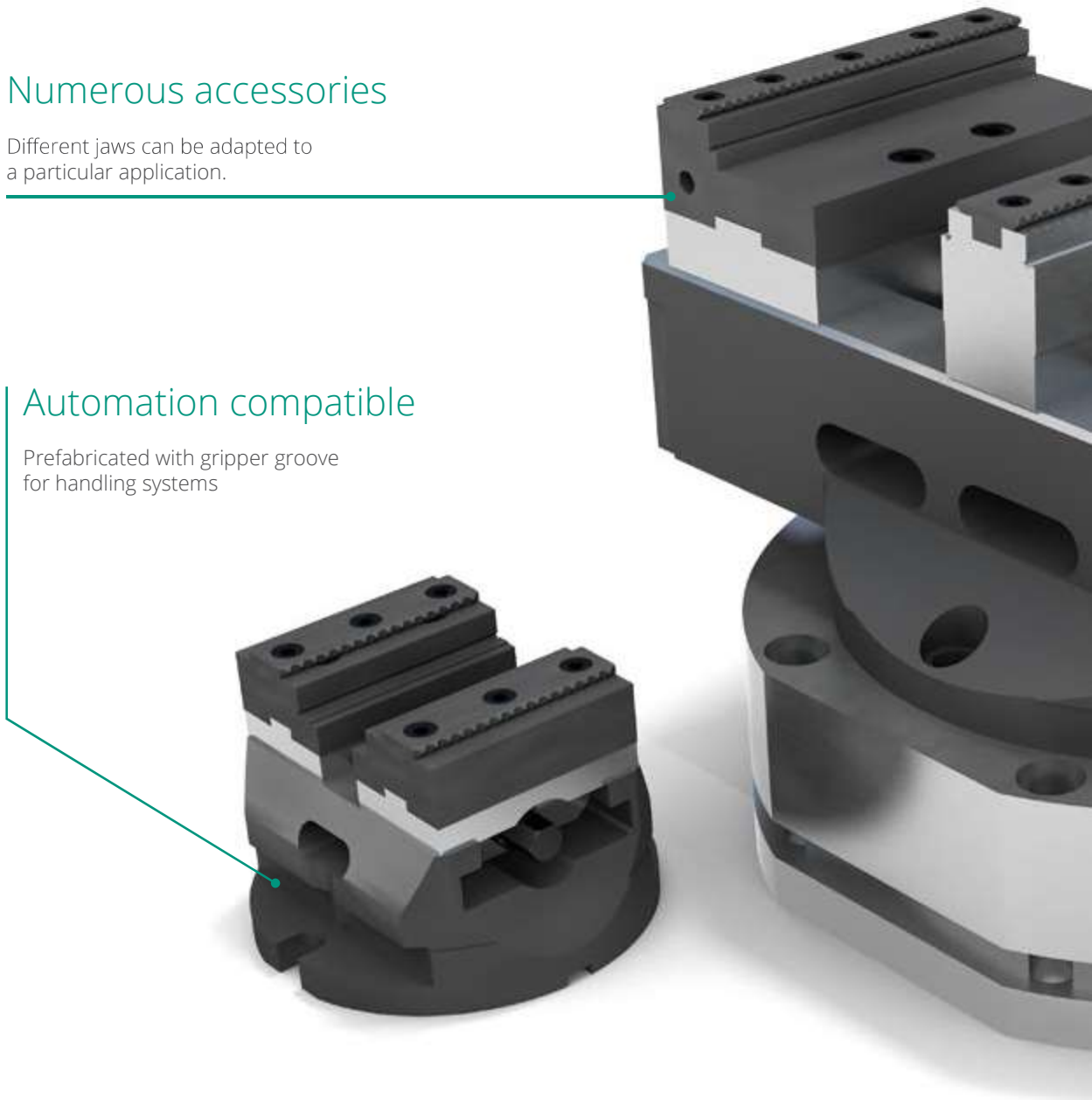
# Experience the automation solutions: all-purpose vices for zero-point clamping systems

## Numerous accessories

Different jaws can be adapted to a particular application.

## Automation compatible

Prefabricated with gripper groove for handling systems



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:** 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.

## **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 96



Support for NPSS



Suitable for: handling systems

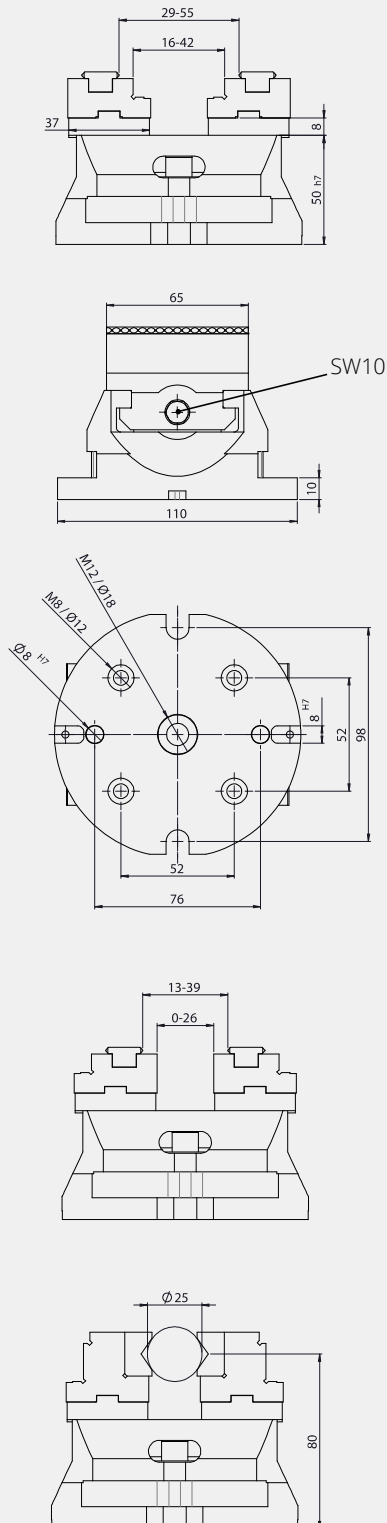


Machine table assembly

### 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  $\pm 0.1$  mm (optional:  $\pm 0.03$  mm)
- Basic equipment: 2 stepped jaw attachments with grip bar

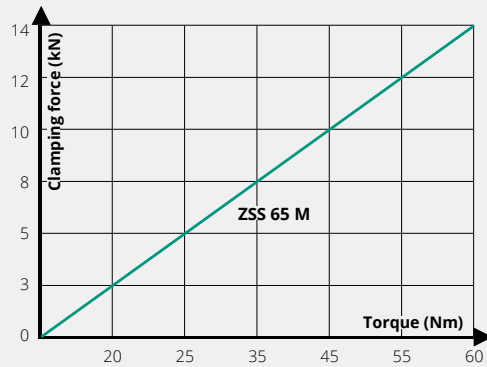
Technical drawing



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

Clamping force diagram





ZSS 80 AUT

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



Suitable accessories you can find starting from page 96



Support for NPSS



Suitable for: Handling systems



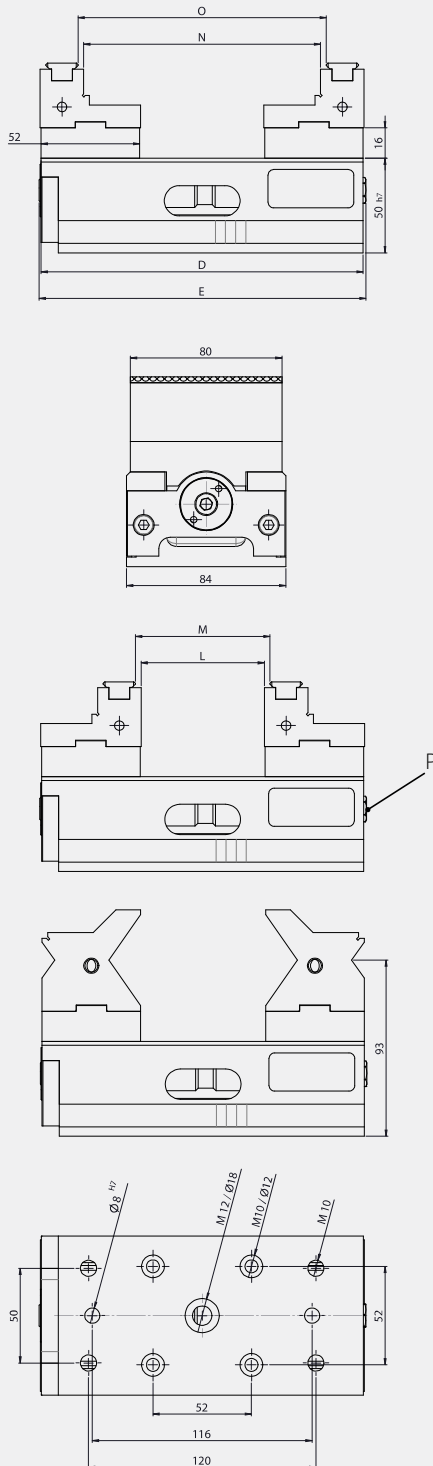
Mounting with Base

### Impressive advantages:

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



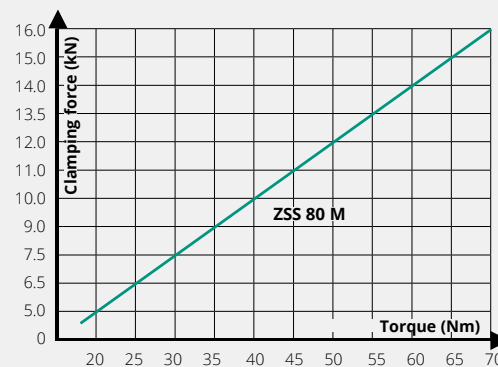
Technical drawing



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		$\pm 0.02$	$\pm 0.02$
Weight	kg	6.2	6.7

Clamping force diagram





ZSS 65 NPSS

## **All-inclusive:**

centring vice with integrated zero-point clamping system



Integrated  
NPSS



Suitable for:  
Handling systems

Suitable  
accessories  
you can find  
starting from  
page 96

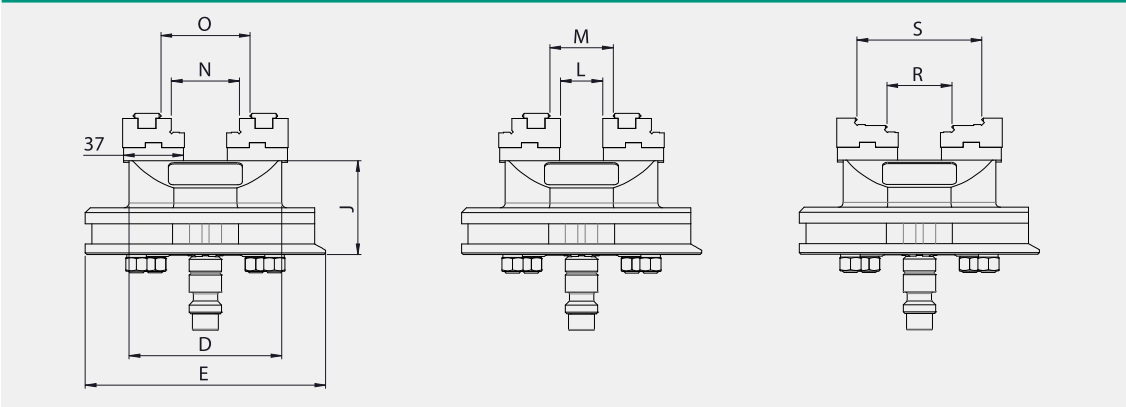
## Impressive advantages:

- 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

**Technical specifications**

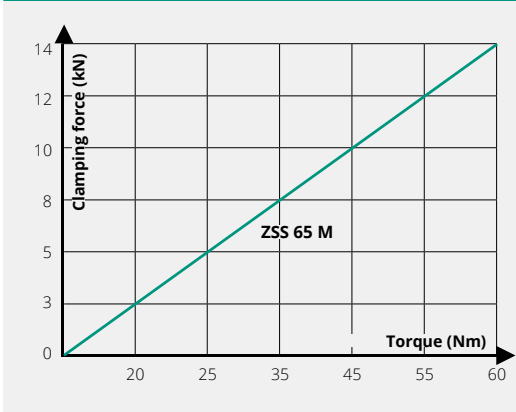
Jaw width		65	65	65	65	65
						
		for EROWA	for EROWA	for AMF	for HIRSCHMANN PrisFix	for HIRSCHMANN 9000
Order No.		0321ER000010	0321ER130010	03211A2	0321S130H510	0321S130H910
Bed length	D	94	132	94	132	132
Overall length	E	148	148	106	148	148
	J h7	57,9	57,9	50	70	70
Hexagonal connection SW		10	10	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**



Other zero-point clamping systems upon request

**Clamping force diagram**

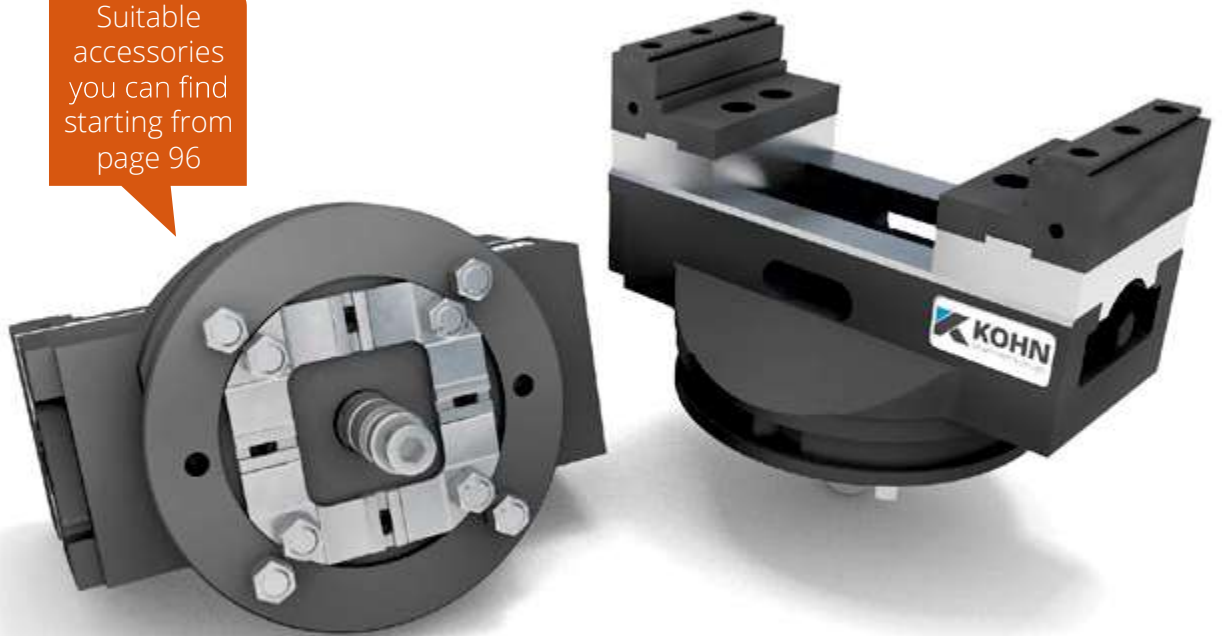




ZSS 80 NPSS

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

Suitable  
accessories  
you can find  
starting from  
page 96



Integrated  
NPSS

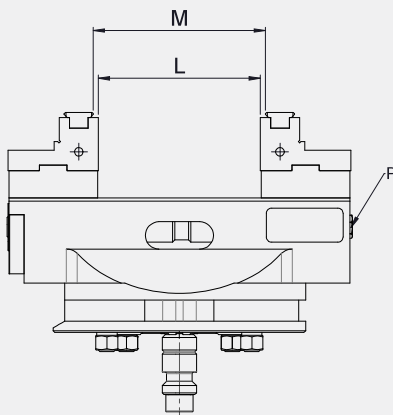
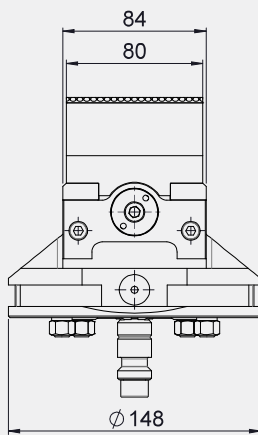
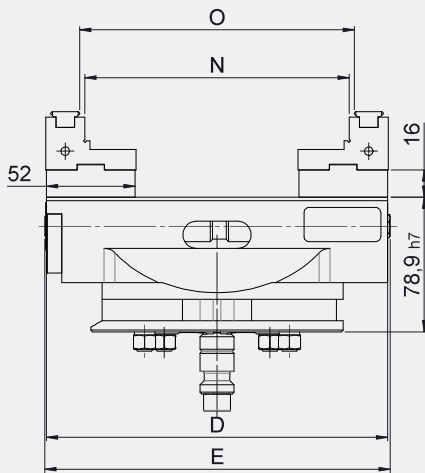


Suitable for:  
Handling systems

### 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  $\pm 0.02$  mm
- Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

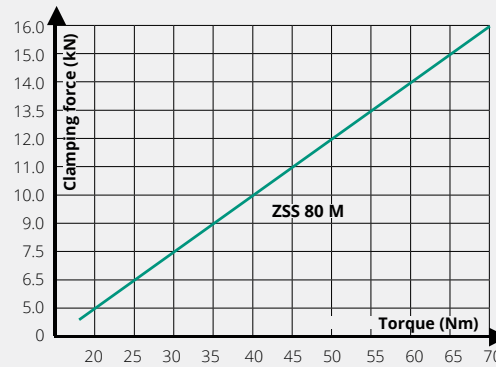
Technical drawing ZSS 80 NPSS



Technical specifications

Jaw width	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

## Self-centring vice used for a variety of purposes

Suitable  
accessories  
you can find  
starting from  
page 96



Support for  
NPSS



Suitable for:  
Handling systems



Machine table  
assembly

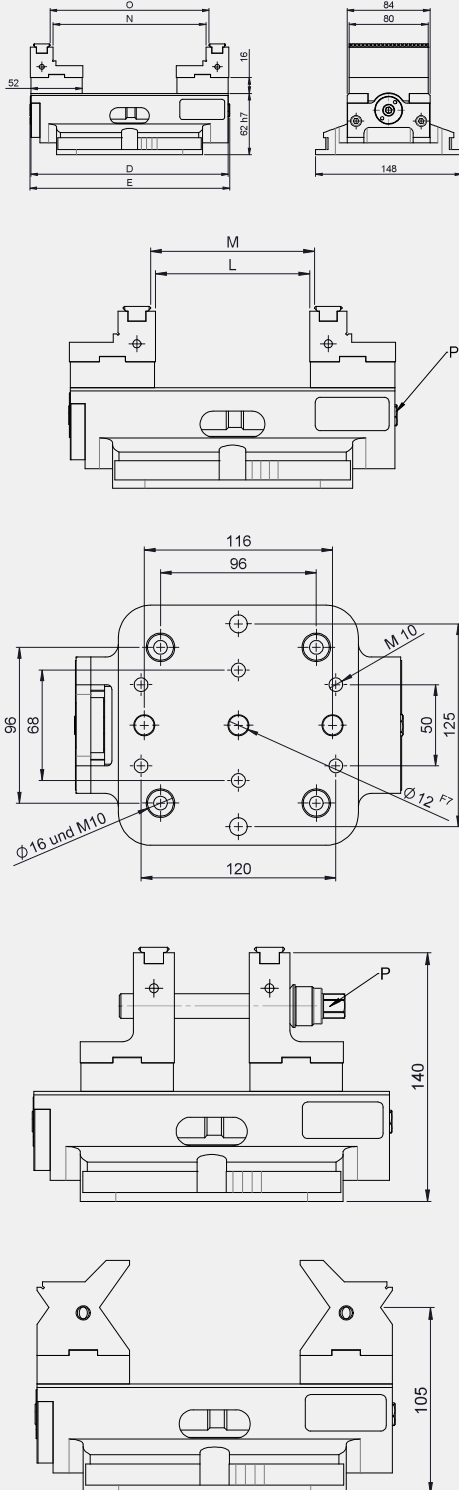


Mounting on  
automation pallet

### 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  $\pm 0.02$  mm
- Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

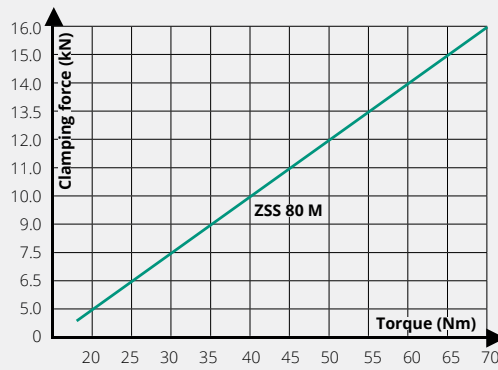
Technical drawing



Technical specifications

Jaw width	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		$\pm 0.02$	$\pm 0.02$
Weight	kg	8.3	8.8

Clamping force diagram





ZSS 125 UNI

## Stable centring vice for large dimensions

Suitable  
accessories  
you can find  
starting from  
page 96



Support for  
NPSS



Machine table  
assembly



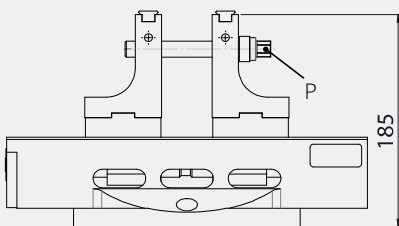
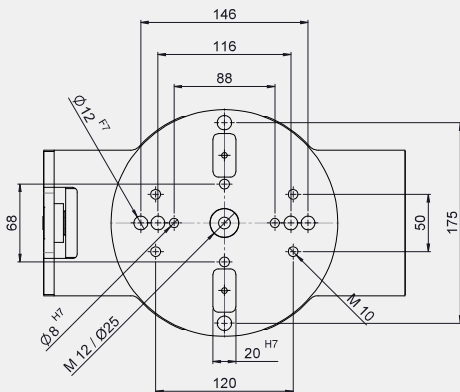
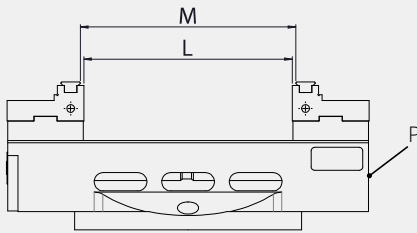
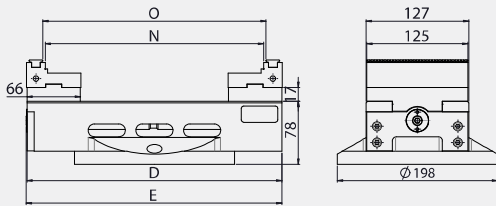
Mounting on  
automation pallet

### 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  $\pm 0.02$  mm
- Basic equipment: 2 stepped jaw attachments with grip bar and hand crank



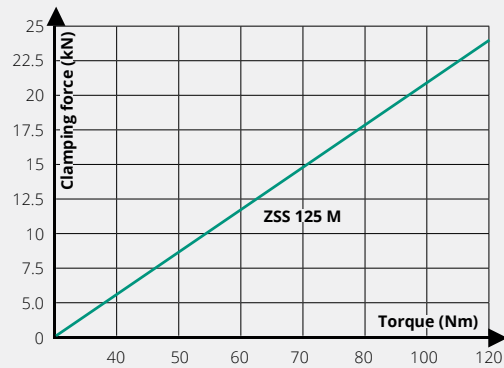
Technical drawing



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

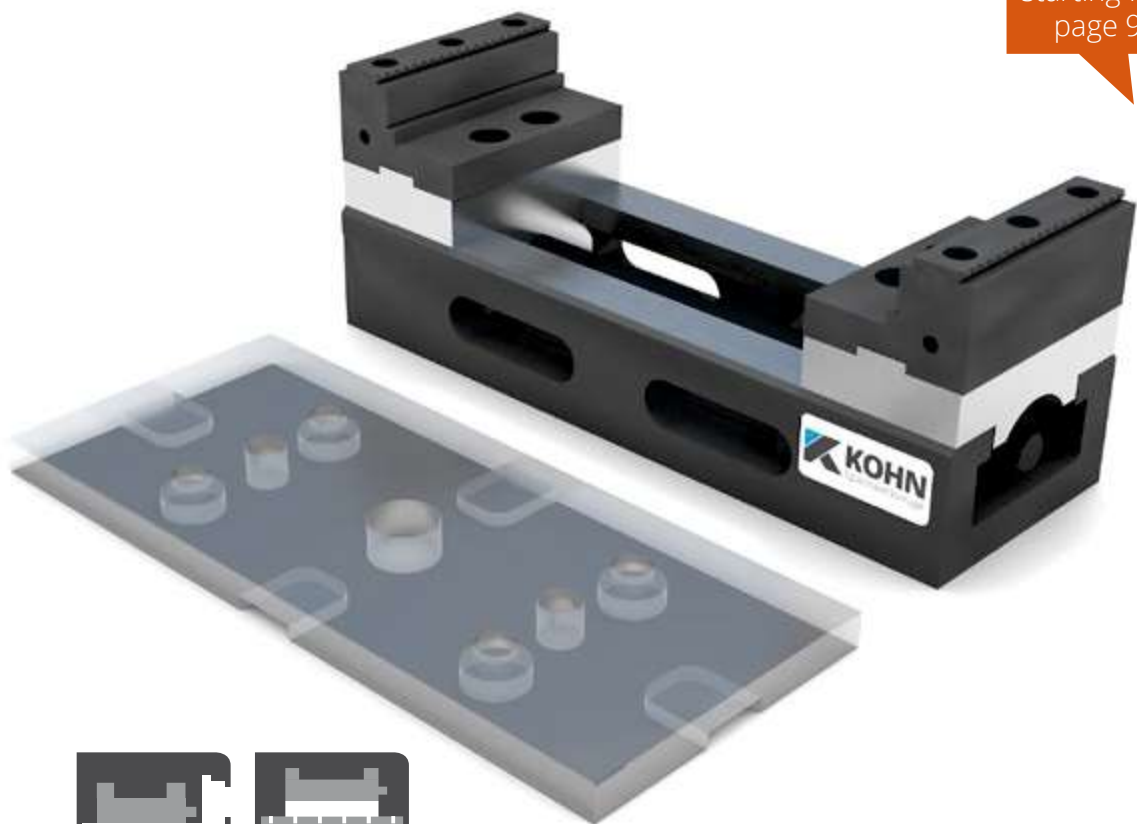




ZSS 80 M

## Single centring vice used for a variety of purposes

Suitable  
accessories  
you can find  
starting from  
page 96



Mounting on  
automation pallet

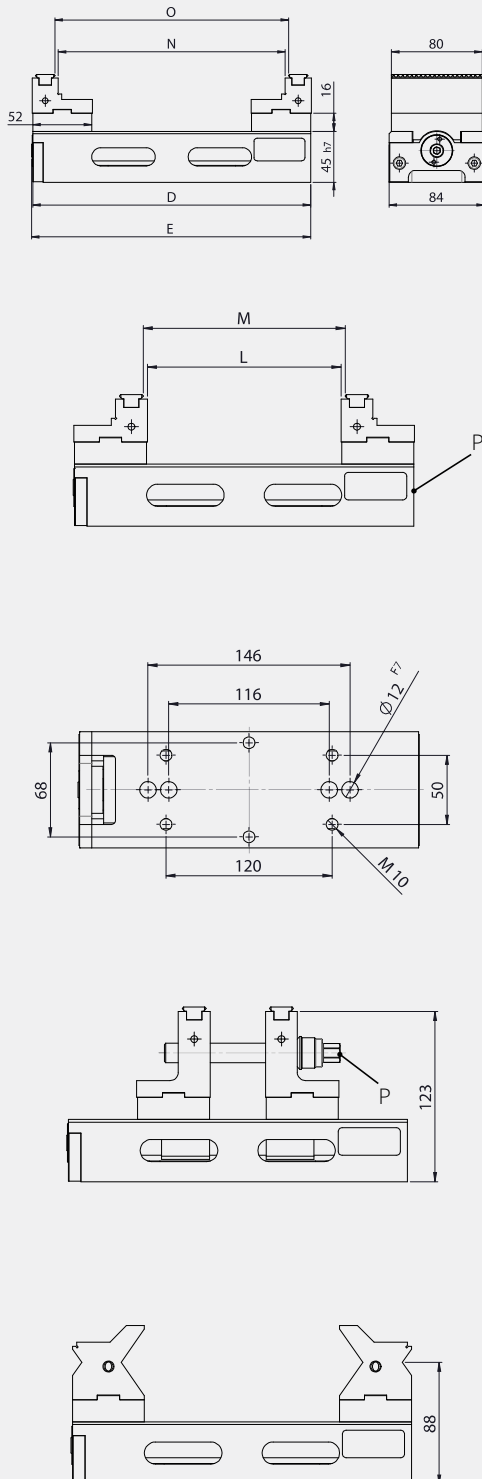


Mounting with  
Base

### Impressive advantages:

- 3 different bed lengths to choose from
- A variety of different attachment and screw-in jaws as accessories
- Centring accuracy  $\pm 0.02$  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

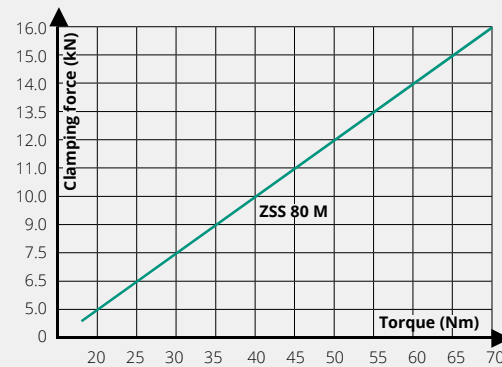
Technical drawing



Technical specifications

Jaw width	A	80	80	80
Order No.		0331S200	0331S245	0331S315
without jaws		0331S200 0001	0331S245 0001	0331S315 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		$\pm 0.02$	$\pm 0.02$	$\pm 0.02$
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

Suitable accessories you can find starting from page 96



Mounting on automation pallet

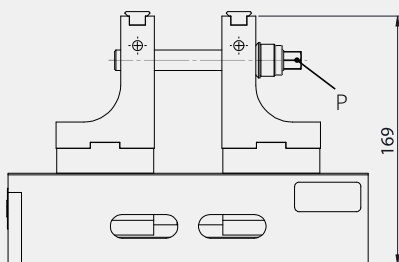
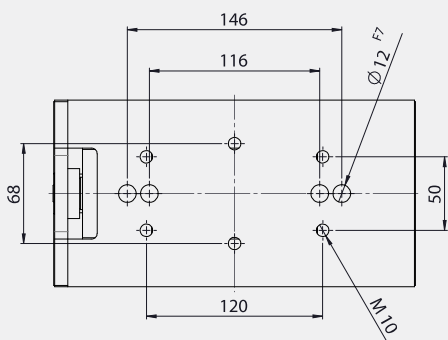
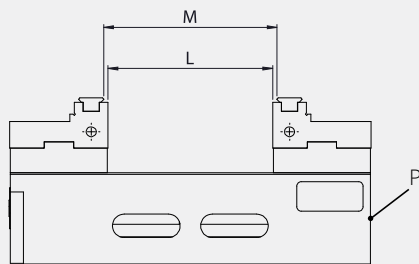
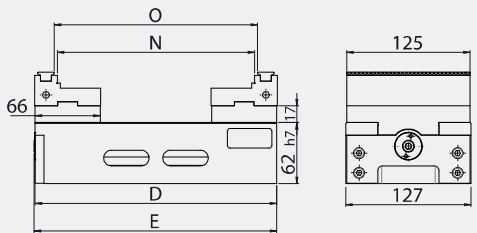


Mounting with Base

### Impressive advantages:

- 2 different bed lengths to choose from
- A variety of different attachment and screw-in jaws as accessories
- Centring accuracy  $\pm 0.02$  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

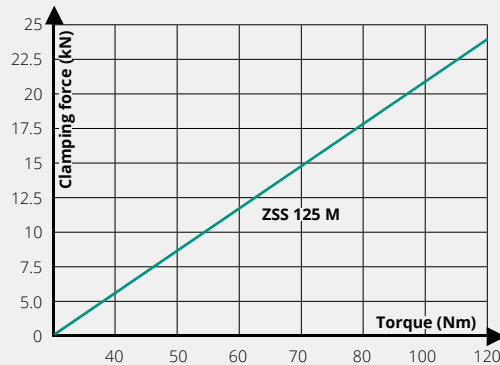
Technical drawing



Technical specifications

Jaw width	A	125	125
Order No.		0351S245	0351S315
without jaws		0351S245 0001	0351S315 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





ESS 80 M UNI & HD UNI

## Multi-purpose, compact and stable: Single clamp for manual or hydraulic operation



Suitable accessories you can find starting from page 96



Support for NPSS



Machine table assembly



Mounting on automation pallet

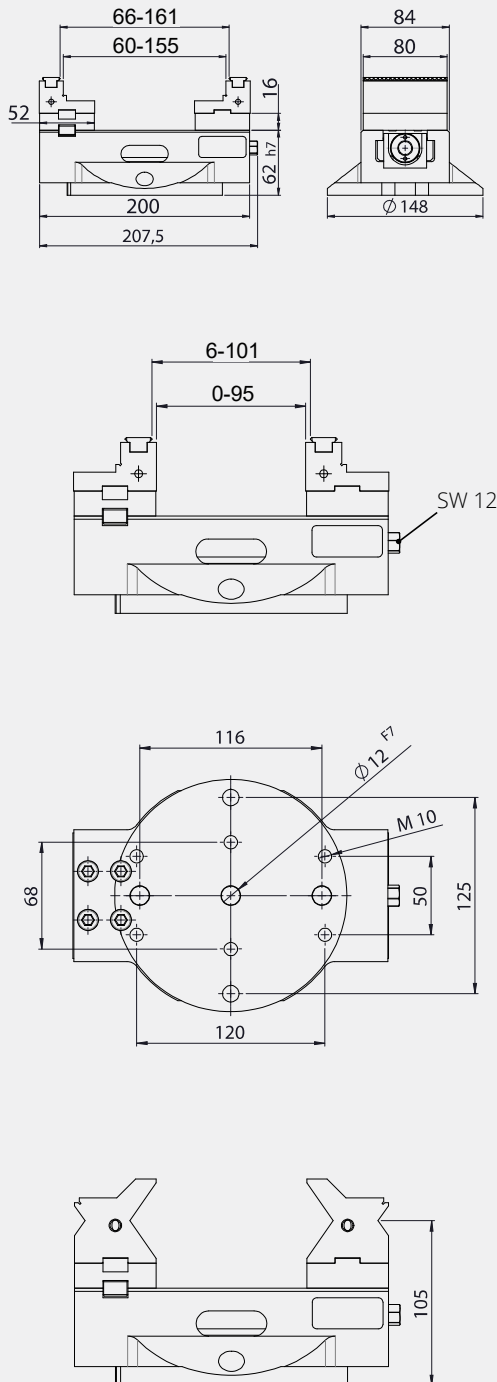


Optional: "fixed jaw on the front"

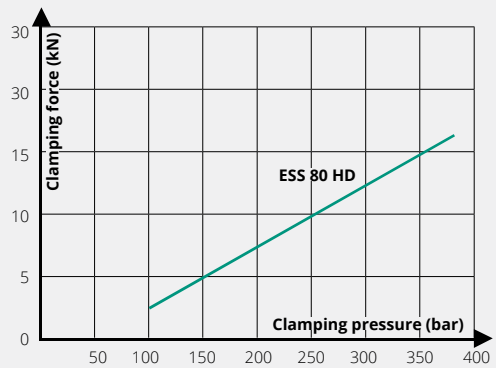
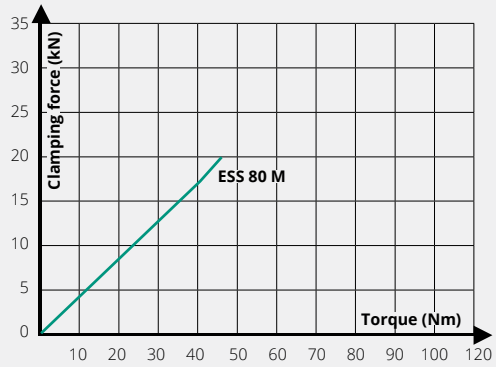
### Impressive advantages:

- Multi-purpose, compact design with reduced protruding edges
- Wide range of jaws allows versatile machining.
- Repeat accuracy  $\leq 0.01$  mm
- Fixed jaws secured on all levels (X,Y,Z)
- Centring accuracy  $\pm 0.1$  mm
- Basic equipment: 2 stepped jaw attachments with grip bar and hand crank

Technical drawing



Clamping force diagrams



Order No.

Type	ESS 80 M UNI	ESS 80 HD UNI
Order No.	E1311	E1331
without jaws	E1311000100	E1331000100





ESS 80 M

## Single vice used for a variety of purposes

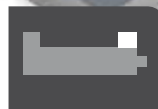
Suitable  
accessories  
you can find  
starting from  
page 96



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  $\leq 0.01$  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



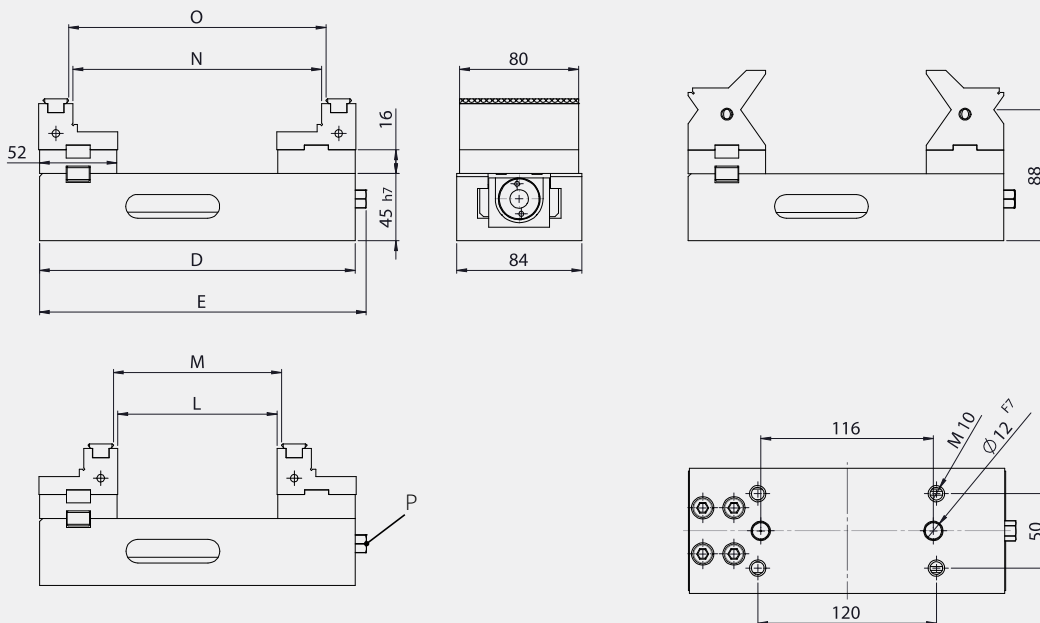
Clamping force diagram



Technical specifications

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 96



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  $\leq 0.01$  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

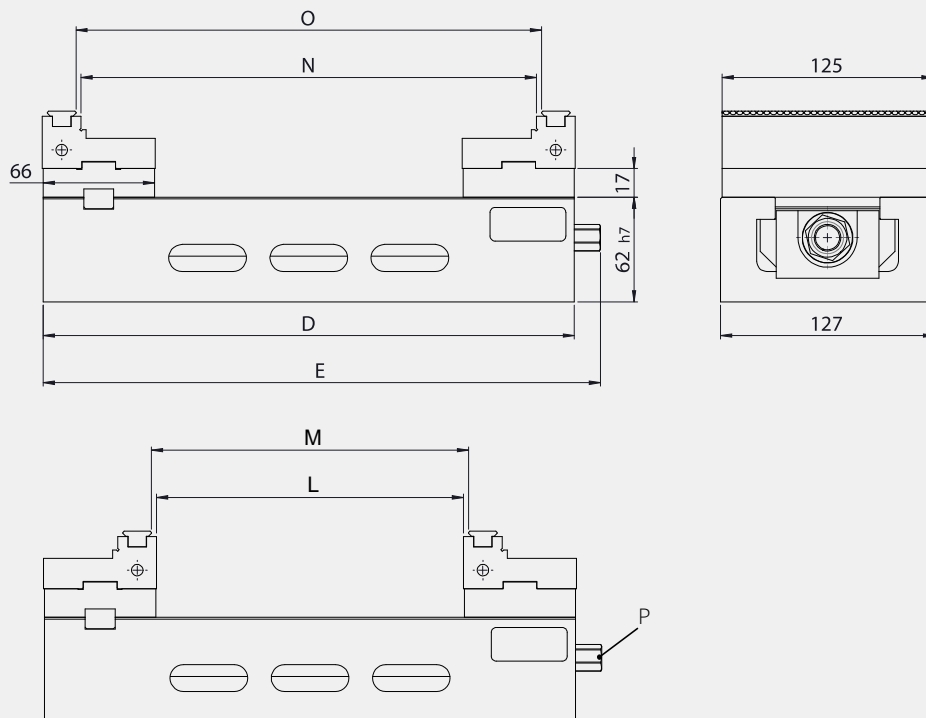
Clamping force diagram



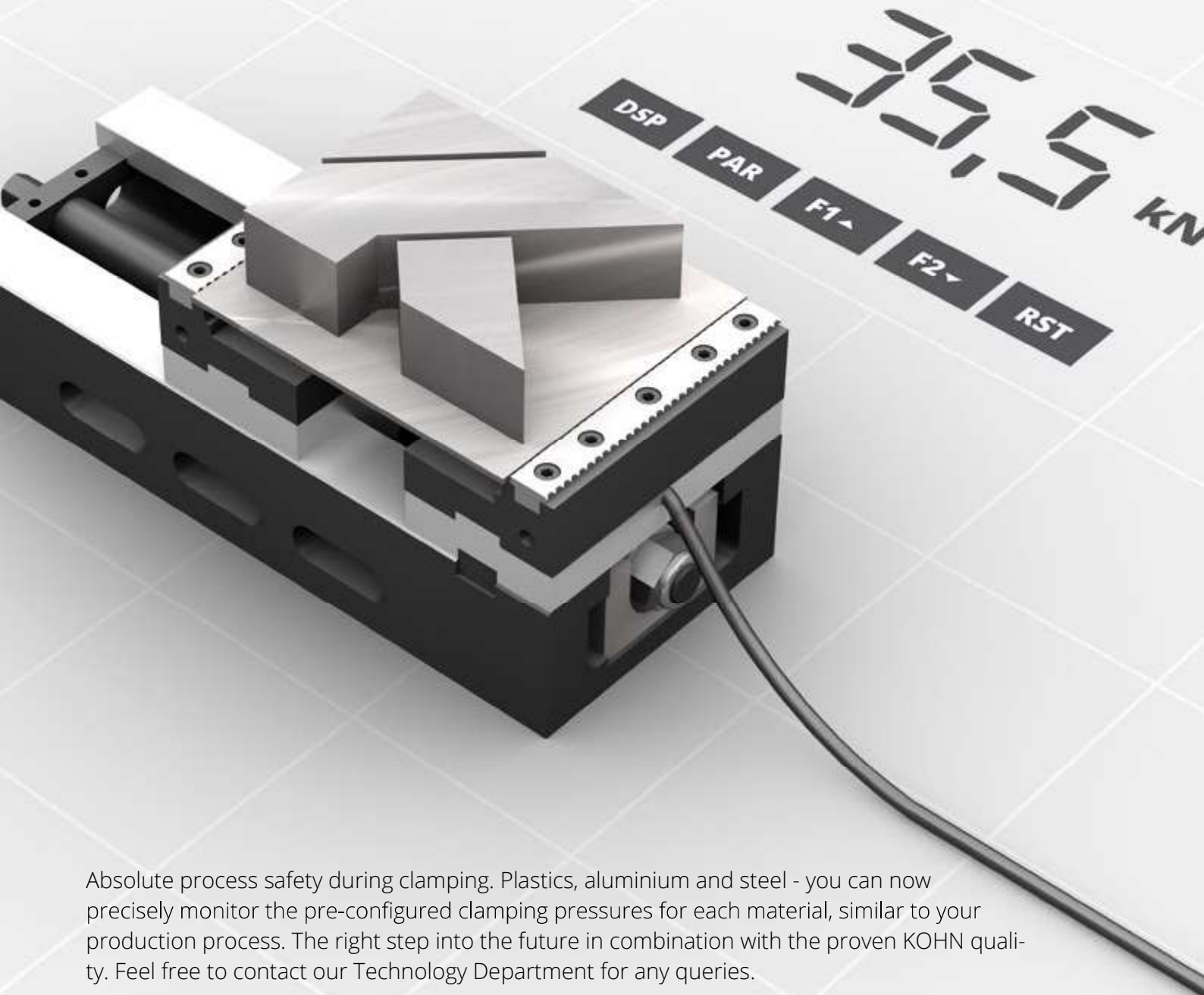
Technical specifications

Jaw width	A	125	125
Order No.		0151S245	0151S315
without jaws		0151S245 0001	0151S315 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