



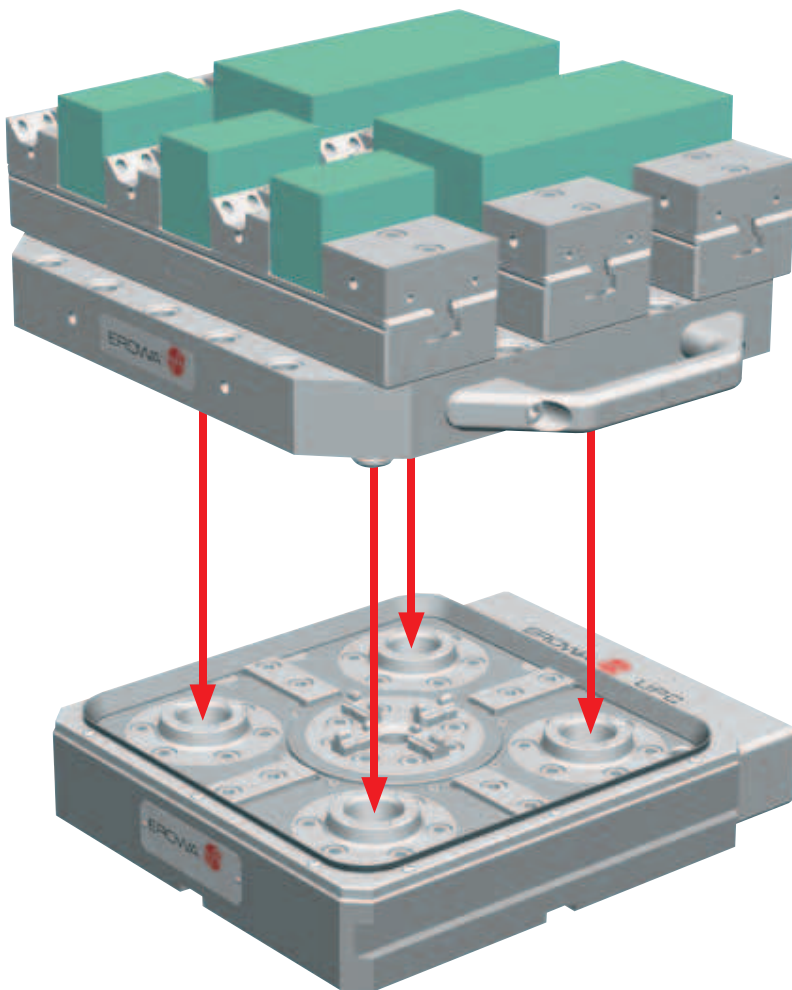
General Catalog

Unlocking the full potential
of your machines



EROWA ClampSet Can be used universally

**EROWA ClampSet is the modular system for clamping workpieces.
It is universally applicable throughout the EROWA Manufacturing Concept.**



- The ClampSet offers enormous flexibility. A great number of various precise clamping elements are available.
- It serves to clamp both machined workpieces and blanks.
- A variety of jaws enable many different workpiece forms to be clamped.
- A maximum clamping range of 225 mm also provides room for large workpieces.
- Workpieces are set up and preset outside the machine; this makes for an optimal use of time and cuts costs.
- Once the ClampSet has been palletized, it is immediately suitable for the automatic loading of machines.

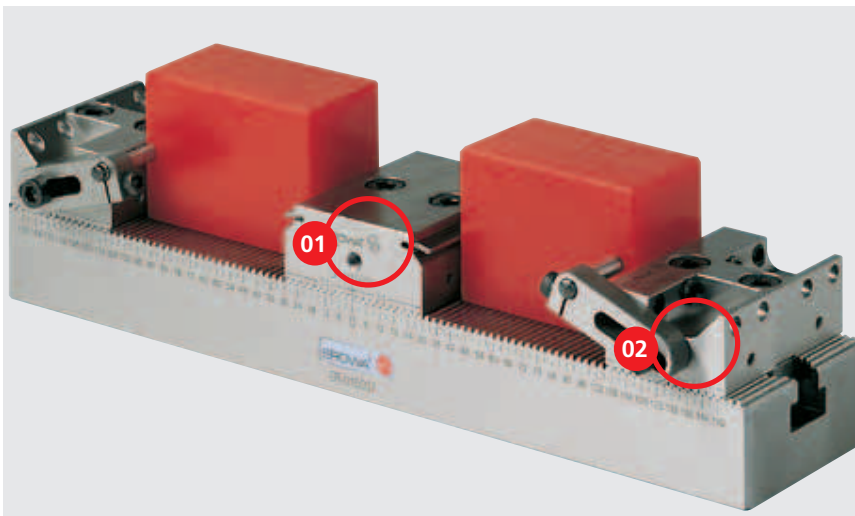
Applications



Handling

Manual / Loading facility / Robot

Function



01 | ClampSet Block N

the pull-down jaw in combination with the ClampSet Standard Block offers the ideal pull-down effect.

02 | ClampSet Stop

the lateral stop can be attached to any ClampSet jaw.

Technical data - ClampSet

	ClampSet Base 220	ClampSet Base 320
Clamping range	max. 126 mm	max. 225 mm
Material	steel, hardened, ground	



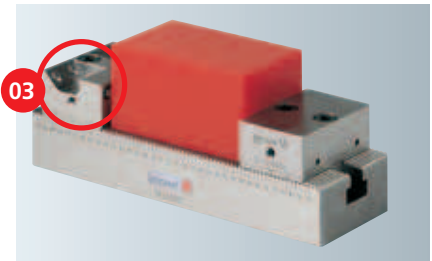
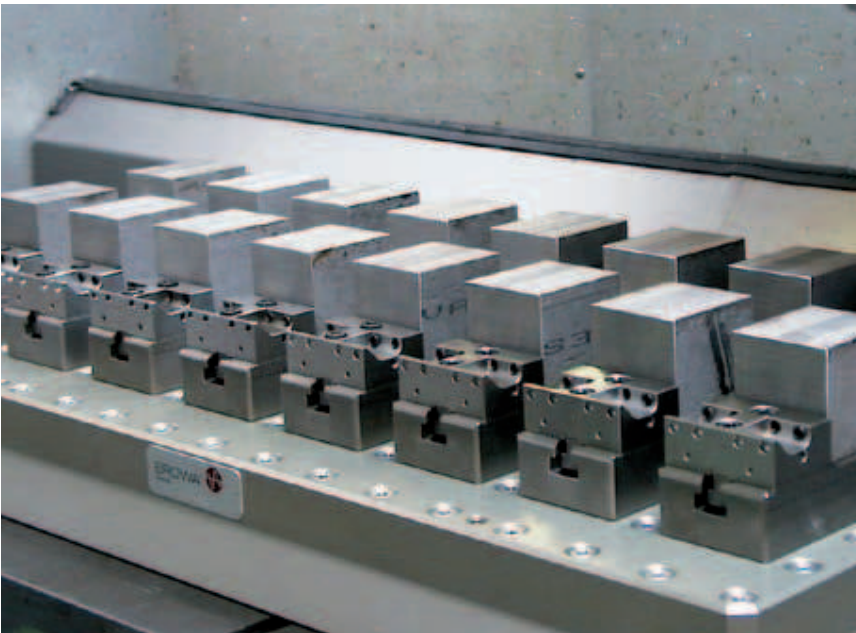
EROWA ClampSet in action

Modular, flexible, precise

Whether it's drilling, milling, grinding or EDM, ClampSet will reduce set-up times.

FLEXIBLE

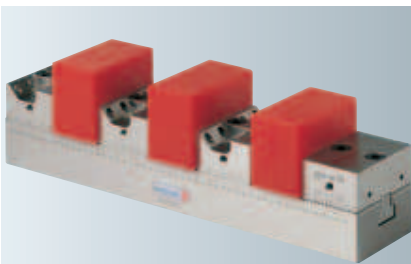
Can be used vertically and horizontally.



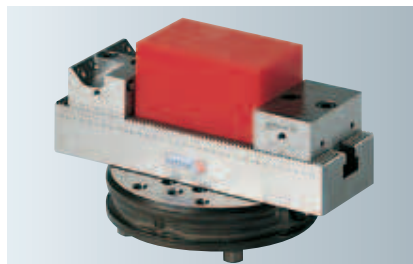
03 | Standard Block

The Standard Block with 4 ball pressure bolts at an angle of 3° to the base surface for an optimal pull-down function.

Base 220, ClampSet Standard Block and ClampSet Block F (hard jaw) to clamp blanks.



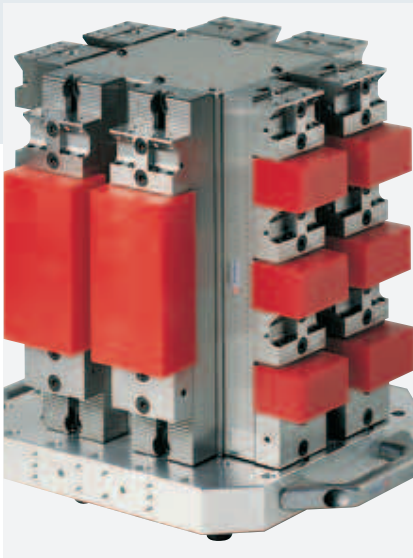
Base 320 with 3 ClampSet Standard Blocks and Block F for multiple fixtures.



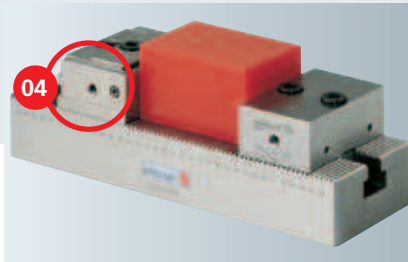
A fixture with Base 220 on an ITS pallet
ø 148 mm.



ClampSet vise on ITS pallet. Positioning to μ -accuracy and ready for use within seconds.



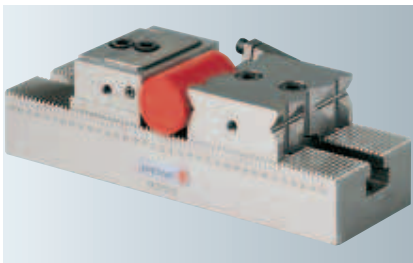
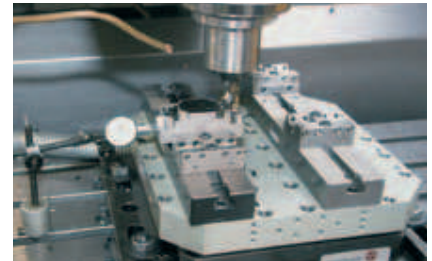
The multiple fixture on Cube and the UPC pallet for horizontal machining.



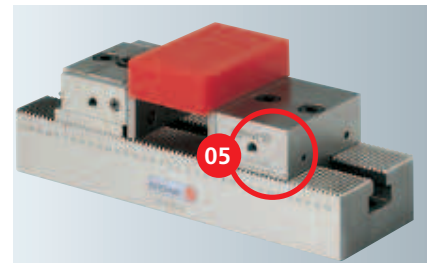
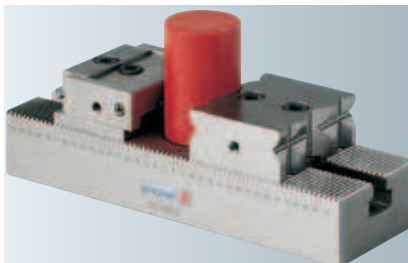
04 | ClampSet Slide

ClampSet Slide; the precision clamping jaw for multiple clamping.

Base 220, ClampSet Slide and Block F to clamp machined parts (grinding vise).



Base 220, ClampSet Slide and prismatic jaw to clamp various cylindrical parts, both horizontally and vertically.



05 | Support N

Support N; to clamp flat, low workpieces.

Base 220, ClampSet Slide, Block F and Support N (in two parts).



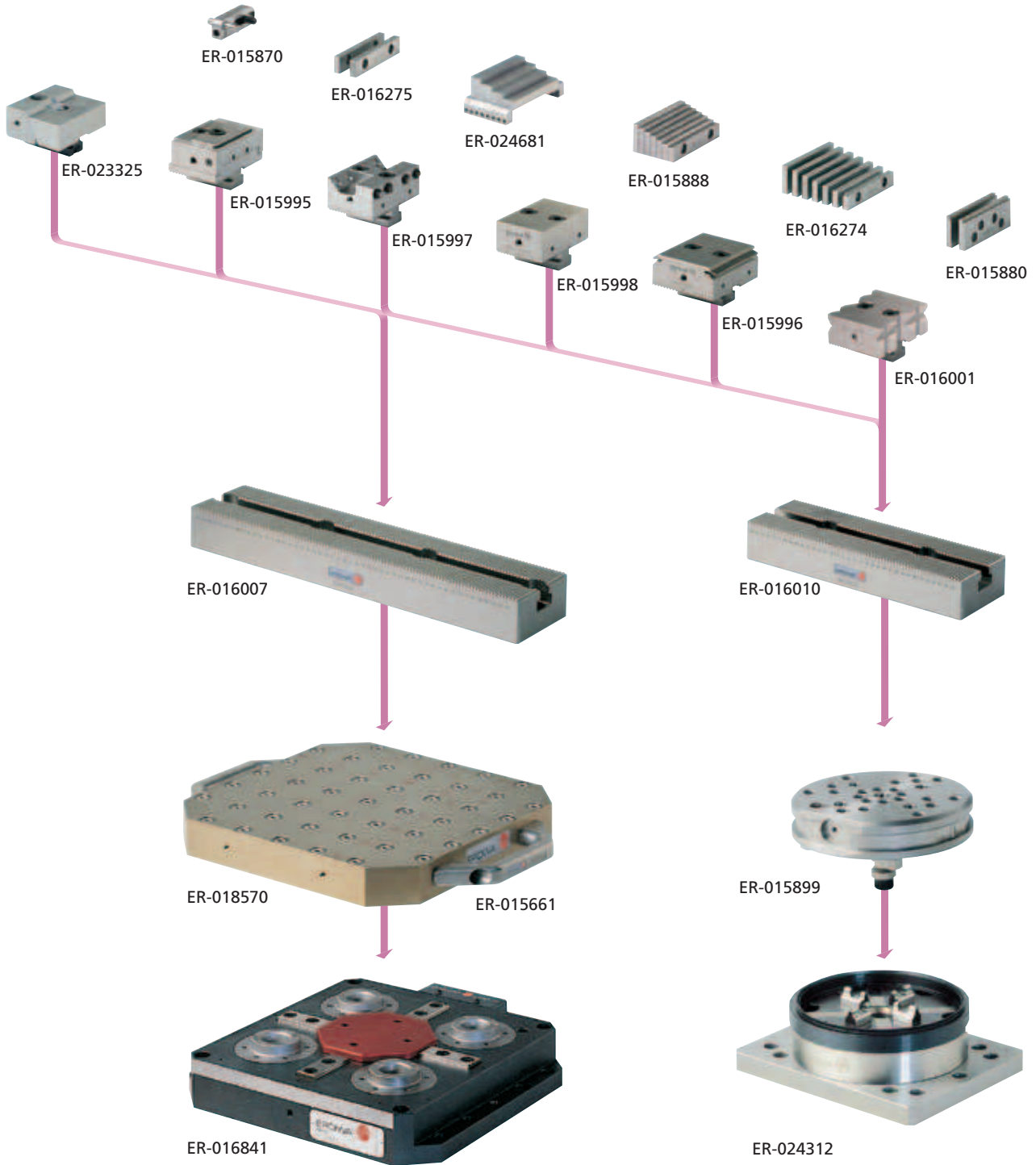
ClampSet also for long and big workpieces.



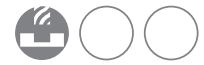
EROWA ClampSet

Clamping elements

















The components



To make it easier for you to find your way about the fields of application for EROWA products, we use the following symbols in all our documents:



EROWA CLAMPSET CLAMPING ELEMENTS

1. Manual operation 
2. Operate with compressed air jet 
3. Operate with manual valve 
4. Operate with manual control unit 
5. Operate with electro-pneumatic control unit 
6. With central flushing clearance 
7. Suited for submerged operation 
8. Corrosion-resistant material 
9. Suited for automatic operation 
10. Handling with EROWA Robot gripper S 
11. Handling with EROWA Combi gripper 
12. Handling with EROWA Robot gripper 72 
13. Handling with EROWA Robot gripper 115 
14. Handling with EROWA Robot gripper 148 
15. Handling with EROWA gripper RN PC 210 
16. Handling with EROWA RCS gripper 

ClampSet	Technical data	110
ClampSet	Base	112
ClampSet	Clamping elements	113



For chip-removing processes



For EDM sinking



For WEDM

EROWA ClampSet clamping elements

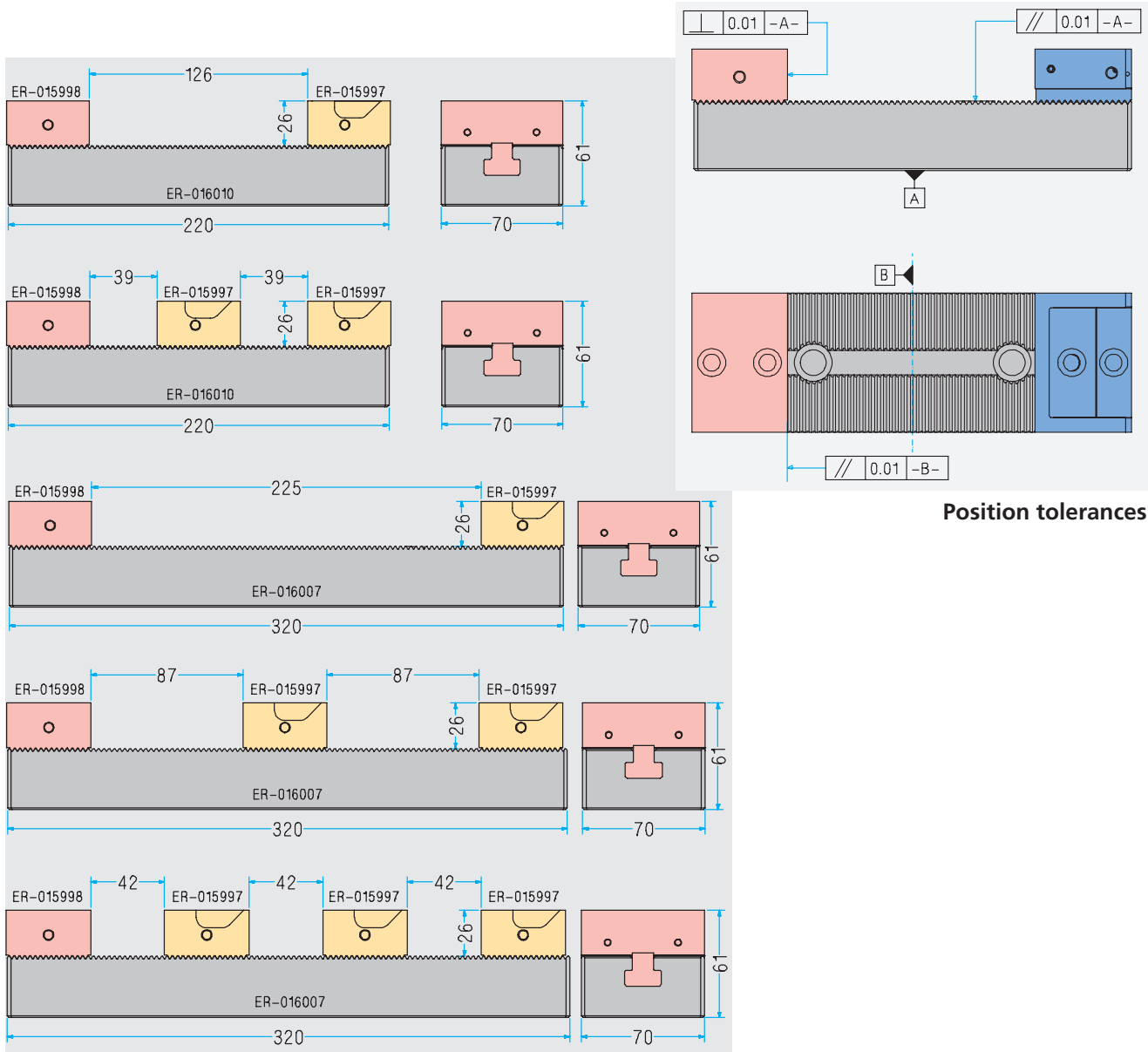
Application ClampSet Standard block

ER-015997	ClampSet Standard block
ER-015998	ClampSet Block F
ER-016010	ClampSet Base 220
ER-016007	ClampSet Base 320

ClampSet Standardblock Number of ball-pressure bolts	Clamping power in kg ±10% at a torque of		
	5 Nm	10 Nm	15 Nm
2	900	1750	2500
4	1450	2750	3900

For the sake of clamping precision and safety, it is very important to tighten the bolts with a torque wrench.

Data given are guiding values, which may be impaired by dirt and other environmental influences.



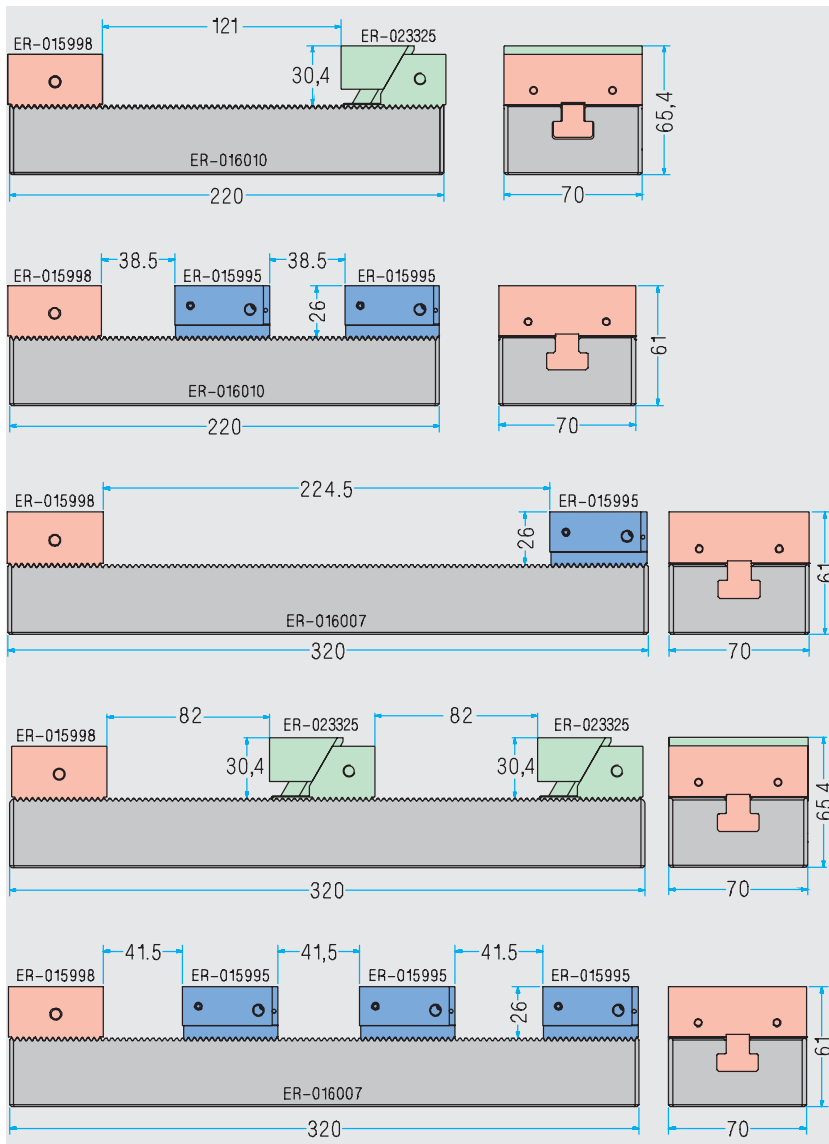
Position tolerances

Application ClampSet Slide / Jaw

ER-015995	ClampSet Slide
ER-023325	ClampSet Jaw
ER-015998	ClampSet Block F
ER-016010	ClampSet Base 220
ER-016007	ClampSet Base 320

Clamping power in kg $\pm 10\%$
 at a torque of
 5 Nm 10 Nm 15 Nm 20 Nm

ClampSet Slide	250	500	750	1000
ClampSet Jaw	300	600	900	1200

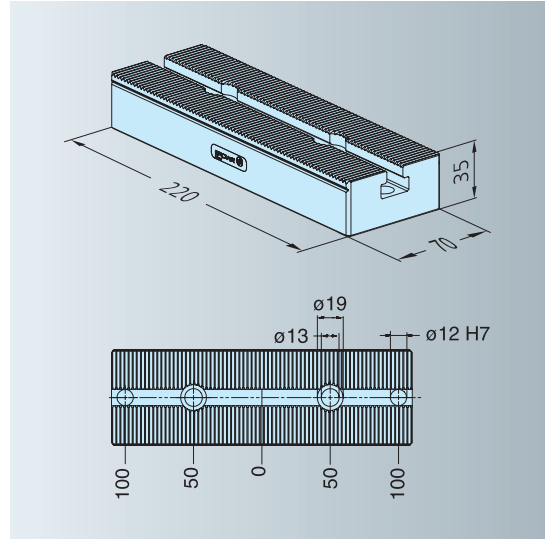


EROWA ClampSet Base

ER-016010 ClampSet base 220



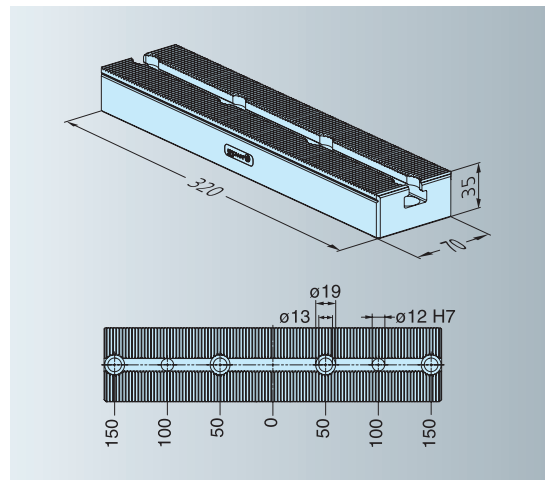
- Version Steel, hardened, ground. Clamping element carrier with 3 mm positioning grid.
- Application On ITS pallets 148 with 25 mm grid and on UPC pallets with 50 mm grid, as a base for the various ClampSet clamping jaws.
- Mounting On all EROWA grid pallets.



ER-016007 ClampSet base 320



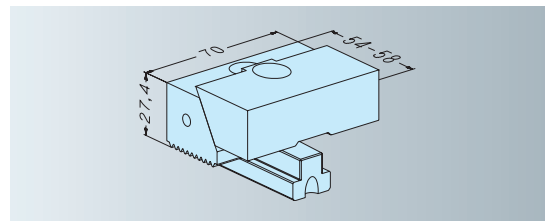
- Version Steel, hardened, ground. Clamping element carrier with 3 mm positioning grid.
- Application On UPC grid pallets R50 or Cube R50, as a base for the various ClampSet clamping jaws.
- Mounting On EROWA UPC and MTS grid pallets R50 or Cube R50.



ER-023325 ClampSet Jaw



- Version Steel, hardened, including tenon block for attachment.
- Application To clamp workpieces with machined surfaces.
- Mounting On ClampSet Base 320 or 220 with tenon block supplied.
- Note Favorably priced alternative to the Clamp Set Slide. The fixed stop side enables multiple fixtures.



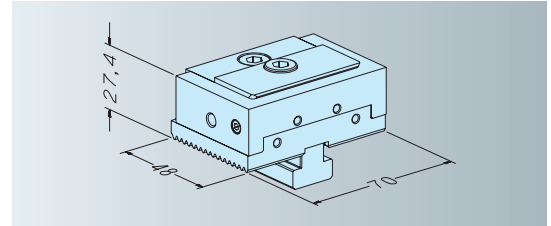
EROWA ClampSet

Clamping elements

ER-015995 ClampSet Slide



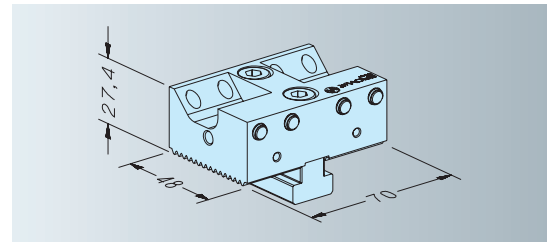
Version Steel, hardened, incl. T-nut for fixation.
 Application To clamp workpieces with machined sides.
 Mounting On ClampSet Base 320 or 220 with the T-nut supplied.
 Note Fixed stop side for the multiple fixture of machined workpieces. The precision clamping jaw in the ClampSet system.



ER-015997 ClampSet standard block M8



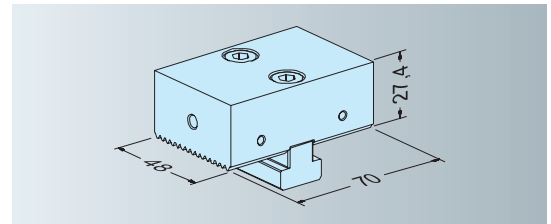
Version Steel, hardened, incl. T-nut for attachment.
 Application The blanks are clamped with the M8 stud bolts. A clamping jaw in EROWA's modular vise system.
 Mounting On ClampSet Base 320 or 220 with the T-nut supplied.
 Note The fixed stop side allows for multiple fixtures.



ER-015998 ClampSet block F



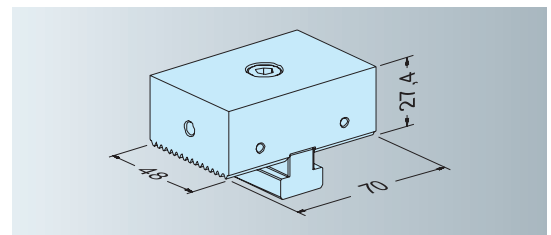
Version Steel, hardened, incl. T-nut for attachment.
 Application Hard jaw in EROWA's modular vise system.
 Mounting On ClampSet 320 or 220 with the T-nut supplied.



ER-015999 ClampSet block S steel soft



Version Steel, soft, incl. T-nut for attachment.
 Application The soft block serves to produce a workpiece-specific hard jaw.
 Mounting On ClampSet 320 or 220 with the T-nut supplied.



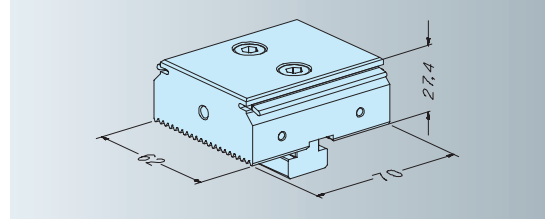
EROWA ClampSet

Clamping elements

ER-015996 ClampSet block N pull-down jaw



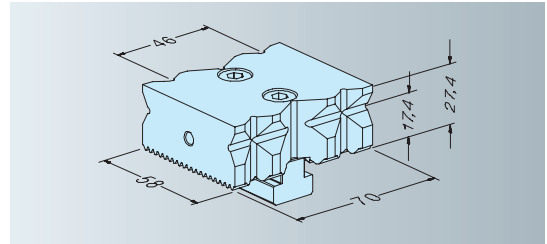
Version	Steel, hardened, incl. T-nut for attachment.
Application	To clamp blanks. Hard jaw in EROWA's modular vise system.
Mounting	On ClampSet 320 or 220 with the T-nut supplied.
Note	Pull-down function when clamping.



ER-016001 ClampSet block Prisma



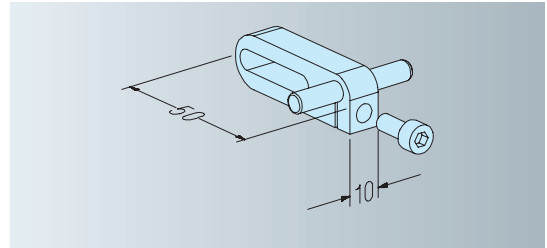
Version	Steel, hardened, incl. T-nut for attachment.
Application	To clamp round parts. Hard jaw in EROWA's modular vise system.
Mounting	On ClampSet 320 or 220 with the T-nut supplied.



ER-015870 ClampSet Stop adjustable stop



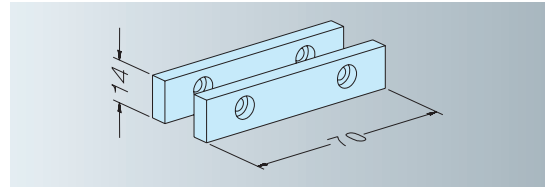
Version	Adjustable stop, steel.
Application	Lateral stop for every ClampSet element.
Mounting	Laterally to the relevant ClampSet block with the bolts supplied.



ER-016275 ClampSet support kit 14 mm

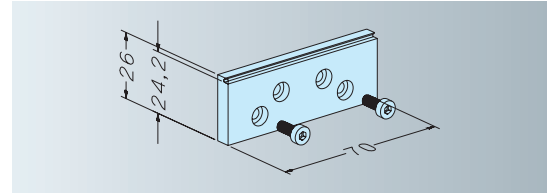


Version	Ground support (1 pair), 14 mm high, with four bolts.
Application	Support for the height positioning of workpieces.
Mounting	To the ClampSet Standard Block with the bolts supplied.

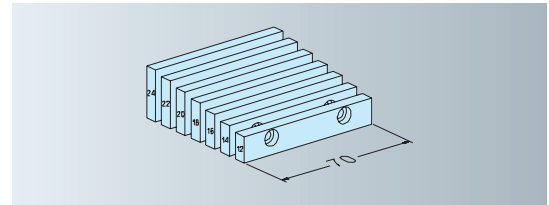


**ER-015880 ClampSet Support N
1 pair**

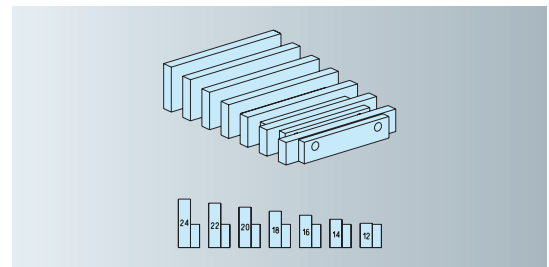
Version	Steel, hardened, ground, with bolts.
Application	Pull-down element for ClampSet Slide and ClampSet Block. To clamp workpieces of aluminum and non-ferrous heavy metal.
Mounting	To ClampSet Slide and ClampSet Block with the bolts supplied.
Note	Also suitable for clamping workpieces of low height.

**ER-015888 ClampSet Support Kit
7 parts, grinded supports**

Version	Set of 7 ground supports; 12, 14, 16, 18, 20, 22 and 24 mm high; with bolts.
Application	Supports for the height positioning of workpieces.
Mounting	To the various ClampSet Blocks with the bolts supplied.

**ER-016274 ClampSet support kit
7 parts, stepped**

Version	Set of 7 ground, offset supports, with bolts.
Application	Supports for the height positioning of workpieces.
Mounting	To ClampSet Slide with the bolts supplied.

**ER-024681 ClampSet support kit
grinded supports**

Version	Set of 8 ground supports, heights 10, 14, 18 and 22 mm.
Application	Support for the height positioning of workpieces.
Mounting	The supports are clamped on the base from above.

