

System 3R palletizing systems with Spreitzer clamping solutions



Workpiece clamping solutions to increase productivity

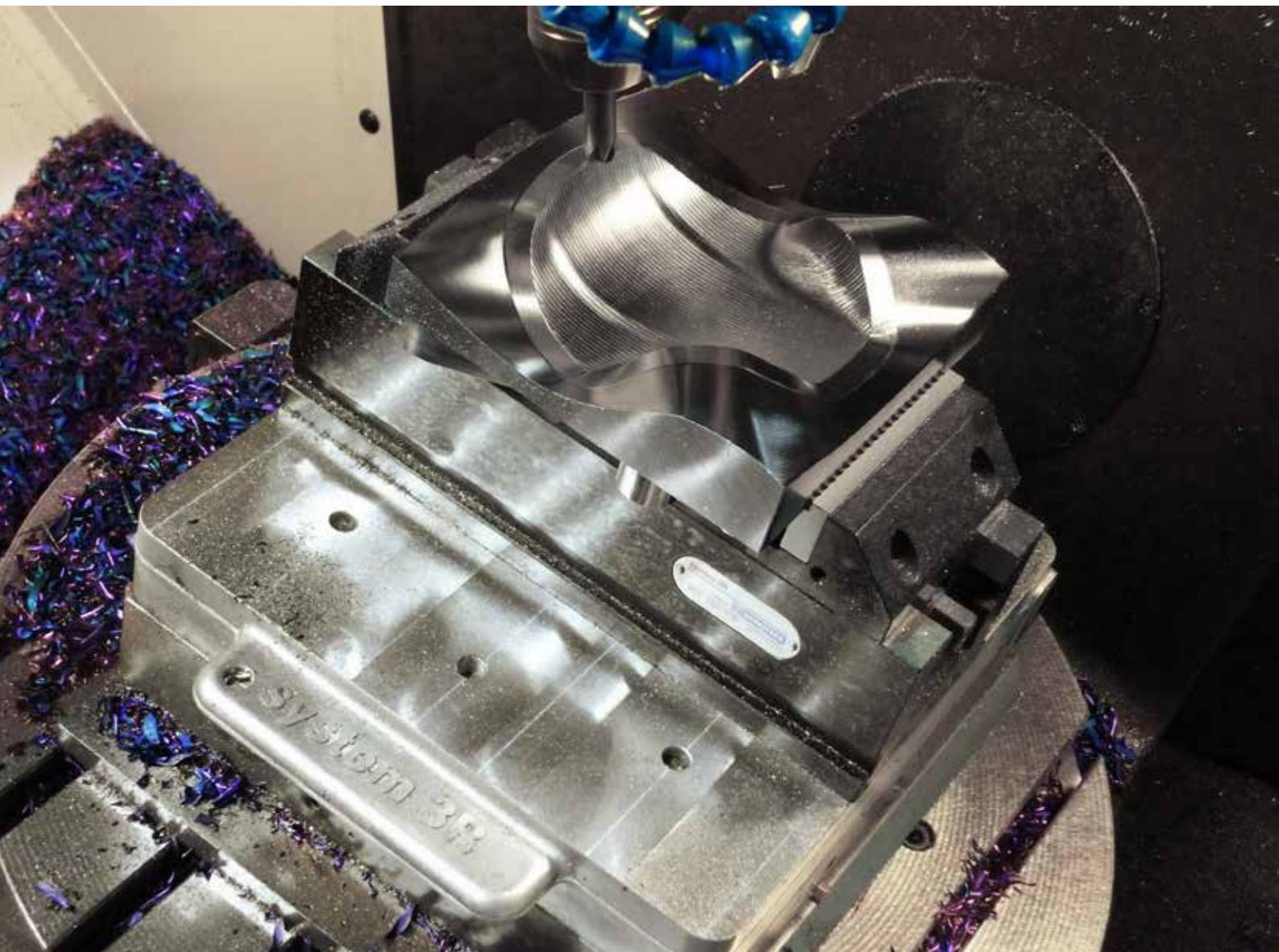
The advantages of a palletable workpiece clamping solution //

These are obvious: This is the only way to equip a pallet with a vise, a special device and a workpiece outside the machine and then quickly change it into the machine and replace it again. You save expensive set-up times and significantly reduce downtime.

However, the prerequisite for this is that all systems are matched to one another. And we offer you: The pallet clamping systems from System 3R and the clamping solutions from Spreitzer are optimally matched to each other and to your workpieces. And not only that: The compact design ensures optimum accessibility to the workpiece.

Use these optimized solutions for palletizing and automation in milling, sinking and measuring, increasing your productivity and reducing costs!

System 3R Dynafix pallet with Spreitzer centre-vise in a 5-axis milling center



Content

The System 3R benefits

- + Standard interface between machine and workpiece
- + Universally applicable in milling, turning, grinding, sinking and measuring
- + Reduced set-up times
- + High precision and quality
- + Indexing 4 x 90°

The advantages of the Spreitzer clamping solutions

- + High centering and repetition accuracy enable highest production quality
- + Less vibration - The stable design allows safe clamping and reduces vibrations on the workpiece
- + In the 5-axis machining, the compact mechanical or pneumatic centre-clamping vises allows exact machining of workpieces to the axis of symmetry or rotation.

The perfect solution

We offer the combination of both systems:
Optimized solutions for palletizing and automation
In this catalog you will find a wide range of
standardized solutions for different workpiece
geometries.

- 4 System 3R palletizing systems
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- 12 System 3R palletizing systems with Spreitzer clamping solutions
 - 12 Macro 54 x 54 mm
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Legende der Lieferbedingungen

-  Delivery from stock,
subject to prior sale
-  Delivery within 4-8 working weeks
after incoming order
-  Special processing.
Delivery only on request.

System 3R palletizing systems

Macro 54 x 54 mm

Hardened and precision-cast, with clearance holes for four fixing screws.

Clamping solutions □ [page 12](#)



- + Adapted for automatic changing
- + Parallel-ground top and bottom faces
- + Fixed index positions 4x90°
- + Rust-resistant

Macro 70 x 70 mm

Hardened and precision-cast, with clearance holes for eight fixing screws.

Clamping solutions □ [page 14](#)

MacroMagnum

Unhardened Ø156 mm pallet with hardened reference elements and hole markings for eight clearance holes.

- + Adapted for automatic changing
- + Ready for code carrier
- + Weight 4.5 kg

Clamping solutions □ [page 16](#)



GPS 70/120 steel pallet

Workpiece and device holder for precision production. Prepared for automation with protection ring, code carrier fixture and gripper contour, without code carrier.

Clamping solutions GPS 70 □ [page 20](#)

Clamping solutions GPS 120 □ [page 26](#)



GPS 70/120 aluminium pallet

Work piece and electrode holder. Prepared for automation with gripper contour and M5 thread for code carrier.

Clamping solutions GPS 70 □ [page 23](#)

Clamping solutions GPS 120 □ [page 29](#)

GPS 240

Cast aluminium pallet.
Suitable for high-speed milling and arduous milling operations. Prepared for automation.

- + Construction height: 48.0 ± 0.01 mm
- + X/Y-centring: with coined cam
- + Flatness: 0.02 mm

Clamping solutions □ **page 32**



Dynafix

Milled aluminium pallet 280x280 mm

- + Adapted for automatic changing
- + Ready for code carrier
- + Flatness 0.04 mm
- + Thickness tolerance +0.5/-0 mm

Clamping solutions □ **page 37**



Delphin drawbars

Positioning and clamping element for use on the System 3R zero-point clamping system Delphin.

Clamping solutions □ **page 42**



Spreitzer clamping solutions

Mechanical centre-clamping vises MZR

- + Attractively priced basic model
- + Powerful raw material clamping without prestamping
- + Reversible jaws for maximum clamping range
- + Repetition accuracy 0.01 mm
- + Pairing accuracy 0.03 mm



Mechanical centre-clamping vises MZE

- + Compact design
- + Wide clamping range
- + Interchangeable clamping jaws for various customer requirements
- + Centering accuracy ± 0.015 mm
- + Repetition accuracy 0.01 mm
- + Pairing accuracy 0.02 mm



Mechanical centre-clamping vises MZU

- + Large clamping range due to reversible top jaws
- + Maximum flexibility
- + Maximum accessibility
- + Centering accuracy ± 0.015 mm
- + Repetition accuracy 0.01 mm
- + Pairing accuracy 0.02 mm



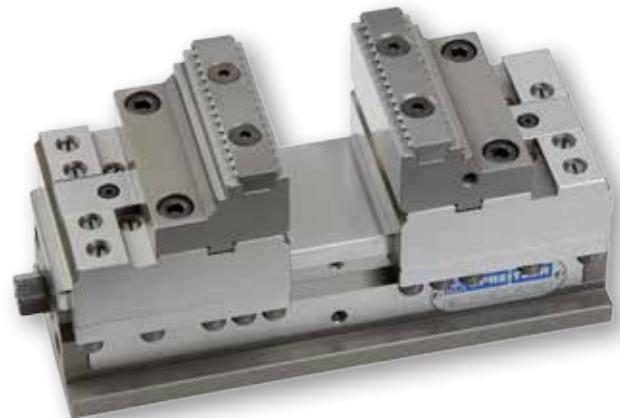
Mechanical centre-clamping vises MZQ

- + Changing jaws within seconds, without using tools!
- + Over 80 % less setup costs
- + Large clamping range due to reversible top jaws
- + Centering accuracy ± 0.015 mm
- + Repetition accuracy 0.01 mm
- + Pairing accuracy 0.02 mm



Mechanical centre-clamping vises MZC

- + First and second setup in the highest quality
- + Unmachined and pre-machined workpieces
- + High clamping and holding force
- + 100 % encapsulated design
- + Pairing accuracy 0.01 mm
- + Centering accuracy ± 0.015 mm (type E)
 ± 0.005 mm (type S)
- + Repetition accuracy 0.01 mm (type E)
0.003 mm (type S)



Mechanical centre-clamping vises MZS

- + High clamping accuracy
- + High centering and repetition accuracy
- + Large variety
- + Centering accuracy ± 0.005 mm
- + Repetition accuracy 0.003 mm
- + Pairing accuracy 0.01 mm



Mechanical compact vises MSU

- + Compact design, maximum accessibility
- + Wide clamping range by reversible top jaws
- + Highest flexibility
- + Pairing accuracy 0.02 mm



Precision vises N xx S

- + Compact design
- + Exchangeable clamping jaws
- + Clamping jaw with pull-down effect
- + Pairing accuracy 0.01 mm



Pneumatic centre-clamping vises PZS

- + Short clamping time
- + Usable for automation
- + High clamping accuracy
- + Centering accuracy ± 0.005 mm
- + Repetition accuracy 0.003 mm
- + Pairing accuracy 0.01 mm



Mechanical three-jaw chucks DBF

- + High precision
- + High clamping force
- + Clamping accuracy better than DIN 6386



Pneumatic three-jaw chucks DBF-P

- + Short clamping time
- + Usable for automation
- + High clamping accuracy
- + Repetition accuracy < 0.02 mm



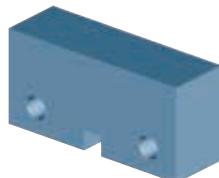
Magnetic chucks

- + High precision plate for grinding and EDM (type SPPF)
Holding force 120 N/cm²
Pole pitch 1.4 + 0.5 mm
- + Extremely strong magnetic chuck for milling+ (type SPPM)
Holding force 180 N/cm²
Pole pitch 11 + 4 mm

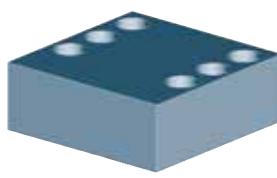


Clamping jaw types

Clamping jaws, soft

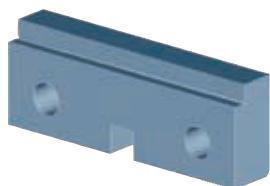


Soft block jaws

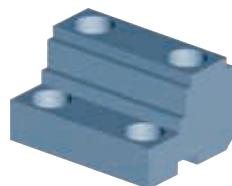


The soft clamping jaws can be machined and fitted on the workpiece.

Step jaws, ground

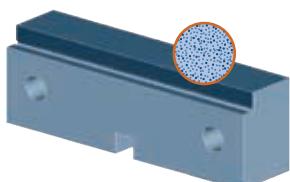


Reversible stepped jaws, ground

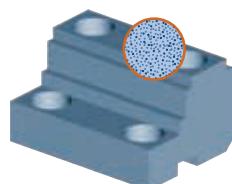


For clamping of finished parts or for use in the second setup.

Step jaws with carbide coating

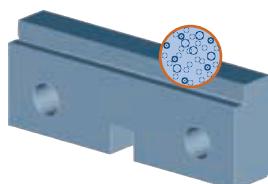


Reversible stepped jaws with carbide coating

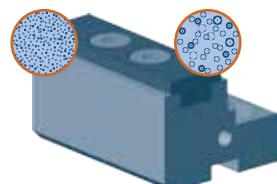


High holding force through increased friction factor. The workpiece surface will not be damaged.

Step jaws, rough with coating

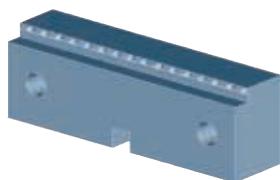


Reversible stepped jaws with clamping insert, rough with coating / carbide coating

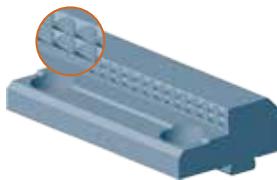


For clamping of high-strength raw material. The hardened and coated surface of the clamping jaws deforms the workpiece surface during the clamping process.

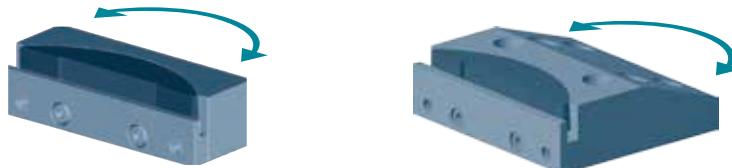
Grip jaws



Stepped grip jaws



For clamping of raw material. The hardened and coated surface of the clamping jaws deforms the workpiece surface during the clamping process.

Pull-down pendulum jaws

With the pull-down pendulum jaws, angular misalignments of several millimetres can be rectified.

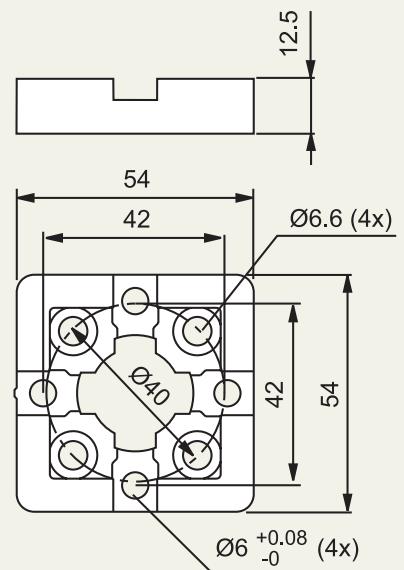
Prism jaws

Hardened and ground prism jaws for clamping round workpieces.

Selection criteria					
Workpiece material	Workpiece surface				
	rolled, casted, forged	drawn	sawn	milled	ground
Steel e.g. 90MnCrV8, 21MnCr5, 40CrMnMoS8-6	rough, grip	carbide coating, ground	rough, grip	carbide coating, ground	carbide coating, ground
Heat-treated steel e.g. C45 induction hardened, 21MnCr5 case-hardened, 40CrMnMoS8-6 nitrided	-	-	-	carbide coating, ground	carbide coating, ground
Rough Castings e.g. gray cast iron, gunmetal	rough, grip	-	-	carbide coating, ground	carbide coating, ground
Titanium	HM	carbide coating, ground	rough, grip	carbide coating, ground	carbide coating, ground
Aluminium	rough, grip	-	rough, grip	carbide coating, ground	carbide coating, ground
NE metals	-	-	rough, grip	carbide coating, ground	carbide coating, ground

Macro 54x54 mm

Item number: 3R-651.7E-P

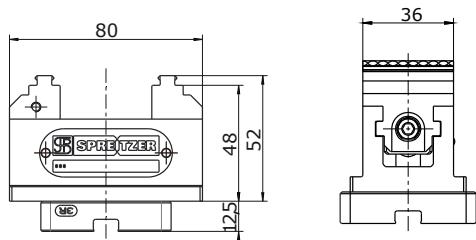


Hardened and precision-cast with clearance holes for four fixing screws.

- + Adapted for automatic changing
- + Parallel-ground top and bottom faces
- + Fixed index positions 4x90°
- + Rust-resistant

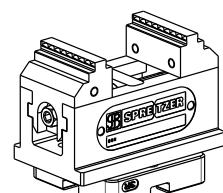
MZR 80-36 & Macro 54 x 54 mm

Item number: B809500412



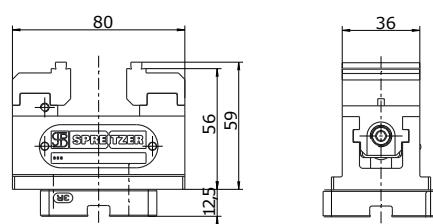
Clamping width 59 mm

Clamping force 16000 N



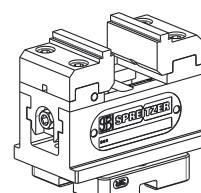
MZU 80-36 & Macro 54x 54 mm

Item number: B809500363



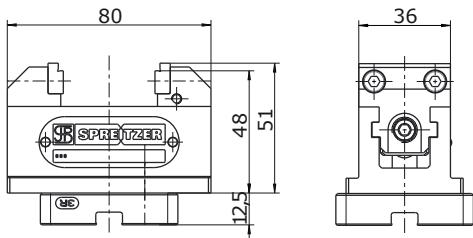
Clamping width 78 mm

Clamping force 16000 N



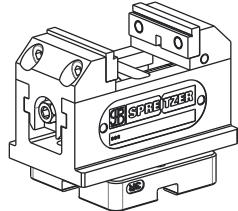
MZE 80-36 & Macro 54 x 54 mm

Item number: B809500002

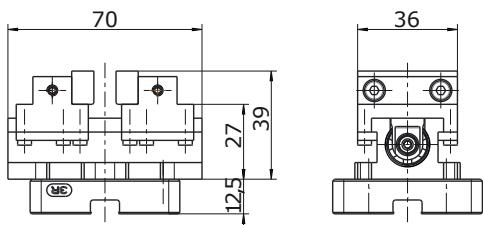


Clamping width 40 mm

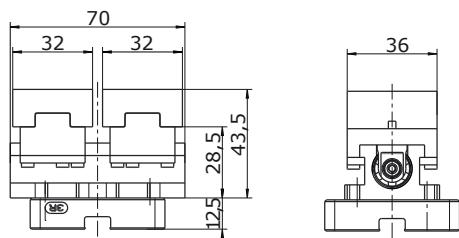
Clamping force 16000 N

**MZS 70-36 A & Macro 54 x 54 mm**

Item number: B809500023

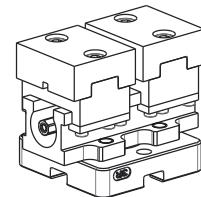
**MZS 70-36 A & Macro 54 x 54 mm**

Item number: B809500023

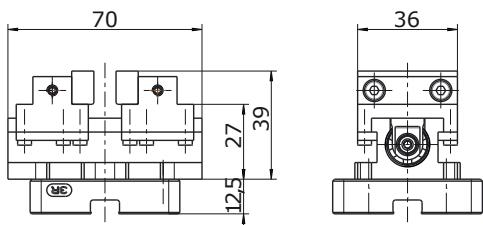


Clamping width 70 mm

Clamping force 10000 N

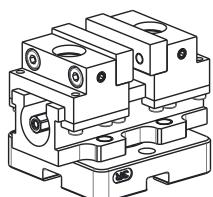
**MZS 70-36 B & Macro 54 x 54 mm**

Item number: B809500024

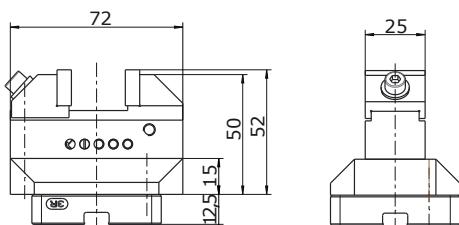


Clamping width 30 mm

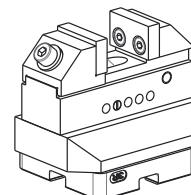
Clamping force 10000 N

**N25S & Macro 54 x 54 mm**

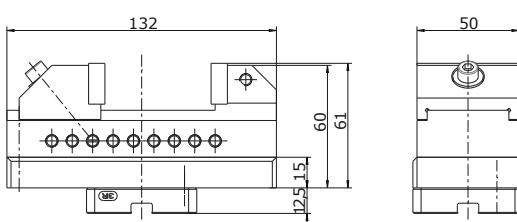
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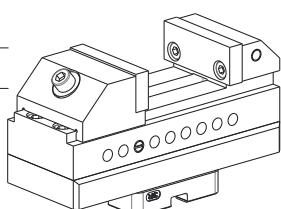
Clamping width 23 mm

**N50S & Macro 54 x 54 mm**

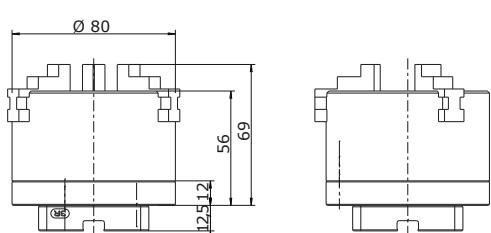
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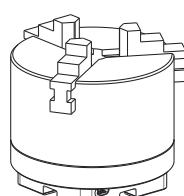
Clamping width 63 mm

**DBF 80 & Macro 54 x 54 mm**

Item number: B809500065

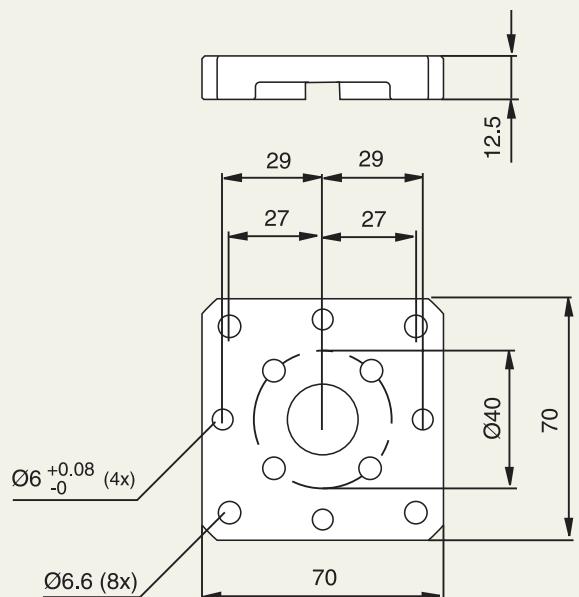
Clamping range 2-27/
External clamping 25-71 mm

Clamping force 1000 N



Macro 70 x 70 mm

Item number: 3R-601.7E-P

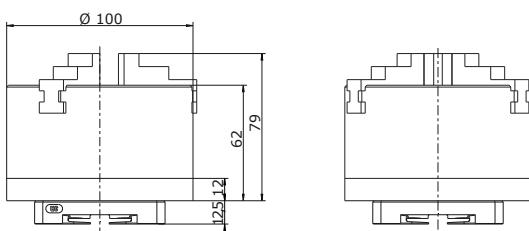


Hardened and precision-cast with clearance holes for four fixing screws.

- + Adapted for automatic changing
- + Parallel-ground top and bottom faces
- + Fixed index positions 4x90°
- + Rust-resistant

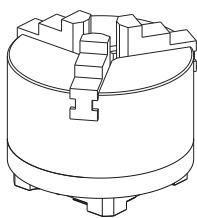
DBF 100 & Macro 70 x 70 mm

Item number: B809500078



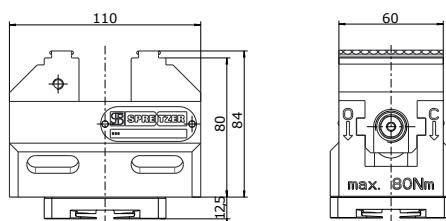
Clamping range 2-33/
External clamping 32-83 mm

Clamping force 17000 N



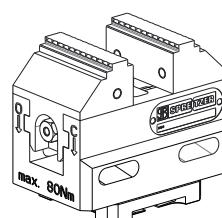
MZR 110-60 & Macro 70 x 70 mm

Item number: B809500435

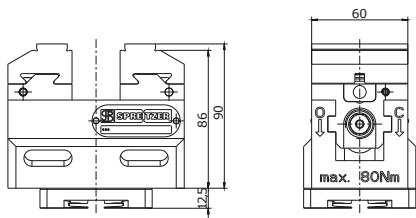


Clamping width 76 mm

Clamping force 30000 N



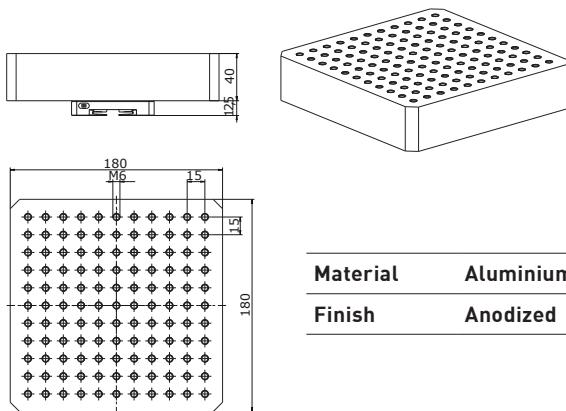
MZQ 110-60 & Macro 70x 70 mm
Item number: B809500452



Clamping width 66 mm

Clamping force 30000 N

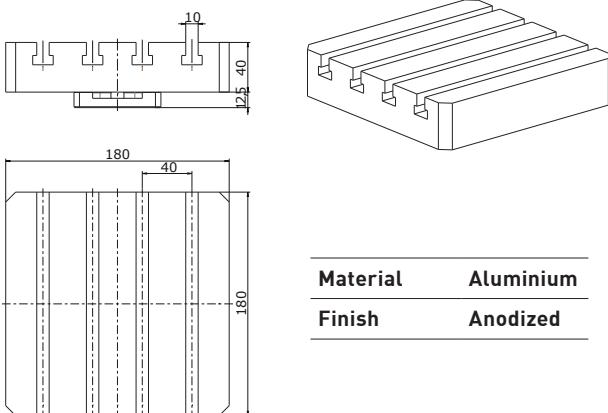
Grid Plate & Macro 70 x 70 mm
Item number: B809500120



Material Aluminium

Finish Anodized

T-Slot Plate & Macro 70 x 70 mm
Item number: B809500127

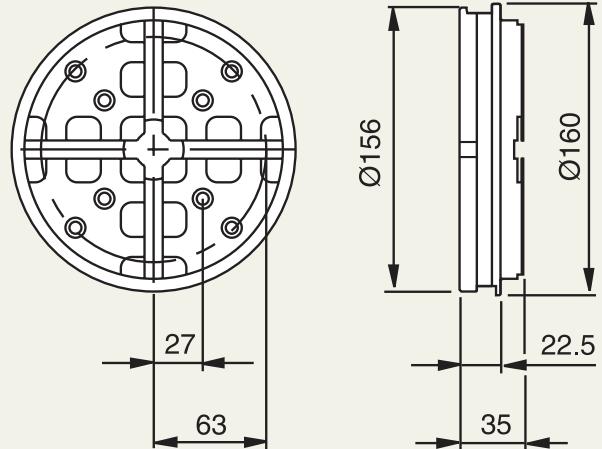


Material Aluminium

Finish Anodized

MacroMagnum

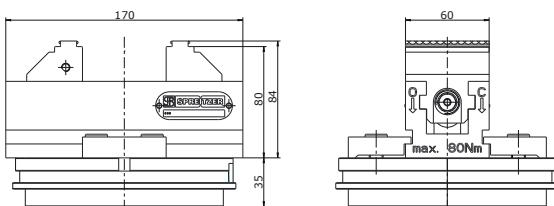
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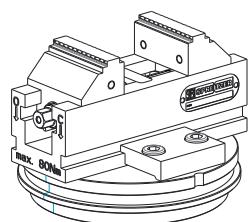
Unhardened pallet with hardened reference and drill marks for eight through holes.

- + Adapted for automatic changing
- + Ready for code carrier
- + Weight 4.5 kg

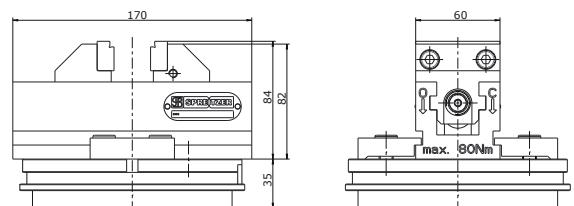
MZR 170-60 & MacroMagnum
Item number: B809500448



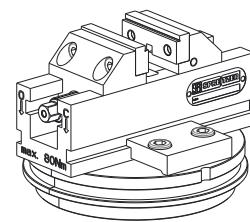
Clamping width 136 mm
Clamping force 30000 N



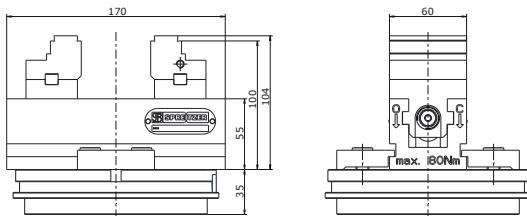
MZE 170-60 & MacroMagnum
Item number: B809500138



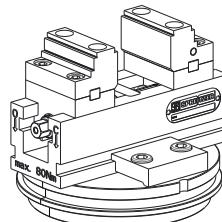
Clamping width 90 mm
Clamping force 30000 N



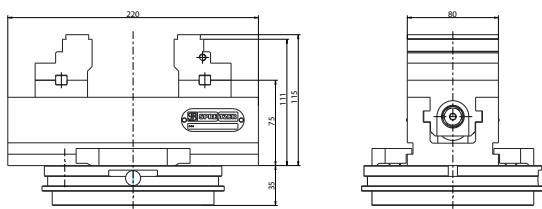
MZU 170-60 & MacroMagnum
Item number: B809500139



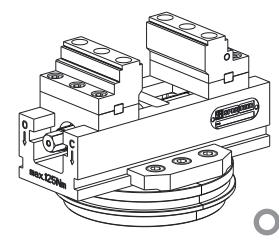
Clamping width 130 mm
Clamping force 30000 N



MZU 220-80 & MacroMagnum
Item number: B809500141



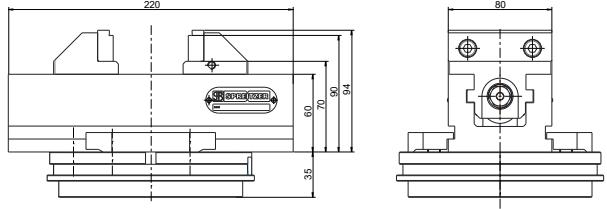
Clamping width 180 mm
Clamping force 40000 N



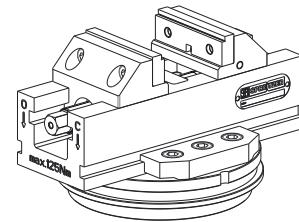
MZS 120-60 A (2x) & MacroMagnum
Item number: B809500150

MZE 220-80 & MacroMagnum

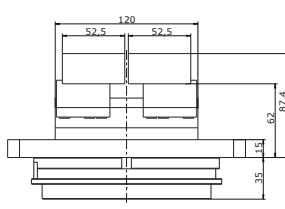
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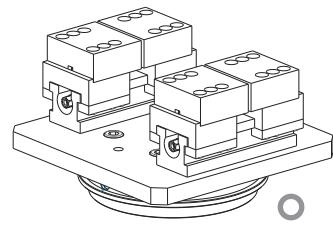
Clamping width 130 mm
Clamping force 40000 N



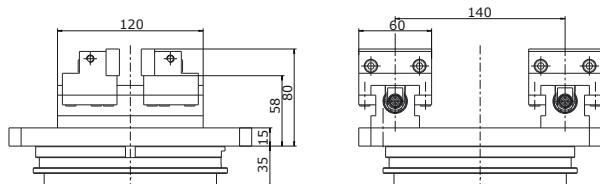
MZS 120-60 A (2x) & MacroMagnum
Item number: B809500150



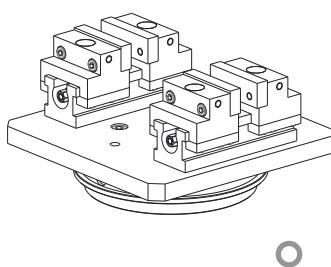
Clamping width 120 mm
Clamping force 16000 N



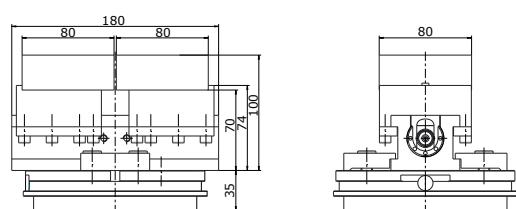
MZS 120-60 B (2x) & MacroMagnum
Item number: B809500151



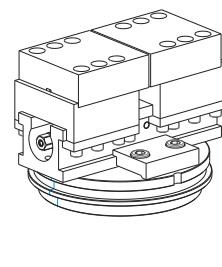
Clamping width 57 mm
Clamping force 16000 N



MZS 180-80 A & MacroMagnum
Item number: B809500156

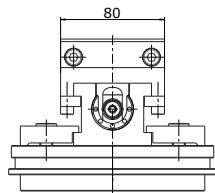
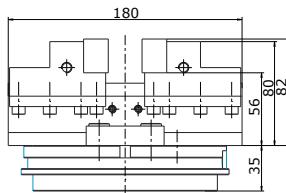


Clamping width 180 mm
Clamping force 30000 N



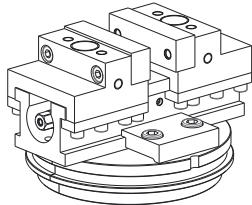
MZS 180-80 B & MacroMagnum

Item number: B809500157

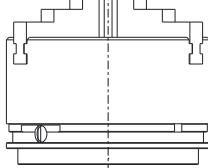
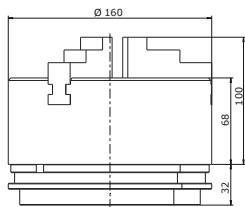


Clamping width 89 mm

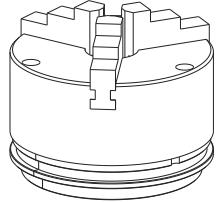
Clamping force 30000 N

**DBF 160 & MacroMagnum**

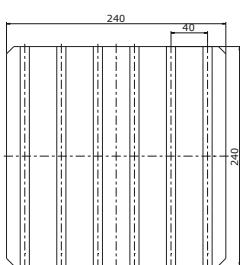
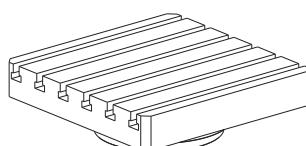
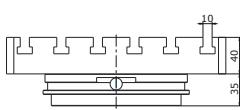
Item number: B809500183

Clamping range 4-64/
External clamping 50-160 mm

Clamping force 31000 N

**T-Slot Plate & MacroMagnum**

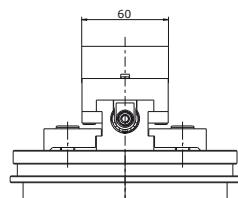
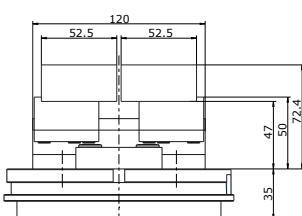
Item number: B809500191



Material	Aluminium
Finish	Anodized

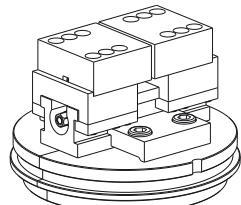
**MZS 120-60 A & MacroMagnum**

Item number: B809500352

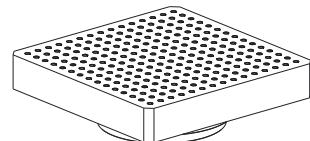
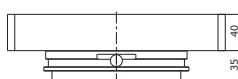


Clamping width 120 mm

Clamping force 16000 N

**Grid Plate & MacroMagnum**

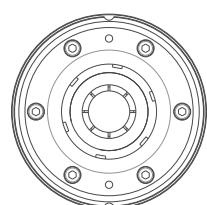
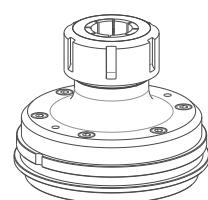
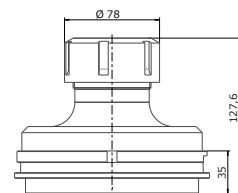
Item number: B809500187



Material	Aluminium
Finish	Anodized

**ER 50 & MacroMagnum**

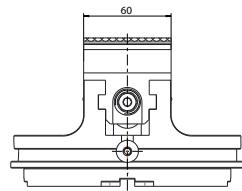
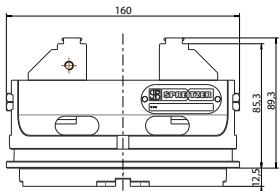
Item number: B809500336



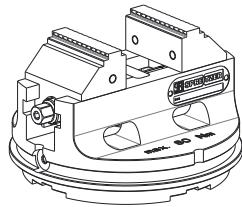
Clamping range 4 - 36 mm



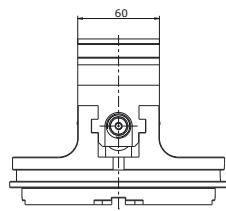
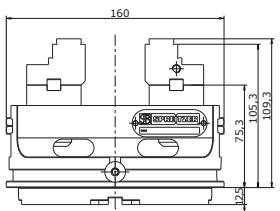
MZR 160-60 PA & MacroMagnum
Item number: B809500423



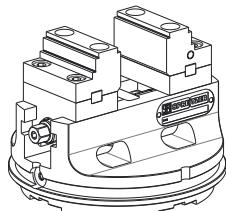
Clamping width 126 mm
Clamping force 30000 N



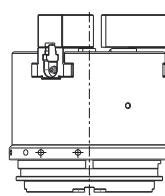
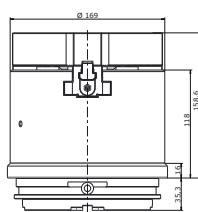
MZU 160-60 PA & MacroMagnum
Item number: B809500425



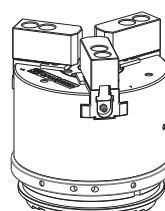
Clamping width 120 mm
Clamping force 30000 N



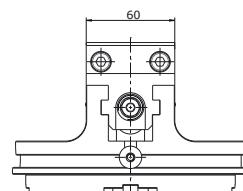
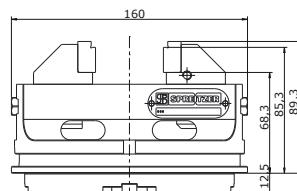
DBF-PH 169 & MacroMagnum
Item number: B809500441



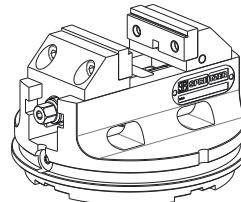
Clamping force
pneumatic 20000 N
hydraulic 50400 N



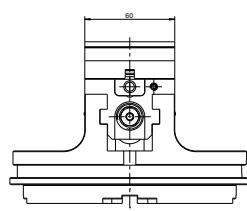
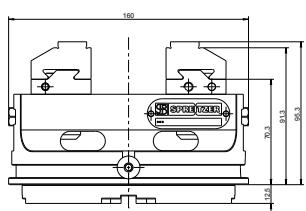
MZE 160-60 PA & MacroMagnum
Item number: B809500424



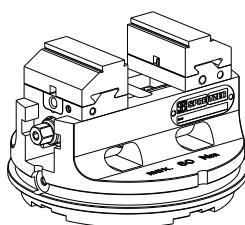
Clamping width 80 mm
Clamping force 30000 N



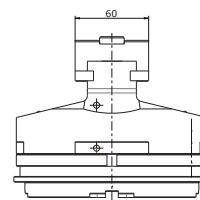
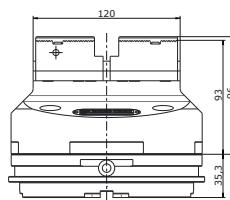
MZQ 160-60 PA & MacroMagnum
Item number: B809500426



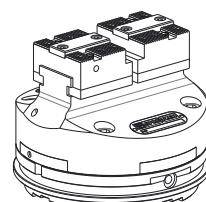
Clamping width 116 mm
Clamping force 30000 N



PZS² 120-60 & MacroMagnum
Item number: B809500440

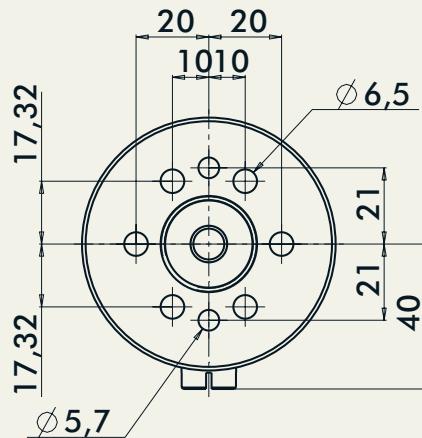
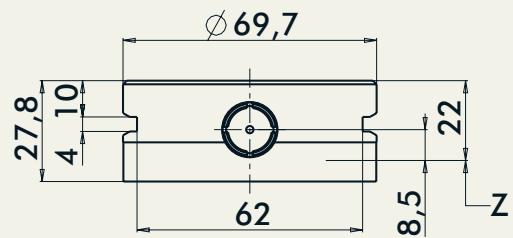


Clamping width 120 mm
Clamping force 16000 N



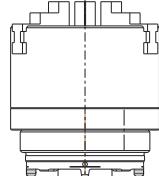
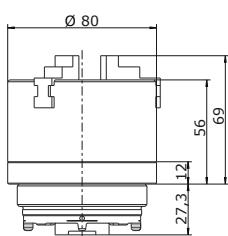
GPS 70 Steel pallet

Item number: C 695 270



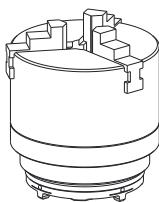
**Workpiece and device holder for precision production.
Prepared for automation with protection ring, code carrier fixture and
gripper contour, without code carrier.**

DBF 80 & GPS 70
Item number: B809500009

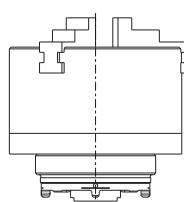
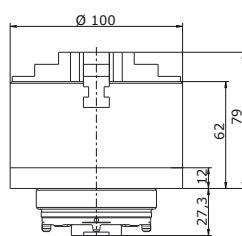


Clamping range 2-27/
External clamping 25-71 mm

Clamping force 10000 N

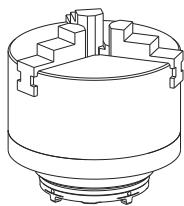


DBF 100 & GPS 70
Item number: B809500081



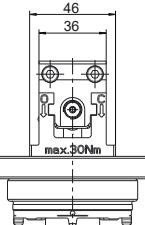
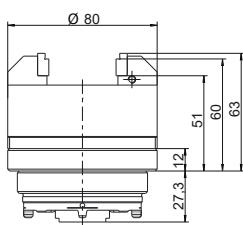
Clamping range 3-33/
External clamping 32-83 mm

Clamping force 17000 N



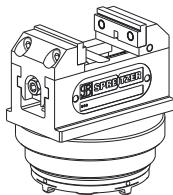
MZE 80-36 & GPS 70

Item number: B809500006

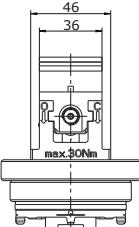
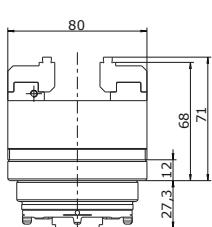


Clamping width 40 mm

Clamping force 16000 N

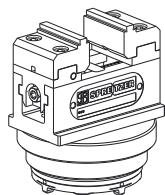
**MZU 80-36 & GPS 70**

Item number: B809500450

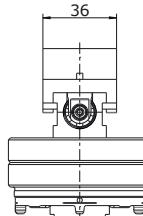
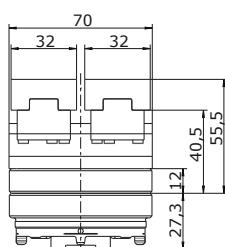


Clamping width 78 mm

Clamping force 16000 N

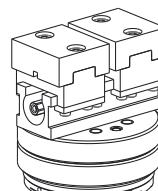
**MZS 70-36 A & GPS 70**

Item number: B809500028

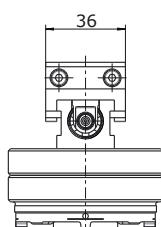
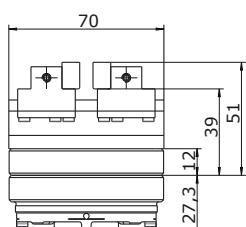


Clamping width 70 mm

Clamping force 10000 N

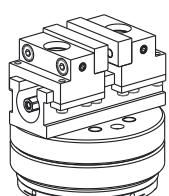
**MZS 70-36 B & GPS 70**

Item number: B809500029

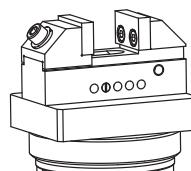
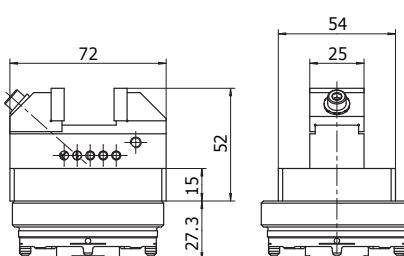


Clamping width 30 mm

Clamping force 10000 N

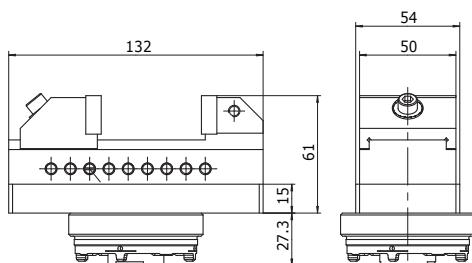
**N25S & GPS 70**

Item number: B809500092

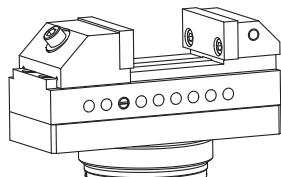


N50S & GPS 70

Item number: B809500114

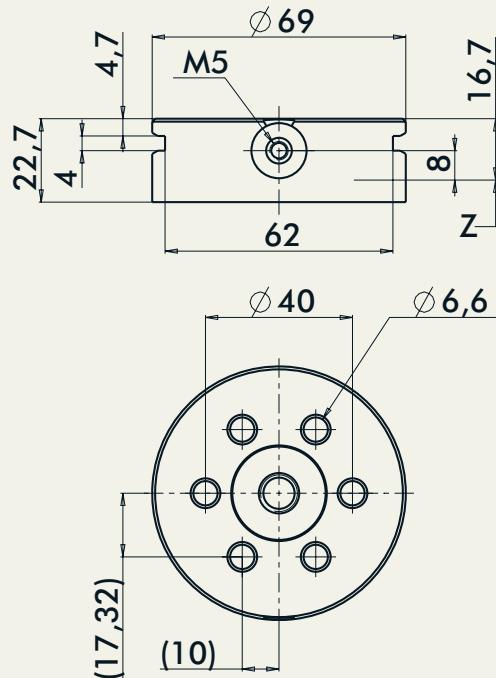


Clamping width 63 mm



GPS 70 Aluminium pallet

Item number: C 695 040

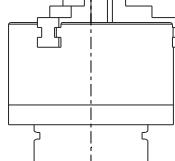
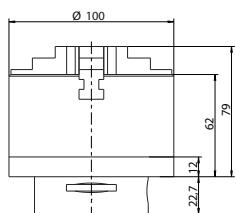


Workpiece and device holder.

Prepared for automation with thread M5 for code carrier.

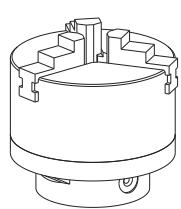
DBF 100 & GPS 70

Item number: B809500082



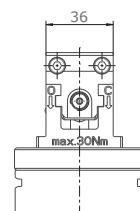
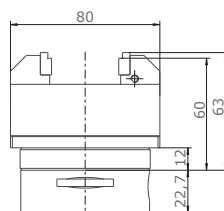
Clamping range 3-33/
External clamping 32-83 mm

Clamping force 17000 N

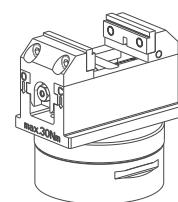


MZE 80-36 & GPS 70

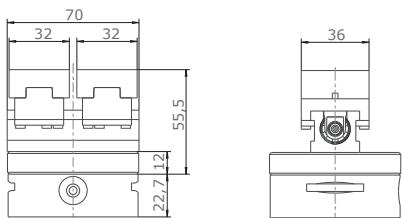
Item number: B809500007



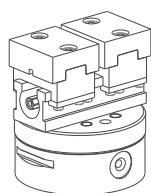
Clamping width 40 mm
Clamping force 16000 N



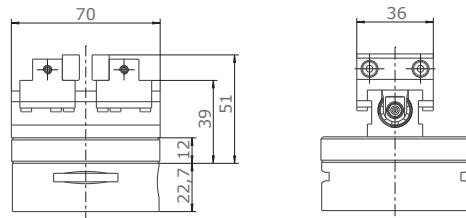
MZS 70-36 A & GPS 70
Item number: B809500232



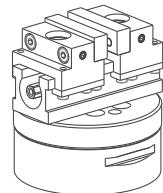
Clamping width 70 mm
Clamping force 10000 N



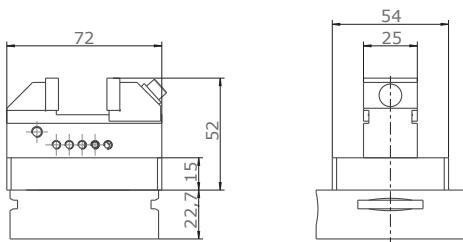
MZS 70-36 B & GPS 70
Item number: B809500231



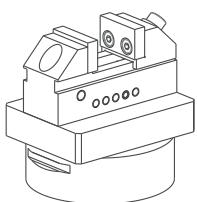
Clamping width 30 mm
Clamping force 10000 N



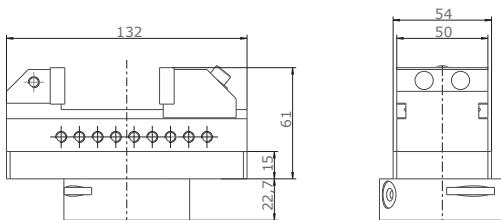
N25S & GPS 70
Item number: B809500093



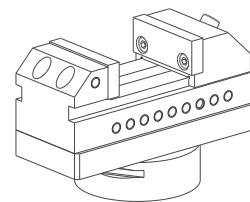
Clamping width 23 mm



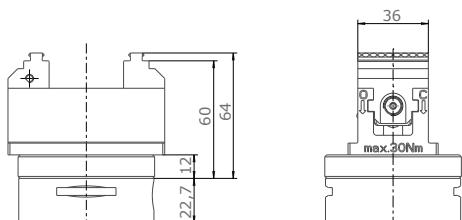
N50S & GPS 70
Item number: B809500115



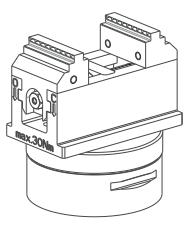
Clamping width 63 mm



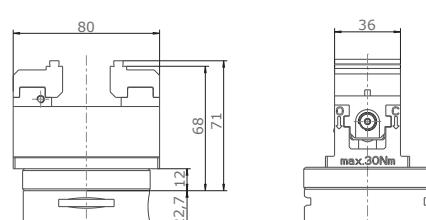
MZR 80-36 & GPS 70
Item number: B809500476



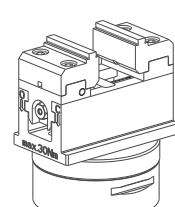
Clamping width 59 mm
Clamping force 16000 N

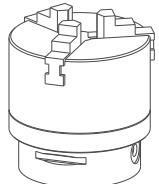
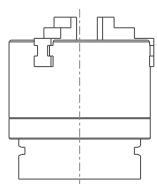
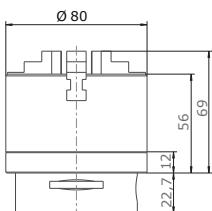


MZU 80-36 & GPS 70
Item number: B809500477



Clamping width 40 mm
Clamping force 16000 N



DBF 80 & GPS 70**Item number: B809500478**

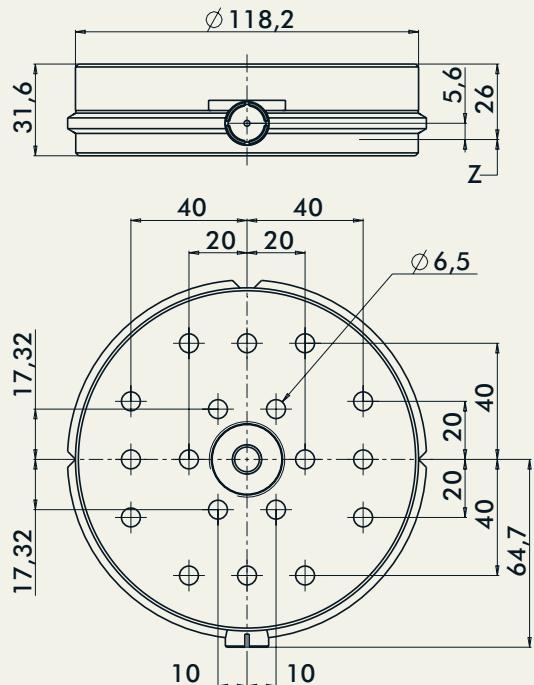
Clamping range 2-27 /
External clamping 25-71 mm

Clamping force 10000 N



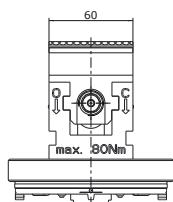
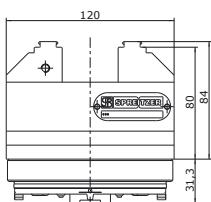
GPS 120 Steel pallet

Item number: C 695 370

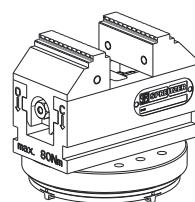


**Workpiece and device holder for precision production.
Prepared for automation with protection ring, code carrier fixture and
gripper contour, without code carrier.**

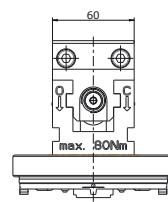
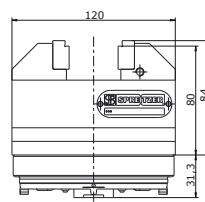
MZR 120-60 & GPS 120
Item number: B809500456



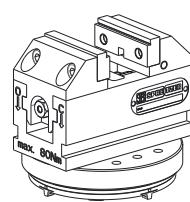
Clamping width 68 mm
Clamping force 30000 N



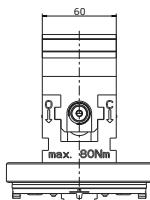
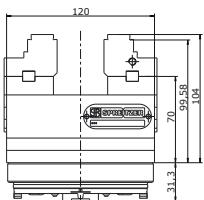
MZE 120-60 & GPS 120
Item number: B809500457



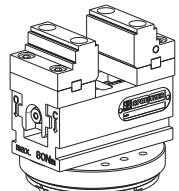
Clamping width 40 mm
Clamping force 30000 N



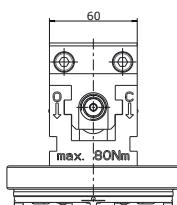
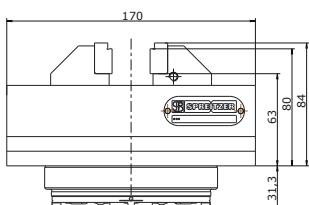
MZU 120-60 & GPS 120
Item number: B809500458



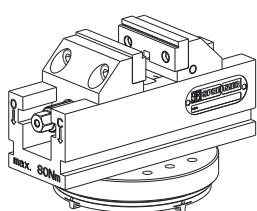
Clamping width 80 mm
Clamping force 30000 N



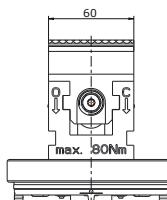
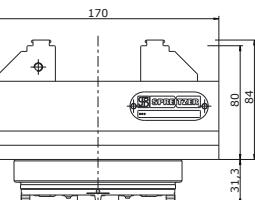
MZE 170-60 & GPS 120
Item number: B809500134



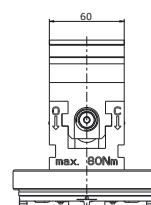
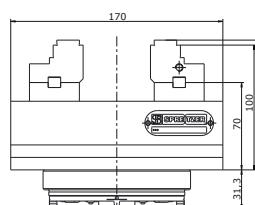
Clamping width 90 mm
Clamping force 30000 N



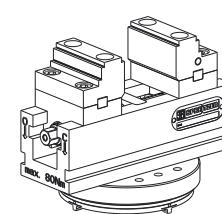
MZU 170-60 & GPS 120
Item number: B809500135



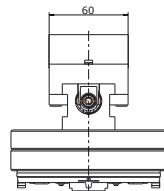
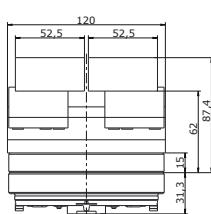
MZU 170-60 & GPS 120
Item number: B809500135



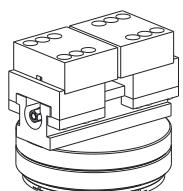
Clamping width 130 mm
Clamping force 30000 N



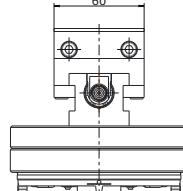
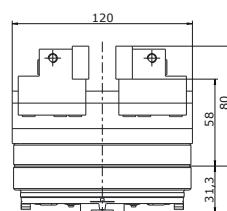
MZS 120-60 A & GPS 120
Item number: B809500146



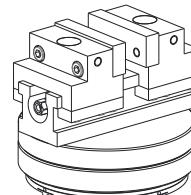
Clamping width 120 mm
Clamping force 16000 N



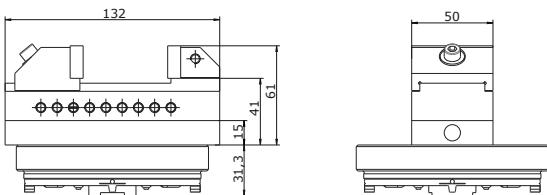
MZS 120-60 B & GPS 120
Item number: B809500147



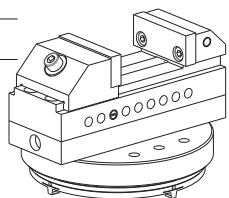
Clamping width 57 mm
Clamping force 16000 N



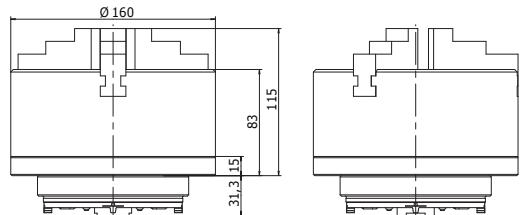
N50S & GPS 120
Item number: B809500142



Clamping width 63 mm

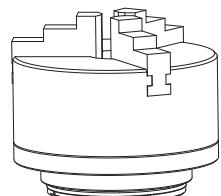


DBF 160 & GPS 120
Item number: B809500179



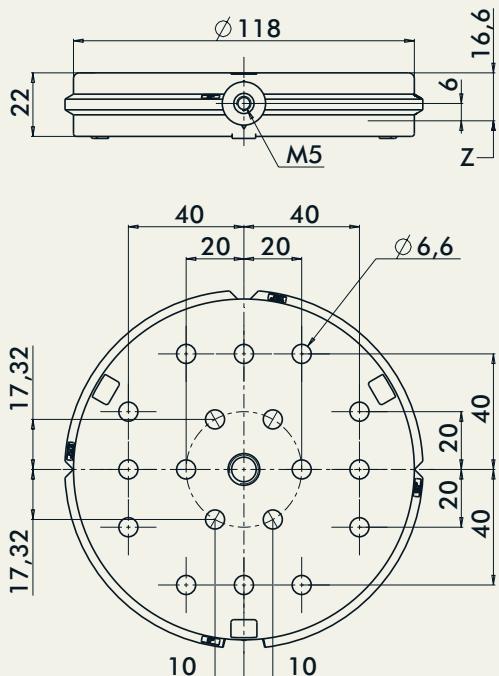
Clamping range 4-64/
External clamping 50-160 mm

Clamping force 31000 N



GPS 120 Aluminium pallet

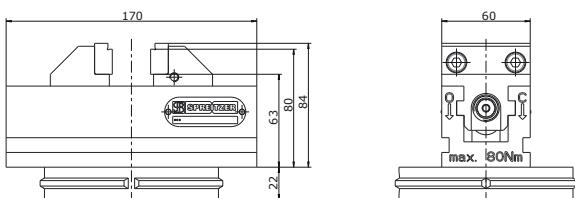
Item number: C 695 140



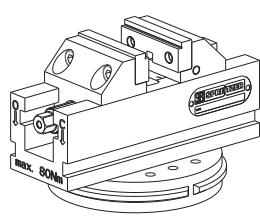
Workpiece or electrode holder.

Prepared for automation with thread M5 for code carrier fixture and gripper contour.

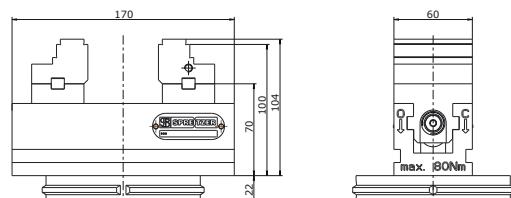
MZE 170-60 & GPS 120
Item number: B809500130



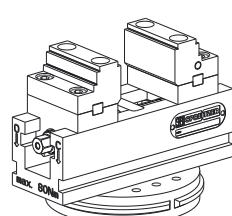
Clamping width 90 mm
Clamping force 30000 N



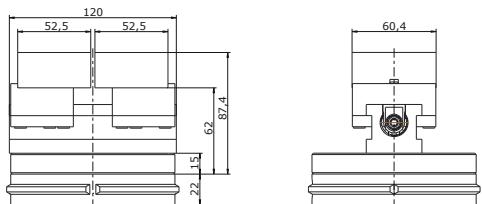
MZU 170-60 & GPS 120
Item number: B809500131



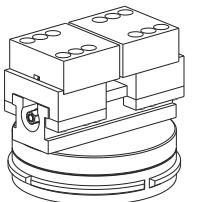
Clamping width 130 mm
Clamping force 30000 N



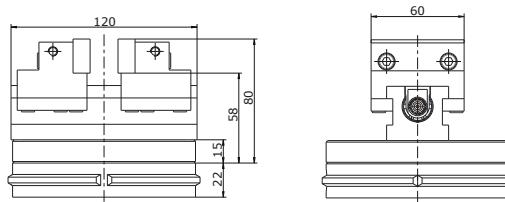
MZS 120-60 A & GPS 120
Item number: B809500148



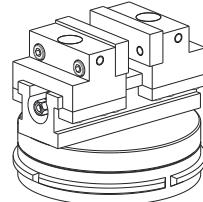
Clamping width 120 mm
Clamping force 16000 N



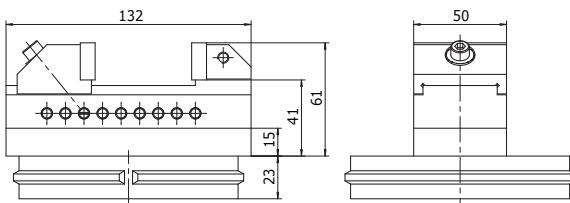
MZS 120-60 B & GPS 120
Item number: B809500149



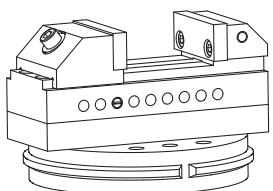
Clamping width 57 mm
Clamping force 16000 N



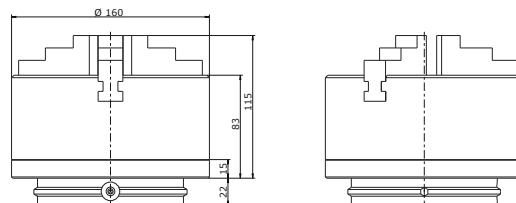
N50S & GPS 120
Item number: B809500143



Clamping width 63 mm

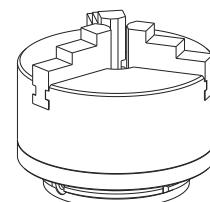


DBF 160 & GPS 120
Item number: B809500180

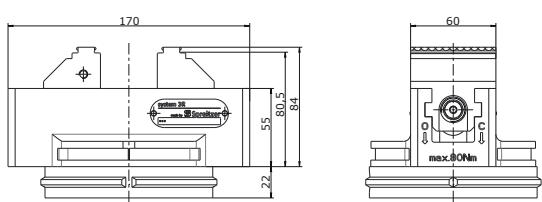


Clamping range 4-64/
External clamping 50-160 mm

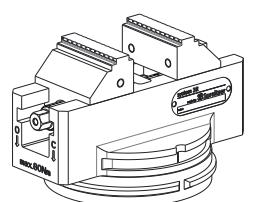
Clamping force 31000 N



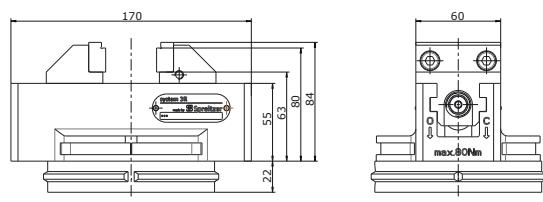
MZR 170-60 & GPS 120
Item number: B809500460



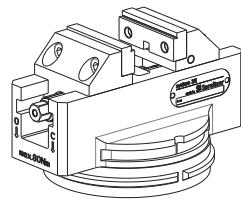
Clamping width 136 mm
Clamping force 30000 N



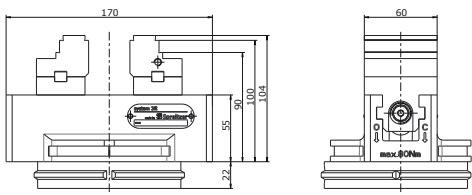
MZE 170-60 & GPS 120
Item number: B809500395



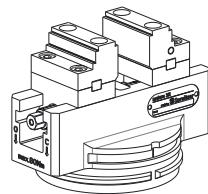
Clamping width 90 mm
Clamping force 30000 N



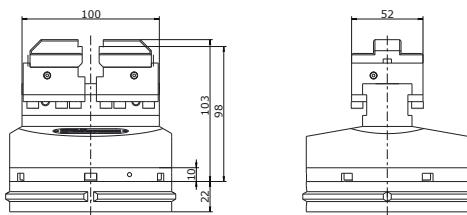
MZU 170-60 & GPS 120
Item number: B809500461



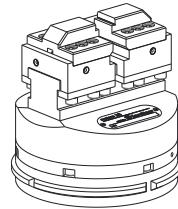
Clamping width 130 mm
Clamping force 30000 N



PZS 100-50 & GPS 120
Item number: B809500467

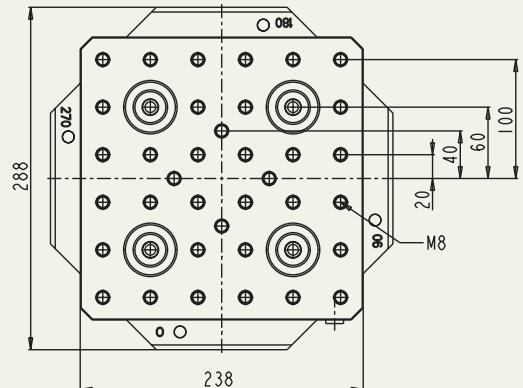
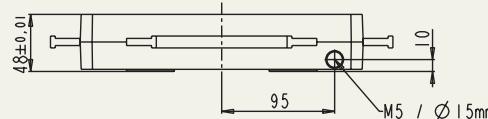


Clamping width 100 mm
Clamping force 12000 N



GPS 240

Item number: C 694 400



Aluminum pallet.

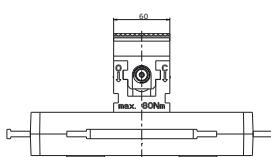
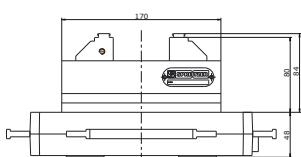
Suitable for high-speed milling and arduous milling operations.

Prepared for automation.

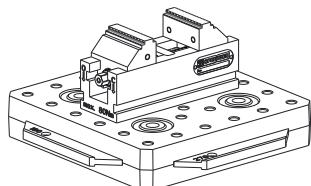
- + **Construction height:** 48.0 ± 0.01 mm
- + **X/Y-centring:** with coined cam
- + **Flatness:** 0.02 mm

MZR 170-60 & GPS 240

Item number: B809500447

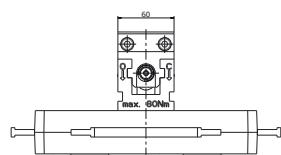
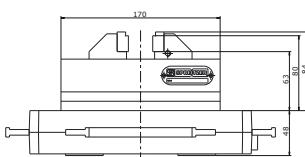


Clamping width 136 mm
Clamping force 30000 N

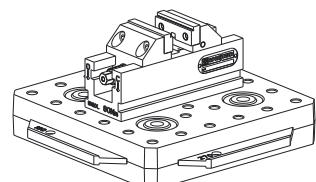


MZE 170-60 & GPS 240

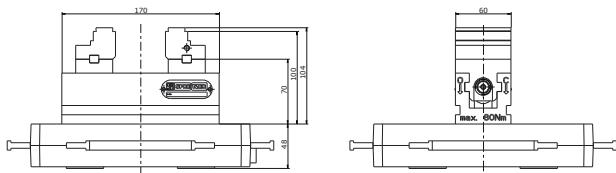
Item number: B809500206



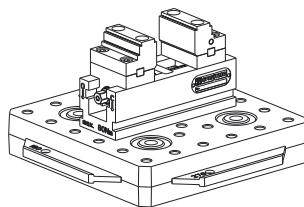
Clamping width 90 mm
Clamping force 30000 N



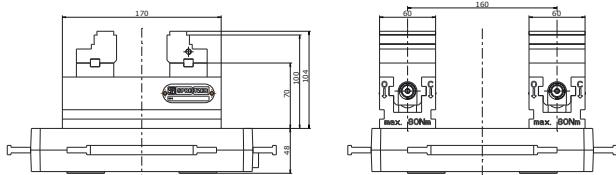
MZU 170-60 & GPS 240
Item number: B809500207



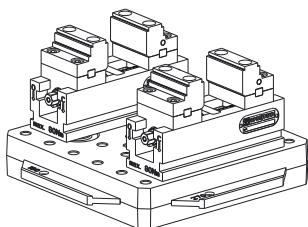
Clamping width 130 mm
Clamping force 30000 N



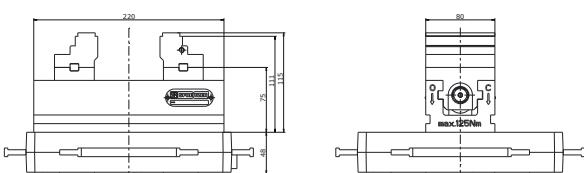
MZU 170-60 (2x) & GPS 240
Item number: B809500214



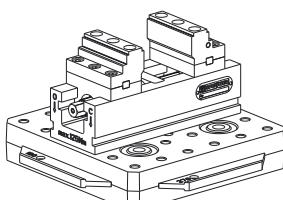
Clamping width 90 mm
Clamping force 30000 N



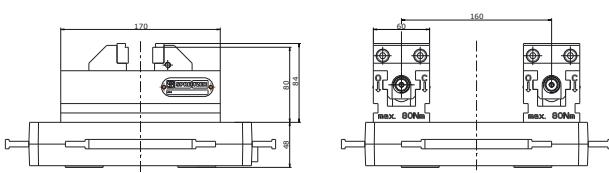
MZU 220-80 & GPS 240
Item number: B809500216



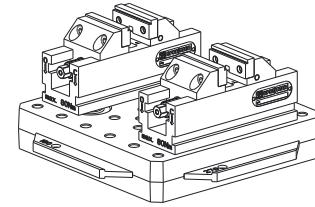
Clamping width 180 mm
Clamping force 40000 N



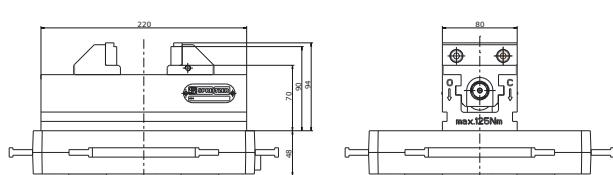
MZE 170-60 (2x) & GPS 240
Item number: B809500213



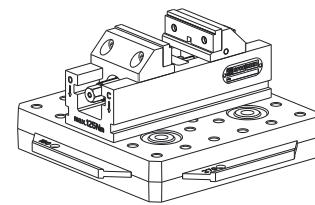
Clamping width 90 mm
Clamping force 30000 N



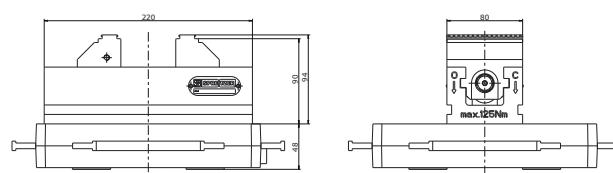
MZE 220-80 & GPS 240
Item number: B809500215



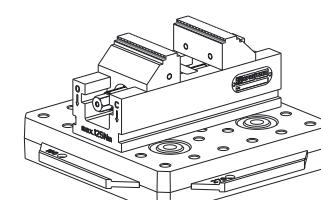
Clamping width 130 mm
Clamping force 40000 N



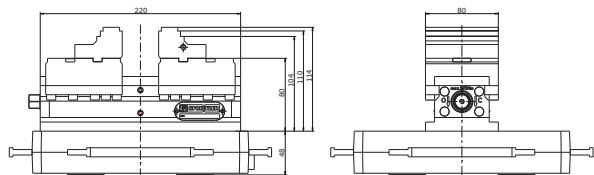
MZR 220-80 & GPS 240
Item number: B809500451



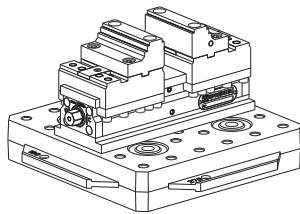
Clamping width 178 mm
Clamping force 40000 N



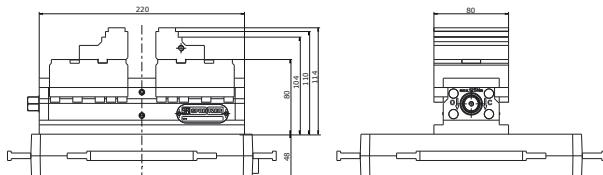
MZC 220-80 E & GPS 240
Item number: B809500376



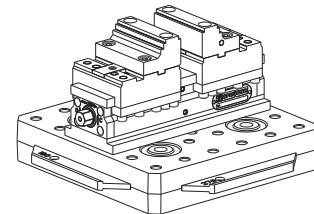
Clamping width 185 mm
Clamping force 40000 N



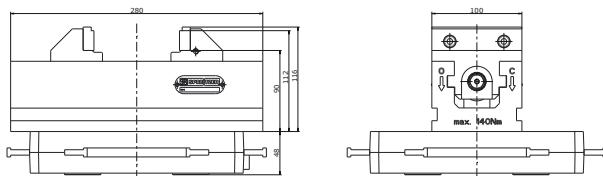
MZC 220-80 S & GPS 240
Item number: B809500377



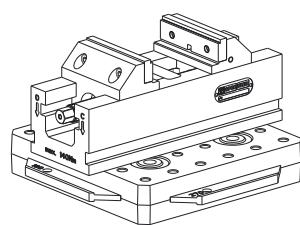
Clamping width 185 mm
Clamping force 40000 N



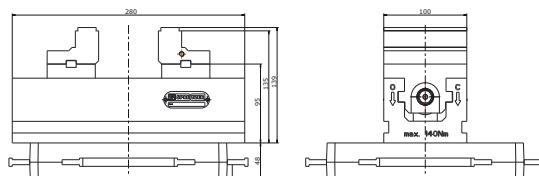
MZE 280-100 & GPS 240
Item number: B809500220



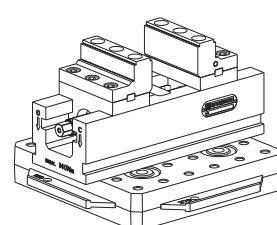
Clamping width 190 mm
Clamping force 50000 N



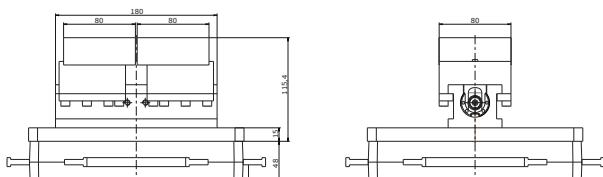
MZU 280-100 & GPS 240
Item number: B809500221



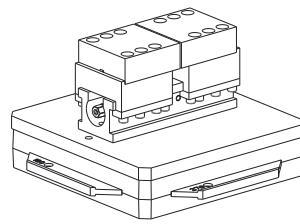
Clamping width 240 mm
Clamping force 50000 N



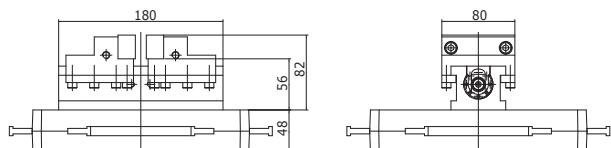
MZS 180-80 A & GPS 240
Item number: B809500229



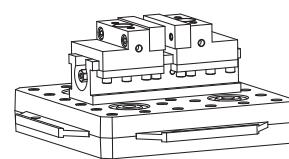
Clamping width 180 mm
Clamping force 30000 N



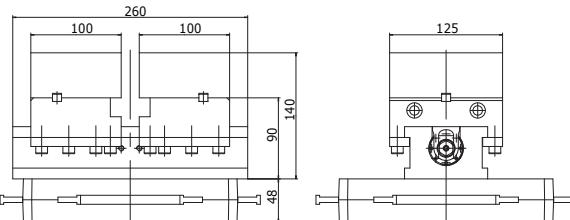
MZS 180-80 B & GPS 240
Item number: B809500230



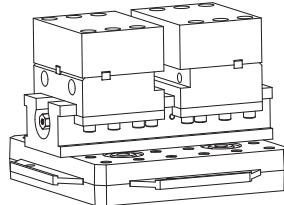
Clamping width 89 mm
Clamping force 30000 N



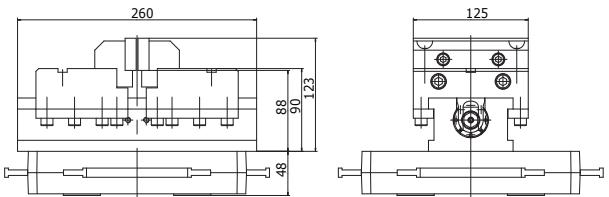
MZS 260-125 A & GPS 240
Item number: B809500243



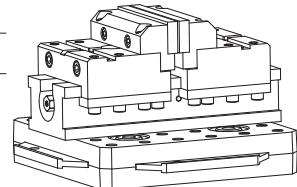
Clamping width 260 mm
Clamping force 50000 N



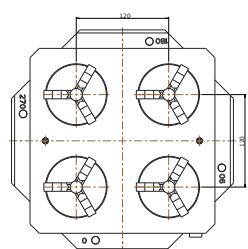
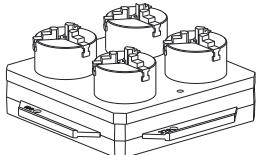
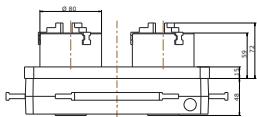
MZS 260-125 B & GPS 240
Item number: B809500244



Clamping width 111 (260) mm
Clamping force 50000 N

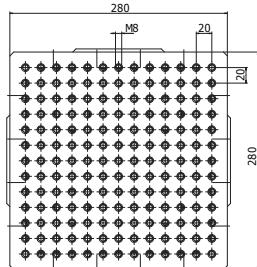


DBF 80 (4x) & GPS 240
Item number: B809500264



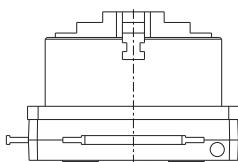
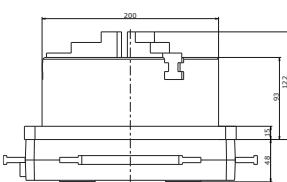
Clamping range 2-27/
External clamping 25-71 mm
Clamping force 10000 N

Grid Plate & GPS 240
Item number: B809500301

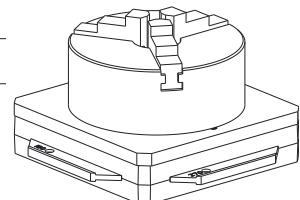


Material Steel
Finish Surface hardened

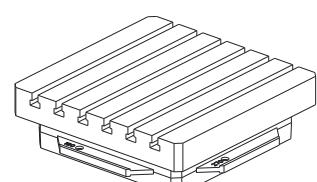
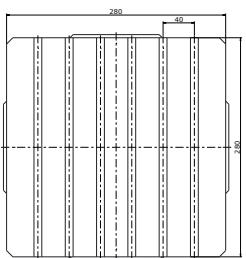
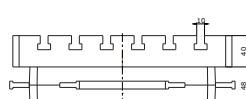
DBF 200 & GPS 240
Item number: B809500275



Clamping range 4-90/
External clamping 60-200 mm
Clamping force 37000 N



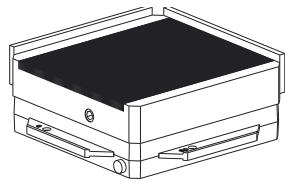
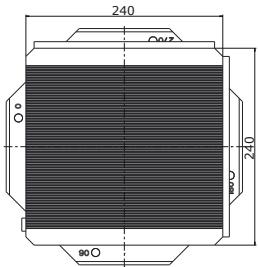
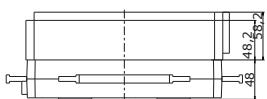
T-Slot plate & GPS 240
Item number: B809500327



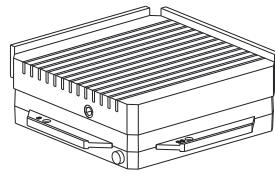
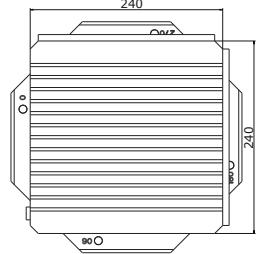
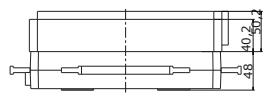
Material Aluminium
Finish Anodized

Fine Pole Magnet SPPF & GPS 240

Item number: B809500250

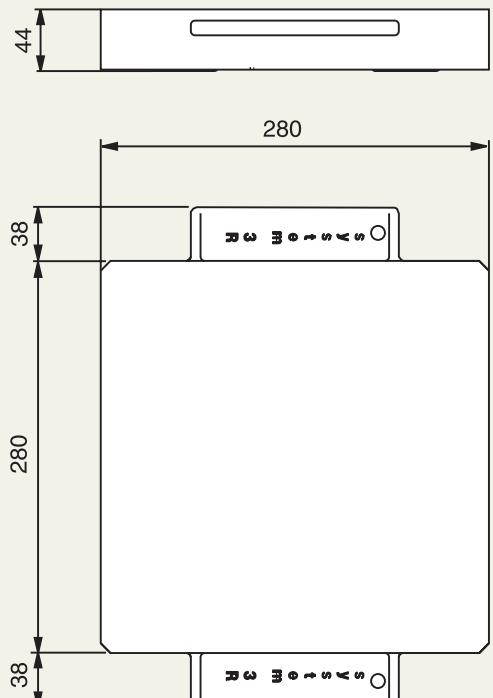
**Holding force** 120 N/cm²**Magnetic field height** 5 mm**Standard Pole Magnet SPPM & GPS 240**

Item number: B809500251

**Holding force** 180 N/cm²**Magnetic field height** 10 mm

Dynafix

Item number: 3R-771.2

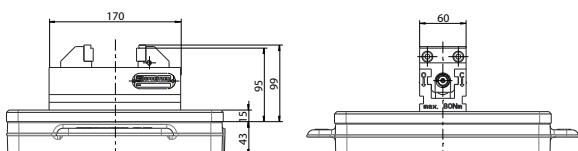


Milled aluminium pallet 280x280 mm

- + Adapted for automatic changing
- + Ready for code carrier
- + Flatness 0.04 mm
- + Thickness tolerance +0.5/-0 mm

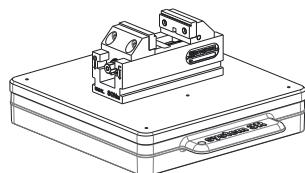
MZE 170-60 & Dynafix

Item number: B809500210



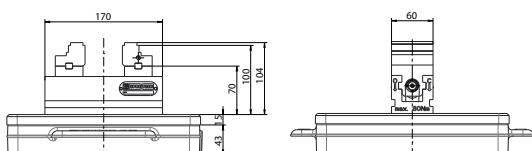
Clamping width 90 mm

Clamping force 30000 N



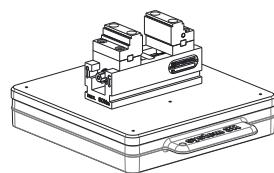
MZU 170-60 & Dynafix

Item number: B809500211

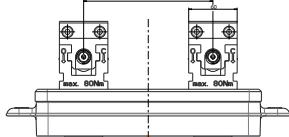
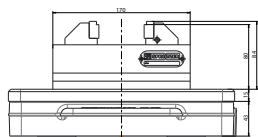


Clamping width 130 mm

Clamping force 30000 N

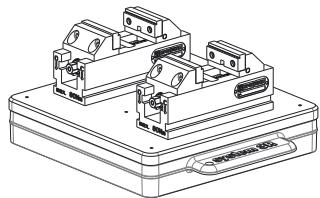


MZE 170-60 (2x) & Dynafix
Item number: B809500217

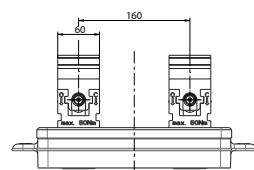
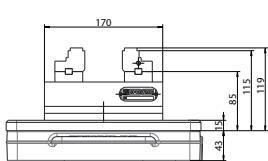


Clamping width 90 mm

Clamping force 30000 N

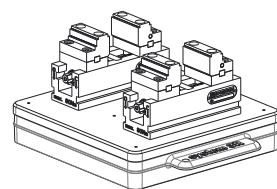


MZU 170-60 (2x) & Dynafix
Item number: B809500218

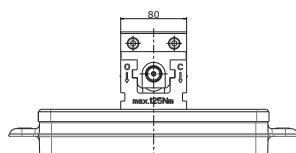
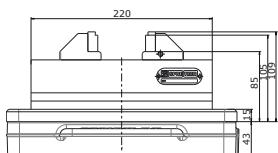


Clamping width 130 mm

Clamping force 30000 N

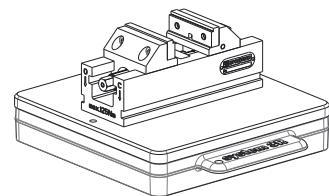


MZE 220-80 & Dynafix
Item number: B809500222

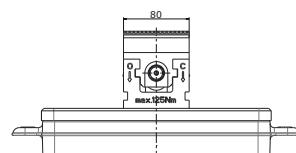
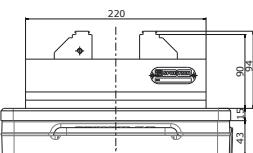


Clamping width 130 mm

Clamping force 40000 N

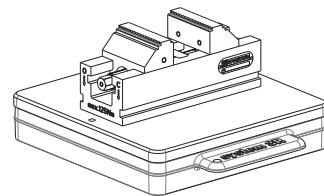


MZR 220-80 & Dynafix
Item number: B809500433

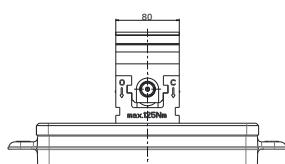
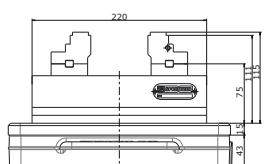


Clamping width 178 mm

Clamping force 40000 N

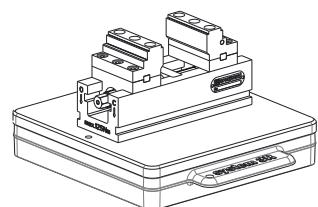


MZU 220-80 & Dynafix
Item number: B809500223

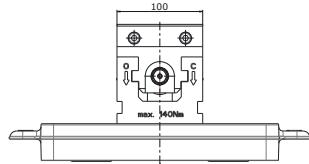
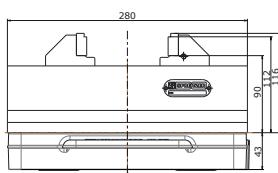


Clamping width 180 mm

Clamping force 40000 N

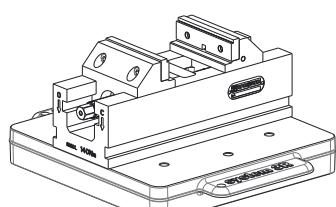


MZE 280-100 & Dynafix
Item number: B809500224



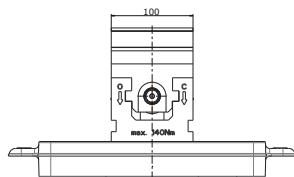
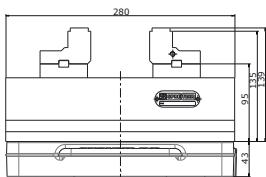
Clamping width 190 mm

Clamping force 50000 N



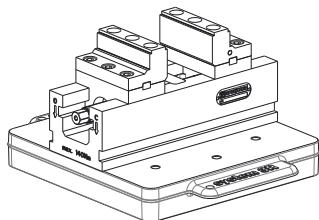
MZU 280-100 & Dynafix

Item number: B809500225

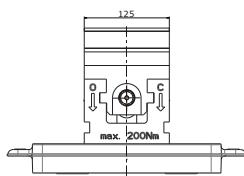
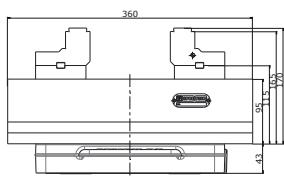


Clamping width 240 mm

Clamping force 50000 N

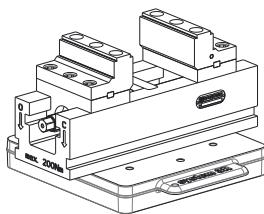
**MZU 360-125 & Dynafix**

Item number: B809500228

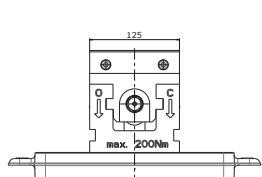
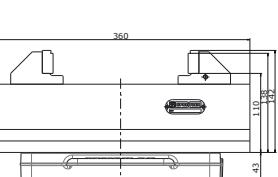


Clamping width 310 mm

Clamping force 70000 N

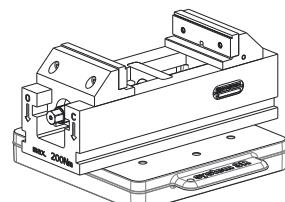
**MZS 180-80 A & Dynafix**

Item number: B809500233

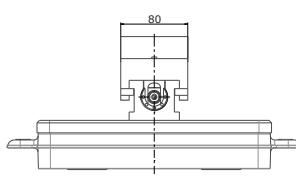
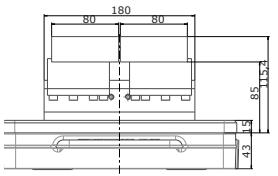


Clamping width 250 mm

Clamping force 70000 N

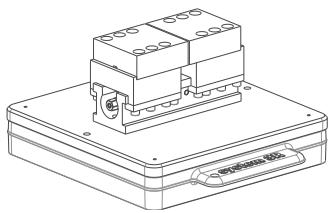
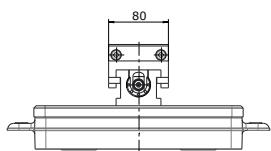
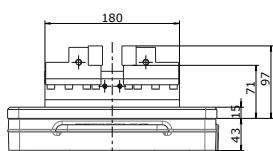
**MZS 180-80 A & Dynafix**

Item number: B809500233



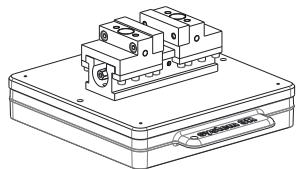
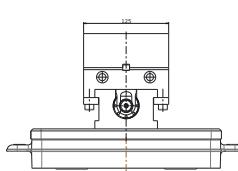
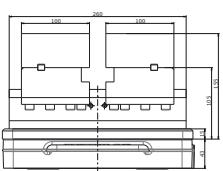
Clamping width 180 mm

Clamping force 30000 N

**MZS 180-80 B & Dynafix**
Item number: B809500234

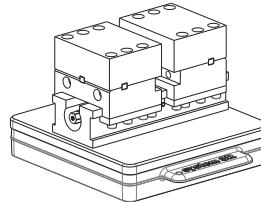
Clamping width 89 mm

Clamping force 30000 N

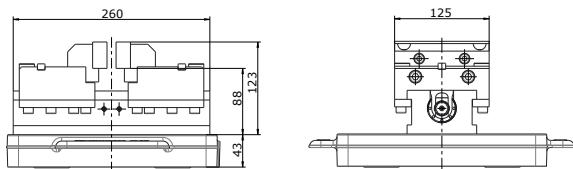
**MZS 260-125 A & Dynafix**
Item number: B809500247

Clamping width 260 mm

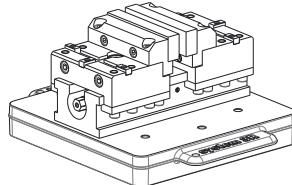
Clamping force 50000 N



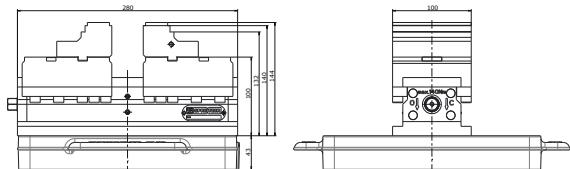
MZS 260-125 B & Dynafix
Item number: B809500248



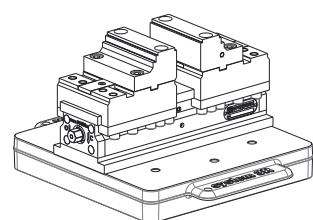
Clamping width 111 (260) mm
Clamping force 50000 N



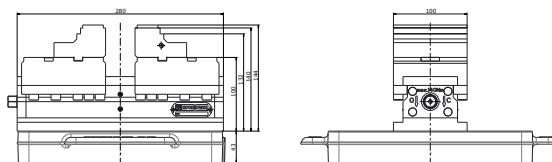
MZC 280-100 E & Dynafix
Item number: B809500378



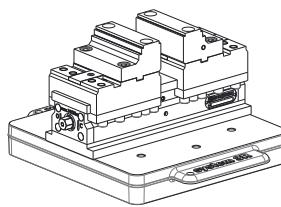
Clamping width 245 mm
Clamping force 50000 N



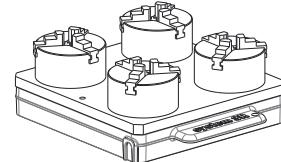
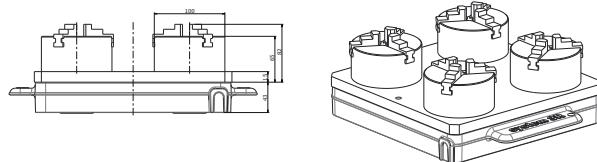
MZC 280-100 S & Dynafix
Item number: B809500379



Clamping width 245 mm
Clamping force 50000 N

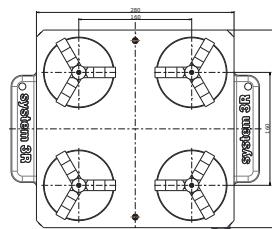


DBF 100 (4x) & Dynafix
Item number: B809500268

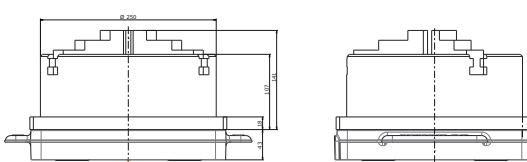


Clamping range 2-33/
External clamping 32-83 mm

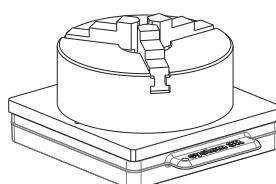
Clamping force 17000 N



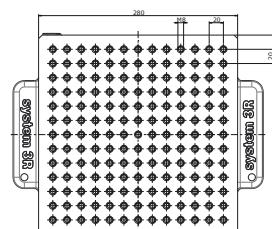
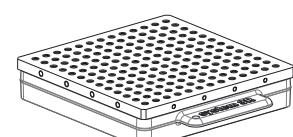
DBF 250 & Dynafix
Item number: B809500281



Clamping range 5-118/
External clamping 77-250 mm
Clamping force 46000 N

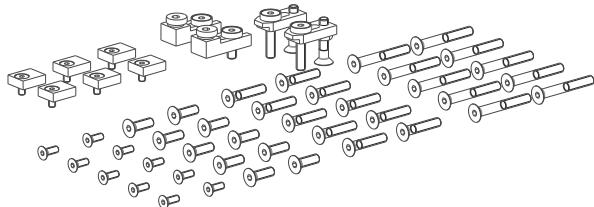


Grid plate & Dynafix
Item number: B809500304

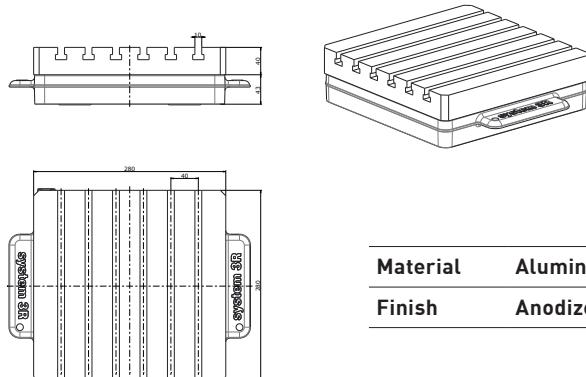


Material steel
Finish Surface hardened

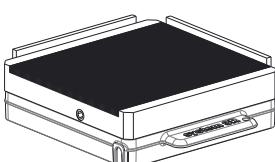
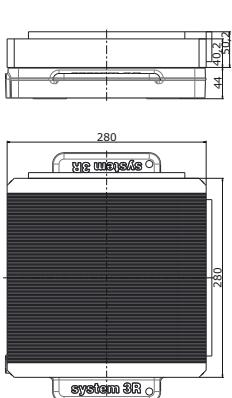
Set of clamping elements for B809500304
Item number: B809500455



T-Slot plate & Dynafix
Item number: B809500330



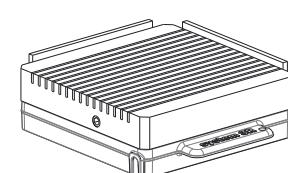
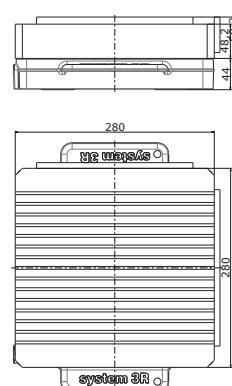
Fine Pole Magnet SPPF & Dynafix
Item number: B809500253



Holding force 120 N/cm²
Magnetic field height 5 mm



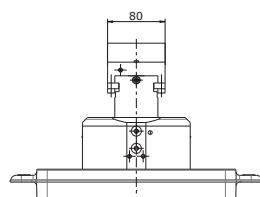
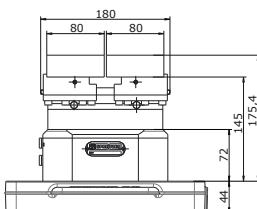
Standard Pole Magnet SPPM & Dynafix
Item number: B809500255



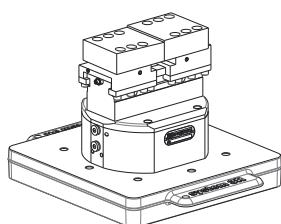
Holding force 180 N/cm²
Magnetic field height 10 mm



PZS 180-80A & Dynafix
Item number: B809500453

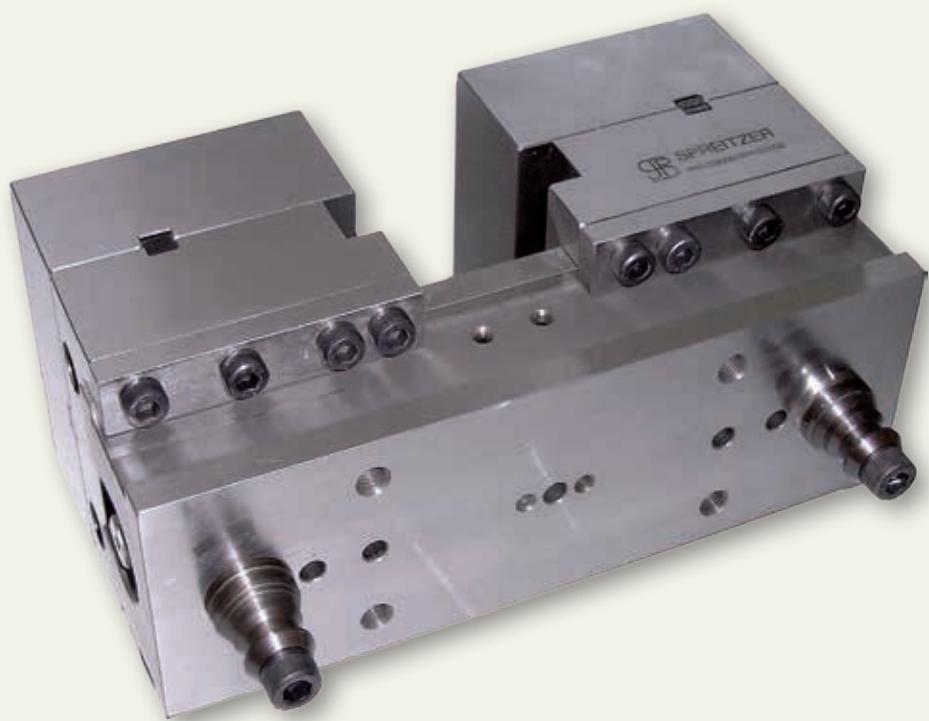


Clamping width 180 mm
Clamping force 24000 N



Delphin

Item number: S 812 000

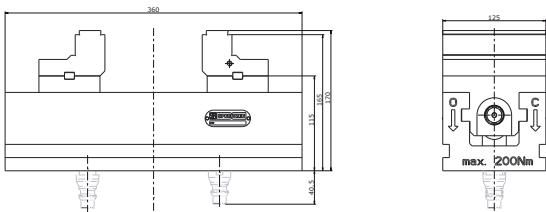


Mechanical centre-clamping vises / Mechanical compact vises

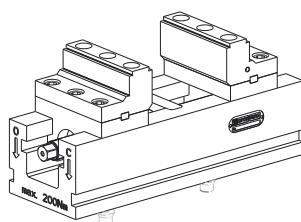
The centre-clamping vises MZU and the compact vises MSU are prepared for mounting the drawbars. They can be used on Delphin base plates with 200 or 250 mm centre distance.

The drawbars are included in the delivery.

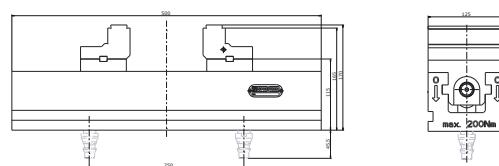
MZU 360-125 for Delphin 200 mm
Item number: B809500466



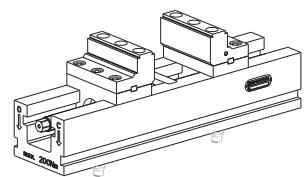
Clamping width 310 mm
Clamping force 70000 N

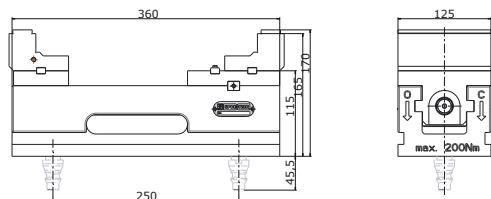
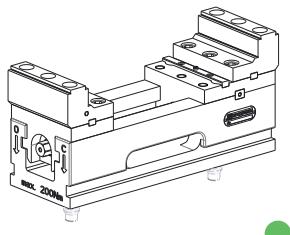


MZU 500-125 for Delphin 250 mm
Item number: B809500462



Clamping width 450 mm
Clamping force 70000 N



MSU 360-125 for Delphin 200 mm**Item number: B809500469****Clamping width 310 mm****Clamping force 50000 N****Note: Required clamping force**

The clamping force of the centre-clamping vises and compact vises depends on tightening torque. We recommend to use a torque wrench. The adjusted tightening torque depends on influencing variables for example workpiece geometry, version of clamping jaws, work material, work conditions and so on. Due to the above mentioned variables it can be necessary to adjust the torque value individually.

The clamping force of the different centre-clamping vise variants in this catalogue is the arithmetic sum of the individual forces occurring at the jaws.

At a glance

We enable our customers to run their businesses efficiently and effectively by offering innovative Milling, EDM, Laser, Spindle, Automation and Tooling solutions. A comprehensive package of Customer Services completes our proposition.

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