

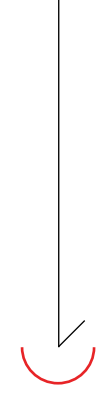
ZERO SET

2024 EN

ZERO SET

Precision Workholding
System For EDM

Sold in India by:
SXXH Automation India Pvt. Ltd.
B-152A, Mayapuri Industrial Area, Phase - I, New Delhi - 110064
T 011-43738825 | E pankaj@sxkhindia.com | W sxkhindia.com



ZERO SET

Precision Workholding System For EDM



ZERO LINE Product Line Up



Precision workholding system



I Modular tooling system for WEDM



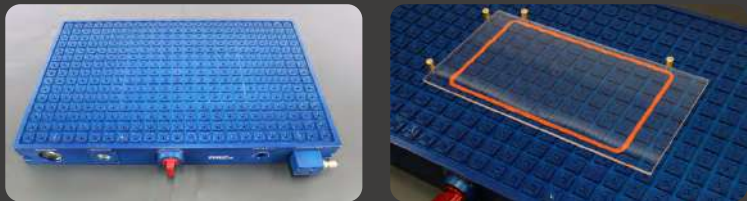
I EROWA & System 3R compatible system for EDM



I EPM, PM, Lifter, Special purpose magnet solution



I Vacuum chuck



Order

EROWA Compatible

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ZERO Set, EROWA Compatible ITS chucks

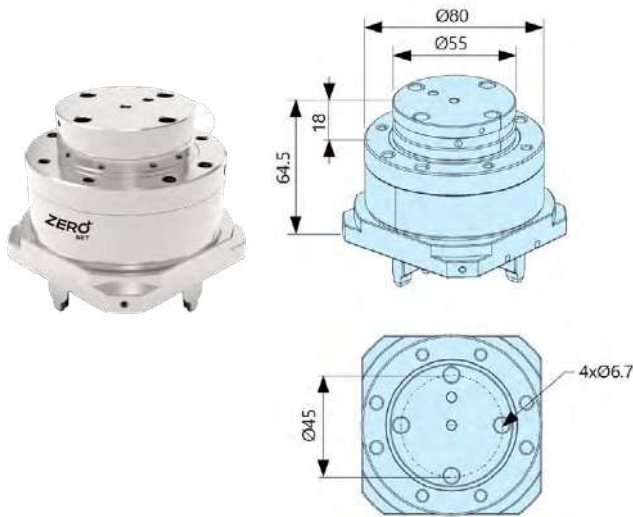
Pneumatic, quill, able to automate

Technical data			
Repeatability	0.002mm	Generated by	springs
Indexing	4 x 90°	Opening	min. 6 bar

Model No.

ZRS-321130 | ER. ITS Chuck 100, Quill type A

• Version	Steel, hardened.
• Connection	On the rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	2500N.
• Application	On EDM center.
• Compatible of	ER-007523.



Model No.

ZRS-321131 | ER. ITS Chuck 100, Quill type B

• Version	Steel, hardened.
• Connection	On the side and rear, two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	2500N.
• Application	On EDM center.
• Compatible of	ER-007521.



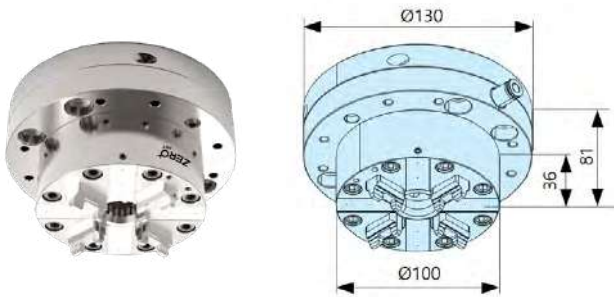
ZERO Set, EROWA Compatible ITS chucks

Pneumatic, quill

Model No.

ZRS-321103 | ER. ITS Chuck Ø100 with sub plate Ø130

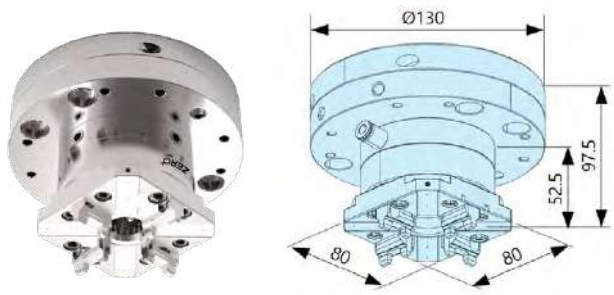
• Version	Steel, hardened.
• Connection	On the side.
• Operation	6 bar, with control unit.
• Clamping power	6000N.
• Application	On EDM center.



Model No.

ZRS-321136 | ER. ITS Chuck 100 with sub plate Ø130

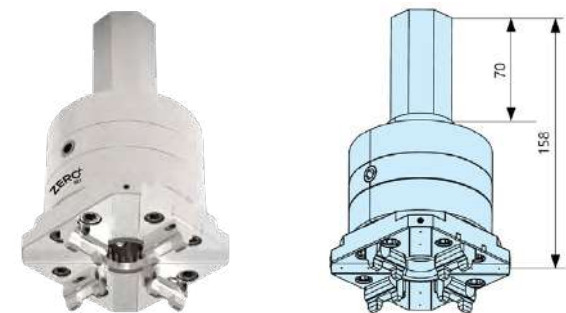
• Version	Steel, hardened.
• Connection	On the side.
• Operation	6 bar, with control unit.
• Clamping power	2500N.
• Application	On EDM center.
• Compatible of	ER-007580.



Model No.

ZRS-321138 | ER. ITS Chuck 100 with SQ25

• Version	Steel, hardened.
• Connection	On the side.
• Operation	6 bar, with control unit.
• Clamping power	2500N.
• Application	On EDM center.
• Compatible of	ER-007604.



ZERO Set, EROWA Compatible ITS chucks

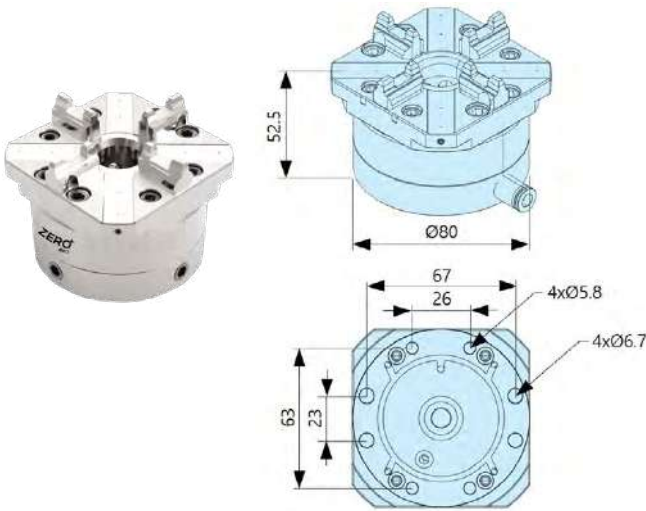
Pneumatic, table, able to automate

Technical data			
Repeatability	0.002mm	Generated by	springs
Indexing	4 x 90°	Opening	min. 6 bar

Model No.

ZRS-321132 | ER. ITS Chuck 100

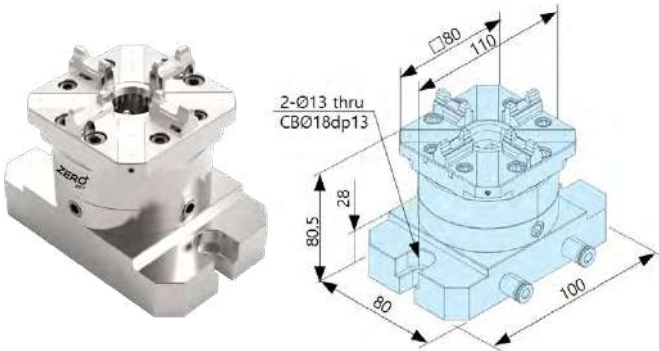
• Version	Steel, hardened.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	2500N.
• Application	On Milling, EDM center.
• Compatible of	ER-007604.



Model No.

ZRS-321134 | ER. ITS Chuck 100 with base plate 80x130

• Version	Steel, hardened.
• Connection	On the side, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	2500N.
• Application	On Milling center.
• Compatible of	ER-012299.



ZERO Set, EROWA Compatible ITS chucks

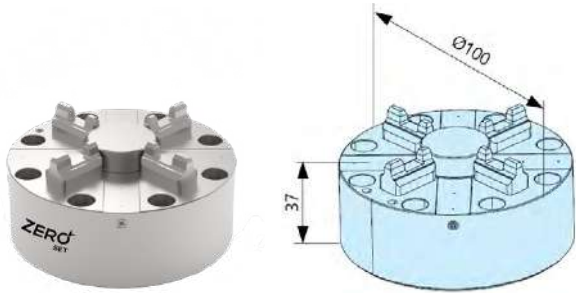
Pneumatic, table, able to automate

Technical data			
Repeatability	0.002mm	Generated by	springs
Indexing	4 x 90°	Opening	min. 6 bar

Model No.

ZRS-321100 | ER. ITS Chuck Ø100, Inox without base plate

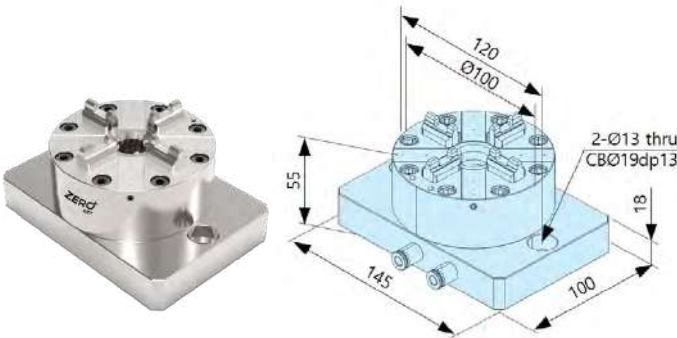
• Version	Steel, hardened, INOX.
• Connection	On the rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	5000N.
• Application	On Milling, EDM, WEDM center.
• Compatible of	ER-043123.



Model No.

ZRS-321101 | ER. ITS Chuck Ø100 with base plate 100x145

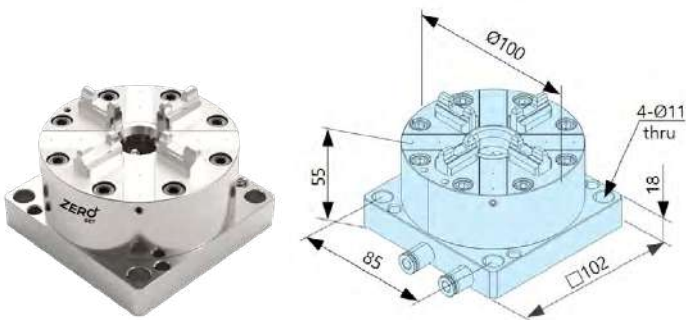
• Version	Steel, hardened.
• Connection	On the side, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N.
• Application	On Milling, EDM center.



Model No.

ZRS-321105 | ER. ITS Chuck Ø100 with base plate 102x102

• Version	Steel, hardened.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N.
• Application	On Milling, EDM center.
• Compatible of	ER-035519.



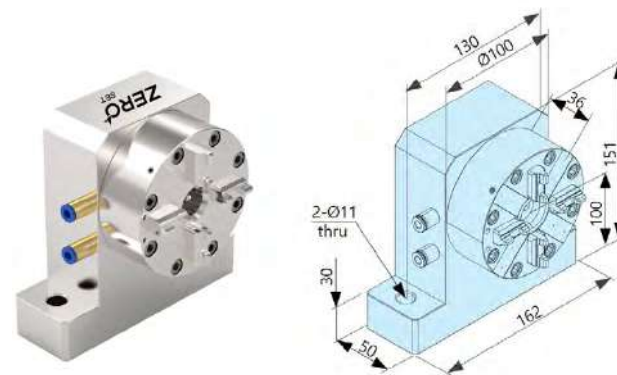
ZERO Set, EROWA Compatible ITS chucks

Pneumatic, table, able to automate

Model No.

ZRS-321107 | ER. ITS Chuck Ø100 with horizontal block

• Version	Steel, hardened.
• Connection	On the side, with two lines.
• Operation	6 bar, with control unit.
• Clamping power	6000N.
• Application	On Milling, EDM center.



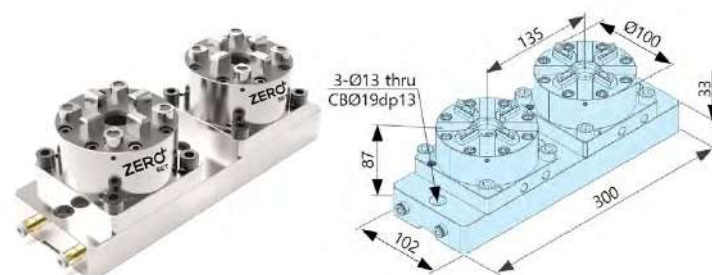
ZERO Set, EROWA Compatible ITS chucks

Pneumatic, table, multi chucks

Model No.

ZRS-321112 | ER. ITS Chuck Ø100, 2 in 1

• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling, EDM center.
• Note	Mainly used for electrode machining in the milling center.



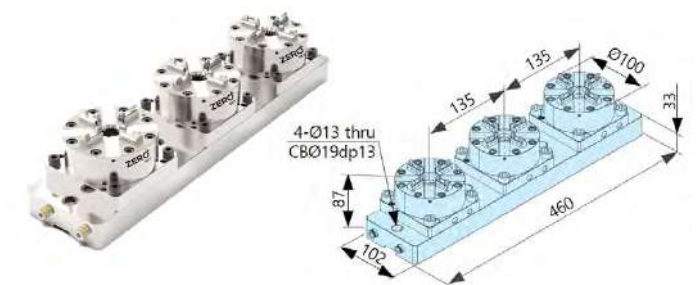
ZERO Set, EROWA Compatible ITS chucks

Pneumatic, table, multi chucks

Model No.

ZRS-321113 | ER. ITS Chuck Ø100, 3 in 1

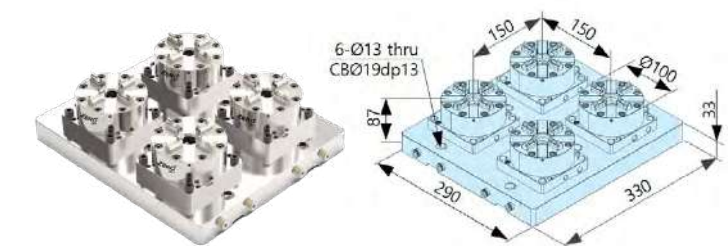
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling, EDM center.
• Note	Mainly used for electrode machining in the milling center.



Model No.

ZRS-321114 | ER. ITS Chuck Ø100, 4 in 1

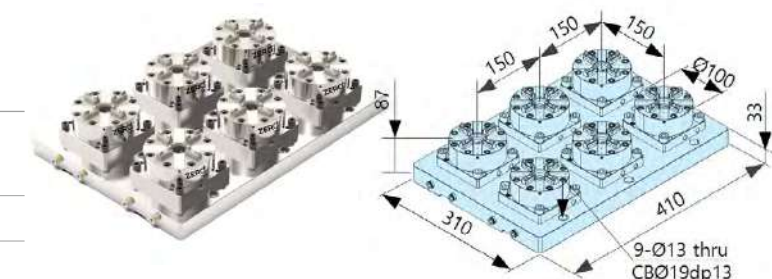
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling, EDM center.
• Note	Mainly used for electrode machining in the milling center.



Model No.

ZRS-321116 | ER. ITS Chuck Ø100, 6 in 1

• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling, EDM center.
• Note	Mainly used for electrode machining in the milling center.



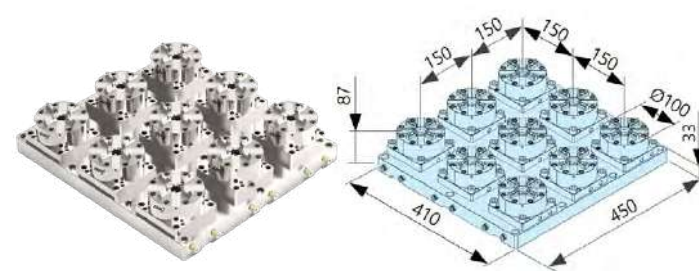
ZERO Set, EROWA Compatible ITS chucks

Pneumatic, table, multi chucks

Model No.

ZRS-321119 | ER. ITS Chuck Ø100, 9 in 1

• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling, EDM center.
• Note	Mainly used for electrode machining in the milling center.



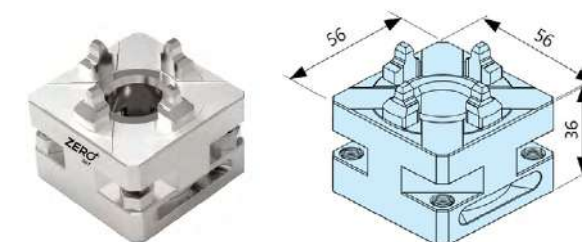
ZERO Set, EROWA Compatible ITS chucks

Manual, table

Model No.

ZRS-321231 | ER. Quick chuck 50

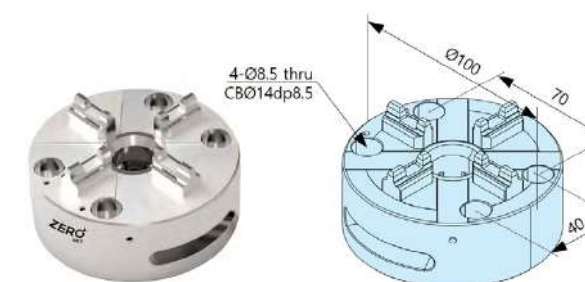
• Version	Steel, hardened.
• Application	EDM, grinding, light milling.
• Operation	Lever.
• Clamping power	up to 40000N.
• Note	max. 200 rpm.
• Compatible of	ER-034387.



Model No.

ZRS-321202 | ER. Quick chuck 100

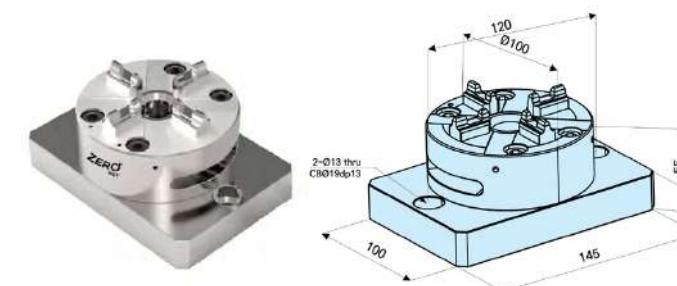
• Version	Steel, hardened.
• Application	Turning, milling, grinding or EDM center, dividers and fixtures.
• Operation	Lever.
• Clamping power	up to 10000N.
• Note	max. 300 rpm.
• Compatible of	ER-015105 or 036345.



Model No.

ZRS-321203 | ER. Quick chuck 100 with base plate 100x145

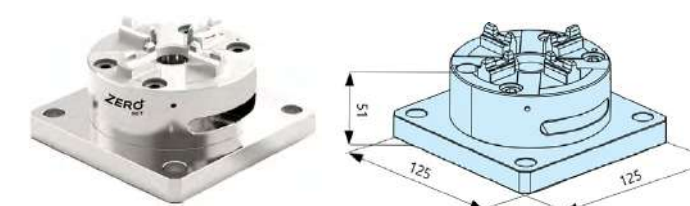
• Version	Steel, hardened.
• Application	Milling, grinding or EDM center.
• Operation	Lever.
• Clamping power	up to 10000N.
• Compatible of	ER-038824.



Model No.

ZRS-321204 | R. Quick chuck 100 with base plate 125x125

• Version	Steel, hardened.
• Application	Milling, grinding or EDM center.
• Operation	Lever.
• Clamping power	up to 10000N.
• Compatible of	ER-038824.



ZERO Set, EROWA Compatible ITS Power chucks

Pneumatic, able to automate

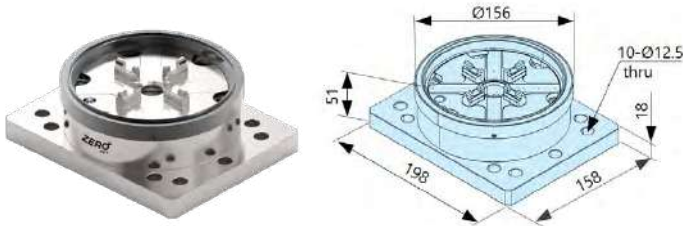
Technical data					
Repeatability	0.002mm	Generated by	springs	Indexing	4 x 90°
Clamping power	10000N	Opening	min. 6 bar		

Model No.

ZRS-331001

| ER. Power chuck 150
with base plate 158x198

• Version	Extra-flat version. Height 51mm Base plate 158mm x 198mm.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Application	On Milling, EDM center.
• Compatible of	ER-024312.

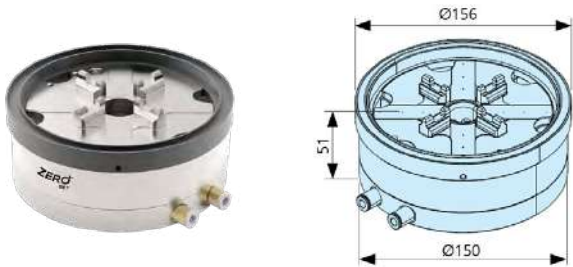


Model No.

ZRS-331002

| ER. Power chuck Ø150

• Version	Extra-flat version. Height 51mm Base plate Ø150mm.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Application	On Milling, EDM center.
• Compatible of	ER-029391.

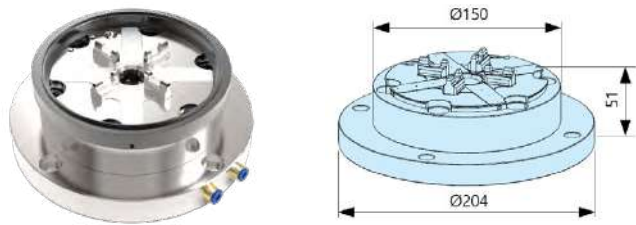


Model No.

ZRS-331003

| ER. Power chuck 150
with base plate Ø204mm

• Version	Extra-flat version. Height 51mm Base plate Ø204mm.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control
• Application	On Milling, EDM center.
• Compatible of	ER-029392.



ZERO Set, EROWA Compatible UPC chucks

Pneumatic, able to automate

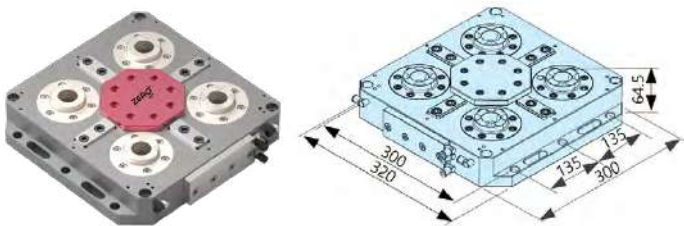
Technical data					
Repeatability	0.002mm	Generated by	springs	Indexing	4 x 90°
Clamping power	50000N	Opening	min. 6 bar		

Model No.

ZRS-341001

| ER. UPC chuck

• Version	UPC, prepared to accommodate an ITS chuck.
• Connection	On the side.
• Operation	6 bar, air cleaning, with control unit.
• Application	On Milling, grinding, drilling and EDM sinking centers.
• Compatible of	ER-074524.

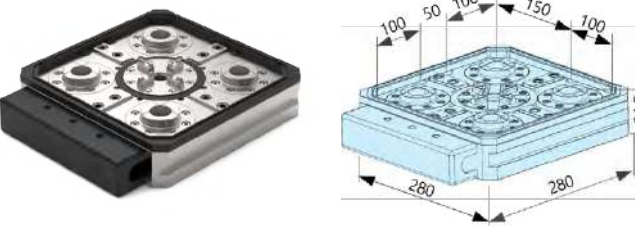


Model No.

ZRS-341003

| ER. UPC chuck with ER
ITS chuck 100

• Version	UPC with ER ITS chuck 100 fitted and aligned. UPC system automatable.
• Connection	On the side.
• Operation	6 bar, air cleaning, with control unit.
• Application	On Milling, grinding, drilling and EDM sinking centers.
• Compatible of	ER-070649.



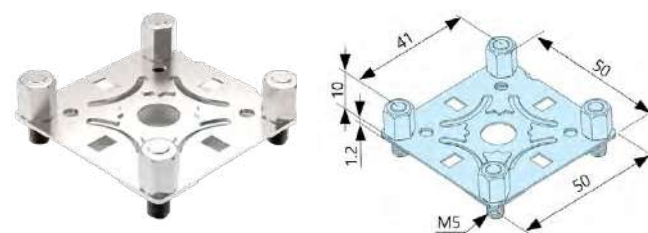
ZERO Set, EROWA Compatible ITS system

The components

Model No.

ZRS-322101 | ER. Centering plate 50,
Set of 50 units

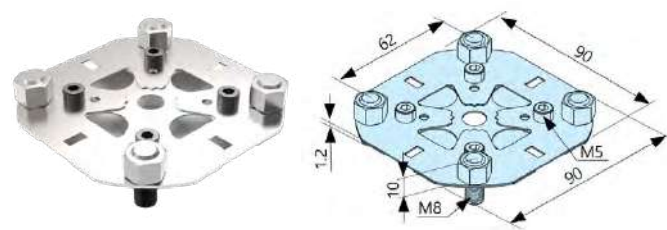
• Version	Corrosion-resistance. 4 supporting feet M5 each.
• Application	Small electrode weights.
• Mounting	Mounted directly on plane surface of blank.
• Compatible of	ER-009214.



Model No.

ZRS-322102 | ER. Centering plate 100,
Set of 10 units

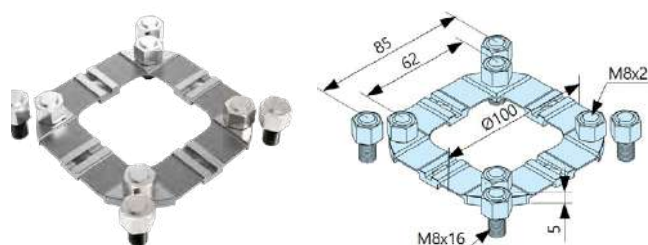
• Version	Corrosion-resistance. 4 supporting feet M8 each.
• Application	Workpiece and electrodes.
• Mounting	Mounted directly on plane surface of blank.
• Compatible of	ER-011599.



Model No.

ZRS-322103 | ER. Centering plate G,
Set of 5 units

• Version	Corrosion-resistance. 8 supporting feet M8 each.
• Application	Workpiece, electrodes jigs and fixtures in chip-removal machining.
• Mounting	According to accompanying fitting instructions.
• Compatible of	ER-036658.



ZERO Set, EROWA Compatible ITS system

The components

Model No.

ZRS-322111 | ER. Chucking spigot F/M EDM
with flushing Set of 20 units

• Version	Manual type. Bolt with flushing hole.
• Application	In electrode holders. For EDMing and easy machining.
• Compatible of	ER-010755.



Model No.

ZRS-322112 | ER. Chucking spigot F/A EDM
with flushing Set of 20 units

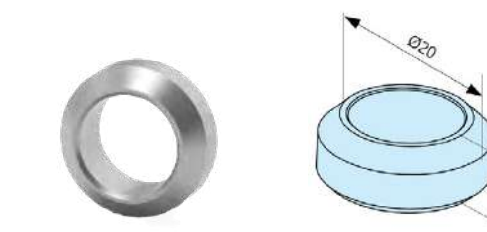
• Version	Automatic type. Bolt with flushing hole.
• Application	In electrode holders. For EDMing and easy machining.
• Compatible of	ER-015465.



Model No.

ZRS-322113 | ER. Chucking spigot ring,
Set of 20 units

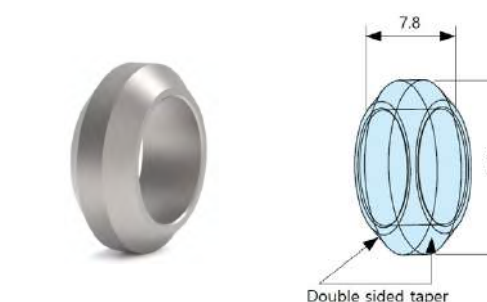
• Version	Standard type. One side taper.
• Compatible of	ER-007755.



Model No.

ZRS-322114 | ER. Chucking spigot ring,
Set of 20 units

• Version	Standard type. Double sided taper.
• Compatible of	ER-007755.



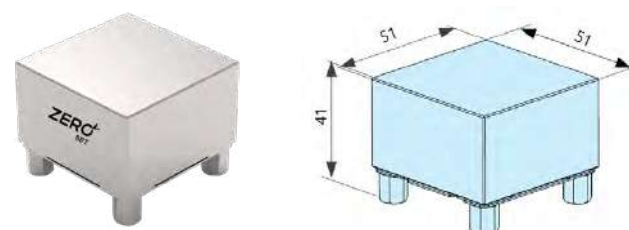
ZERO Set, EROWA Compatible ITS system carriers

Standard electrode holders, steel

Model No.

ZRS-322120 | ER. Uniblack, steel, Set of 12 units

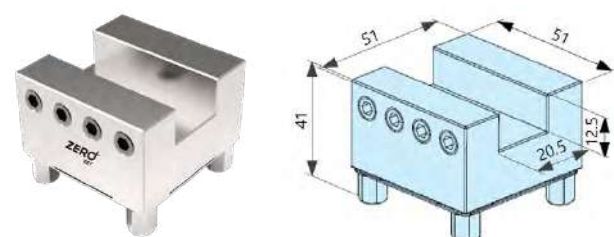
• Version	Surface 51x51mm faced, without machining of body.
• Application	To mount electrodes and workpieces with a base surface of more than 50mm.
• Mounting	As required.
• Compatible of	ER-009226 and ER-129069.



Model No.

ZRS-322121 | ER. Uniholder 20, steel, Set of 12 units

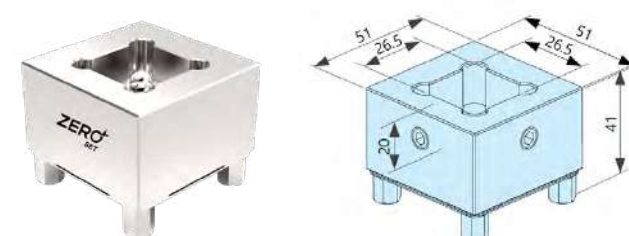
• Version	Groove 20mm faced, including 4 setscrews for each unit.
• Application	To mount electrodes and workpieces with shaft sizes of up to 20mm.
• Mounting	Insert and tighten setscrews.
• Compatible of	ER-010793 and ER-129071.



Model No.

ZRS-322122 | ER. Prisround 25, steel, Set of 12 units

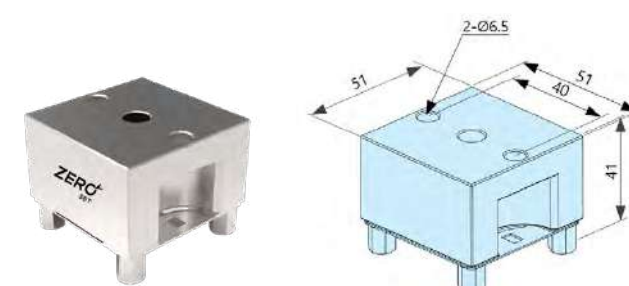
• Version	Square 25mm milled, including 2 setscrews for each unit.
• Application	To mount electrodes and workpieces.
• Mounting	Insert and tighten setscrews.
• Compatible of	ER-009222 and ER-129070.



Model No.

ZRS-322123 | ER. Uniplate, steel, Set of 12 units

• Version	Surface 51x51mm faced, including 2xM6 bolts for each unit
• Application	To mount electrodes and workpieces with a base surface of more than 50mm.
• Mounting	With 2xM6 bolts into the base surface.
• Compatible of	ER-009219 and ER-129072.



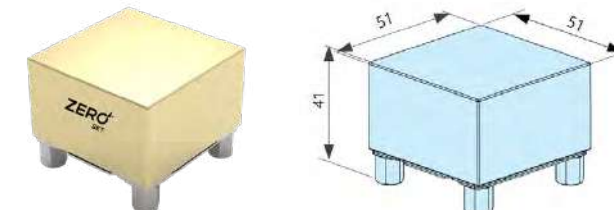
ZERO Set, EROWA Compatible ITS system carriers

Standard electrode holders, brass

Model No.

ZRS-322130 | ER. Uniblack, brass, Set of 12 units

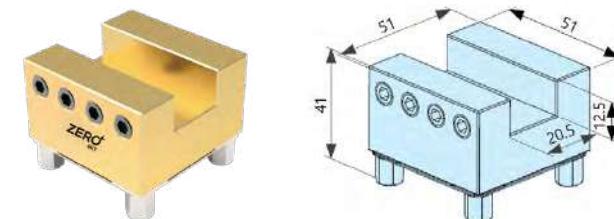
• Version	Surface 51x51mm faced, without machining of body.
• Application	To mount electrodes and workpieces with a base surface of more than 50mm.
• Mounting	As required.
• Compatible of	ER-009226 and ER-129069.



Model No.

ZRS-322131 | ER. Uniholder 20, brass, Set of 12 units

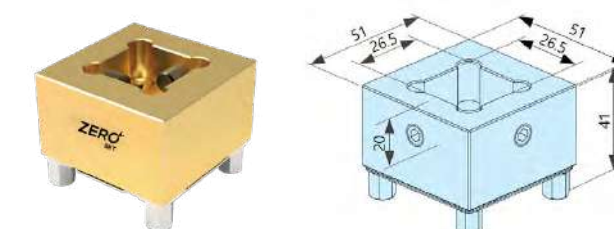
• Version	Groove 20mm faced, including 4 setscrews for each unit.
• Application	To mount electrodes and workpieces with shaft sizes of up to 20mm.
• Mounting	Insert and tighten setscrews.
• Compatible of	ER-010793 and ER-129071.



Model No.

ZRS-322132 | ER. Prisround 25, brass, Set of 12 units

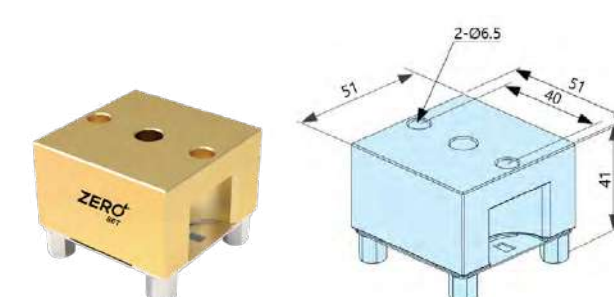
• Version	Square 25mm milled, including 2 setscrews for each unit.
• Application	mount electrodes and workpieces.
• Mounting	Insert and tighten setscrews.
• Compatible of	ER-009222 and ER-129070.



Model No.

ZRS-322133 | ER. Uniplate, brass, Set of 12 units

• Version	Surface 51x51mm faced, including 2xM6 bolts for each unit.
• Application	To mount electrodes and workpieces with a base surface of more than 50mm.
• To fit blank	With 2xM6 bolts into the base surface.
• Compatible of	ER-009219 and ER-129072.



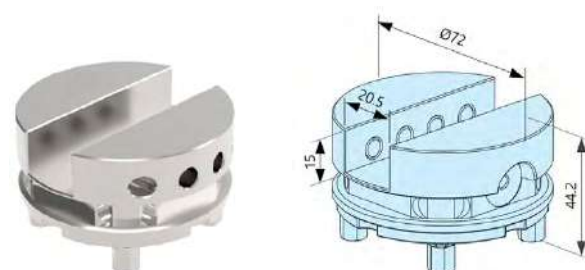
ZERO Set, EROWA Compatible ITS system carriers

Standard electrode holders, steel

Model No.

ZRS-322141 | ER. Uniholder Ø72, steel,
Set of 6 units

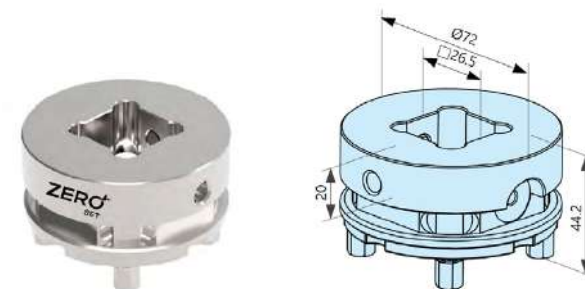
• Version	Groove 20mm faced, including 4 set screws for each unit.
• Application	To mount electrodes and workpieces with shaft sizes of up to 20mm.
• Mounting	Insert and tighten setscrews.
• Compatible of	ER-035211.



Model No.

ZRS-322142 | ER. Prisround Ø72, steel,
Set of 6 units

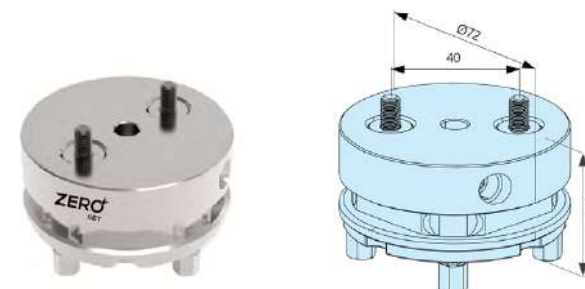
• Version	Square 25mm milled, including 2 set screws for each unit.
• Application	To mount electrodes and workpieces.
• Mounting	Insert and tighten setscrews.
• Compatible of	ER-035209.



Model No.

ZRS-322143 | ER. Uniplate Ø72, steel,
Set of 6 units

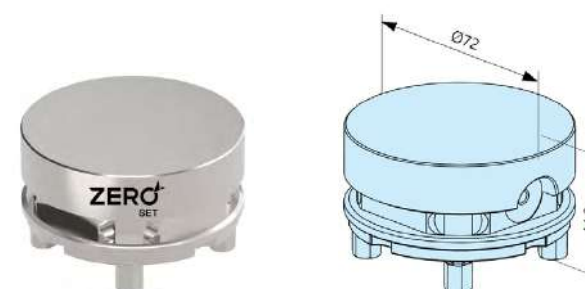
• Version	Includes 12 pinlock locking pins. Without chucking spigot.
• Application	To mount electrodes and workpieces with surface more than square 40x40mm or Ø50mm.
• Mounting	With two Pinlock locking pins.
• Compatible of	ER-035212.



Model No.

ZRS-322144 | ER. Uniblack Ø72, steel,
Set of 6 units

• Version	Surface 51x51mm faced, including 2xM6 bolts for each unit.
• Application	To mount electrodes and workpieces of various shapes.
• Mounting	Attachment boreholes to be drilled according to requirements.
• Compatible of	ER-035210.



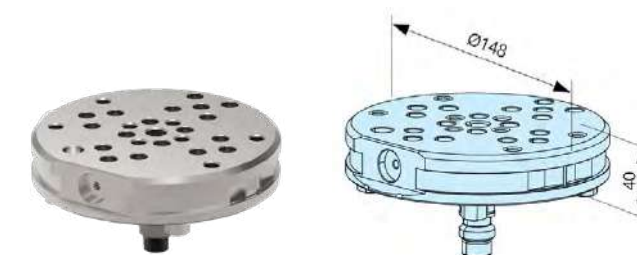
ZERO Set, EROWA Compatible ITS system carriers

ITS Precision pallets

Model No.

ZRS-332001 | ER. ITS Pallet Ø148 G,
steel

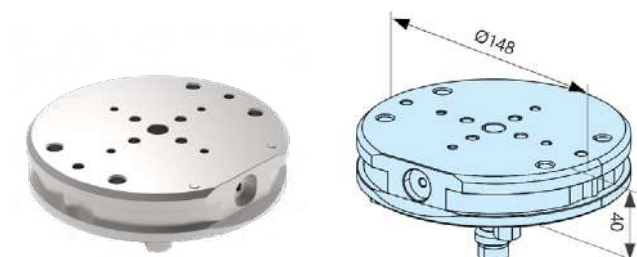
• Version	Steel ground, with borehole pattern 25, Ø10F7, thread M10.
• Application	To accommodate ER Clampset base220 or specially constructed fixtures and gauges.
• Compatible of	ER-015899.



Model No.

ZRS-332002 | ER. ITS Pallet Ø148 G,
steel

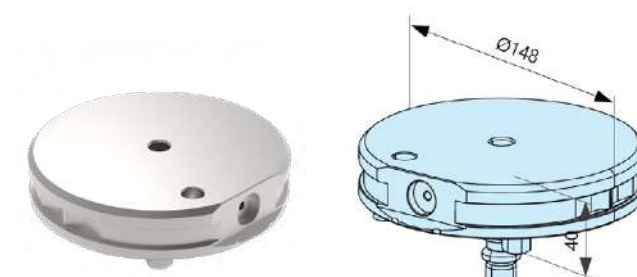
• Version	Standard type, ground centering plates.
• Application	To accommodate workpieces and fixtures in chip-cutting machining processes.
• Mounting	Through pallet with M8 bolts or through blank with M10 bolts.
• Compatible of	ER-015777.



Model No.

ZRS-332005 | ER.ITS Pallet Ø148 MS
Alu R25

• Version	Body of machined aluminum.
• Application	Palletizing of workpieces, electrodes and fixtures.
• Compatible of	ER-015042.



ZERO Set, EROWA Compatible UPC system

Standard UPC pallets

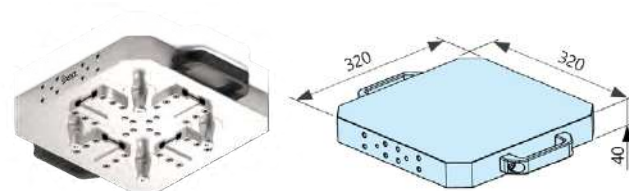
Model No.

ZRS-342001 ZRS-342002

ZRS-322101 ER. UPC Pallet Alu 320x320x40

ZRS-322104 ER. UPC Pallet Steel 320x320x40

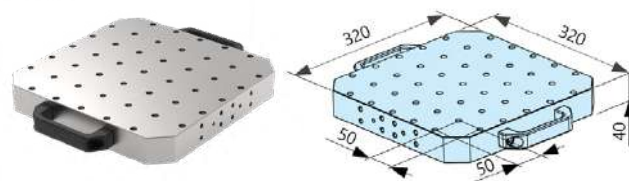
- **Version** Aluminum or stainless steel with centering segments and chucking spigots fitted. Hard Z-support.
- **Application** To clamp workpieces and gauges.
- **Note** Holes to be drilled as required.
- **Compatible of** ER-016917.



Model No.

ZRS-342003 | ER. UPC Pallet Alu R50 320x320x40

- **Version** Aluminum with 50mm grid. Centering segments and chucking spigots fitted. Hard Z-support.
- **Application** Basis for gauges and workpieces.
- **Note** Pattern borehole 45-M12 thread.
- **Compatible of** ER-016003.



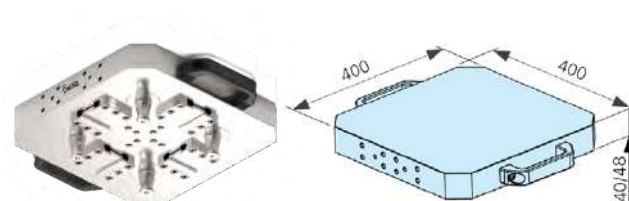
Model No.

ZRS-342005 ZRS-342006

ZRS-342005 ER. UPC Pallet Alu 400x400x48

ZRS-342006 ER. UPC Pallet Steel 400x400x40

- **Version** Aluminum or stainless steel. Centering segments and chucking spigots fitted. Hard Z-support.
- **Application** Basis for gauges and workpieces.



ZERO Set, EROWA Compatible ITS system

Special electrode holders

Model No.

ZRS-323101 | ER. Collet chuck holder, ER32

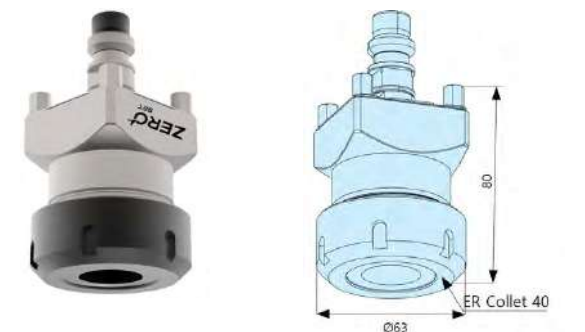
- **Version** System size 50.
- **Application** Round material Ø2~Ø20mm.
- **Compatible of** ER-008566.



Model No.

ZRS-323102 | ER. Collet chuck holder, ER40

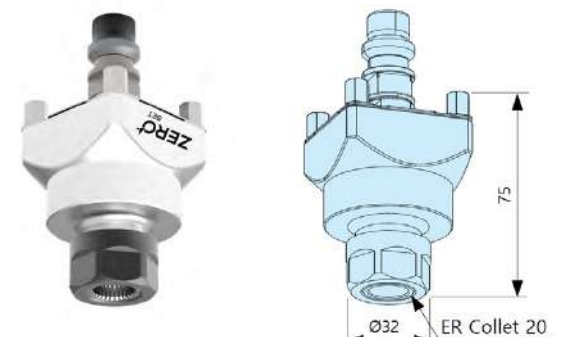
- **Version** System size 50.
- **Application** Round material Ø2~Ø30mm.
- **Compatible of** ER-008566.



Model No.

ZRS-323103 | ER. Collet chuck holder, ER20

- **Version** System size 50.
- **Application** Round material Ø1~ Ø13mm.
- **Compatible of** ER-008566.

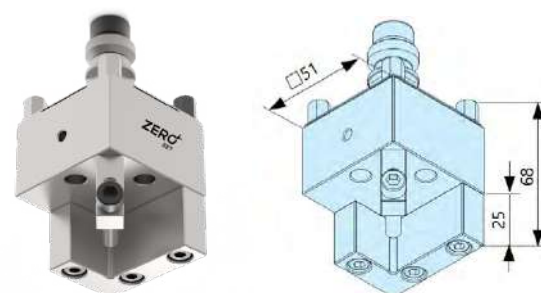


ZEROSet, EROWA Compatible ITS system Special electrode holders

Model No.

ZRS-323105 | ER. V-block holder

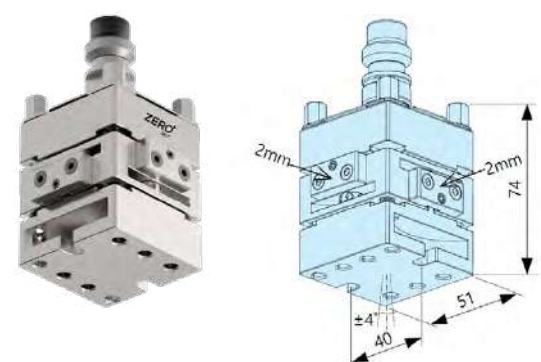
• Version	Prism ground.
• Application	Clamping from outside, precision machined electrode or small workpieces.
• Compatible of	ER-008458.



Model No.

ZRS-323106 | ER. Universal holder

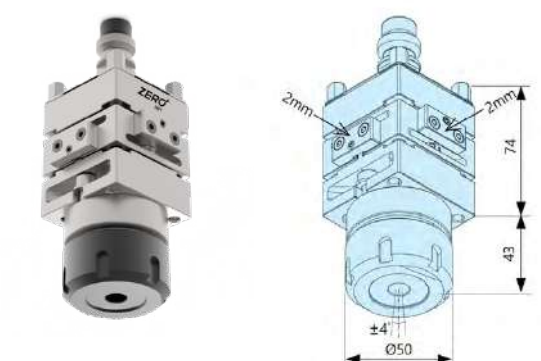
• Version	Electrode holder with cross slide(2mm travel) and pendulum movement($\pm 4^\circ$).
• Application	Clamping and alignment of electrodes. Not suitable for chip-machining.
• Compatible of	ER-008595.



Model No.

ZRS-323107 | ER. Universal holder with collect chuck holder ER32

• Version	Electrode holder with cross slide(2mm travel) and pendulum movement($\pm 4^\circ$).
• Application	Clamping and alignment of electrodes. Not suitable for chip-machining. Round material up to $\varnothing 20\text{mm}$.
• Compatible of	ER-008595 and ER-008566.

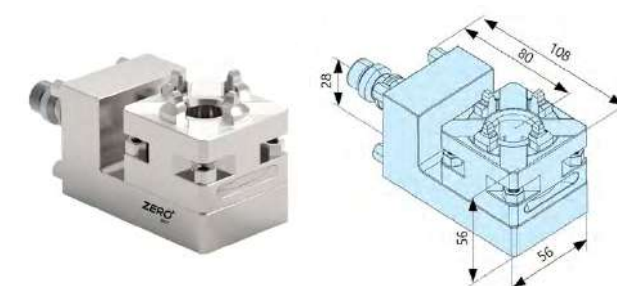


ZEROSet, EROWA Compatible ITS system Special electrode holders

Model No.

ZRS-323152 | ER. Horizontal holder with QC 50

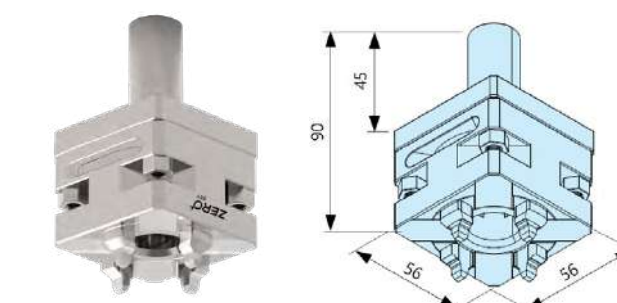
• Version	Prism ground.
• Application	For accommodation of workpieces and electrodes that have to be machined in a vertical and in a horizontal position.
• Clamping power	4000N.
• Note	Indexable around $4 \times 90^\circ$.



Model No.

ZRS-321153 | ER. Quick chuck 50 with sub bar

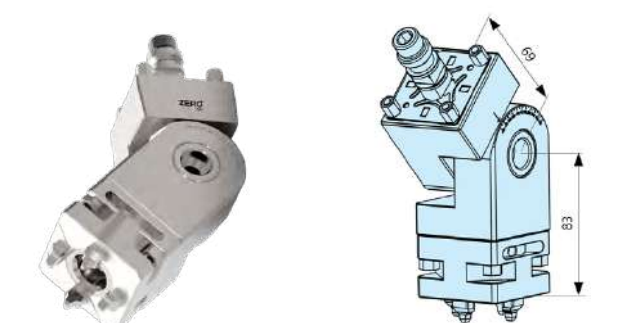
• Version	Steel, hardened.
• Clamping power	4000N.
• Application	On EDM center.



Model No.

ZRS-323164 | ER. Angled Quick chuck 50

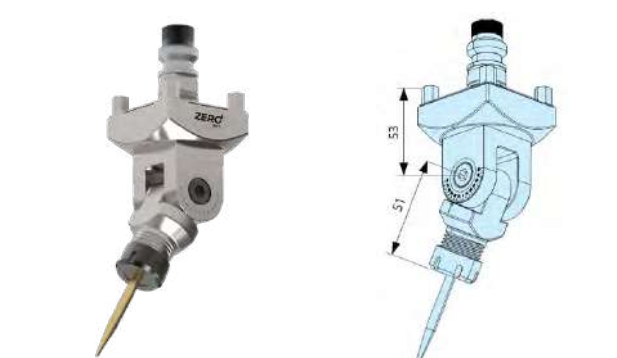
• Version	ITS Quick chuck 50, To be set with the vernier 0° to 90° .
• Application	To fit lateral sprues to casting tools.
• Clamping power	4000N.
• Note	On EDM center.



Model No.

ZRS-323165 | ER. Angled Collet chuck, ER16

• Version	Collet chuck ER16, To be set with the vernier 0° to 90° .
• Application	Round material $\varnothing 1 \sim \varnothing 10\text{mm}$. On EDM center.



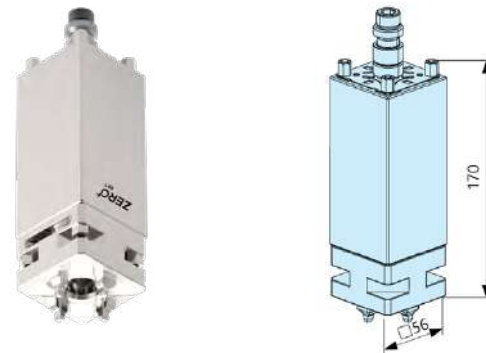
ZERO Set, EROWA Compatible ITS system

Special electrode holders

Model No.

ZRS-323151 | ER. Quick chuck 50,
vertical extended 170

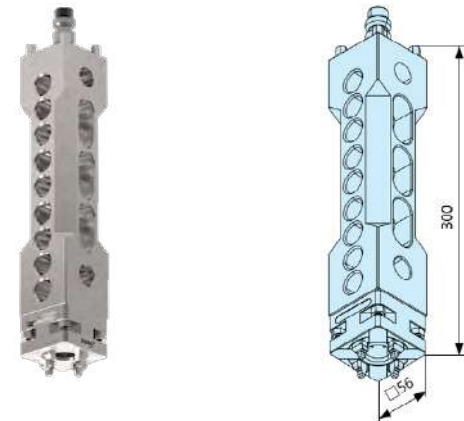
- **Version** Quick chuck 50.
- **Application** ITS base for manual loading of ITS elements carrying workpieces that require extension.
- **Clamping power** 4000N.
- **Application** On EDM center.



Model No.

ZRS-323154 | ER. Quick chuck 50,
vertical extended 300

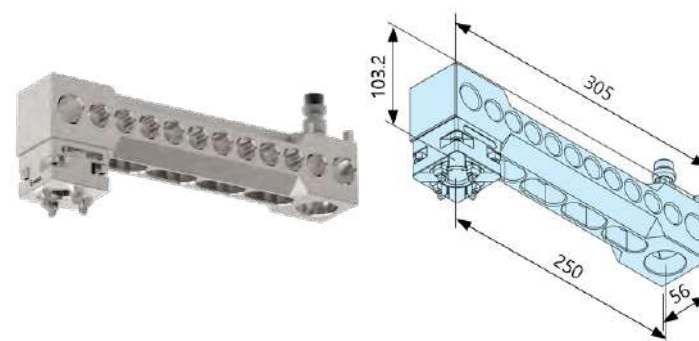
- **Version** Quick chuck 50.
- **Application** ITS base for manual loading of ITS elements carrying workpieces that require extension.
- **Clamping power** 4000N.
- **Application** On EDM center.



Model No.

ZRS-323155 | ER. Quick chuck 50,
Horizontal extended 300

- **Version** Quick chuck 50.
- **Application** For accommodation of workpieces and electrodes that have to be machined in a vertical and in a horizontal position.
- **Clamping power** 4000N.
- **Application** On EDM center.



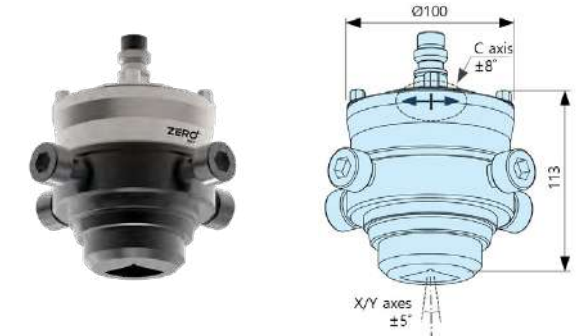
ZERO Set, EROWA Compatible ITS system

Special electrode holders

Model No.

ZRS-323186 | ER. Tilting holder 100

- **Version** Electrode holder with pendulum movement(Caxis $\pm 8^\circ$ / X,Yaxes $\pm 5^\circ$). ER Centering plate 100 (ZRS-322102).
- **Application** Clamping from outside, electrode.



Model No.

ZRS-323187 | ER. Tilting holder 50

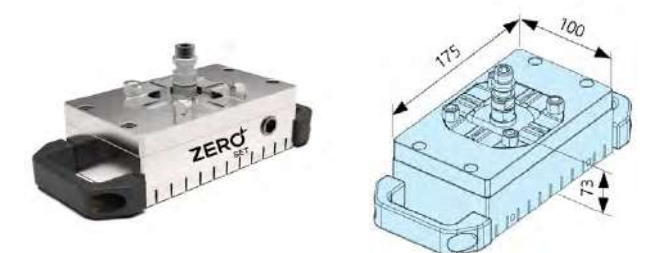
- **Version** Electrode holder with pendulum movement(Caxis $\pm 8^\circ$ / X,Yaxes $\pm 5^\circ$). ER Centering plate 50 (ZRS-322101).
- **Application** Clamping from outside, electrode.



Model No.

ZRS-324110 | ER. Permanent chuck
1810

- **Version** Permanent magnetic chuck with ER ITS 100 system.
- **Application** To Clamps electrode with steel plate.



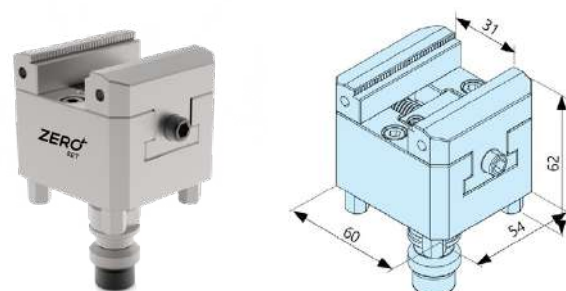
ZERO Set, EROWA Compatible ITS system

Special electrode holders

Model No.

ZRS-323201 | ER. Centering vise 30

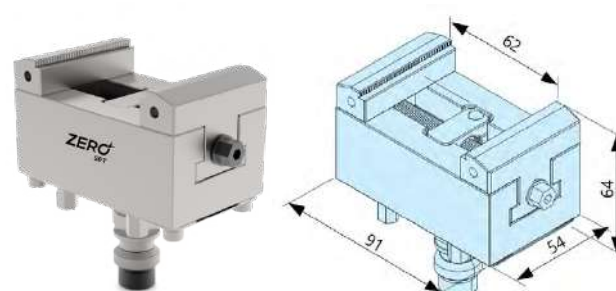
• Version	Centering vise, steel.
• Application	To clamp electrodes or workpieces with a width of up to 31mm. For EDM, grinding, light milling.
• Centering accuracy	± 0.02



Model No.

ZRS-323203 | ER. Centering vise 60

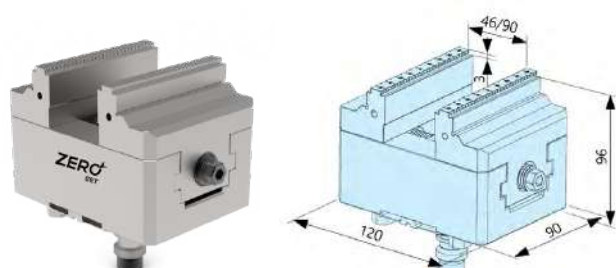
• Version	Centering vise, steel.
• Application	To clamp electrodes or workpieces with a width of up to 62mm. For EDM, grinding, light milling.
• Centering accuracy	± 0.02



Model No.

ZRS-323205 | ER. Centering vise 90

• Version	Centering vise, steel.
• Application	To clamp electrodes or workpieces with a width of up to 90mm. For EDM, grinding, light milling.
• Centering accuracy	± 0.02



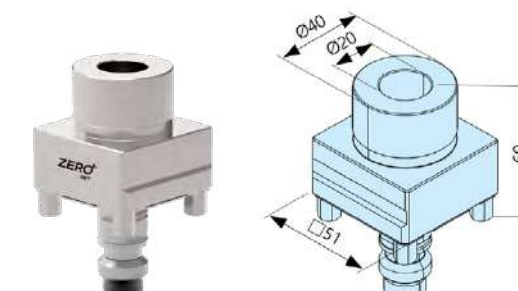
ZERO Set, EROWA Compatible ITS system

Measuring and checking elements

Model No.

ZRS-324101 | ER. Gaging pin 50

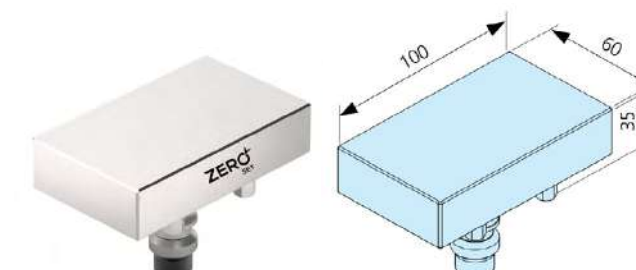
• Version	Hardened, ground.
• Application	Alignment of ER. ITS chuck in radial, axial and angular position.
• Compatible of	ER-008617.



Model No.

ZRS-324103 | ER. Gaging block 100

• Version	Hardened, ground.
• Application	Alignment of ER. ITS chuck in axial and angular position.



Model No.

ZRS-324105 | ER. Checking pin 50

• Version	Hardened, ground.
• Application	Alignment of ER. ITS chuck in radial, axial and angular position.
• Compatible of	ER-010723.



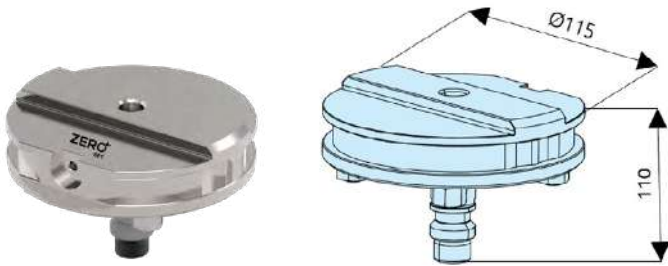
ZERO Set, EROWA Compatible ITS system

Measuring and checking elements

Model No.

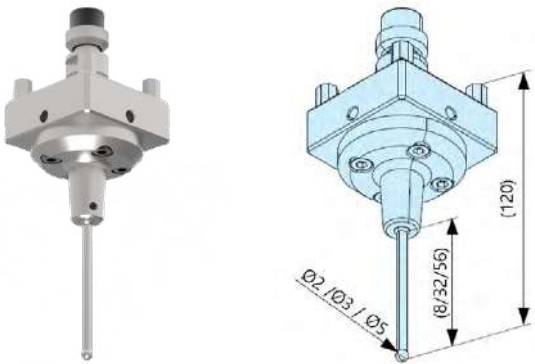
ZRS-324107 | ER. Alignment pallet Ø115

• Version	Hardened, ground. Pallet Ø115mm, alignment length 110mm, center borehole Ø12mm.
• Application	Alignment of radial, axial and angular position of ITS ER. ITS chucks, power chuck.
• Compatible of	ER-032819.



ZRS-324132
ZRS-324133
ZRS-324135

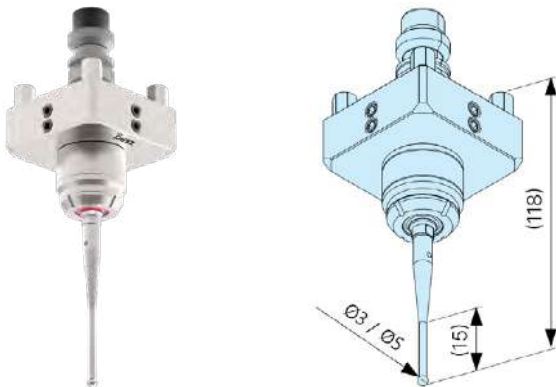
ZRS-324132	ER. Sensor with ball Ø2mm, fixed type.
ZRS-324133	ER. Sensor with ball Ø3mm, fixed type.
ZRS-324135	ER. Sensor with ball Ø5mm, fixed type.
• Version	Holder with sensing pin and tungsten carbide ball.
• Application	Automatic measurement of workpieces in CNC EDM-sinking center. Replacement of pins: ZRS-521522(Ø2), ZRS-521523(Ø3), ZRS-521525(Ø5).
• Compatible of	ER-008638, ER-010562.



Model No.

ZRS-324123
ZRS-324125

ZRS-324123	ER. Sensor with ball Ø3mm, spring type.
ZRS-324125	ER. Sensor with ball Ø5mm, spring type.
• Version	Holder with spring-loaded sensing pin and tungsten carbide ball.
• Application	Automatic measurement of workpieces in CNC EDM-sinking center. Replacement of pins: ZRS-521533(Ø3), ZRS-521535(Ø5).
• Compatible of	ER-008638, ER-010562.



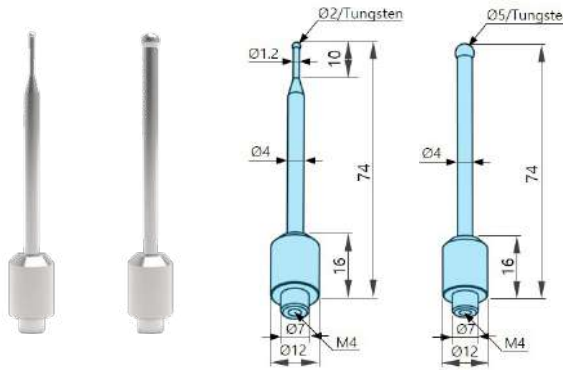
ZERO Set, EROWA Compatible ITS system

Measuring and checking elements

Model No.

ZRS-324152
ZRS-324155

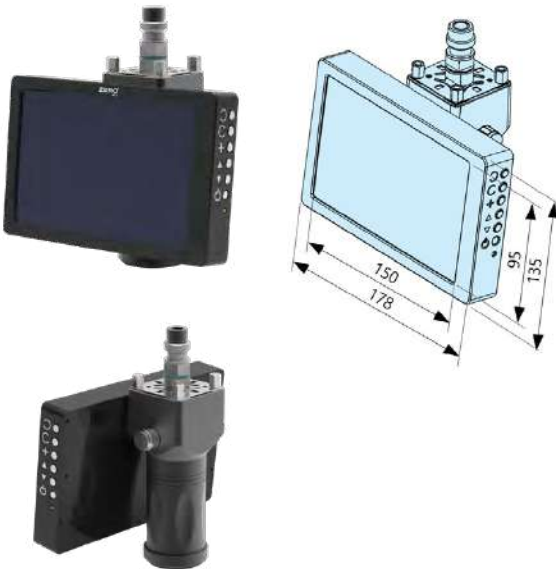
ZRS-324152	ER. Replace Sensor pin Ø2mm.
ZRS-324155	ER. Replace Sensor pin Ø5mm.
• Version	Tungsten carbide, incl adapter part, without spacer washer.
• Application	Replacement of pins in sensors ER-008638 and ER-010562. Attention : spacer washer is matched to the respective sensor.
• Compatible of	ER-010560 and ER-010561.



Model No.

ZRS-324109 | ER. Micro-image 50

• Version	Camera and monitor with ER. ITS 50. Amplification factor L 50x.
• Application	Determination of dimensions of complicated contours.
• Screen	7 inches / 1080P.
• Visual accuracy	±0.003mm.
• Focus	50~60mm.
• Power voltage	400MA (DC 12V).
• Compatible of	ER-032464.



ZERO Set, Zero Point clamping system

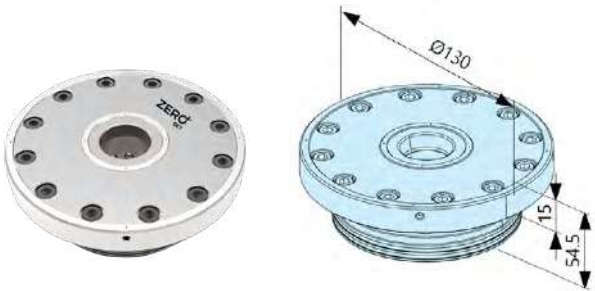
Pneumatic, manual loading

Technical data					
Repeatability	0.005mm	Activation	clamped without pressure	Clamping power	12000N /chuck
Generated by	spring power	Opening	min. 6 bar	Process monitoring	pneumatically

Model No.

ZRS-351001 | Zero Point Integral chuck M-P

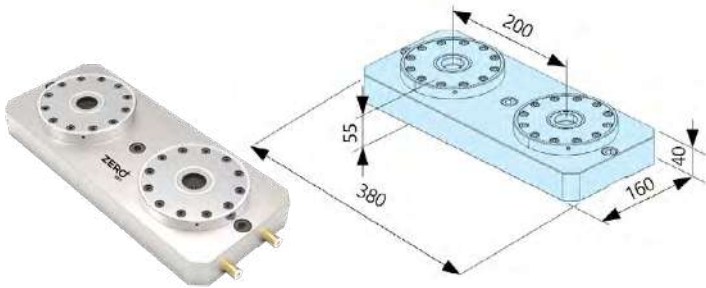
• Version	For direct integration in machine table, plates, tombstones, squares or dividing heads.
• Connection	To open : Pneumatic.
• Operation	6 bar, with control unit.
• Application	To accommodate single pallet.
• Compatible of	ER-033400.



Model No.

ZRS-351002 | Zero Point Integral chuck M-P, 2-folds, 160x380/200P

• Version	Base plate, steel, unhardened ; set-up distance 200mm.
• Connection	To open : Pneumatic
• Operation	6 bar, with control unit.
• Application	To accommodate double pallets. For direct assembly on machine tables.
• Note	Attachment boreholes can be drilled by customers.
• Caution	Do not drill through any air ducts! Please order operating instructions from your KIMZ dealer.
• Compatible of	ER-041600.



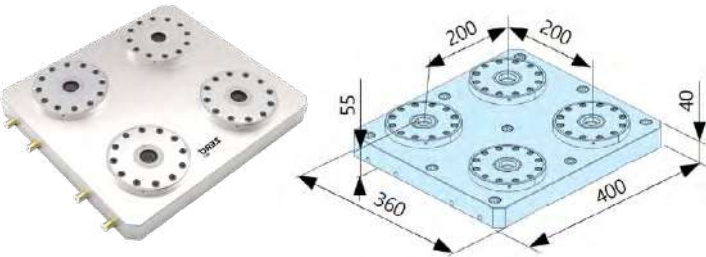
ZERO Set, Zero Point clamping system

Pneumatic, manual loading

Model No.

ZRS-351004 | Zero Point Integral chuck M-P, 4-folds, 360x400/200P

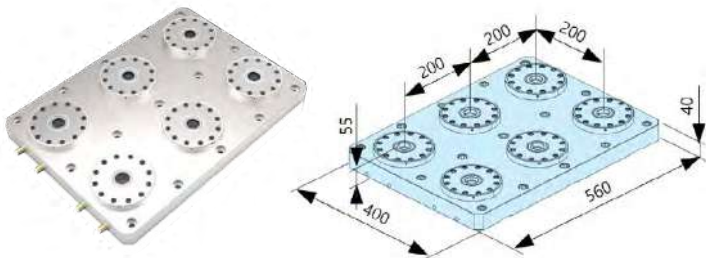
• Version	Base plate, steel, unhardened ; set-up distance 200mm.
• Connection	Lateral, to open : Pneumatic.
• Operation	6 bar, with control unit.
• Application	To accommodate multiple pallets. For direct assembly on machine tables.
• Note	Attachment boreholes can be drilled by customers.
• Caution	Do not drill through any air ducts! Please order operating instructions from your KIMZ dealer.
• Accessories	1xZRS-352501, 1xZRS-352503 2xZRS-352502.
• Compatible of	ER-033300.



Model No.

ZRS-351006 | Zero Point Integral chuck M-P, 6-folds, 400x560/200P

• Version	Base plate, steel, unhardened ; set-up distance 200mm.
• Connection	Lateral, to open : Pneumatic.
• Operation	6 bar, with control unit.
• Application	To accommodate multiple pallets. For direct assembly on machine tables.
• Note	Attachment boreholes can be drilled by customers.
• Caution	Do not drill through any air ducts! Please order operating instructions from your KIMZ dealer.
• Accessories	1xZRS-352501, 1xZRS-352503 4xZRS-352502.
• Compatible of	ER-033900.



ZERO Set, Zero Point clamping system

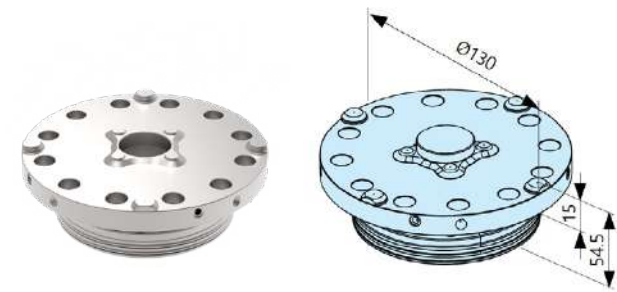
Pneumatic, able to automate

Technical data					
Repeatability	0.005mm	Activation	clamped without pressure	Clamping power	12000N /chuck
Generated by	spring power	Opening	min. 6 bar	Process monitoring	pneumatically

Model No.

ZRS-351021 | Zero Point Integral chuck M-P/A

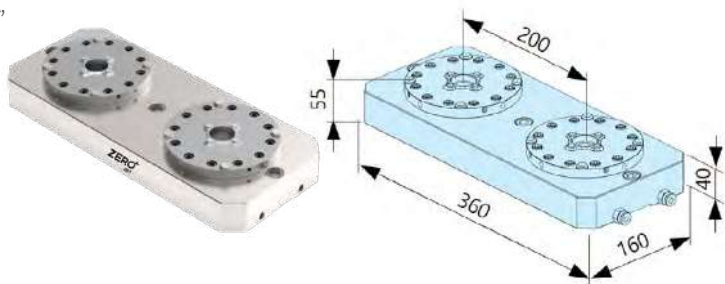
• Version	For direct integration in machine table, plates, tombstones, squares or dividing heads.
• Connection	To open : Pneumatic. To clean : Pneumatic.
• Operation	6 bar, air cleaning, with control unit.
• Application	To accommodate single pallet.
• Compatible of	ER-036800.



Model No.

ZRS-351022 | Zero Point Integral chuck M-P/A, 2- folds, 160x380/200P

• Version	Base plate, steel, unhardened ; set-up distance 200mm.
• Connection	To open : Pneumatic. To clean : Pneumatic.
• Operation	6 bar, air cleaning, with control unit.
• Application	To accommodate double pallets. For direct assembly on machine tables.
• Note	Attachment boreholes can be drilled by customers.
• Caution	Do not drill through any air ducts! Please order operating instructions from your KIMZ dealer.
• Compatible of	ER-041600.



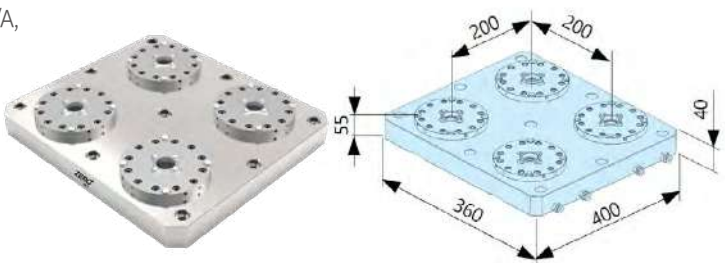
ZERO Set, Zero Point clamping system

Pneumatic, able to automate

Model No.

ZRS-351024 | Zero Point Integral chuck M-P/A, 4-folds, 360x400/200P

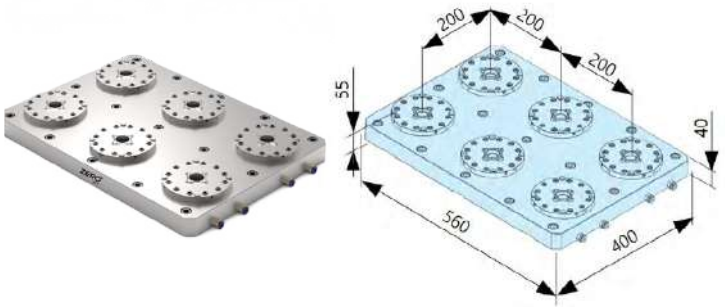
• Version	Base plate, steel, unhardened ; set-up distance 200mm.
• Connection	Lateral to open : Pneumatic. Lateral to clean : Pneumatic.
• Operation	6 bar, air cleaning, with control unit
• Application	To accommodate multiple pallets. For direct assembly on machine tables.
• Note	Attachment boreholes can be drilled by customers.
• Caution	Do not drill through any air ducts! Please order operating instructions from your KIMZ dealer.
• Accessories	1xZRS-352501, 1xZRS-352503 2xZRS-352502.
• Compatible of	ER-038300.



Model No.

ZRS-351026 | Zero Point Integral chuck M-P/A, 6- folds, 400x560/200P

• Version	Base plate, steel, unhardened ; set-up distance 200mm.
• Connection	Lateral to open : Pneumatic. Lateral to clean : Pneumatic.
• Operation	6 bar, air cleaning, with control unit.
• Application	To accommodate multiple pallets. For direct assembly on machine tables.
• Note	Attachment boreholes can be drilled by customers.
• Caution	Do not drill through any air ducts! Please order operating instructions from your KIMZ dealer.
• Accessories	1xZRS-352501, 1xZRS-352503 4xZRS-352502.
• Compatible of	ER-033900.



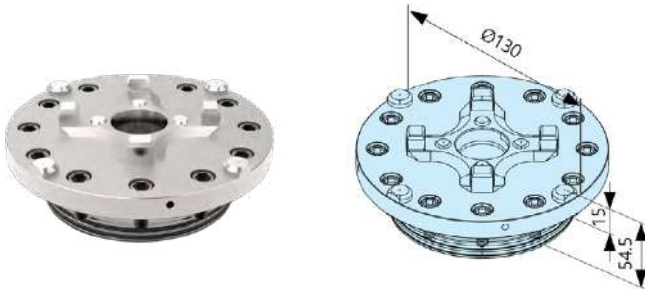
ZEROSet, Zero Point clamping system

Pneumatic, able to automate

Technical data					
Repeatability	0.005mm	Indexation, pallet	4 x 90°	Activation	clamped without pressure
Clamping power	12000N /chuck	Generated by	spring power	Opening	min. 6 bar
Process monitoring	pneumatically				

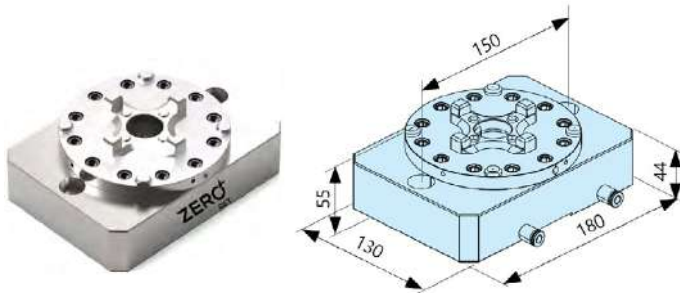
Model No.
ZRS-351041 | Zero Point Chuck S-P/A

• Version	For direct integration in machine table, plates, tombstones, squares or dividing heads.
• Connection	To open : Pneumatic. To clean : Pneumatic.
• Operation	6 bar, with control unit.
• Application	To accommodate single pallet.
• Compatible of	ER-036802.



Model No.
ZRS-351051 | Zero Point Chuck S-P/A with base plate 130x180

• Version	For direct integration in machine table, plates, tombstones, squares or dividing heads.
• Connection	Lateral to open : Pneumatic. Lateral to clean : Pneumatic.
• Operation	6 bar, with control unit.
• Application	To accommodate single or multi pallets.
• Compatible of	ER-035502.

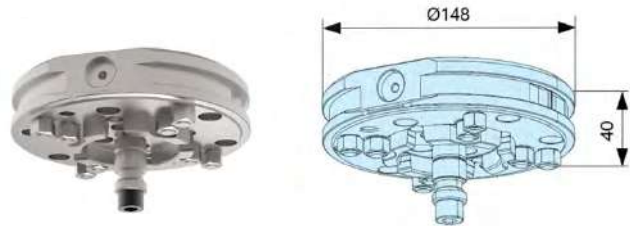


ZEROSet, Zero Point clamping system

Pallets

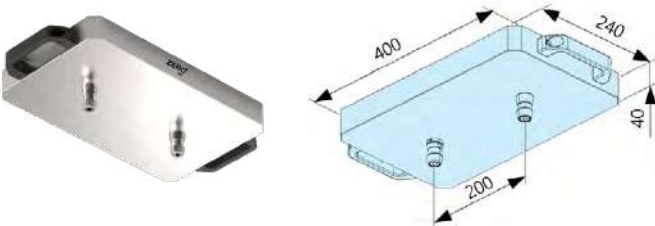
Model No.
ZRS-352001 | Zero Point pallet Ø148, steel

• Version	Steel pallet, not hardened, including chucking spigot ZRS-352505. Centering segment integrated in the pallet body.
• Application	To clamp workpieces, vises and gauges. For manual handling and automatic operation.
• Compatible of	ER-041928.



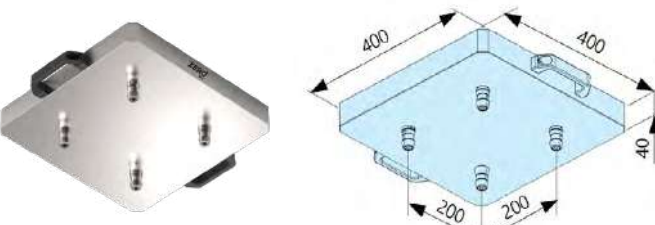
Model No.
ZRS-352002 | Zero Point pallet 240x400/200P

• Version	Aluminum pallet, 2-fold, excluding chucking spigot (zero point chucking spigot set (ZRS-352505).
• Application	To clamp workpieces, vises and gauges.
• Accessories	ZRS-352505 to be ordered separately.
• Compatible of	ER-033703.



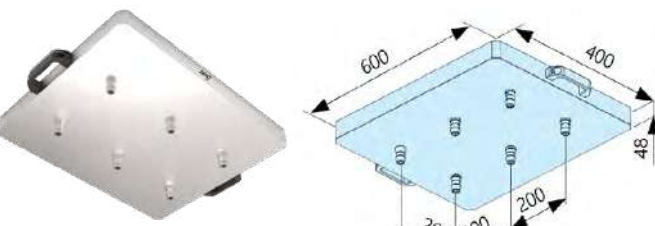
Model No.
ZRS-352004 | Zero Point pallet 400x400/200P

• Version	Aluminum pallet, 4-fold, excluding chucking spigot (zero point chucking spigot set (ZRS-352506).
• Application	To clamp workpieces, vises and gauges.
• Accessories	ZRS-352506 to be ordered separately.
• Compatible of	ER-038014.



Model No.
ZRS-352006 | Zero Point pallet 500x600/200P

• Version	Aluminum pallet, 6-fold, excluding chucking spigot (zero point chucking spigot set (ZRS-352507).
• Application	To clamp workpieces, vises and gauges.
• Accessories	ZRS-352507 to be ordered separately.



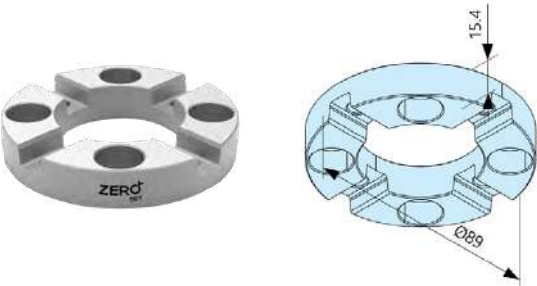
ZERO Set, Zero Point clamping system

The components

Model No.

ZRS-352514 | Zero Point Centering plate

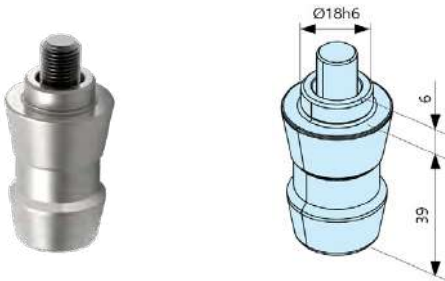
- **Version** Steel, including attachment bolts and positioning pins.
- **Application** For the production of customized and indexable zero point pallets.
- **Accessories** Chucking spigot ZRS-352502 to be ordered separately.
- **Compatible of** ER-033600.



Model No.

ZRS-352501 | Zero Point Centering spigot

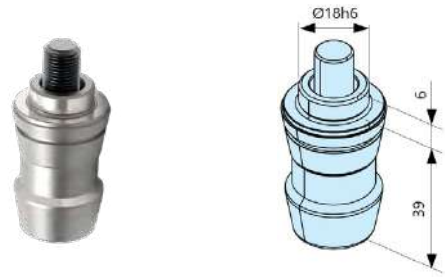
- **Version** One chucking spigot with centering function (without play), including attachment bolts (M10x50, M12x55).
- **Compatible of** ER-033800.



Model No.

ZRS-352502 | Zero Point Chucking spigot

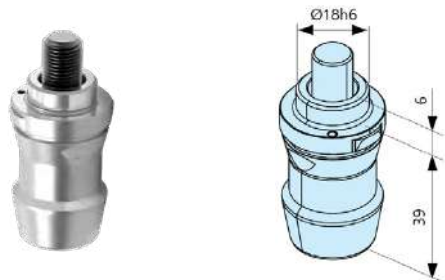
- **Version** One chucking spigot without centering (centering play 0.1mm), including attachment bolts (M10x50, M12x55).
- **Compatible of** ER-039200.



Model No.

ZRS-352503 | Zero Point Compensation spigot

- **Version** One chucking spigot with compensation function, including attachment bolts (M10x50, M12x55).
- **Compatible of** ER-039201.



ZERO Set, System 3R Compatible chucks

Pneumatic, quill, able to automate

Technical data

Repeatability	0.002mm	Generated by	springs
Indexing	4 x 90 °	Clamping power	6000N

Model No.

ZRS-421100 | 3R. Macro chuck Ø100, Inox without housing

- **Version** Rust resistant pneumatic chuck for building-in, for example in a fixture, dividing head or B-axis.
- **Connection** On the rear, with two lines.
- **Operation** 6 bar, air cleaning, with control unit.
- **Application** On milling, EDM, WEDM center.
- **Required drawer** ZRS-422112, 3R-605.1
- **Compatible of** 3R-SP26771-RS.



Model No.

ZRS-421121 | 3R. Macro chuck Ø100, Quill type A

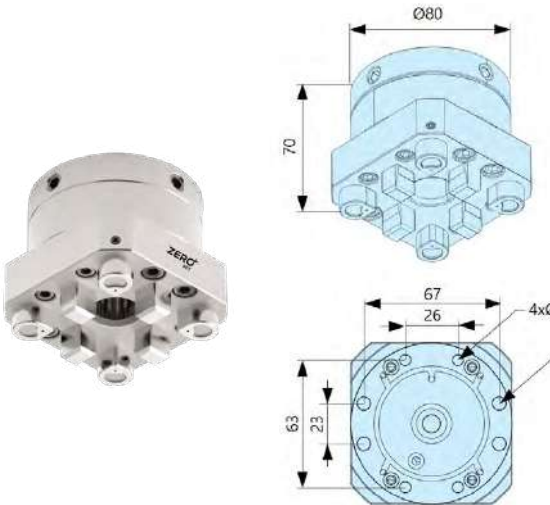
- **Version** Steel, hardened.
- **Connection** On the rear, with two lines.
- **Operation** 6 bar, air cleaning, with control unit.
- **Application** On EDM center.
- **Required drawer** ZRS-422112, 3R-605.1.
- **Compatible of** 3R-600.84-3, 3R-600.84-30



Model No.

ZRS-421122 | 3R. Macro chuck 80, Quill type B

- **Version** Steel, hardened.
- **Connection** On the side and rear, with two lines.
- **Operation** 6 bar, air cleaning, with control unit.
- **Application** On EDM center.
- **Required drawer** ZRS-422112, 3R-605.1.
- **Compatible of** 3R-600.86-3, 3R-600.86-30



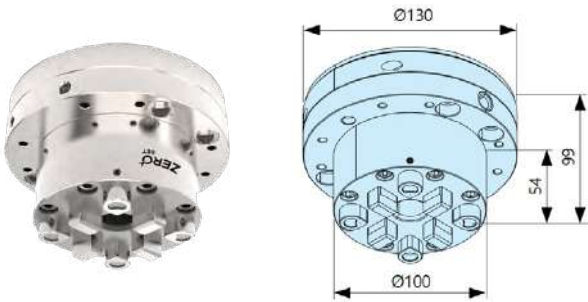
ZERO Set, System 3R Compatible chucks

Pneumatic, quill

Model No.

ZRS-421103 | 3R. Macro chuck Ø100 with base plate Ø130

• Version	Steel, hardened.
• Connection	On the side.
• Operation	6 bar, with control unit.
• Application	On EDM center.
• Required drawer	ZRS-422112, 3R-605.1



ZERO Set, System 3R Compatible chucks

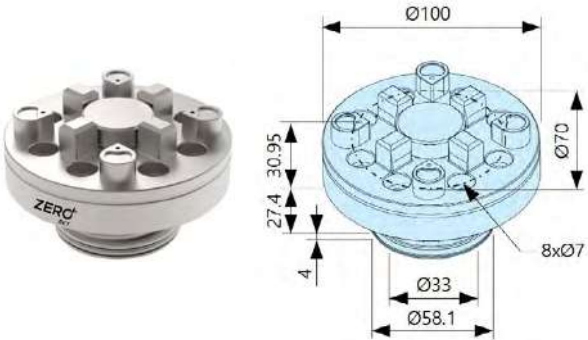
Pneumatic, table, able to automate

Technical data			
Repeatability	0.002mm	Generated by	springs
Indexing	4 x 90 °	Clamping power	6000N

Model No.

ZRS-421100 | 3R. Macro chuck Ø100, Inox without housing

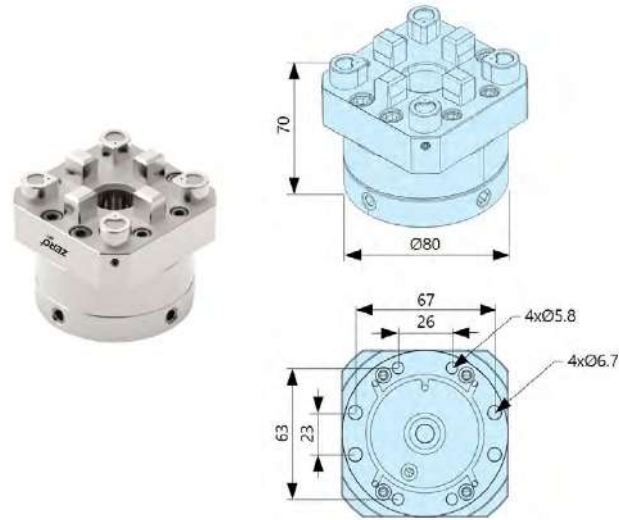
• Version	Rust resistant pneumatic chuck for building-in, for example in a fixture, dividing head or B-axis.
• Connection	On the rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Application	On milling, EDM, WEDM center.
• Required drawer	ZRS-422112, 3R-605.1.
• Compatible of	3R-SP26771-RS.



Model No.

ZRS-421122 | 3R. Macro chuck 80

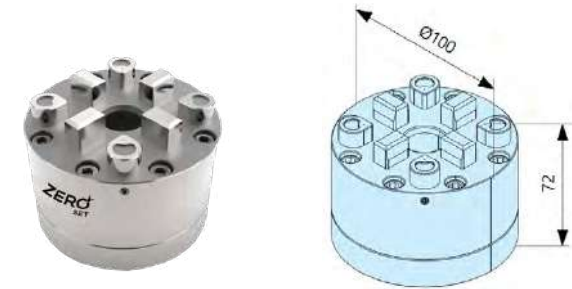
• Version	Steel, hardened.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Application	On milling, EDM center.
• Required drawer	ZRS-422112, 3R-605.1.
• Compatible of	3R-600.86-3, 3R-600.86-30



Model No.

ZRS-421101 | 3R. Macro chuck Ø100, without base plate

• Version	Steel, hardened.
• Connection	On the rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Application	On milling, EDM center.
• Required drawer	ZRS-422112, 3R-605.1



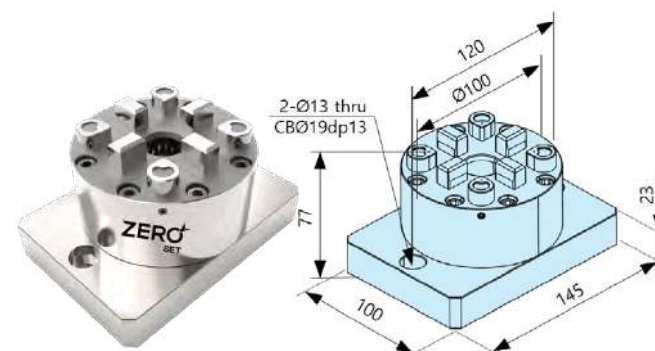
ZERO Set, System 3R Compatible chucks

Pneumatic, table, able to automate

Model No.

ZRS-421102 | 3R. Macro chuck Ø100 with base plate 100x145

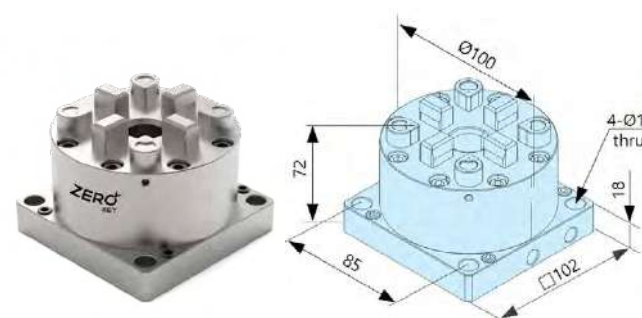
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N.
• Application	On Milling, EDM center
• Required drawer	ZRS-422112, 3R-605.1



Model No.

ZRS-421105 | 3R. Macro chuck Ø100 with base plate 102x102

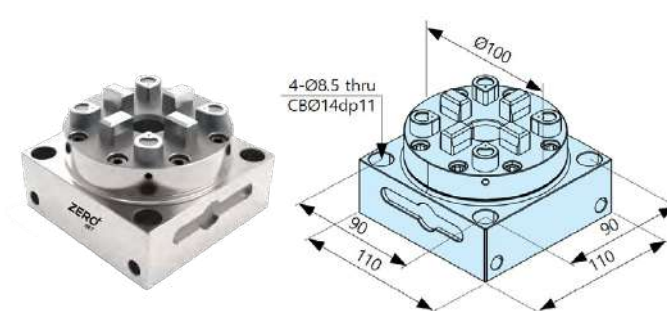
• Version	Steel, hardened.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N.
• Application	On Milling, EDM center.
• Required drawer	ZRS-422112, 3R-605.1



Model No.

ZRS-421150 | 3R. Macro chuck Ø100 with base plate 110x110

• Version	Steel, hardened.
• Connection	On the side, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N.
• Application	On Milling, EDM center.
• Required drawer	ZRS-422112, 3R-605.1
• Compatible of	3R-600.10-30



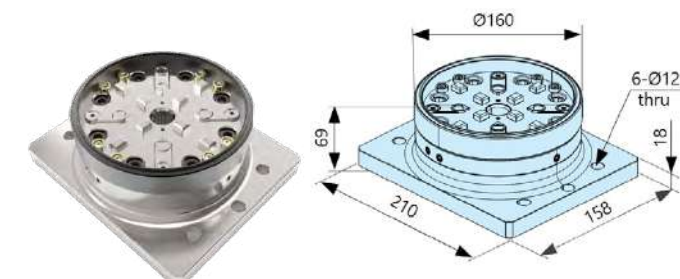
ZERO Set, System 3R Compatible chucks

Pneumatic, table, able to automate

Model No.

ZRS-431103 | 3R. Macro Magnum with base plate 158x210

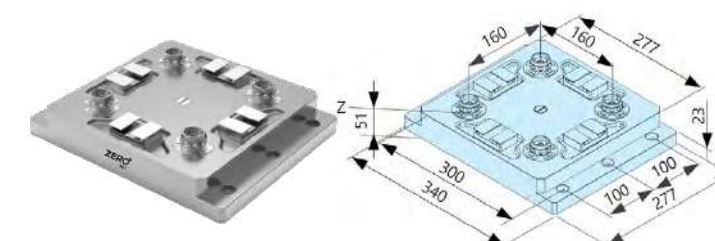
• Version	Extra-flat version.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	16000N.
• Application	On Milling, grinding, EDM center.
• Compatible of	3R-680.10-2



Model No.

ZRS-441103 | 3R. Dynafix chuck

• Version	Pneumatic table chuck with 3Refix-holes.
• Connection	On the side and rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	60000N.
• Application	On Milling, grinding, drilling and EDM sinking centers.
• Compatible of	3R-770.19-1



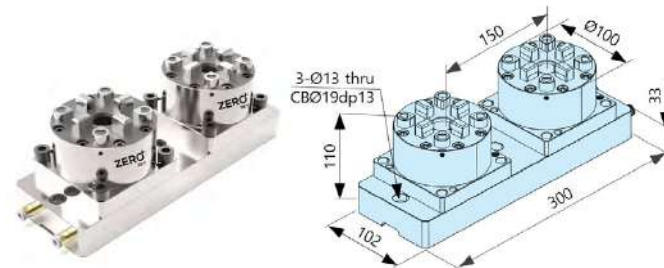
ZERO Set, System 3R Compatible chucks

Pneumatic, table, multi chucks

Model No.

ZRS-421112 | 3R. Macro chuck Ø100, 2 in 1

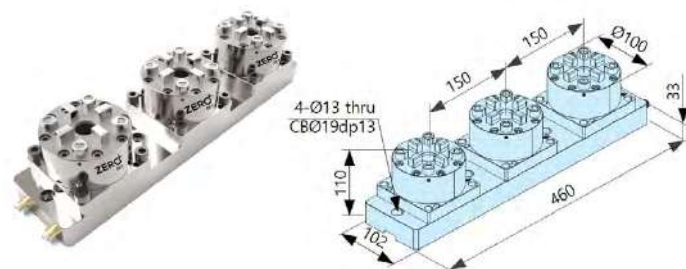
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling center.
• Note	Mainly used for electrode machining in the milling center.



Model No.

ZRS-421113 | 3R. Macro chuck Ø100, 3 in 1

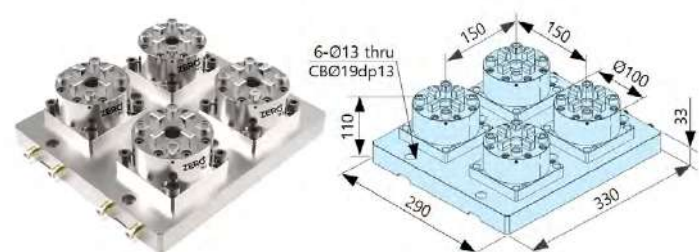
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling center.
• Note	Mainly used for electrode machining in the milling center.



Model No.

ZRS-421114 | 3R. Macro chuck Ø100, 4 in 1

• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling center.
• Note	Mainly used for electrode machining in the milling center.



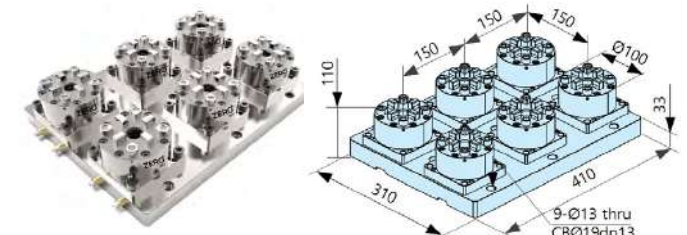
ZERO Set, System 3R Compatible chucks

Pneumatic, table, multi chucks

Model No.

ZRS-421116 | 3R. Macro chuck Ø100, 6 in 1

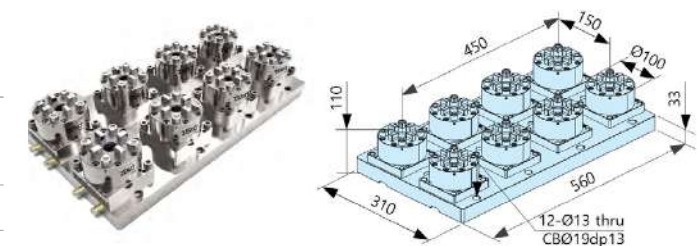
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling center.
• Note	Mainly used for electrode machining in the milling center.



Model No.

ZRS-421118 | 3R. Macro chuck Ø100, 8 in 1

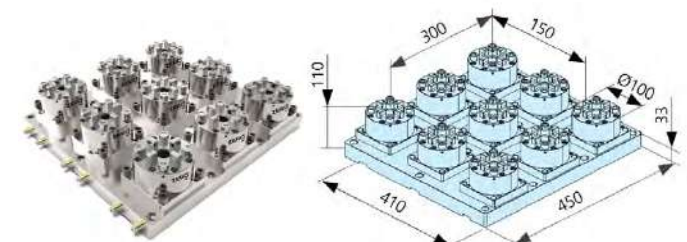
• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck..
• Application	On Milling, EDM center.
• Note	Mainly used for electrode machining in the milling center.



Model No.

ZRS-421119 | 3R. Macro chuck Ø100, 9 in 1

• Version	Steel, hardened.
• Connection	On the side or rear, with two lines.
• Operation	6 bar, air cleaning, with control unit.
• Clamping power	6000N/chuck.
• Application	On Milling center.
• Note	Mainly used for electrode machining in the milling center.

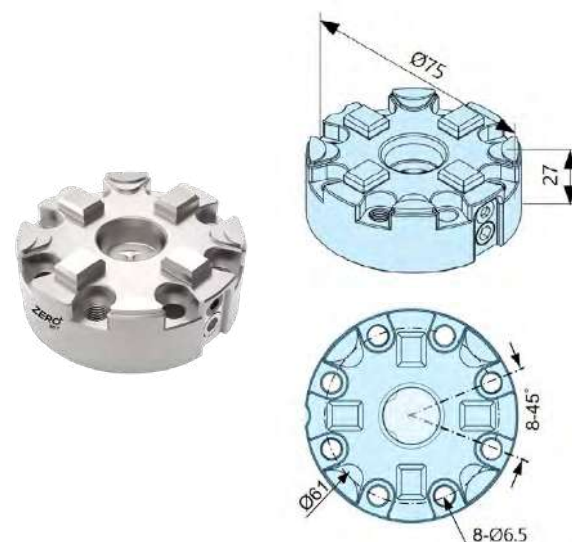


ZERO Set, System 3R Compatible chucks Manual, table

Model No.

ZRS-421201 | 3R. Manual chuck MacroStd

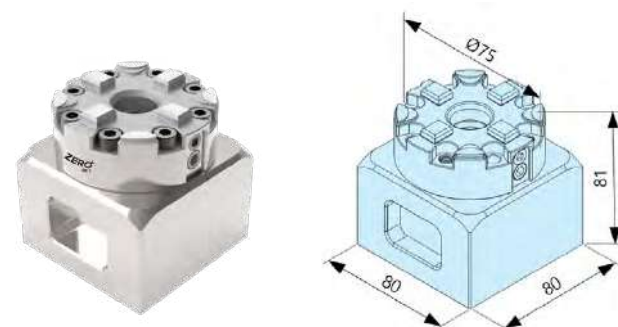
• Version	Steel, hardened.
• Application	EDM, grinding, light milling.
• Operation	Wrench.
• Clamping power	Up to 4000N.
• Note	Max. 200 rpm.
• Required drawer	ZRS-422111, 3R-605.2
• Compatible of	3R-600.23-S, 3R-600.24-S



Model No.

ZRS-421202 | 3R. Manual chuck MacroStd with base plate 80x80

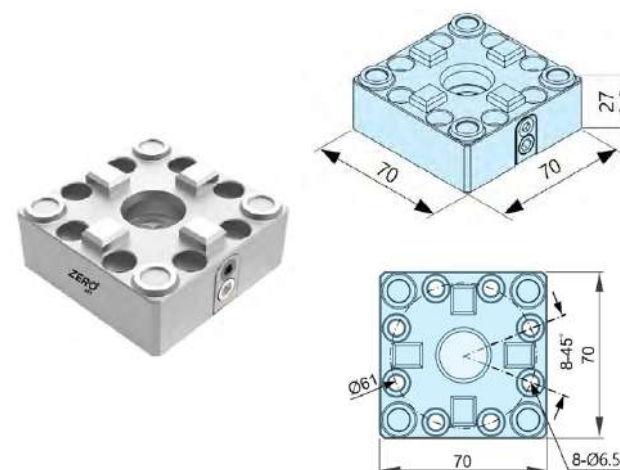
• Version	Steel, hardened.
• Application	EDM, grinding, light milling.
• Operation	Wrench.
• Clamping power	Up to 4000N.
• Note	Max. 200 rpm.
• Required drawer	ZRS-422111, 3R-605.2
• Compatible of	3R-610.21-S



Model No.

ZRS-421205 | 3R. Manual chuck 70

• Version	Steel, hardened.
• Application	EDM, grinding, light milling.
• Operation	Wrench.
• Clamping power	Up to 4000N.
• Note	Max. 200 rpm.
• Required drawer	ZRS-422111, 3R-605.2

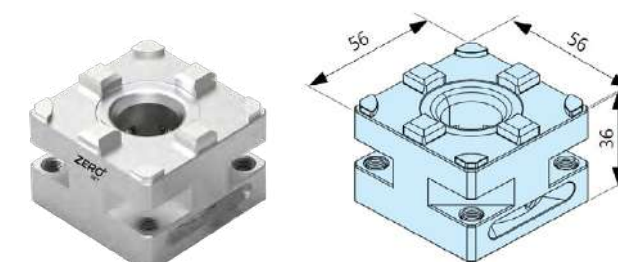


ZERO Set, System 3R Compatible chucks Manual, table

Model No.

ZRS-421301 | 3R. Quick chuck 50

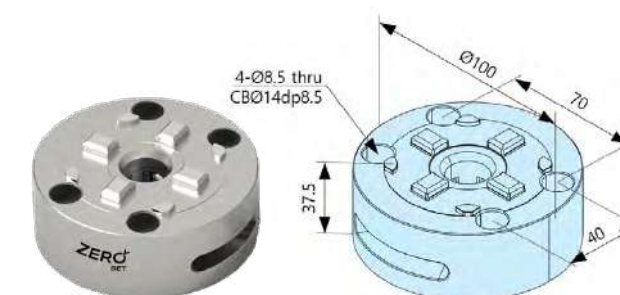
• Version	Steel, hardened.
• Application	EDM, grinding, light milling.
• Operation	Lever.
• Clamping power	Up to 4000N.
• Note	Max. 200rpm.
• Required drawer	ZRS-422111, 3R-605.2



Model No.

ZRS-421302 | 3R. Quick chuck 100

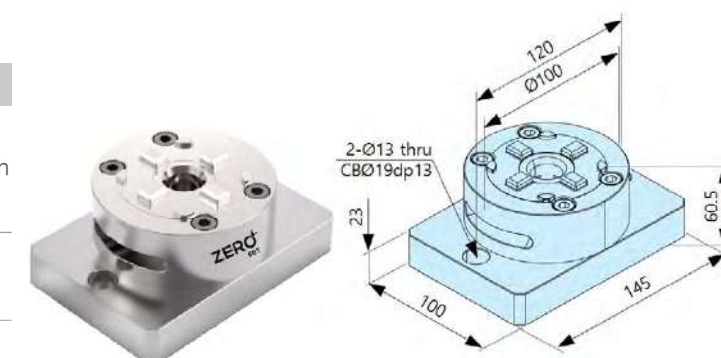
• Version	Steel, hardened.
• Application	Turning, milling, grinding or EDM center, dividers and fixtures.
• Operation	Lever.
• Clamping power	Up to 10000N.
• Note	Max. 300rpm.
• Required drawer	ZRS-422111, 3R-605.2



Model No.

ZRS-421303 | 3R. Quick chuck 100 with base plate 100x145

• Version	Steel, hardened.
• Application	Milling, grinding or EDM center.
• Operation	Lever.
• Clamping power	Up to 10000N.
• Required drawer	ZRS-422111, 3R-605.2



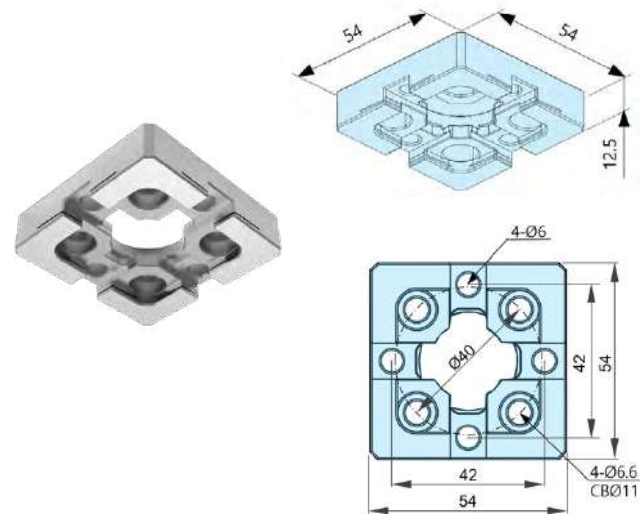
ZERO Set, System 3R Compatible system

The components

Model No.

ZRS-422101 | 3R. Pallet 54, Set of 8 units

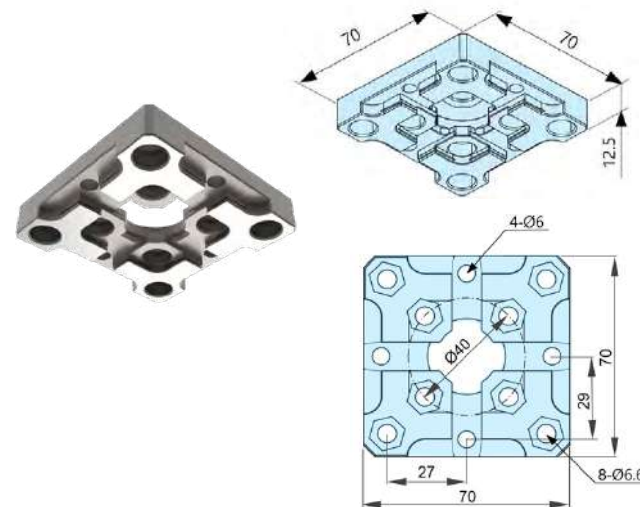
• Version	Steel, fine surface.
• Application	Small electrode weights.
• Mounting	Mounted directly on plane surface of blank.
• Compatible of	3R-651.7E-S, 3R-651.7E-XS



Model No.

ZRS-422102 | 3R. pallet 70, Set of 5 units

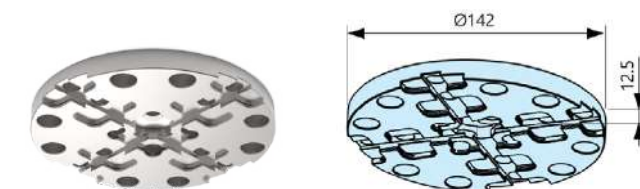
• Version	Steel, fine surface.
• Application	Workpiece and electrodes.
• Mounting	Mounted directly on plane surface of blank.
• Compatible of	3R-601.7E-P



Model No.

ZRS-422103 | 3R. Reference element Ø142

• Version	Steel, fine surface
• Application	Workpiece, electrodes and jig fixture.
• Mounting	Mounted directly on plane surface of blank.
• Compatible of	3R-681.71



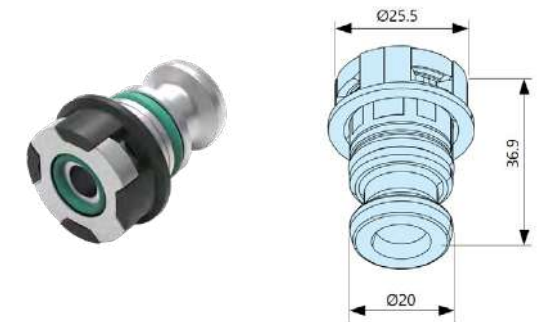
ZERO Set, System 3R Compatible system

The components

Model No.

ZRS-422111 | 3R. Drawer manual, Set of 10 units

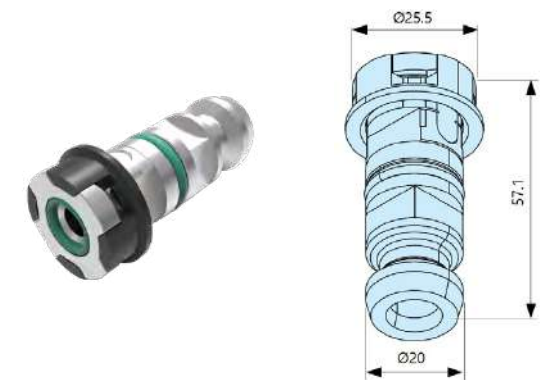
• Version	Manual type
• Application	In electrode holders. For EDMing and machining.
• Compatible of	3R-605.2RS, 3R-605.2E



Model No.

ZRS-422112 | 3R. Drawer auto, Set of 10 units

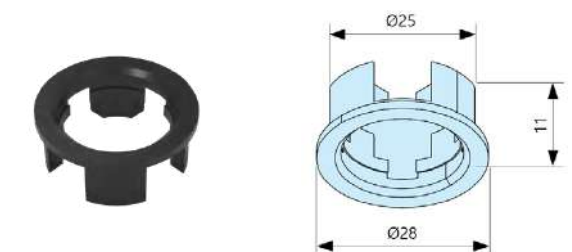
• Version	Automatic type
• Application	In electrode holders. For EDMing and machining.
• Compatible of	3R-605.1E



Model No.

ZRS-422113 | 3R. Drawer, plastic clip, Set of 10 units

• Version	For 3R drawers
• Application	Replacement.



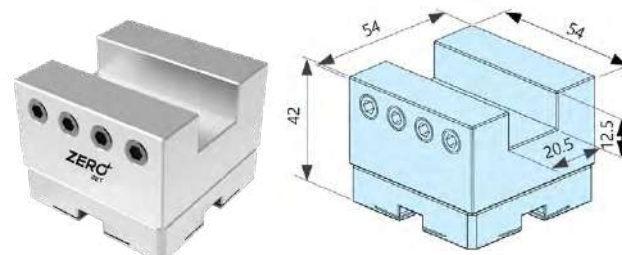
ZERO Set, System 3R Compatible system

Standard electrode holders, steel

Model No.

ZRS-422121 | 3R. Uniholder 20, steel,
Set of 8 units

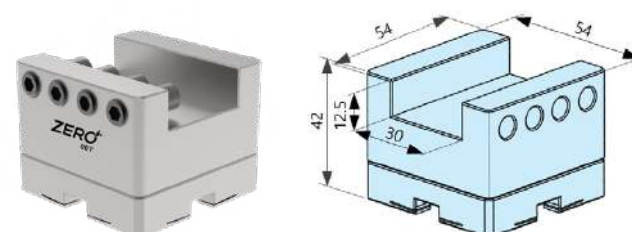
- **Version** Groove 20mm faced, including 4 set screws for each unit.
- **Application** To mount electrodes and workpieces with shaft sizes of up to 20mm.
- **Mounting** Insert and tighten setscrews.



Model No.

ZRS-422122 | 3R. Uniholder 30, steel,
Set of 8 units

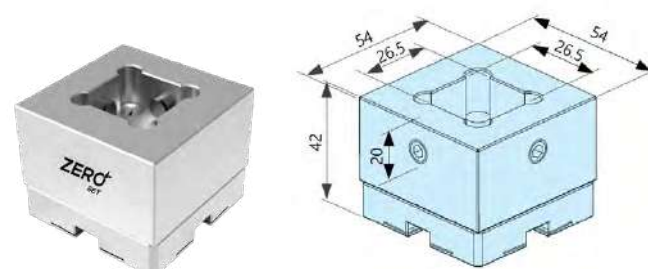
- **Version** Groove 30mm faced, including 4 set screws for each unit.
- **Application** To mount electrodes and workpieces with shaft sizes of up to 20mm.
- **Mounting** Insert and tighten setscrews.



Model No.

ZRS-422123 | 3R. Prisround 25, steel,
Set of 8 units

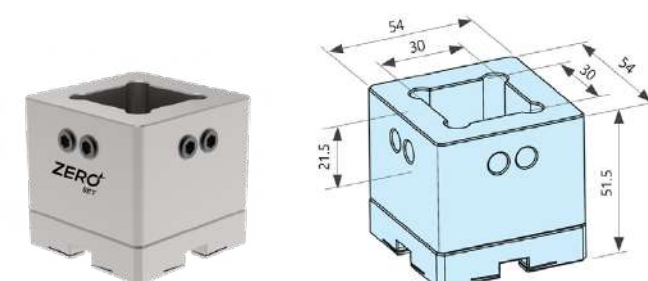
- **Version** Square 25mm milled, including 2 set screws for each unit.
- **Application** To mount electrodes and workpieces.
- **Mounting** Insert and tighten setscrews.



Model No.

ZRS-422124 | 3R. Prisround 30, steel,
Set of 8 units

- **Version** Square 30mm milled, including 2 set screws for each unit.
- **Application** To mount electrodes and workpieces.
- **Mounting** Insert and tighten setscrews.
- **Compatible** Of 3R-658.4E-S



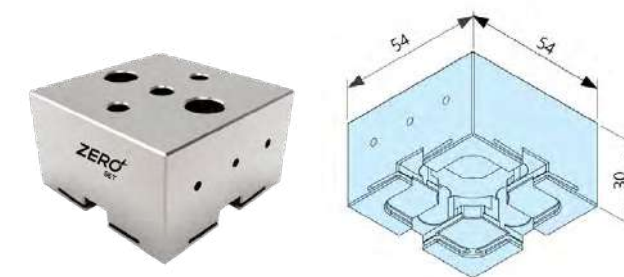
ZERO Set, System 3R Compatible system

Standard electrode holder & pallets

Model No.

ZRS-422125 | 3R. pallet 52x52, steel,
Set of 8 units

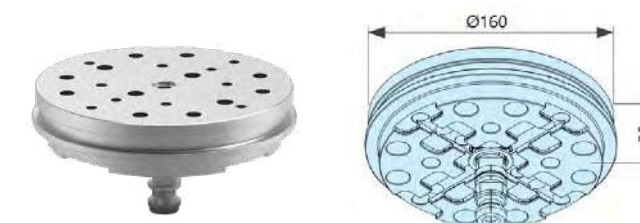
- **Version** Harden, with 3Refix Ø10mm holes, flushing connection and clearance holes for two fixing screws.
- **Mounting** Insert and tighten setscrews.
- **Compatible of** 3R-651.3



Model No.

ZRS-432103 | 3R. Pallet Ø156, steel

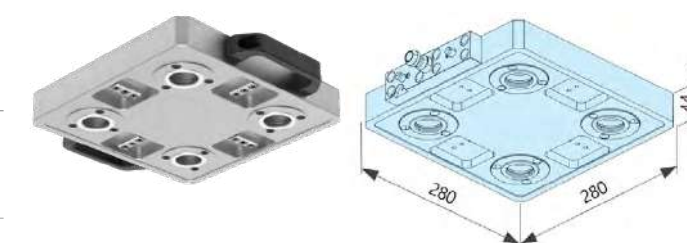
- **Version** Hardened pallet with threads and clearance holes for eight and ten fixing screws.
- **Application** 3Refix Ø10mm. Adapted for automatic changing.
- **Compatible of** 3R-681.51



Model No.

ZRS-442103 | 3R. Dynafix Pallet
280x280, Alu

- **Version** Aluminum pallet adapted for automatic changing.
- **Application** To clamp workpieces and fixtures. 3Refix Ø10mm. Adapted for automatic changing.
- **Note** Holes to be drilled as required.
- **Compatible of** 3R-771.2 and 3R-772.2



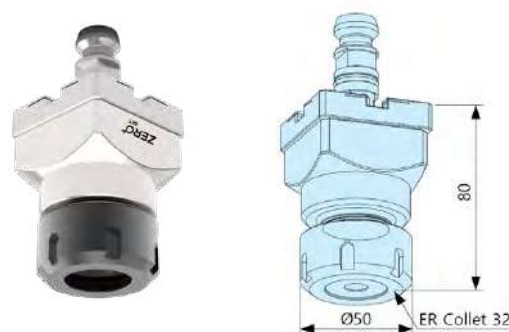
ZERO Set, System 3R Compatible system

Special electrode holders

Model No.

ZRS-423101 | 3R. Collet chuck holder, ER32

- **Version** For collets ER32.
- **Application** Round material $\varnothing 2 \sim \varnothing 20\text{mm}$.
- **Mounting** 3R-659.32-P



Model No.

ZRS-423102 | 3R. Collet chuck holder, ER40

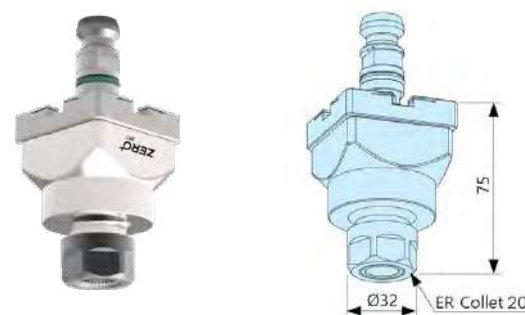
- **Version** For collets ER32.
- **Application** Round material $\varnothing 2 \sim \varnothing 30\text{mm}$.



Model No.

ZRS-423103 | 3R. Collet chuck holder, ER20

- **Version** For collets ER20.
- **Application** Round material $\varnothing 1 \sim \varnothing 13\text{mm}$.
- **Compatible of** 3R-659.20-P



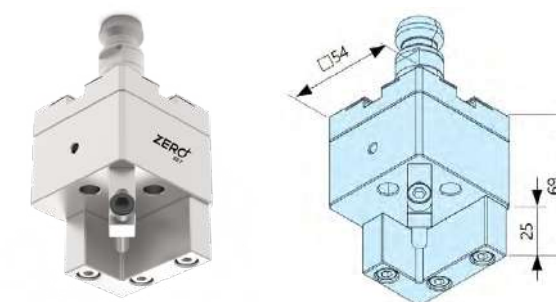
ZERO Set, System 3R Compatible system

Special electrode holders

Model No.

ZRS-423105 | 3R. V-block holder

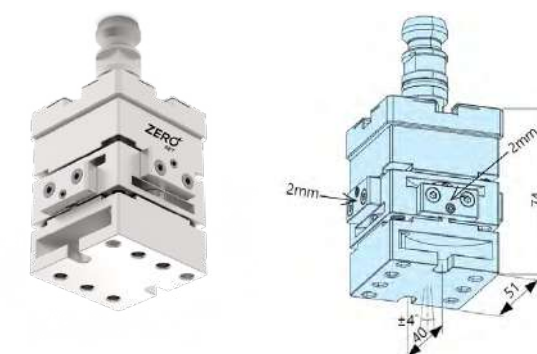
- **Version** Prism ground.
- **Application** Clamping from outside, precision machined electrode or small workpieces.
- **Compatible of** 3R-651.13



Model No.

ZRS-423106 | 3R. Universal holder

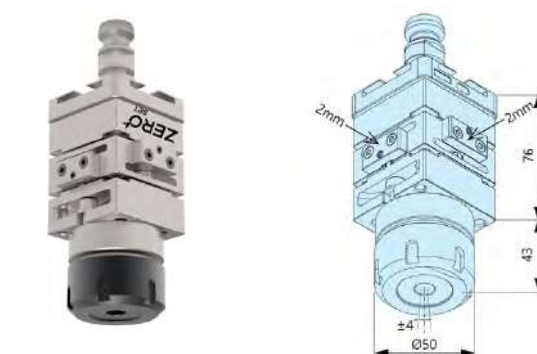
- **Version** Electrode holder with cross slide(2mm travel) and pendulum movement($\pm 4^\circ$).
- **Application** Clamping and alignment of electrodes. Not suitable for chip-machining.



Model No.

ZRS-423107 | 3R. Universal holder with collect chuck holder ER32

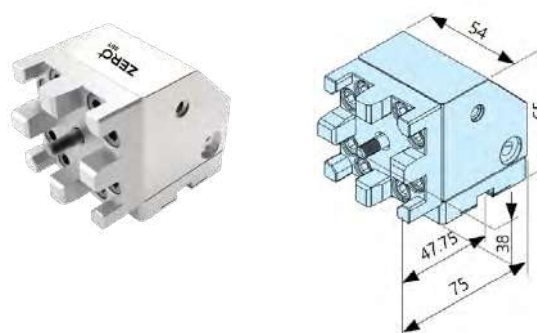
- **Version** Electrode holder with cross slide(2mm travel) and pendulum movement($\pm 4^\circ$).
- **Application** Clamping and alignment of electrodes. Not suitable for chip-machining. Round material up to $\varnothing 20\text{mm}$.



Model No.

ZRS-423151 | 3R. Manual chuck adapter 90°, Macro-Macro

- **Version** Prism ground
- **Application** For Horizontal mounting of Macro holders. Supplied with drawer for screw locking.
- **Clamping power** 4000N.
- **Note** Indexable around $4 \times 90^\circ$
- **Compatible of** 3R-652.9



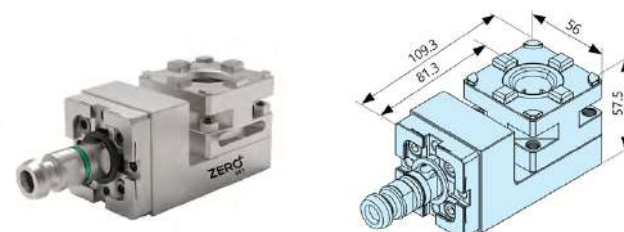
ZERO Set, System 3R Compatible system

Special electrode holders

Model No.

ZRS-423152 | 3R. Horizontal holder with QC 50

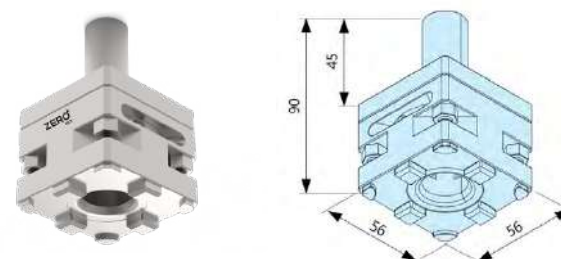
- **Version** Prism ground.
- **Application** For accommodation of workpieces and electrodes that have to be machined in a vertical and in a horizontal position.
- **Clamping power** 4000N.
- **Note** Indexable around 4x90°.



Model No.

ZRS-423157 | 3R. Quick chuck 50 with sub bar

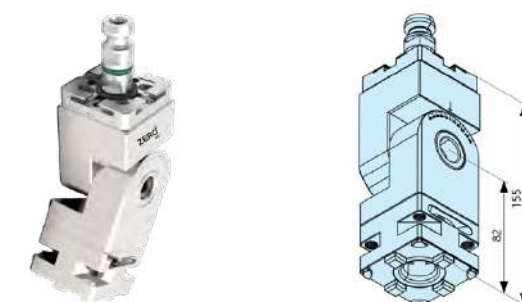
- **Version** Steel, hardened.
- **Clamping power** 4000N.
- **Application** On EDM center.



Model No.

ZRS-423164 | 3R. Angled Quick chuck 50

- **Version** 3R Quick chuck 50, To be set with the vernier 0° to 90°.
- **Application** To fit lateral sprues to casting tools.
- **Clamping power** 4000N.
- **Application** On EDM center.



Model No.

ZRS-423165 | 3R. Angled collet chuck ER 16

- **Version** Collet chuck ER16, To be set with the vernier 0° to 90°.
- **Application** Round material Ø1 ~ Ø10mm. On EDM center.



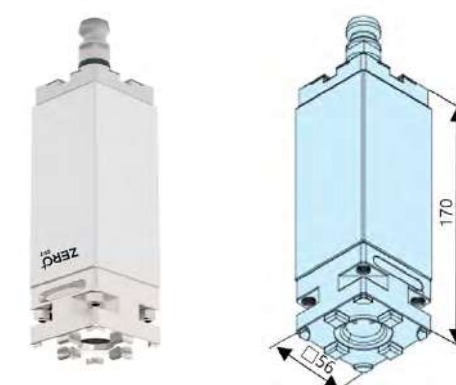
ZERO Set, System 3R Compatible system

Special electrode holders

Model No.

ZRS-423153 | 3R. Quick chuck 50, vertical extended 170

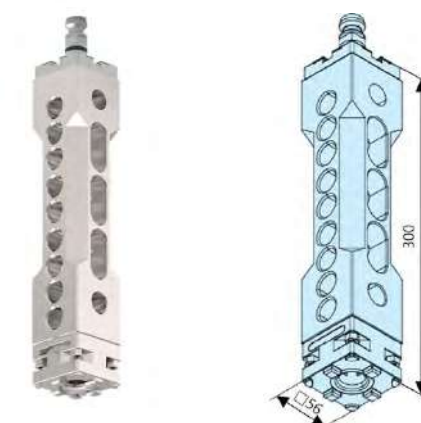
- **Version** 3R Quick chuck 50.
- **Application** Macro base for manual loading of macro elements carrying workpieces that require extension.
- **Clamping power** 4000N.
- **Application** On EDM center.
- **Compatible of** 3R-652.2, 90476.01



Model No.

ZRS-423154 | 3R. Quick chuck 50, vertical extended 300

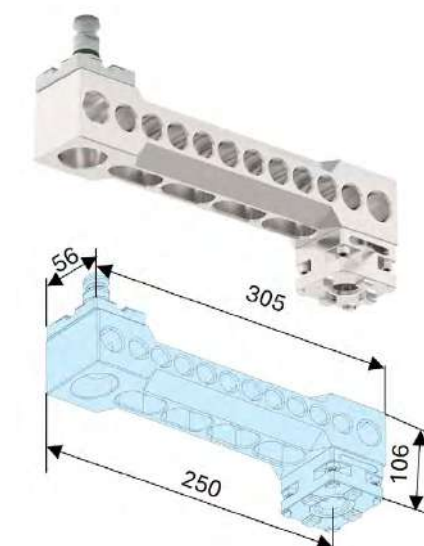
- **Version** 3R Quick chuck 50.
- **Application** Macro base for manual loading of macro elements carrying workpieces that require extension.
- **Clamping power** 4000N.
- **Application** On EDM center.
- **Compatible of** 90476.02



Model No.

ZRS-423155 | 3R. Quick chuck 50, Horizontal extended 300

- **Version** 3R Quick chuck 50.
- **Application** For accommodation of workpieces and electrodes that have to be machined in a vertical and in a horizontal position.
- **Clamping power** 4000N.
- **Application** On EDM center.



ZERO Set, System 3R Compatible system Special electrode holders

Model No.

ZRS-423186 | 3R. Tilting holder 100

- **Version** Electrode holder with pendulum movement($\pm 4^\circ$).
- **Application** Clamping from outside, electrode.



Model No.

ZRS-423187 | 3R. Tilting holder 50

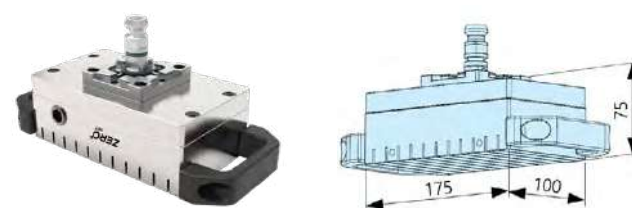
- **Version** Electrode holder with pendulum movement($\pm 4^\circ$).
- **Application** Clamping from outside, electrode.



Model No.

ZRS-423193 | 3R. Permanent chuck 1810

- **Version** Permanent magnetic chuck with 3R macro 70 system.
- **Application** To Clamps electrode with steel plate.

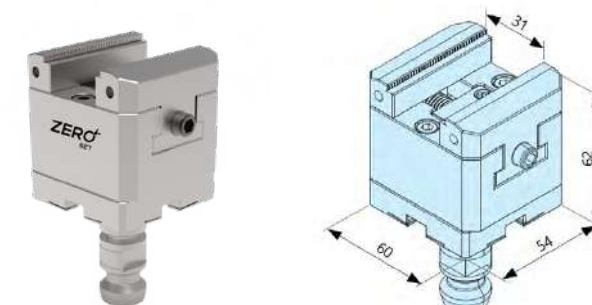


ZERO Set, System 3R Compatible system Special electrode holders

Model No.

ZRS-423201 | 3R. Centering vise 30

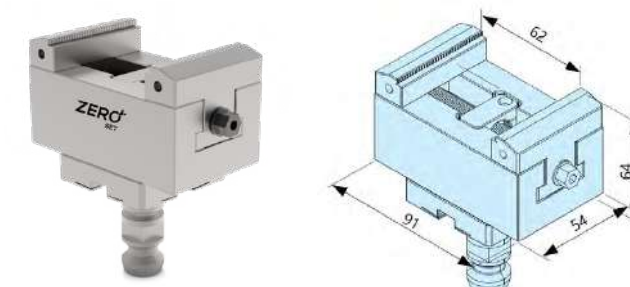
- **Version** Centering vise, steel
- **Application** To clamp electrodes or workpieces with a width of up to 30mm. For EDM, grinding, light milling.
- **Centering accuracy** ± 0.02



Model No.

ZRS-423203 | 3R. Centering vise 60

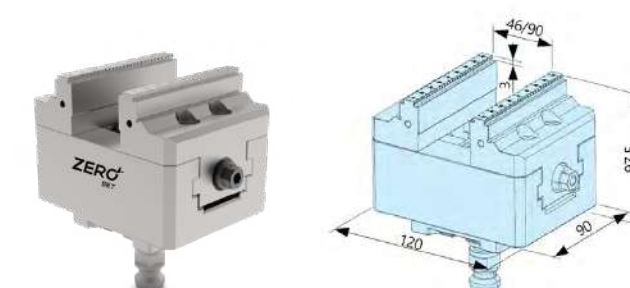
- **Version** Centering vise, steel.
- **Application** To clamp electrodes or workpieces with a width of up to 60mm. For EDM, grinding, light milling.
- **Centering accuracy** ± 0.02



Model No.

ZRS-423205 | 3R. Centering vise 90

- **Version** Centering vise, steel.
- **Application** To clamp electrodes or workpieces with a width of up to 90mm. For EDM, grinding, light milling.
- **Centering accuracy** ± 0.02



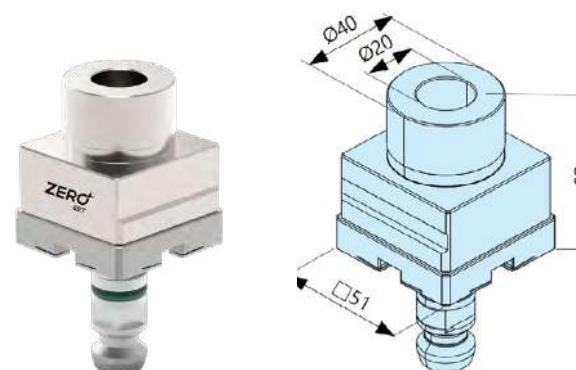
ZERO Set, System 3R Compatible system

Measuring and checking elements

Model No.

ZRS-424101 | 3R. Gaging pin 50

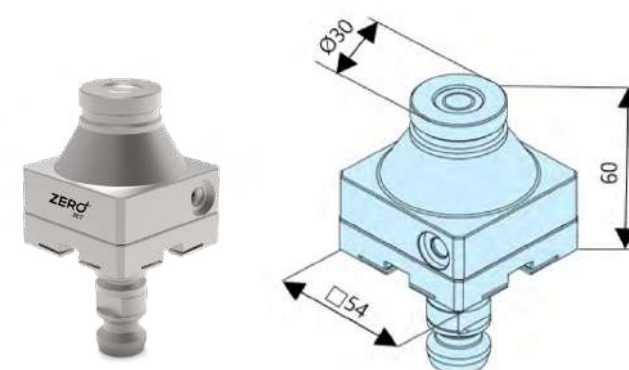
• Version	Hardened, ground.
• Application	Alignment of 3R macro chuck in radial, axial and angular position.
• Compatible of	3R-656



Model No.

ZRS-424102 | 3R. Gaging pin 30

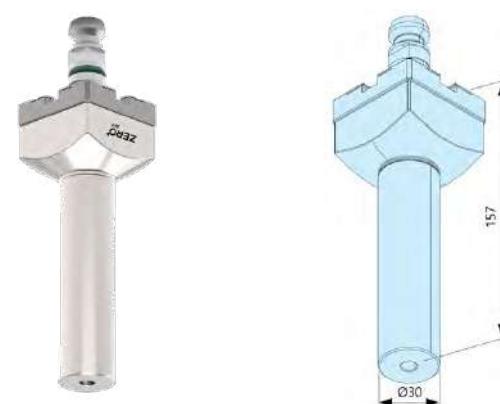
• Version	Hardened, ground.
• Application	Alignment of 3R macro chuck in radial, axial and angular position.
• Compatible of	3R-656.1



Model No.

ZRS-424105 | 3R. Checking pin 50

• Version	Hardened, ground.
• Application	Alignment of 3R macro chuck in radial, axial and angular position.
• Compatible of	3R-606



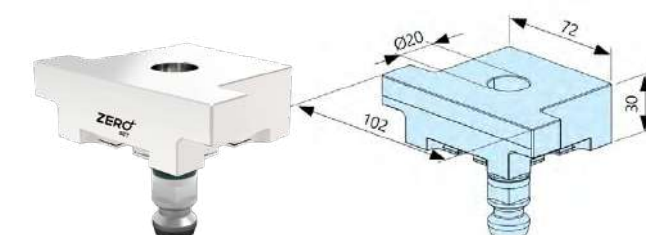
ZERO Set, System 3R Compatible system

Measuring and checking elements

Model No.

ZRS-424107 | 3R. Control ruler

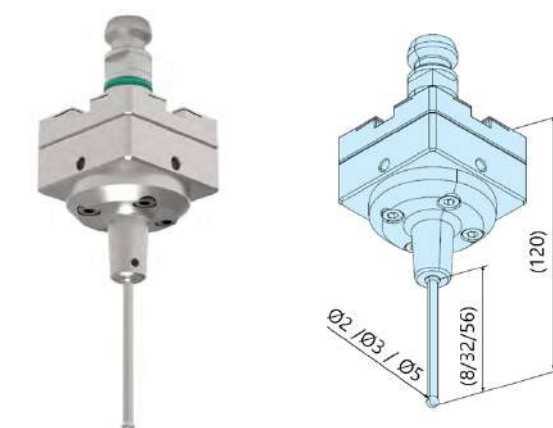
• Version	Hardened, ground. Alignment length 100mm, center borehole Ø20mm.
• Application	Alignment of radial, axial and angular position of 3R macro chucks, magnum chuck.
• Compatible of	3R-606.1



Model No.

ZRS-424132 ZRS-424133 ZRS-424135

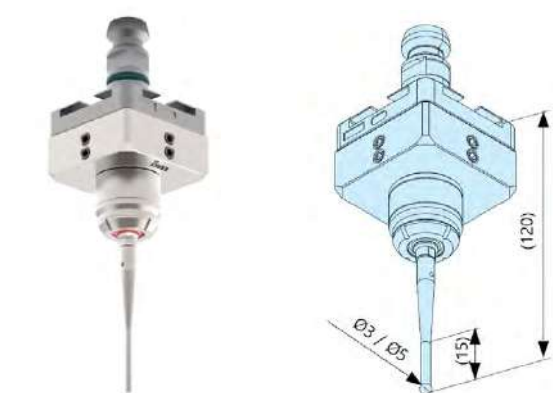
ZRS-424132	3R. Sensor with ball Ø2mm, fixed type.
ZRS-424133	3R. Sensor with ball Ø3mm, fixed type.
ZRS-424135	3R. Sensor with ball Ø5mm, fixed type.
• Version	Holder with sensing pin and tungsten carbide ball.
• Application	Automatic measurement of workpieces in CNC EDM-sinking center. Replacement of pins: ZRS 521523 (Ø3mm), ZRS-521525 (Ø5mm).
• Compatible of	3R-656.21-SP03



Model No.

ZRS-424123 ZRS-424125

ZRS-424123	3R. Sensor with ball Ø3mm, spring type.
ZRS-424125	3R. Sensor with ball Ø5mm, spring type.
• Version	Holder with spring-loaded sensing pin and tungsten carbide ball.
• Application	Automatic measurement of workpieces in CNC EDM-sinking center.
• Compatible of	3R-656.31-3P and 3R-656.31-5P



ZERO Set, System 3R Compatible system

Measuring and checking elements

Model No.

ZRS-424109

| 3R. Micro-image 50

• Version

Camera and monitor with 3R macro. Amplification factor L 50x.

• Application

Determination of dimensions of complicated contours.

• Screen

7 inches / 1080P.

• Visual accuracy

±0.003mm.

• Focus

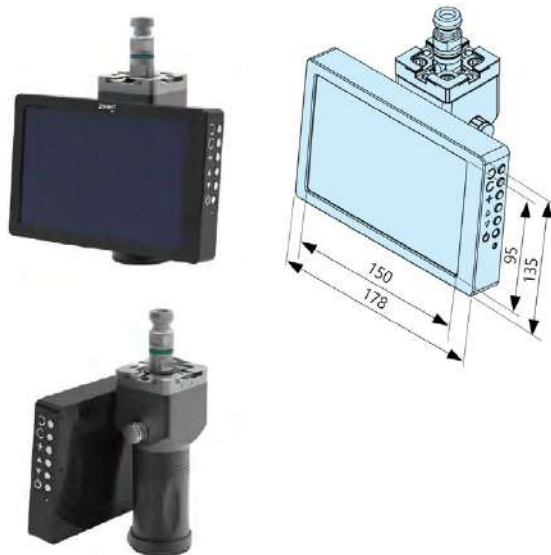
50~60mm.

• Power voltage

400MA (DC 12V).

• Compatible of

3R-4.650



ZERO Set EROWA and 3R. Macro system

Interchangeable holders for ER and 3R

Model No.

ZRS-511203

| Adapter ER. to 3R. quick chuck 100

• Version

ER. centering plate 100. 3R Quick chuck 100.

• Application

To clamp the System 3R holders to the EROWA chucks.

Model No.

ZRS-511204

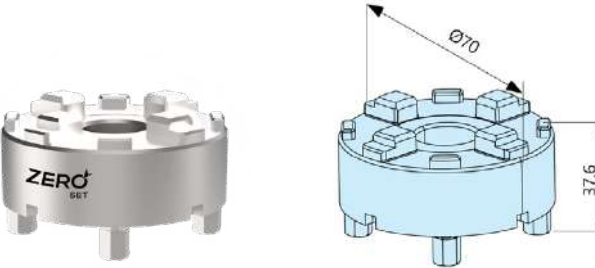
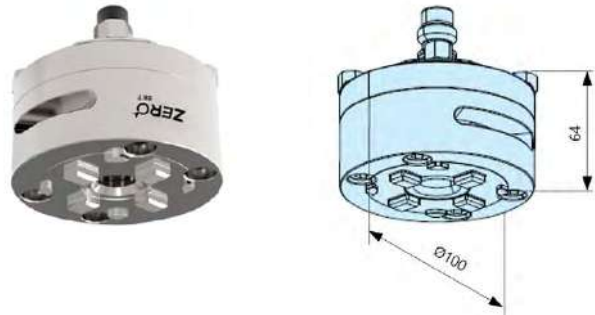
| Adapter ER. to 3R. manual chuck 50

• Version

ER. centering plate 50. 3R Manual chuck.

• Application

To clamp the System 3R holders to the EROWA chucks.



Model No.

ZRS-511207

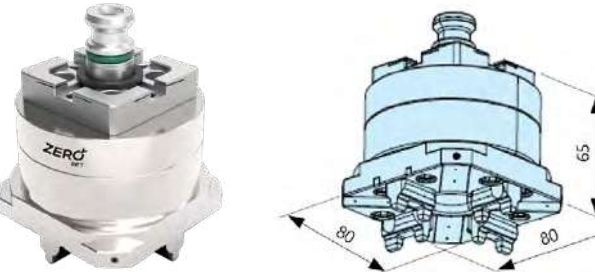
| Adapter 3R. to ER. pneumatic chuck 80

• Version

3R pallet 70. ER. Pneumatic ITS chuck.

• Application

To clamp the EROWA holders to the System 3R chucks.



Model No.

ZRS-511208

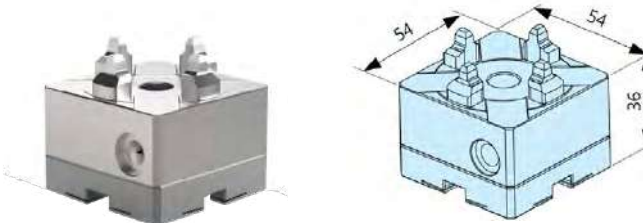
| Adapter 3R to ER manual chuck 50

• Version

3R pallet 54. ER. manual chuck 50.

• Application

To clamp the EROWA holders to the System 3R chucks.



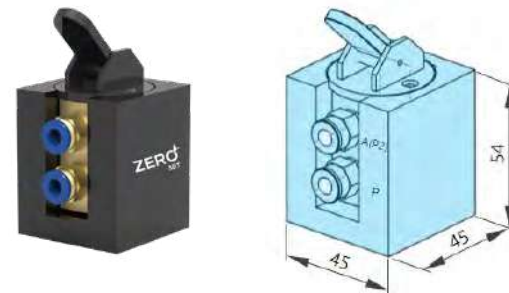
ZERO Set Accessory

Auxiliary parts

Model No.

ZRS-521301 | Pneumatic switch, single

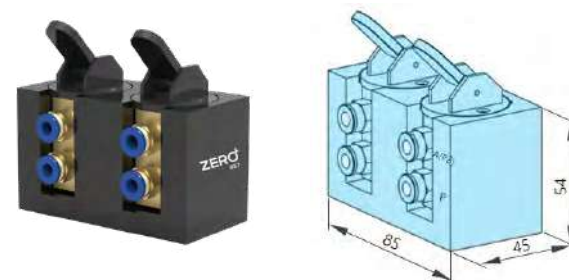
- **Version** Unit for operation of pneumatic chucks.
- **Application** Two functions opened closed.
- **Compatible of** 3R-611.4



Model No.

ZRS-521302 | Pneumatic switch, double

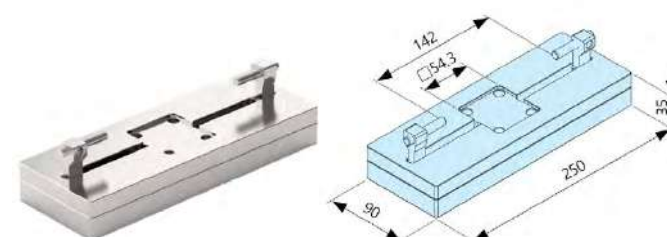
- **Version** Unit for operation of pneumatic chucks.
- **Application** Two functions opened closed.
- **Compatible of** 3R-611.4



Model No.

ZRS-521901 | Centering unit for electrode

- **Version** EROWA ITS electrode holder. System 3R Macro electrode holder.
- **Application** Manual centering electrode 50.



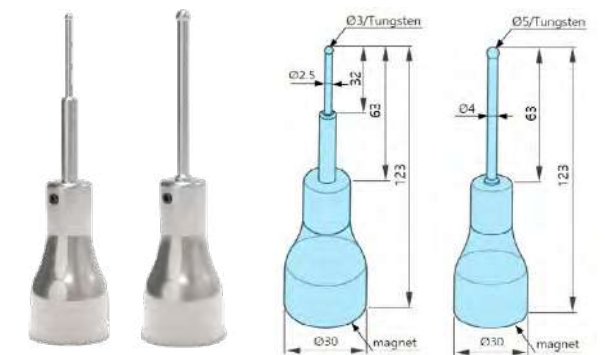
ZERO Set Accessory

Measuring and checking elements

Model No.

ZRS-521512 ZRS-521513 ZRS-521515

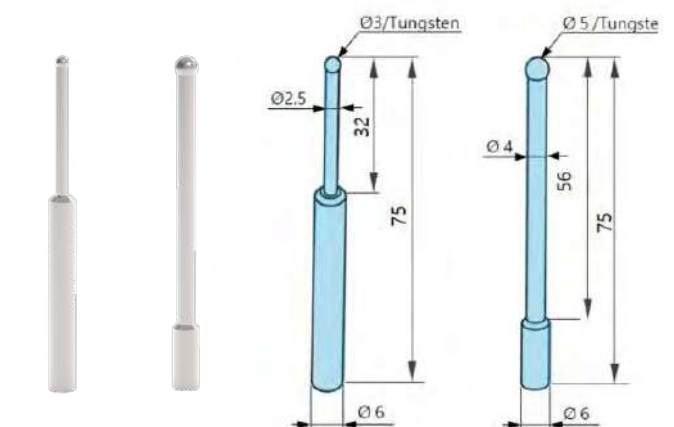
- **Version** Reference with ball on EDM table
- **Application** To confirm offset value of electrodes.



Model No.

ZRS-521522 ZRS-521523 ZRS-521525

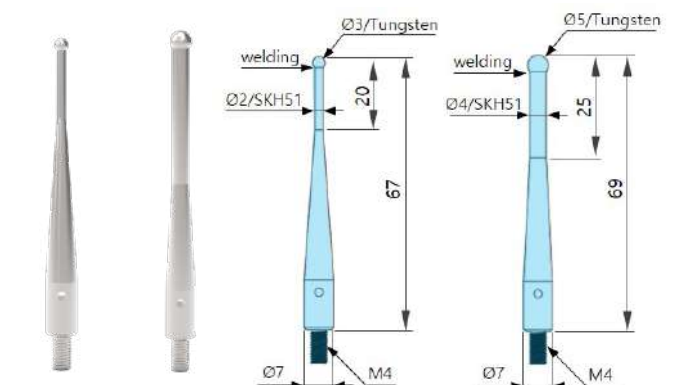
- **Version** Replacement pin, One body with tungsten ball and stem.



Model No.

ZRS-521533 ZRS-521535

- **Version** Replacement pin, Tungsten ball.



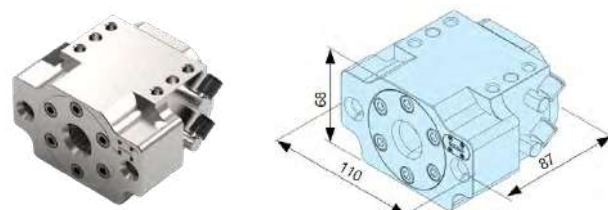
ZERO Set, EROWA compatible system

Automation components

Model No.

ZRS-523101 | ER. Gripper RCS 5

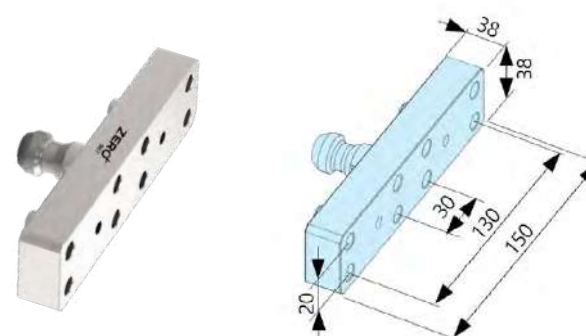
• Version	ER Gripper.
• Application	for UPC, MTS, ZERO POINT pallets.
• Pressurized load	100kg.
• Open/Close signal	with sensor.
• Weight	3.5kg.



Model No.

ZRS-523103 | ER. Gripper link RCS

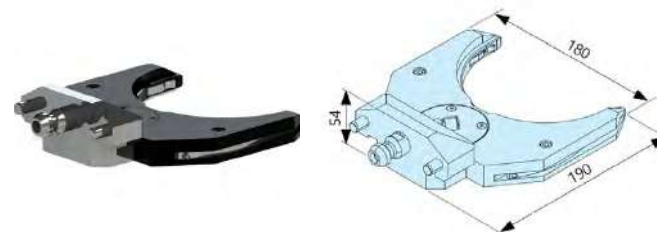
• Version	ER gripper link, steel.
• Application	To attach to UPC, MTS, ZERO POINT pallets.
• Load	100kg.
• Weight	0.8kg.



Model No.

ZRS-523105 | ER. ITS 148 Gripper, 4 pins

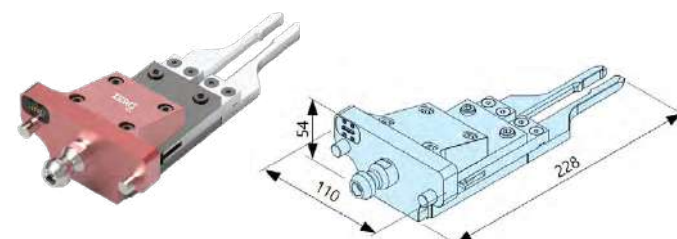
• Version	ER ITS Gripper, Steel and aluminum combination.
• Application	To clamp the ER pallet 148.
• Pressurized load	30kg.
• Open/Close signal	with sensor.
• Weight	2.2kg.



Model No.

ZRS-523107 | ER. ITS 50 Gripper, 4 pins

• Version	ER ITS Gripper, Steel and aluminum combination.
• Application	To clamp the ER ITS 50.
• Pressurized load	15kg.
• Open/Close signal	with sensor.
• Weight	2.2kg.



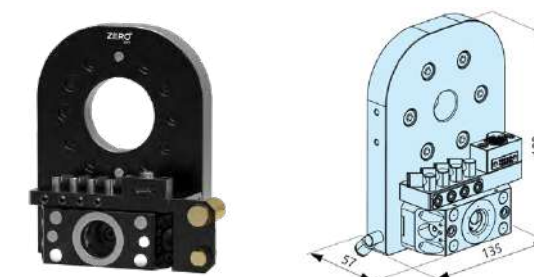
ZERO Set, System 3R compatible system

Automation components

Model No.

ZRS-524101 | 3R. NSR 160 Gripper

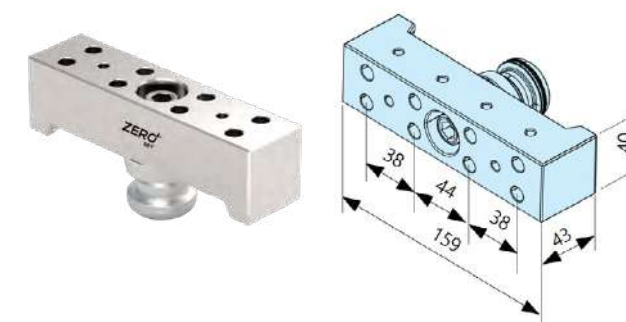
• Version	3R Gripper.
• Application	For GPS240, Dynafix, ZERO POINT pallets.
• Pressurized load	200kg.
• Open/Close signal	with sensor.
• Weight	5kg.



Model No.

ZRS-524103 | 3R. Gripper link

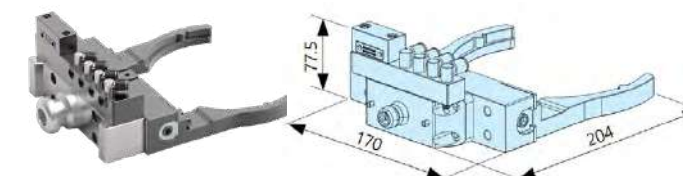
• Version	3R gripper link, steel.
• Application	For GPS240, Dynafix, ZERO POINT pallets.
• Load	250kg.
• Weight	1.7kg.



Model No.

ZRS-524105 | 3R. 160 Gripper, 10 pins

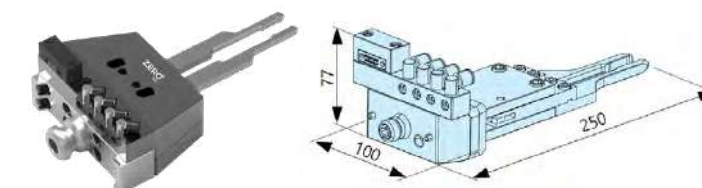
• Version	3R Macro Ø160, Steel and aluminum combination.
• Application	To clamp the 3R pallet 160.
• Pressurized load	30kg.
• Open/Close signal	with sensor.
• Weight	3.3kg.



Model No.

ZRS-524107 | 3R. Macro 50 Gripper, 10 pins

• Version	3R Macro Gripper, Steel and aluminum combination.
• Application	To clamp the 3R Macro.
• Pressurized load	15kg.
• Open/Close signal	with sensor.
• Weight	4.4kg.



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