EROWA®
system solutions

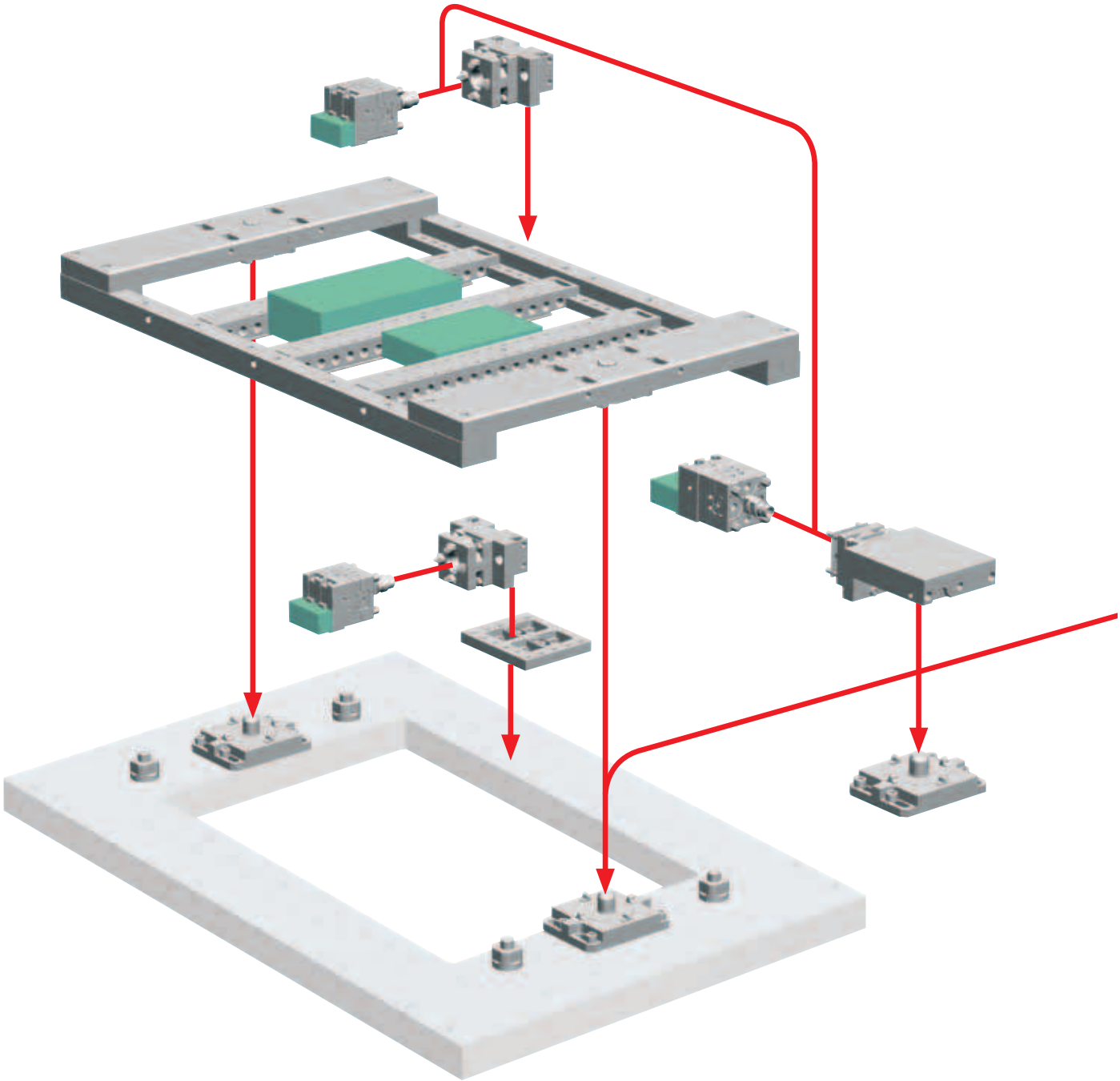
General Catalog

Unlocking the full potential of your machines

EROWA Wire EDM Tooling

The modular tooling system for WEDM purposes

EROWA tooling systems make WEDM centers considerably more flexible and productive. Down-times can be virtually eliminated. Expensive machines can work round the clock.
Our program contains system components for newcomers, for those who would like to extend the use of ITS, and for top-end users. You define the framework and you are bound to win.

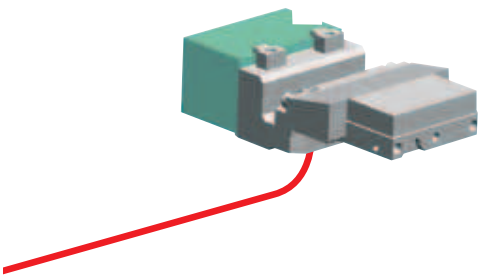


Applications

Handling

Manual / Loading facility / Robot

- Modular tooling system.
- Single and multiple palletization.
- Repeatability of clamping elements 0.002 mm.
- WEDM basic kits for all popular WEDM centers.
- Can be automated with EROWA handling handling facilities.



Technical data - Wire EDM Tooling

	Flat clamping chuck		Chuck RSA 50	QuickChuck 50 RSM
	pneumatisch	manuell		
Repeatability	0.002 mm	0.002 mm	0.002 mm	0.002 mm
Indexing			4 x 90°	4 x 90°
Clamping power	with reclamping 7´000 N	without reclamping 3´000 N	2´800 N	4´000 N
Clamping process	Spring tension	mechanically	Spring tension	Spring tension
Opening, compressed air, dry	min. 6 bar			min. 6 bar
Operation	pneumatically	mechanically	pneumatically	mechanically
Max. weight of pallet	30 kg (with support)	30 kg (with support)		

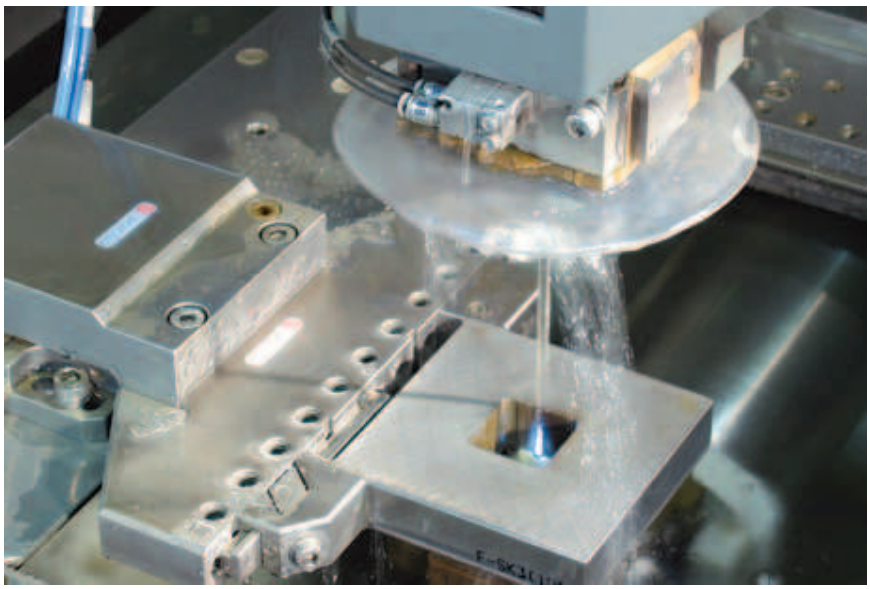
EROWA Wire EDM Tooling

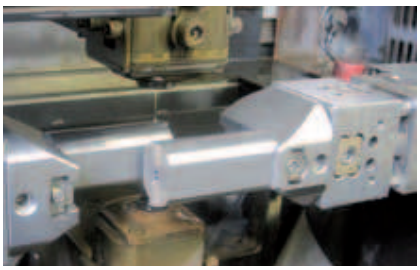
Quick and precise resetting

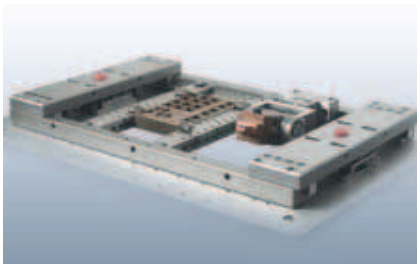
FLEXIBLE

Suitable workpiece carriers for all workpiece sizes.

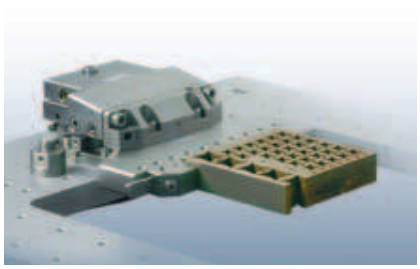
The right solution for every application. With well-thought-out combinations of vises, clamping elements and clamping beams, any conceivable workpiece can be clamped. The repeatability of EROWA´s Wire EDM tooling system allows for workpieces to be preset outside the machine and for safe automatic loading. Ongoing jobs can be interrupted for express jobs and then continued later.



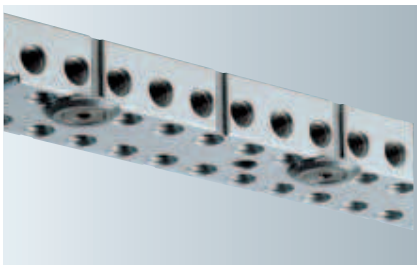




Use removable supports where they make sense. Thread in EDM wire through the special grooves.

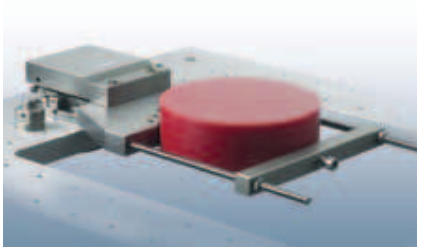


Adjustable in all axes: the pendulum holder with fitted flat vise.

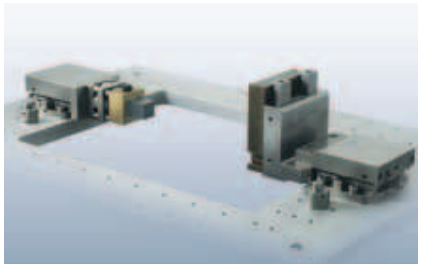


Use removable supports where they make sense. Thread in EDM wire through the special grooves.

EROWA Lift to load the WEDM center.



Special accommodation for cylindrical parts. Fitted to the pendulum holder, workpieces can be adjusted in three axes.

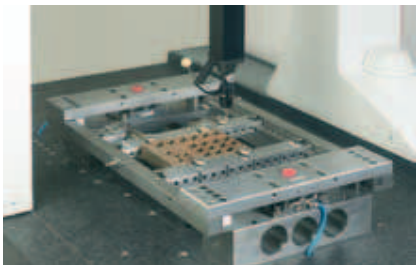


Single palletization in a manned shift: this is where the tricky jobs are done.

EDM electrode holders are positioned on the WEDM center for machining both quickly and with high precision.

Its low design creates more space for workpieces.

Presetting the workpieces saves time.



Presetting made easy. While the WEDM center is in operation, the next job is being preset quickly and accurately on the EROWA PreSet station.

Load Robots for more autonomy at night and at weekends. We›ll be glad to advise you how to increase your productivity with an EROWA handling facility.

EROWA Wire EDM Tooling

Tooling System

The components

Clamping elements
for fixtures

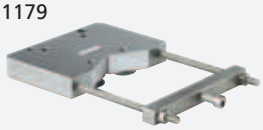
ER-033958 ER-031952 ER-062788 ER-008231 ER-008875 ER-008873 ER-007990 ER-008220

Fixtures
for adapters

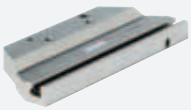
ER-018940

ER-019248

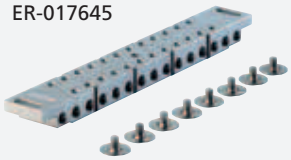
ER-031179



ER-031945

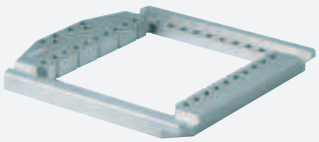


ER-017645

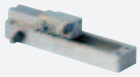


ER-030110

ER-018941



ER-025115

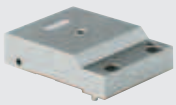


Adapters
for interfaces

ER-035294

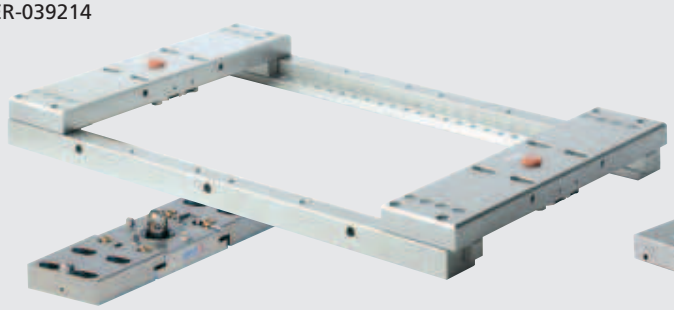
ER-035156

ER-033955

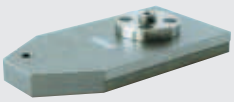


ER-031942

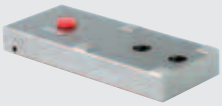
ER-039214



ER-037888



ER-055158



Interfaces
to machine table

ER-040641

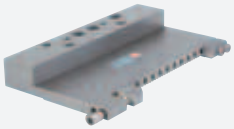
ER-008221

ER-029229

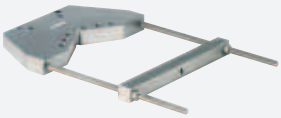
ER-029228

ER-025895

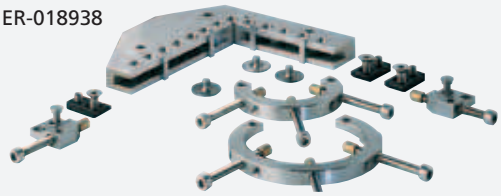
ER-054922



ER-038891



ER-018938



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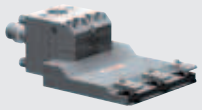
ER-055774

ER-051800

ER-008814

ER-008842

ER-052091



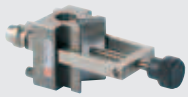
ER-038710

ER-033974

ER-007935

ER-008856

ER-016691



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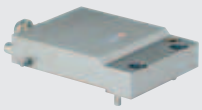

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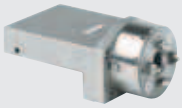
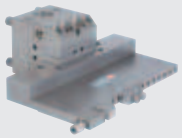


ER-014722

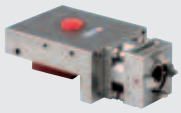
ER-014698

ER-055535



ER-030923

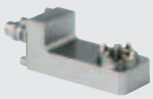
ER-033933



ER-012727

ER-007877

ER-038711

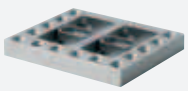


ER-028471

ER-035714

ER-035715

ER-017198



ER-007852

ER-022583

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

1. Manual operation

2. Operate with compressed air jet

3. Operate with manual valve

4. Operate with manual control unit

5. Operate with electro-pneumatic control unit

6. With central flushing clearance

7. Suited for submerged operation

8. Corrosion-resistant material

9. Suited for automatic operation

10. Handling with EROWA Robot gripper S

11. Handling with EROWA Combi gripper

12. Handling with EROWA Robot gripper 72

13. Handling with EROWA Robot gripper 115

14. Handling with EROWA Robot gripper 148

15. Handling with EROWA gripper RN PC 210

16. Handling with EROWA RCS gripper

EROWA WIRE EDM TOOLING

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Wire EDM Tooling	Clamping equipment sets	260

For chip-removing processes

For EDM sinking

For WEDM

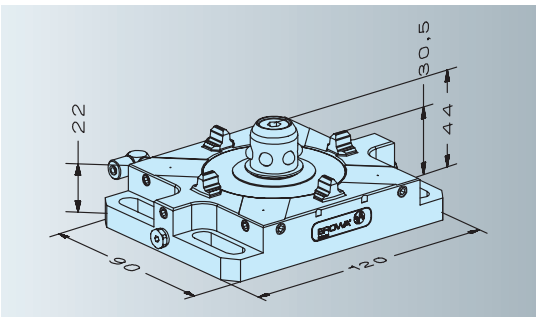
EROWA Wire EDM Tooling

Interfaces to machine table

Technical data	Flat chuck	
	pneumatic	manual
Repeatability	0.002 mm	0.002 mm
Clamping power	with reclamping	without reclamping
	7,000 N	3,000 N
Generated by	spring power	mechanic
Opening with compressed air, dry	min. 6 bar	
Operation	pneumatic	manual
Max. pallet weight	30 kg (with support)	30 kg (with support)

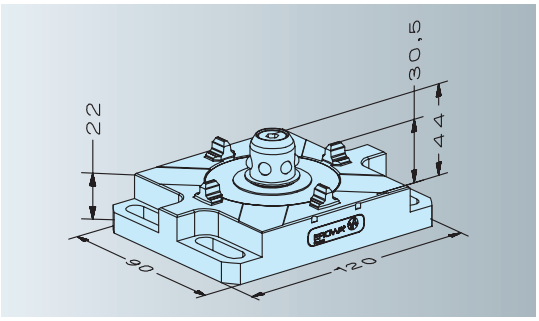
ER-035714 Flat chuck pneumatic PalletSet W / FrameSet

Version	Pneumatic chuck for a direct fit to the Z = 0 base of the WEDM center.
Application	On WEDM centers with manual or automatic workpiece loading.
Connections	On the side for opening, cleaning, reclamping.



ER-035715 Flat chuck manual PalletSet W / FrameSet

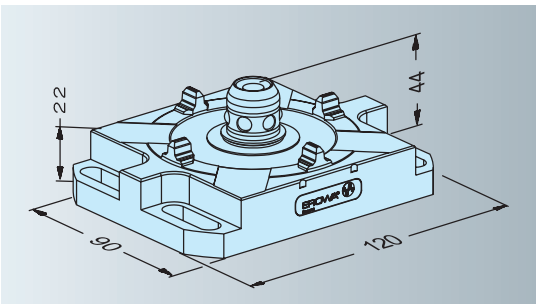
Version	Mechanical chuck for a direct fit to the Z = 0 base of the WEDM center.
Application	On WEDM centers with manual workpiece loading.
Operation	With a manually operated ball lock.



Technical data	Basic WEDM chuck manual
Repeatability	0.002 mm
Clamping power	without reclamping 8´000 N
Generated by	mechanic
Operation	manual
Max. pallet weight	15 kg (without support)

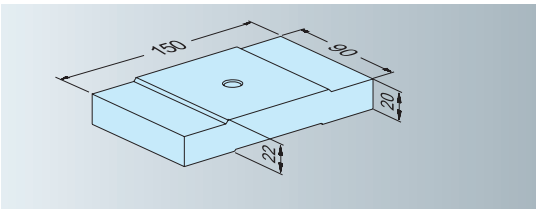
ER-040641 Basic WEDM chuck Basic Tooling

Version	Mechanical chuck for a direct fit to the Z = 0 base of the WEDM center.
Application	On WEDM centers with manual workpiece loading.
Operation	With a manually operated ball lock.



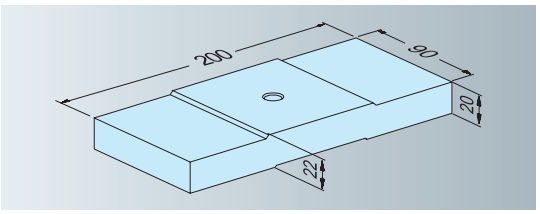
ER-062822 Plate FrameSet Fix 200 mm

Version	Plate to attach the FrameSet clamping frame.
Application	On WEDM centers with FrameSet clamping frames, to be mounted directly on the Z=0 base.
Mounting	to the base according to operating instructions.



ER-062821 Plate FrameSet Fix 150 mm

Version	Plate to attach the FrameSet clamping frame.
Application	On WEDM centers with FrameSet clamping frames, to be mounted directly on the Z=0 base.
Mounting	to the base according to operating instructions.



EROWA Wire EDM Tooling

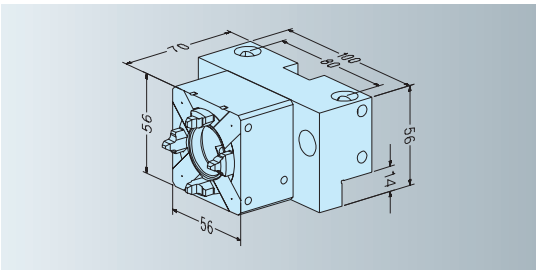
Interfaces to machine table

Technical data	Chuck RSA 50	QuickChuck 50 RSM
Repeatability	0.002 mm	0.002 mm
Indexing	4 x 90°	4 x 90°
Clamping power	2,800 N	4,000 N
Clamping	Spring power	mechanical
Opening with compressed air, dry	min. 6 bar	
Operation	pneumatic	mechanical

ER-007851 Chuck 50 RSA / on universal plate UnoSet

INOX auto

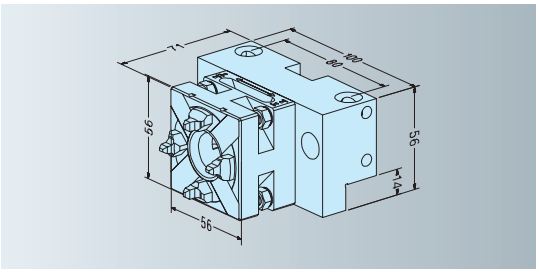
Version	Automatic, with pneumatic valve.
Application	ITS base for the manual or automatic loading of ITS elements.
Use	On all machine bases and FrameSet beams. Can be used either horizontally or vertically.



ER-007852 QuickChuck 50 RSM / on univeral plate UnoSet

INOX

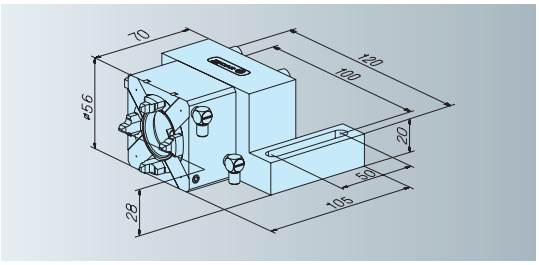
Version	Manual.
Application	ITS base for the manual loading of ITS elements.
Use	On all machine bases and FrameSet beams. Can be used either horizontally or vertically.



ER-022583 Clamping chuck 50 RSA / UnoSet on adapter plate R=100 mm

INOX auto

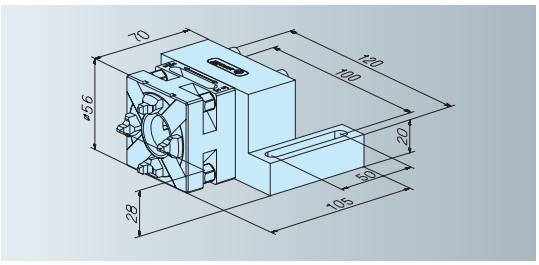
Version	Chuck 50 on adapter plate, manual.
Application	To be fitted directly to any machine bases with attachment boreholes in a 100 mm grid.



ER-022584 QuickChuck 50 RSM UnoSet on adapter plate R=100 mm

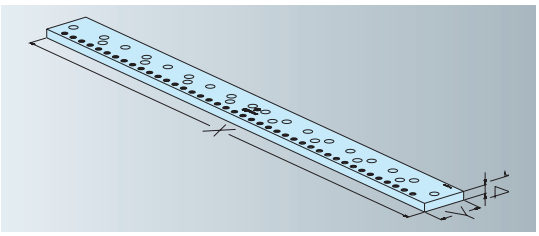
INOX

Version	Chuck 50 on adapter plate, manual.
Application	To be fitted directly to any machine bases with attachment boreholes in a 100 mm grid.



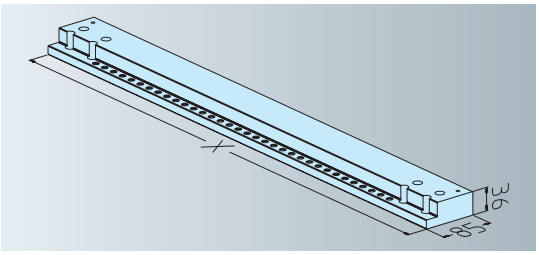
ER-035690 ManoSet rail P 890 mm XXL

Version	Supplied: 1 unit. Rail for large WEDM centers. X = 890 mm, Y = 75 mm.
Mounting	directly on the Z=0 base.
Application	To clamp large workpieces with XXL clamping beams 540, ER-037307 or clamping beams 620, ER-034989 (see page 241).
Note	ManoSet rail XXL suitable for Sodick AQ 750 L and Makino SP 64 (see page 258/259).



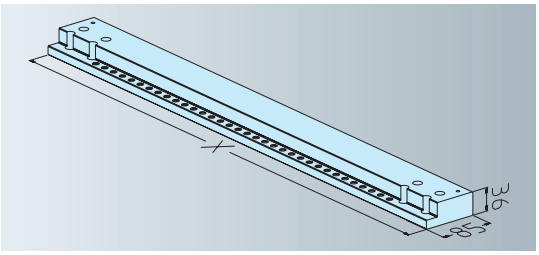
ER-038985 ManoSet rail L Length 850 mm XXL

Version	Supplied: 1 unit. Rail for large WEDM centers. X = 850 mm.
Mounting	directly on the Z=0 base.
Application	To clamp large workpieces with XXL clamping beams 540, ER-037307 or clamping beams 620, ER-034989 (see page 241).
Note	ManoSet rail XXL suitable for Makino EU 64 and SP 64 (see page 258/259).



ER-012847 ManoSet rail L length 947 mm XXL 1 piece

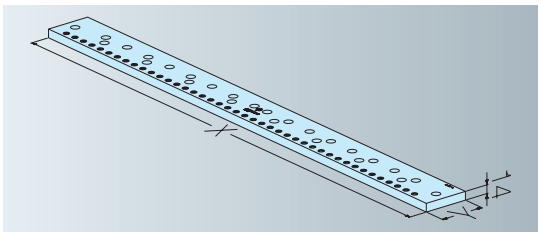
Version	Supplied: 1 unit. Rail for large WEDM centers. X = 947 mm.
Mounting	Directly on the Z=0 base.
Application	To clamp large workpieces with XXL clamping beams 540, ER-037307 or clamping beams 620, ER-034989 (see page 241).
Note	ManoSet rail XXL suitable for Charmilles CTFI60++ and Sodick AQ 750 L (see page 258/259).



EROWA Wire EDM Tooling

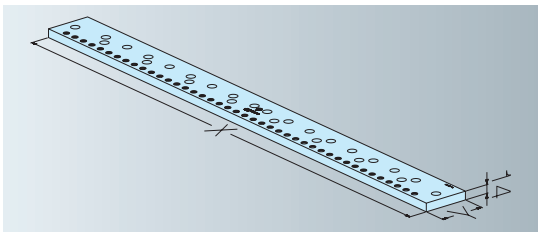
Interfaces to machine table

ER-042904 ManoSet rail P length 890 mm XXL
1 piece



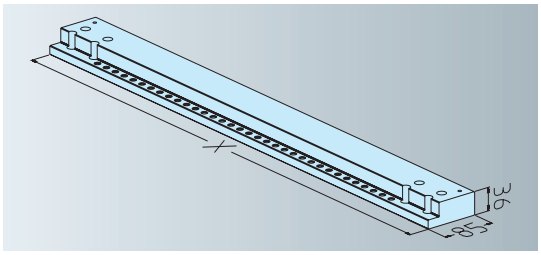
Version	Supplied: 1 unit. Rail for large WEDM centers. X = 890 mm, Y = 75 mm.
Mounting	directly on the Z=0 base.
Application	To clamp large workpieces with XXL clamping beams 540, ER-037307 or clamping beams 620, ER-034989 (see page 241).
Note	ManoSet rail XXL suitable for Charmilles CT FI 640cc, CT FI 690 and ONA AE 600 (see page 258/259).

ER-043487 ManoSet Beam P length 860 mm XXL
1 piece



Version	Supplied: 1 unit. Rail for large WEDM centers. X = 860 mm, Y = 50 mm.
Mounting	directly on the Z=0 base.
Application	To clamp large workpieces with XXL clamping beams 540, ER-037307 or clamping beams 620, ER-034989 (see page 241).
Note	ManoSet rail XXL suitable for Mitsubishi FX 30 / FA30, CT FI6050, Makino SP64 (see page 258/259).

ER-041430 ManoSet rail L Length 1010 mm XXL

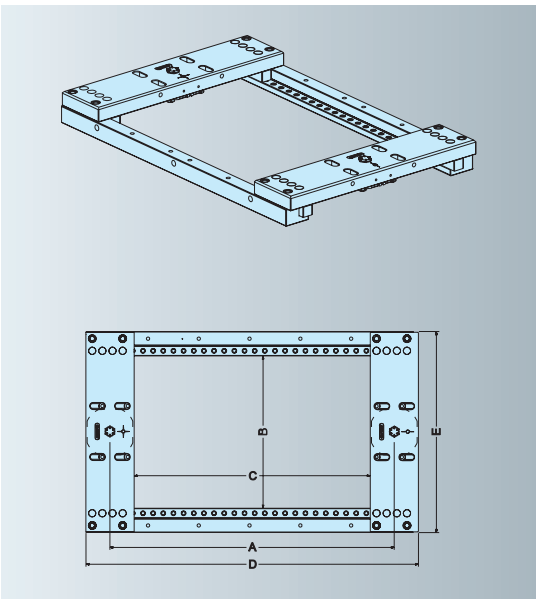


Version	Supplied: 1 unit. Rail for large WEDM centers. X = 1010 mm.
Mounting	directly on the Z=0 base.
Application	To clamp large workpieces with XXL clamping beams 540, ER-037307 or clamping beams 620, ER-034989 (see page 241).
Note	ManoSet rail XXL suitable for Makino U86 (see page 258/259).

EROWA Wire EDM Tooling

Adapters for interfaces

ER-045555	**Clamping frame FrameSet 430/220-335**
ER-039212	**Clamping frame FrameSet 430/300-335**
ER-039211	**Clamping frame FrameSet 490/220-395**
ER-039213	**Clamping frame FrameSet 500/300-405**
ER-039214	**Clamping frame FrameSet 560/300-465**
ER-039215	**Clamping frame FrameSet 650/300-555**
ER-039216	**Clamping frame FrameSet 650/380-555**
ER-039217	**Clamping frame FrameSet 710/380-615**



INOX auto

Version Clamping frame for the multiple palletization of workpieces.

Application To fit on EROWA flat chucks and FrameSet Fix plates (see page 230/231).

Options See Clamping beams and clamping elements for the EROWA Wire Tooling System, starting from page 241.

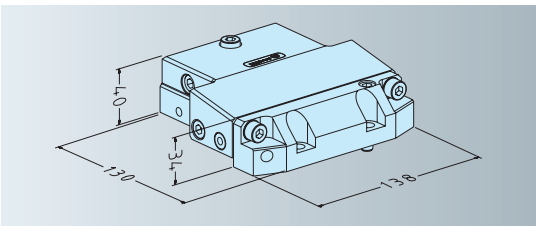
	A	B	C	D	E
ER-045555	430	220	335	525	396
ER-039212	430	300	335	525	396
ER-039211	490	220	395	585	316
ER-039213	500	300	405	595	396
ER-039214	560	300	465	655	396
ER-039215	650	300	555	745	396
ER-039216	650	380	555	745	476
ER-039217	710	380	615	805	476

EROWA Wire EDM Tooling

Adapters for interfaces

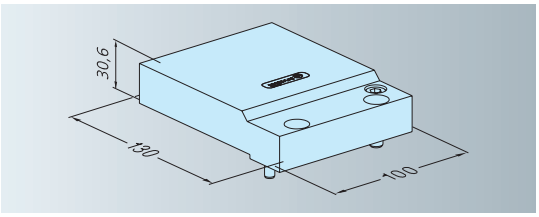
ER-030923 Pendulum holder 3D PalletSet W

Version	Pendulum head for automatic and manual loading. G-Centerning plates for increased durability.
Application	Basis for all the other clamping elements such as UniVise square, frame pallet, vise and beam pallet.
Note	Adjustable in the X-, Y- and Z-axes. Slim Line Version 15 mm reduced in height for best access of lower wire guide



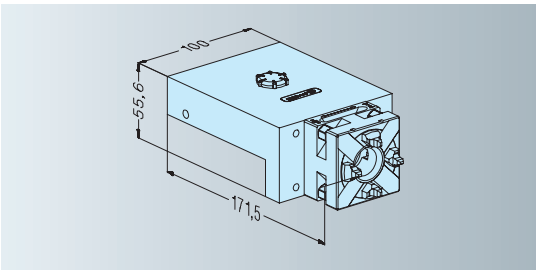
ER-030678 Fix holder PalletSet W

Version	Standard element for automatic and manual loading.
Application	Base for all other clamping elements such as UniVise square, frame plate, vise and beam pallet.
Note	Adjustable in the C-axis.



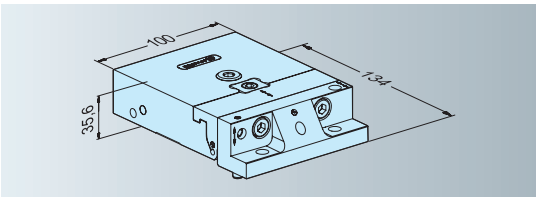
ER-030645 UnoSet adapter PalletSet W centering plate G

Version	System adapter of PalletSet W to UnoSet.
Application	Clamps workpieces of system size ITS 50 horizontally into the workspace.
Note	Fits all UnoSet and ITS 50 clamping elements.

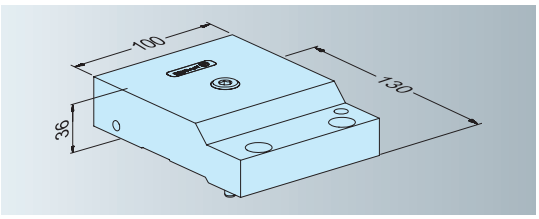


ER-031942 Basic WEDM pendulum holder Basic Tooling

Version	Pendulum head for manual loading.
Application	For use on the Basic WEDM chuck. As a basis for all other clamping elements like UniVise, square, vise and beam pallet.
Note	Adjustable in the X-, Y- and Z-axes.

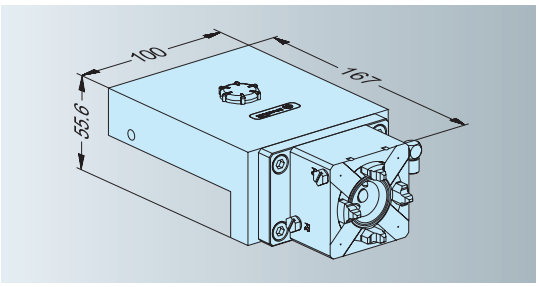


ER-033955 Basic WEDM fix holder Basic Tooling



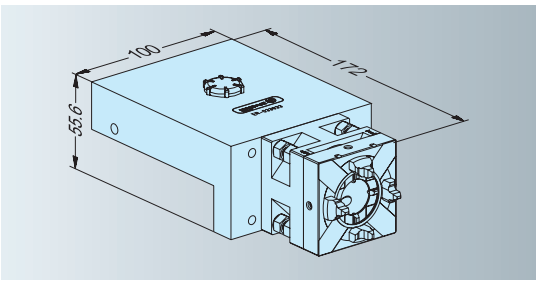
Version	Standard element for manual loading.
Application	For use on the Basic WEDM chuck. As a basis for all other clamping elements like UniVise, square, vise and beam pallet.
Note	Adjustable in the C-axe.

ER-030643 UnoSet adapter with RSA 50 PalletSet W



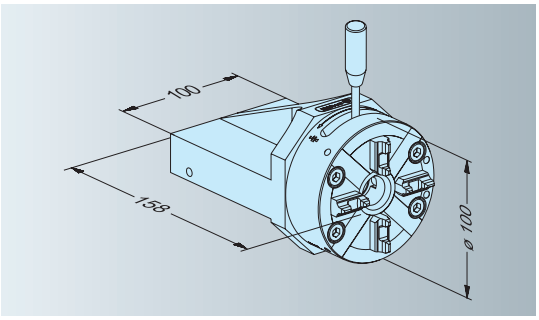
Version	System adapter from Palletset W to UnoSet.
Application	Clamps workpieces of the ITS 50 system size horizontally into the workspace.
Clamping power	2800 N
Note	Suitable for all UnoSet and ITS 50 clamping elements.

ER-033933 PSW adapter QuickChuck 50 Combi PalletSet W / centering plate G



Version	System adapter from Palletset W to UnoSet and/or Compact.
Application	Clamps workpieces of the ITS 50 and Compact system sizes horizontally into the workspace.
Note	Suitable for all UnoSet and ITS 50 clamping elements and Compact clamping elements.

ER-033974 PSW adapter QuickChuck 100 PalletSet W



Version	System adapter from Palletset W to UnoSet, ITS 50, holder ø 72, and pallets 148, 115.
Application	Clamps workpieces of the ITS 50 and ITS 100 system sizes horizontally into the workspace.
Note	Suitable for all UnoSet clamping elements.

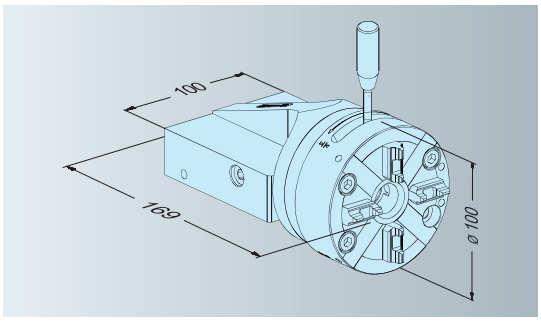
EROWA Wire EDM Tooling

Adapters for interfaces

ER-035994 PSW QuickChuck 100, 360° rotatable

INOX auto

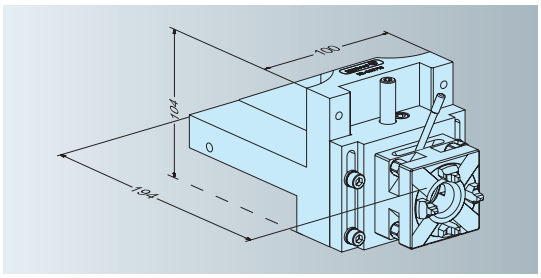
Version	System adapter from Palletset W to UnoSet, ITS 50, holder ø 72, and pallets 148, 115.
Application	Clamps workpieces of system size ITS 50 and ITS 100 horizontally into the working range. Can be rotated around 360°.
Note	Fits all UnoSet clampingelements and ITS 115/148 pallets.



ER-038710 Adapter Z-Vario PalletSet W / UnoSet RSM

INOX auto

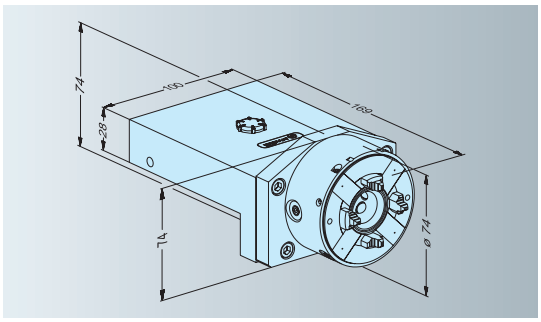
Version	System adapter from Palletset W to UnoSet. Z-axis height adjustable.
Application	To clamp UnoSet and electrodes/workpieces in the ITS 50 system size horizontally into the workspace.
Note	Suitable for use with the whole ITS 50 system and electrode holders.



ER-039795 Holder ø 72 PalletSet W

INOX auto

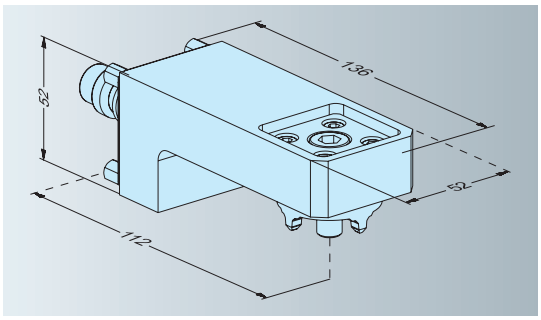
Version	System adapter from Palletset W to ITS 50 holder ø 72
Application	Clamps workpieces of holder ø 72 size horizontally into the workspace.
Operation	Pneumatically with air jet.
Note	Suitable for all holders ø 72 and ITS 50.



ER-038711 Extension arm Z-Vario PalletSet W / UnoSet

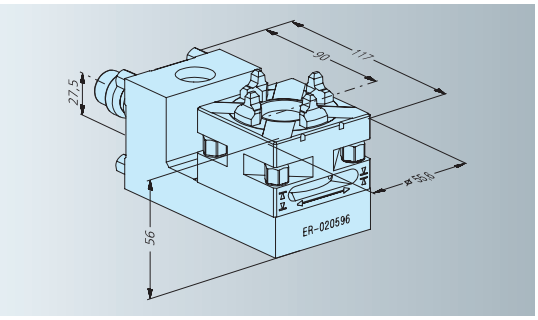
INOX

Version	Extension arm with centering system connection to ITS 50. Accommodates workpieces and electrodes.
Application	Accommodation of workpieces and electrodes for machining in a horizontal or vertical position.
Load	Max. 6 kg
Note	Can be used in combination with adapter Z-Vario PSW/UnoSet. Indexation around 4x90°.



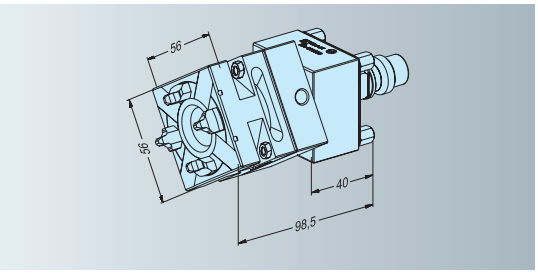
ER-020596 Extension arm UnoSet

Clamping range	80mm
Max. load	6 kg
Version	The extension arm UnoSet with QuickChuck 50 is suitable for the accommodation of workpieces and electrodes that have to be machined in a vertical and in a horizontal position.
Note	Indexable around 4x90°.



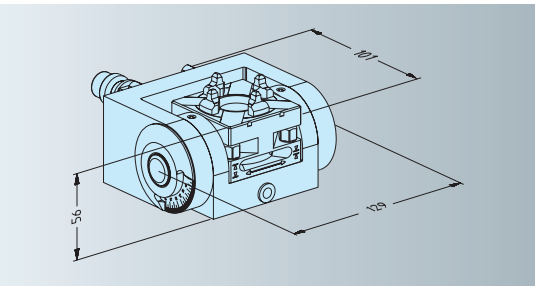
ER-007877 TurnFix 50 UnoSet

Version	Chuck 50, manual, with ITS base plate, continuously able to rotate round 360°.
Application	ITS base for the manual loading of ITS elements carrying workpieces that require angular positions.
Use	On any ITS chuck of system size 50.



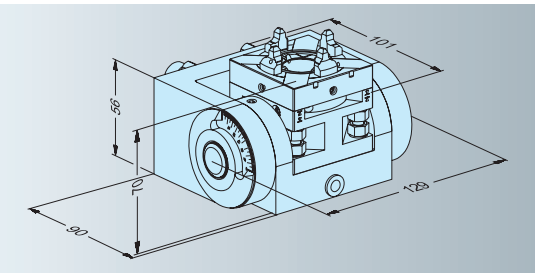
ER-028471 Angle clamping unit UnoSet for QuickChuck 50

Version	Chuck 50, angle to be set with the vernier.
Application	WEDM or EDM. To fit lateral sprues to casting tools.
Max. load	6 kg.
Max. work-piece size	100 x 100 x 100 mm.
Connections	Flushing connection in place.



ER-027640 Square clamping unit UnoSet for CompactChuck 50 Combi

Version	CompactChuck 50 Combi. Angle to be set with the vernier. Angled clamping unit made of corrosion-resistant steel.
Application	WEDM or EDM.
Connections	Flushing connection in place.

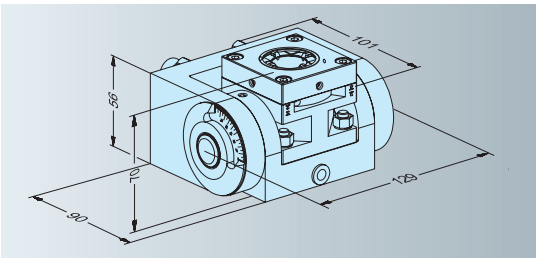


EROWA Wire EDM Tooling

Adapters for interfaces

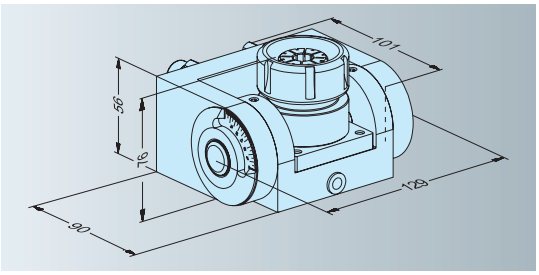
ER-027641 **Square clamping unit UnoSet for CompactChuck M**

Version	CompactChuck manual. Angle to be set with the vernier. Angled clamping unit made of corrosion-resistant steel.
Application	WEDM or EDM.
Connections	Flushing connection in place.



ER-028480 **Angle clamping unit UnoSet for collet chuck electrode holder**

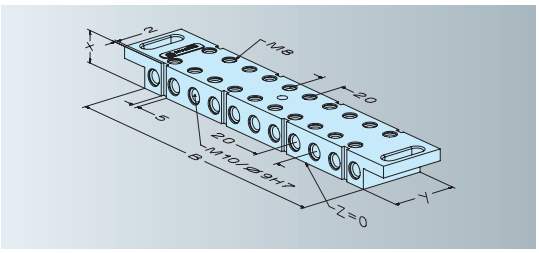
Version	Angled clamping unit made of corrosion-resistant steel, except collet chuck unit. Angle to be set with the vernier.
Application	WEDM or EDM.
Connections	Flushing connection in place.



EROWA Wire EDM Tooling

Fixtures for adapters

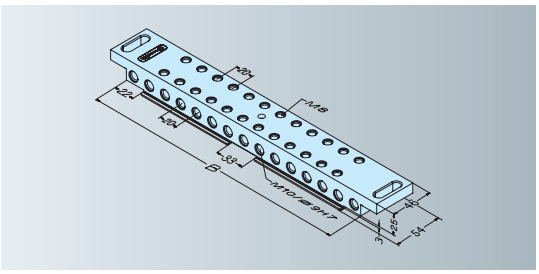
ER-017645	**Clamping beam 220 mm**
ER-017646	**Clamping beam 300 mm**
ER-017647	**Clamping beam 380 mm**
ER-017648	**Clamping beam 460 mm**



Application To clamp workpieces with clamping claws on Z-discs.
Version Cross boreholes, ground.

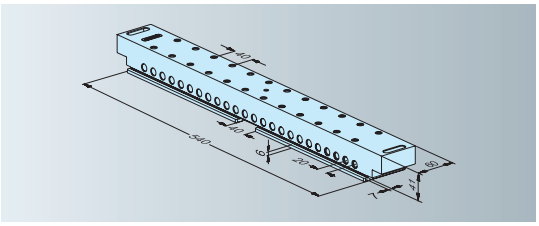
Clamping Beam	X	Y
ER-017645	22 mm	46 mm
ER-017646	25 mm	46 mm
ER-017647	25 mm	46 mm
ER-017648	36 mm	56 mm

ER-021126	**Double-sided clamping beam 300 mm**
ER-021127	**Double-sided clamping beam 380 mm**
ER-021128	**Double-sided clamping beam 460 mm**



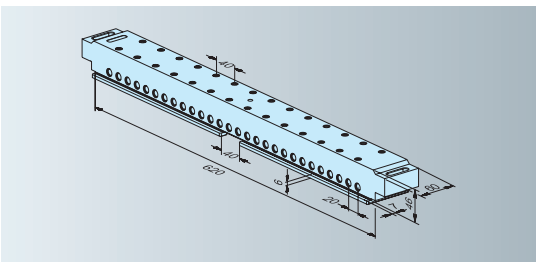
Application To clamp workpieces with clamping claws on Z-support ledges.
Version Cross boreholes, ground.

ER-037307	**Double-sided clamping beam 540 mm ManoSet XXL**



Application Clamping of workpieces with clamping claws on Z-support ledges.

ER-034989	**Double-sided Clamping beam 620 mm ManoSet XXL**



Application Clamping of workpieces with clamping claws on Z-support ledges.

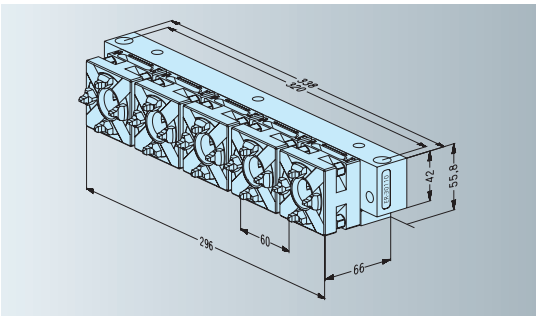
EROWA Wire EDM Tooling

Fixtures for adapters

ER-030110 Beam 5-fold 300 QuickChuck 50

INOX

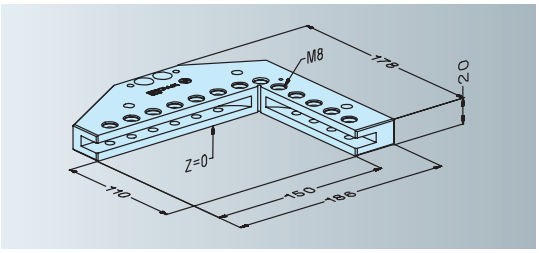
Version	Five chucks 50, manual, in a row.
Application	ITS adapter for the manual loading of five ITS elements.
Use	On all FrameSet clamping frames. Width 300 mm. In combination with the basic adapter set (ER-016652) on the WEDM machine table.



ER-018938 UniVise square PalletSet W

INOX

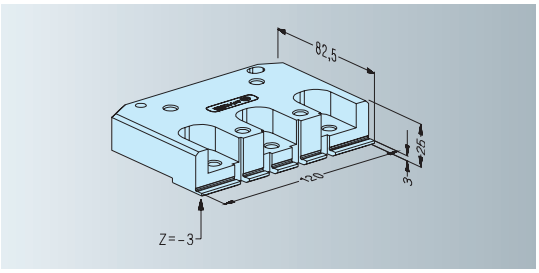
Version	Square with all the clamping accessories.
Application	To be fitted to fix holders or pendulum holders.
Note	Max. load: 10 kg.



ER-018940 Vise PalletSet W

INOX

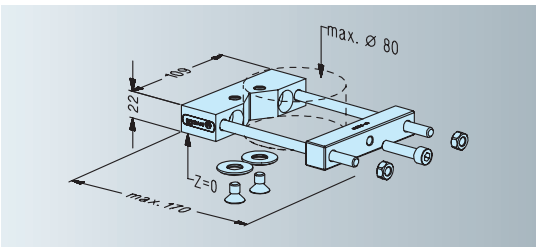
Version	Clamping element with clips for one-sided attachment to workpieces.
Application	To be fitted to fix holders or pendulum holders.
Note	Max. load: 12 kg.



ER-019248 Prism holder 80 PalletSet W

INOX

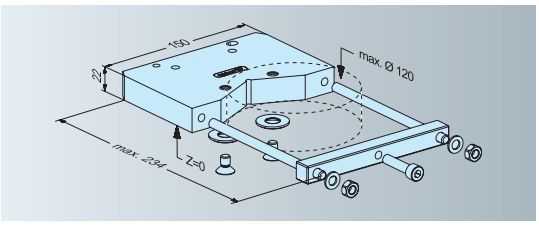
Version	Prism and clamping part with detachable Z-supports.
Application	Clamping of cylindrical workpieces of up to ø 80 mm.
Assembly	To be fitted to the front of beam pallet ER-018937 or clamping beams (cf. p 241).
Note	Max. load: 6 kg.



ER-031179 Prism holder 120 mm PalletSet W

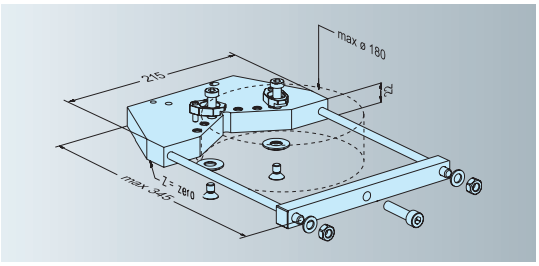
INOX

Version	Prism and clamping bars with detachable Z-supports.
Application	To clamp cylindrical workpieces of up to ø 120 mm.
Mounting	directly to fixholder or pendulum holder.
Note	Max. load: 10 kg.



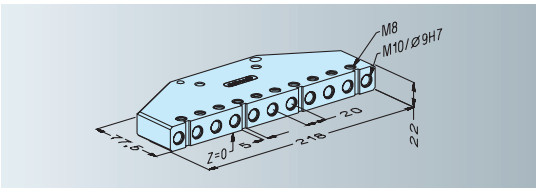
ER-038891 Prism holder ø 10 - 180 PalletSet W

Version	Prism and clamping bars with detachable Z-supports.
Application	To clamp cylindrical workpieces of up to ø 180 mm.
Mounting	directly to fixholder or pendulum holder.
Note	Max. load: 12 kg.



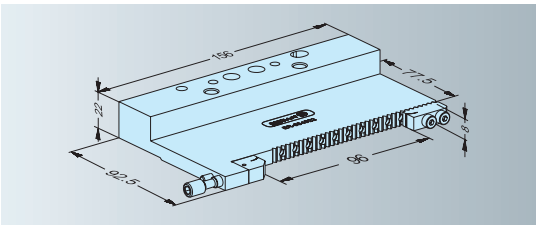
ER-018937 Beam pallet PalletSet W

Version	Pallet to accommodate various clamping elements. Includes Z-supports and clips.
Application	To be fitted to fix holders or pendulum holders 3D.
Options	Prism holders and BeamVise clamping elements.



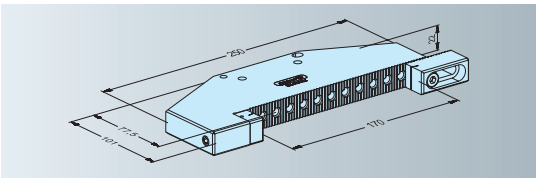
ER-054922 Flat vise 8 mm PalletSet W

Version	One movable jaw and one fixed jaw. Hardened, ground and corrosion-resistant.
Clamping range	0 - 96 mm.
Max. load	5 kg.
Application	Lateral clamping of workpieces machined outside of up to 96 mm. To be fitted to fixholder or pendulum holder.



ER-055774 Flat vise 170 mm PalletSet W

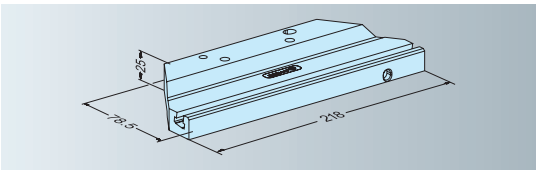
Version	One movable and one fixed jaw. Hardened, ground and corrosion-resistant.
Clamping range	0 - 170 mm.
Max. load	12 kg.
Application	Lateral clamping of workpieces of 0-170 mm machined from the outside. To be fitted to fix or pendulum holders.



EROWA Wire EDM Tooling

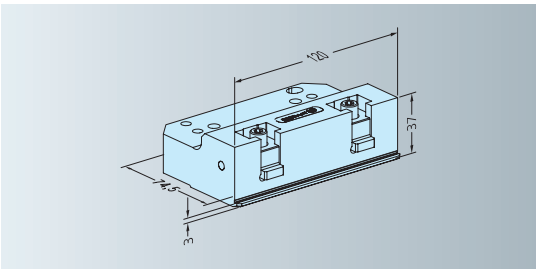
Fixtures for adapters

ER-031945 Basic holder PalletSet W



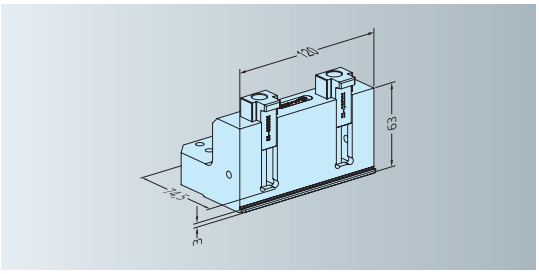
Version	To accommodate various clamping elements.
Application	To fit to fixholder or pendulum holder 3D.
Options	Jaw holder ER-033958 or bracket holder ER-031952.

ER-025895 Vise PalletSet W 40 mm



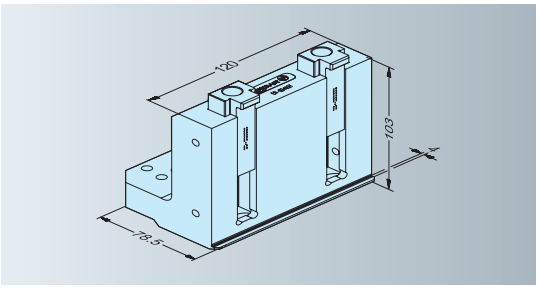
Version	Vise with fixed Z-lip and jaws attached from above. Hardened and ground.
Clamping range	max. 150 x 150 x 40 mm.
Max. load	12 kg.
Application	Lateral clamping of workpieces of 0 -150 mm machined from the outside. To be fitted to fix or pendulum holders.

ER-025896 Vise PalletSet W 100 mm



Version	Vise with fixed Z-lip and jaws fitted from above.
Application	To clamp workpieces of up to 100 mm in height. To be fitted to fixholder or pendulum holder.
Max. clamping range	150 x 150 x 100 mm.
Max. load	12 kg.

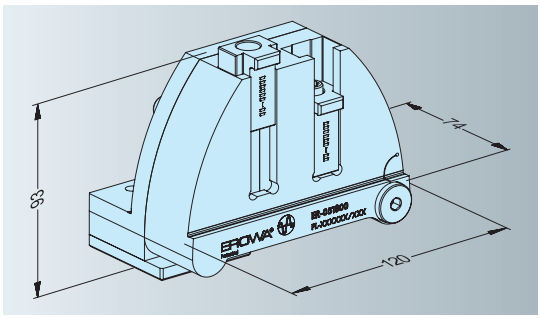
ER-034631 Vise PalletSet W 140 mm



Version	Vise with fixed Z-lip and jaws fitted from above. Hardened and ground.
Application	To clamp workpieces of up to 140 mm in height. To be fitted to fixholder or pendulum holder.
Max. load	12 kg.
Max. clamping range	150 x 100 x 140 mm.

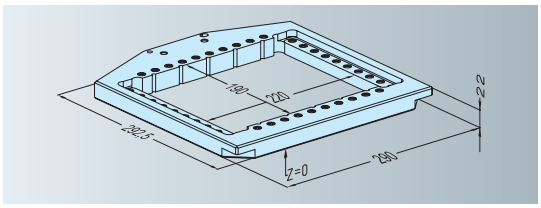
ER-051800 Sine vise PalletSet W

Version	Vise with adjustable angle position and jaws fitted from above. Hardened and ground.
Application	To clamp workpieces at angles adjustable between 0-90°. To fit to fixholder or pendulum holder.
Clamping range	min. 10 mm / max. 75 mm.
Max. load	12 kg.



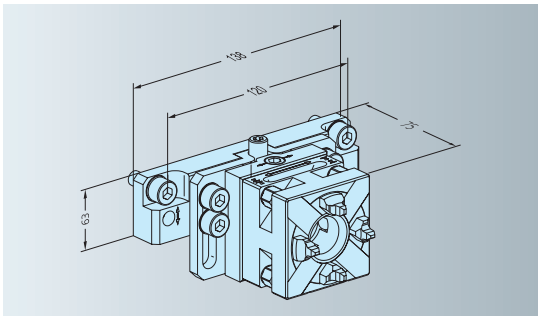
ER-018941 Frame pallet PalletSet W

Version	Clamping frame for multiple palletization of work-pieces.
Application	To be fitted to fix holders or pendulum holders.
Option	Clamping beam 220 ER-017645.
Note	To support the clamping frame, use Z-supports.



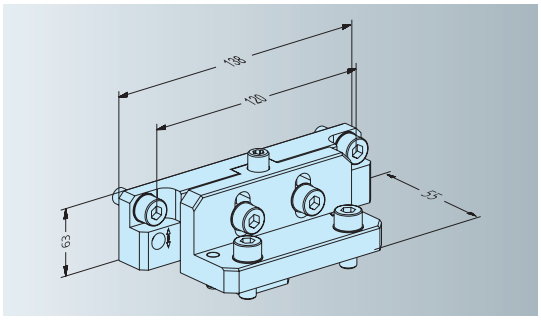
ER-029228 Z-Vario QuickChuck PalletSet W

Version	Fits 3D ER-030923 pendulum holder. Hardened and ground.
Max. load	8 kg.
Clamping range	max. height adjustement 30 mm.
Application	To machine electrodes in PSW which have to be adjusted in height.



ER-029229 Z-Vario clamping elements PalletSet W

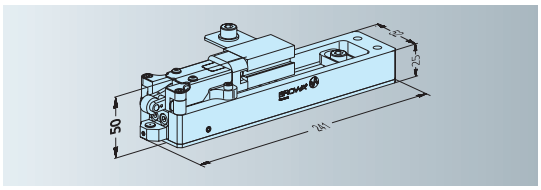
Version	Fits 3D ER-030923 pendulum holder. Hardened and ground.
Max. load	8 kg.
Clamping range	max. height adjustment 30 mm.
Application	PSW clamping elements can also be adjusted in height.



EROWA Wire EDM Tooling

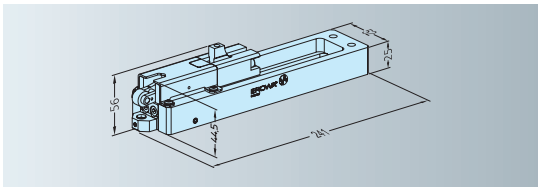
Fixtures for adapters

ER-025115 Z-support PalletSet W universal pneumatic, 1 pair



Version	1 pair of supports. Hardened and ground.
Mounting	Directly on the Z=0 base of the WEDM center.
Operation	With manual control unit.
Application	Support and clamping of the frame plate with weights of up to 30kg. Stabilizes the frame plate in case of high flushing pressure.

ER-025116 Z-support PalletSet W universal manual 1 pair

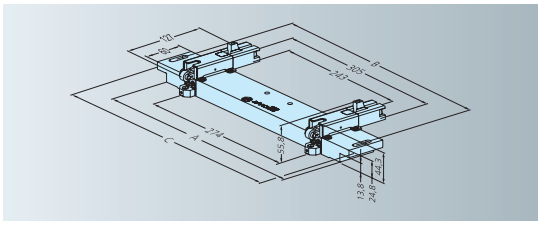


Version	1 pair of supports. Hardened and ground.
Mounting	Directly on the Z=0 base of the WEDM center.
Operation	Manually.
Application	Support and clamping of the frame plate with weights of up to 30 kg. Stabilizes the frame plate in case of high flushing pressure.

ER-025100 Z-support beam 300 PalletSet W manual

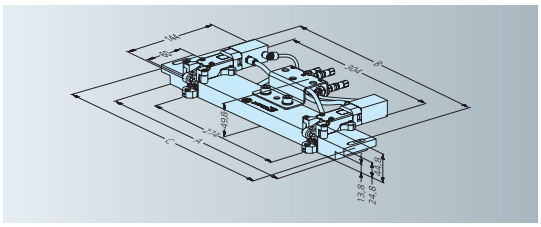
ER-025101 Z-support beam 380 PalletSet W manual

ER-027205 Z-support beam 460 PalletSet W manual



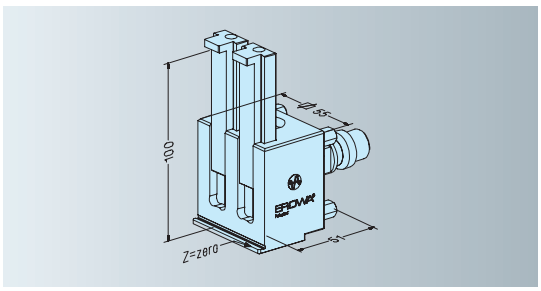
Version	Support beam for use in EROWA ManoSet.
Operation	Manually.
Applicaton	Support and clamping of the frame plate with weights of up to 30 kg in combination with EROWA ManoSet. Stabilizes the frame plate in case of high flushing pressure.

ER-025027	**Z-support beam 300 PalletSet W pneumatic**
ER-025030	**Z-support beam 380 PalletSet W pneumatic**
ER-028306	**Z-support beam 460 PalletSet W pneumatic**



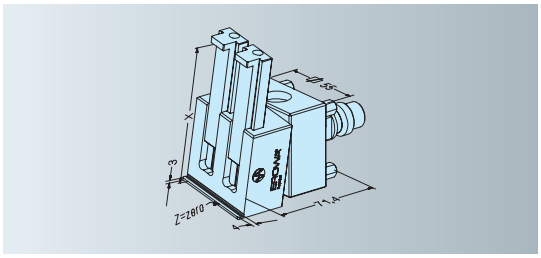
Version	Support beam for use in EROWA ManoSet.
Operation	Pneumatically.
Application	Support and clamping of the frame plate with weights of up to 30kg in combination with EROWA ManoSet. Stabilizes the frame plate in case of high flushing pressure.

ER-008814	**Precision vise 0 - 100 UnoSet**



Clamping range	Ranges from 0 to 100 mm.
Max. extension	40 mm at 100 mm workpiece height.
Max. load	5 kg.
Application	Workpiece fixed. Including three sets of clamping jaws.

ER-007935	**Rotary vise 0 - 100 UnoSet**



Clamping range	0–100 mm.
Max. extension	40 mm with 100 mm part height.
Max. load	5 kg.
Application	Continuously able to rotate around 360°. Set with three pairs of clamping jaws.

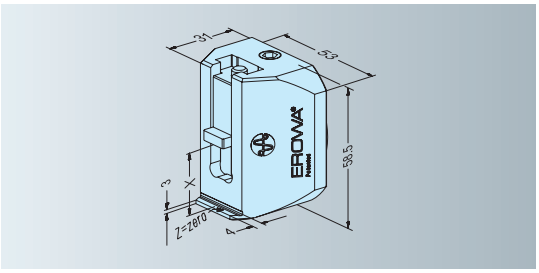
EROWA Wire EDM Tooling

Fixtures for adapters

ER-014698 VeeVise UnoSet

INOX

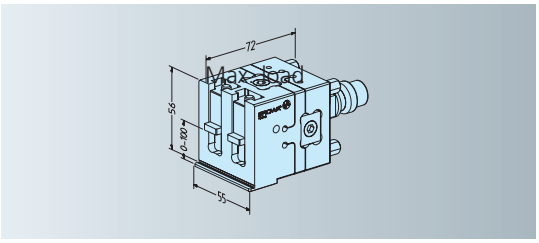
Clamping range	0–100 mm.
Max. extension	40 mm with 100 mm part height.
Max. load	5 kg.
Application	Clamping component without ITS connection. To fit to an existing pendulum rotating adapter.



ER-008842 Pendulum vise 0 - 100 UnoSet

INOX

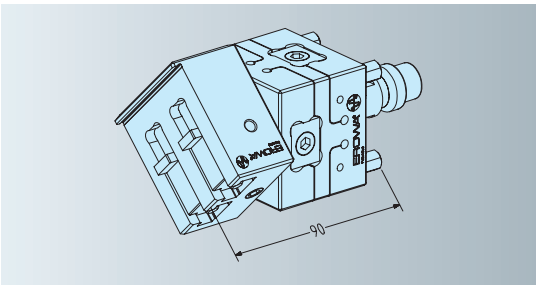
Clamping range	Ranges from 0 to 100 mm.
Max. extension	40 mm at 100 mm workpiece height.
Max. load	5 kg.
Application	Workpiece adjustable in two axes. Including three sets of clamping jaws.



ER-008856 Rotatable pendulum vise 0 - 100 UnoSet

INOX

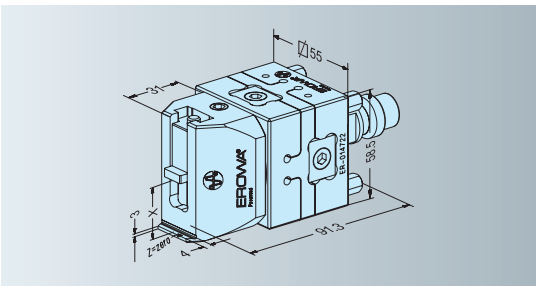
Clamping range	0–100 mm.
Max. extension	40 mm with 100 mm part height.
Max. load	5 kg.
Application	For adjustable workpiece positioning in three axes. Continuously able to rotate around 360°. Set with three pairs of clamping jaws.



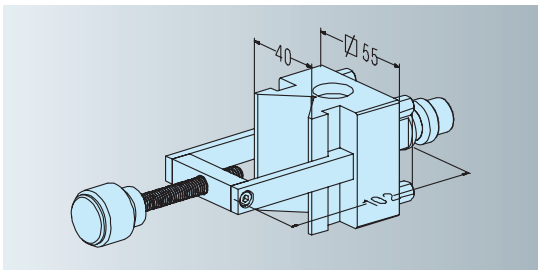
ER-014722 VeeVise TP UnoSet

INOX

Clamping range	0–100 mm.
Max. extension	40 mm with 100 mm part height.
Max. load	5 kg.
Application	For adjustable workpiece positioning in three axes. Continuously able to rotate around 360°. Set with three clamping jaws.

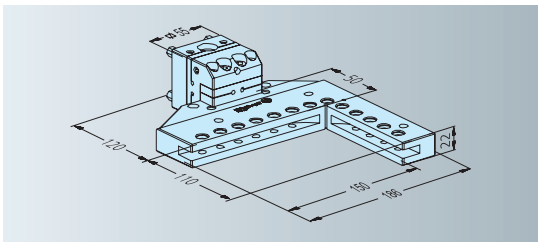


ER-016691 V-block holder UnoSet



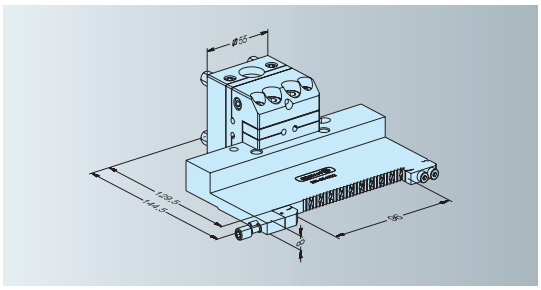
Clamping range	Parts up to ø 40 x H 150 mm.
Max. load	1.5 kg.
Application	To clamp parts in prismatic slot. Parallel and angular precision 0.01 mm.

ER-015670 UniVise P UnoSet



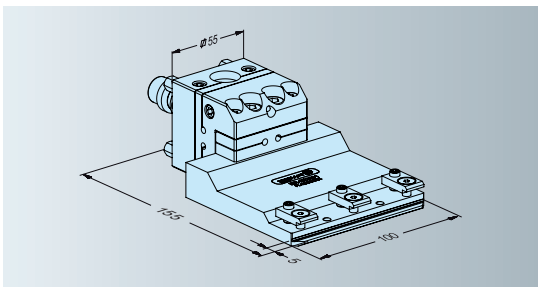
Clamping range	Round parts: ø 5–85 mm. Flat parts: 140 x 100 mm.
Max. load	5 kg.
Application	Complete set with all clamping accessories. Workpiece adjustable in three axes.

ER-055535 Flat vise 8 mm UnoSet



Version	One movable jaw and one fixed jaw. Hardened, ground and corrosion-resistant.
Clamping range	0 - 96 mm.
Max. load	5 kg.
Application	Lateral clamping of workpieces machined outside of 0 - 96 mm.

ER-052091 Support straight UnoSet with mini clamp



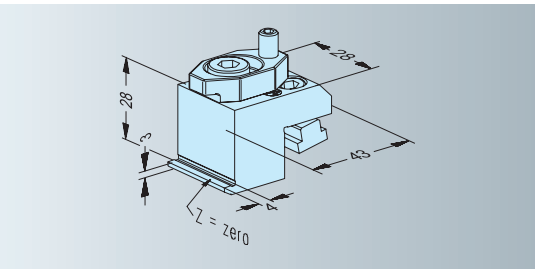
Version	Vertical clamping of workpieces.
Clamping range	0 - 50 mm.
Max. load	5 kg.
Application	Vertical clamping of workpieces.

EROWA Wire EDM Tooling

Clamping elements for fixtures

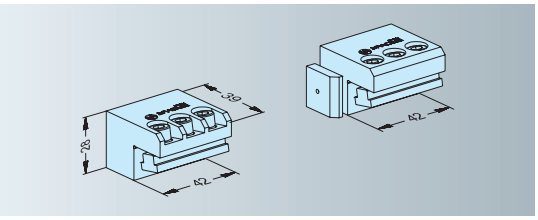
ER-031952 Bracket holder PalletSet W (1 pair)

Version	Two movable vertical jaws. Hardened, ground and corrosion-resistant.
Application	Variable vise to be fitted to basic holder PSW.
Mounting	Directly to basic holder ER-031945, using the fittings supplied.



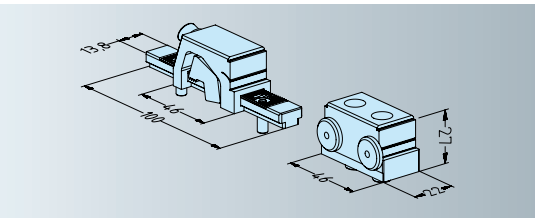
ER-033958 Jaw holder PalletSet W

Version	One movable jaw and one fixed jaw. Hardened, ground and corrosion-resistant.
Application	Variable vise to be fitted to basic holder PSW.
Mounting	Directly to basic holder ER-031945, using the fittings supplied.



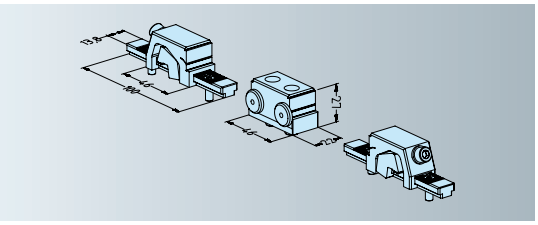
ER-062788 BeamVise Single

Version	One movable and one fixed stop jaw. Hardened, ground, corrosion-resistant.
Application	Variable vise laterally on EROWA clamping beams.
Assembly	With the enclosed assembly elements to the desired clamping beam Pallet Set W ER-018937.



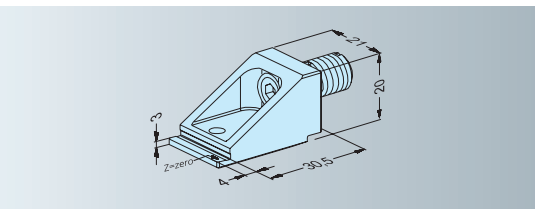
ER-062789 BeamVise Twin

Version	Two movable stop jaws and one fixed stop jaw. Hardened, ground, corrosion-resistant.
Application	Variable vise laterally on EROWA clamping beams.
Assembly	With the enclosed assembly elements to the desired clamping beam PalletSet W ER-018937.

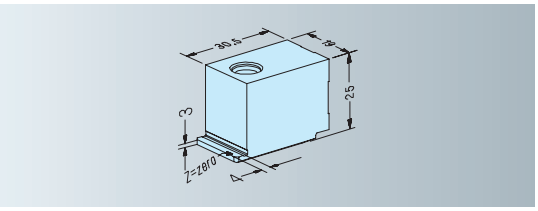


ER-008231 Mini distance support

Application	As side support for workpieces, or for clamping small, flat single parts.
Presetting	The support surface height corresponds to Z = 0 and is not adjustable.
Use	On all clamping and gripping beam ER-018937.

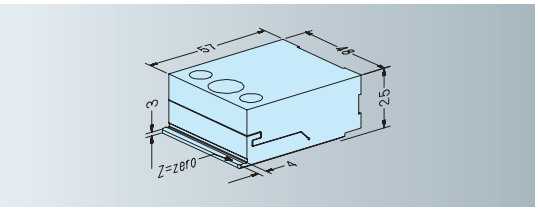


ER-008875 Fixed distance support



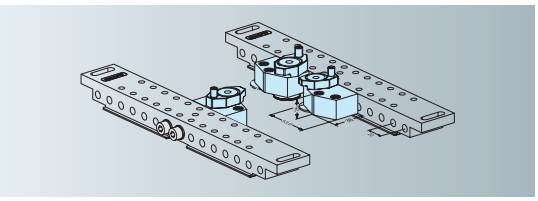
Application	As side support for workpieces, or for clamping small single parts.
Presetting	The support surface height corresponds to Z = 0 and is not adjustable.
Use	On all clamping and gripping beams.

ER-008873 Adjustable distance support



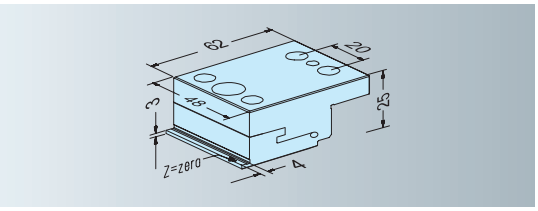
Application	As side support for workpieces, or for clamping small single parts.
Presetting	The support surface height corresponds to Z = 0 and is adjustable +/- 0.15 mm.
Use	On all clamping and gripping beams.

ER-007990 DiaFix 3 pieces



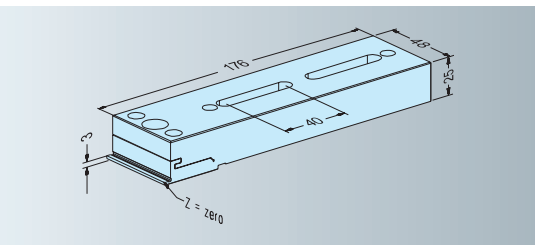
Application	For supporting round parts with diameters starting at 50 mm, or as a side support for rectangular work-pieces.
Presetting	The support surface height corresponds to Z = 0 and is not adjustable.
Use	On all clamping beams.

ER-008221 Z beam



Application	As side support for workpieces, or for clamping small single parts.
Presetting	The support surface height corresponds to Z = 0 and is adjustable +/- 0.15 mm.
Use	On all plates and beams with Z = + 14 m.

ER-008220 Z universal support

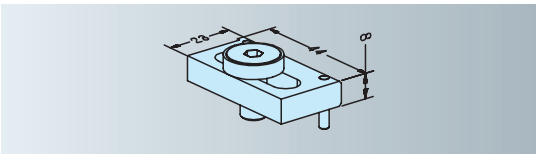


Application	As side support for workpieces, or for clamping small single parts.
Presetting	The support surface height corresponds to Z = 0 and is adjustable +/- 0.15 mm.
Use	On all carrier plates and bases with Z = 0.

EROWA Wire EDM Tooling

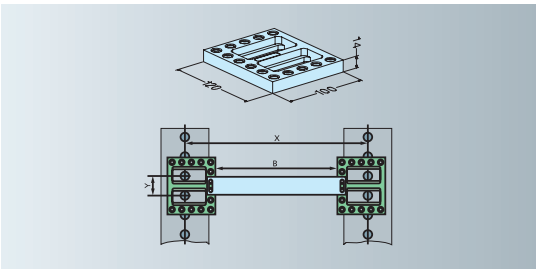
Clamping elements for fixtures

ER-016657 BeamStop set



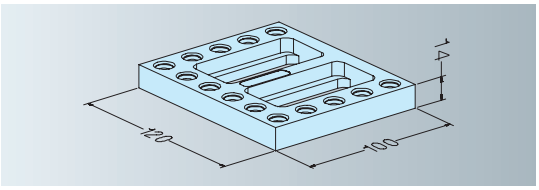
Version	Set of two stops for EROWA beams. Hardened, ground, corrosion-resistant.
Application	On ManoSet base rails, on Basic Adapter and in RoboSet Clamping frames.
Assembly	With the enclosed bolts.

ER-016652 Basic adapter set, 120x100x14 mm



Version	A pair of ground, hardened, corrosion-resistant steel plates with variable assembly hole grids, including BeamStop.
Application	Base on WEDM machines unequipped with tooling system for the use of EROWA ManoSet clamping beams.
Assembly	With the enclosed assembly elements directly onto the existing Z-zero machine structure.

ER-017198 Basic adapter 120x100x14 mm



Version	A ground, hardened, corrosion-resistant plate with variable assembly hole grids.
Application	Base on WEDM machines with no tooling system. With chucks ER-007851/ER-007852.
Assembly	With the enclosed bolts directly onto the existing Z-zero base.

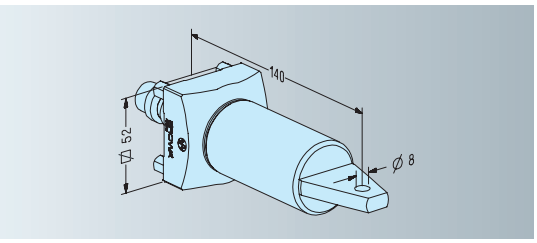
EROWA Wire EDM Tooling

Accessories

ER-012727 Reference pin UnoSet

INOX

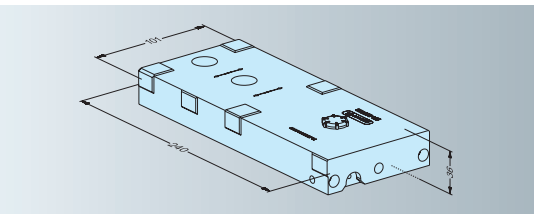
Version Hardened, ground, borehole ø 8 mm.
Application To determine reference measurements on horizontal chucks.



ER-055158 Alignment pallet for PalletSet W

INOX

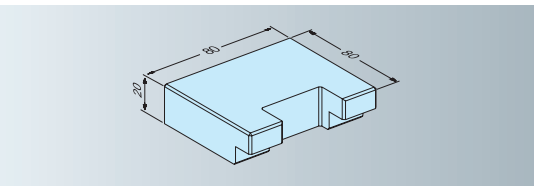
Version Hardened, ground gauge with lateral reference surfaces and two defined reference boreholes.
Application To determine the reference point and to align chucks.



ER-022669 Bracket for flat chuck FSF without fixing borehole, 2 pieces

INOX

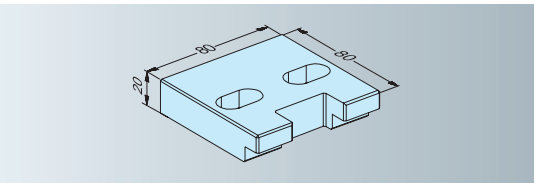
Version Steel, unhardened. Set of 2.
Application To fit flat chucks to WEDM centers.



ER-022670 Bracket for flat chuck FSF Agie, 2 pieces

INOX

Version Steel, with attachment boreholes. Set of 2.
Application To fit flat chucks to Agie WEDM centers.

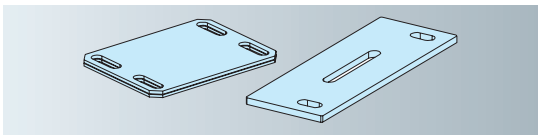


EROWA Wire EDM Tooling

Accessories

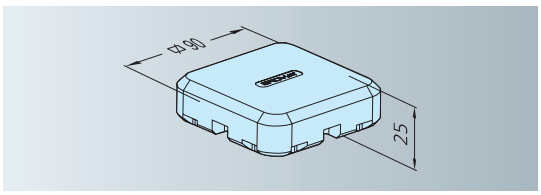
ER-028913 Insulation set PalletSet W

Application: To fit underneath the flat chucks and Z-supports to insulate the tooling system.



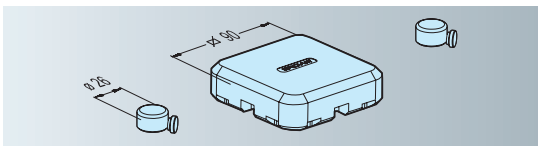
ER-026768 Cover for flat chuck

Version: Cover for flat chucks
Application: Protects flat chucks that are not in use against contamination and damage.



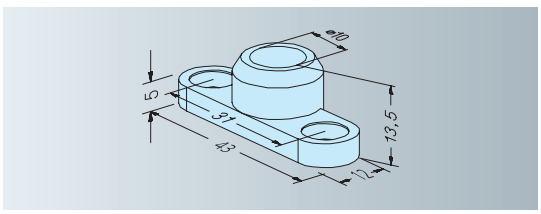
ER-027695 Cover for flat clamping chuck PalletSet W

Version: Set consisting of 2 covers for flat chucks and 4 covers for Z-supports.
Application: Protects flat chucks and Z-supports that are not use against contamination and damage.



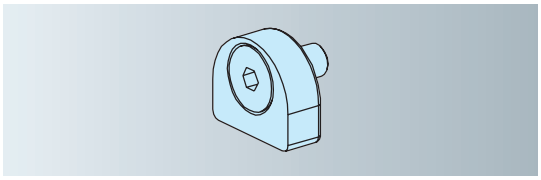
ER-035156 EWIS™ Rapid chip with chip holder long with chip ø 12,4 x 2 mm

Version: Holder with built-in datacarrier. EWIS™ Chip: read only.
Application: With EROWA Collet Chuck holders and Square 15/25 holders.
Mounting: With supplied M4 bolts.



ER-035294 EWIS™ Rapid chip with chip holder RCS with chip ø 12,4 x 2 mm

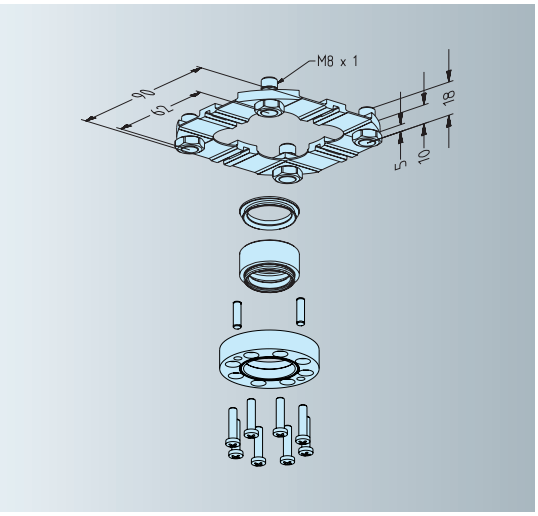
Version: Holder with built-in datacarrier. EWIS chip: read only.
Application: To build into RCS coupling, PalletSet W holder and Basic WEDM holder.



ER-030671 Centering plate, G100 M8 x 1 PalletSet W 5 pieces

INOX

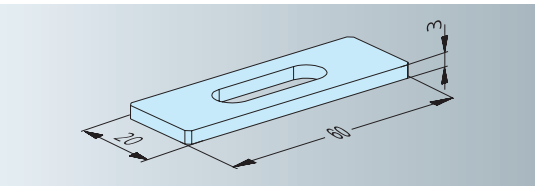
Version Set of 5, including support feet.
Application To be fitted directly to workpiece and electrodes to be used on flat chucks.



ER-008910 Spacer plate 3 mm 8 pieces

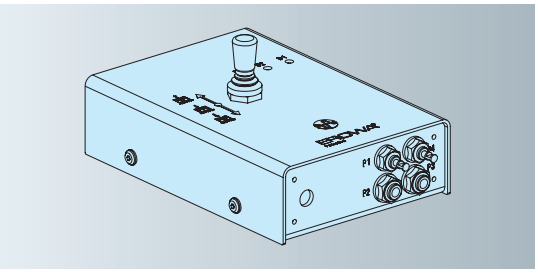
INOX

Version Set of 8 plates. Ground, hardened.
Application To fit underneath clamping beams to raise the Z-support by 3 mm. This prevents collisions in the working range of the lower flushing nozzles.



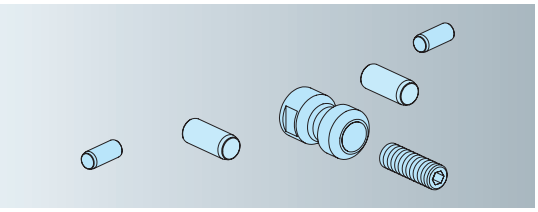
ER-008988 Manual control unit

Version Manual valve to control all the functions of ITS, ITS Compact CombiChuck, PowerChuck P and UPC: opening/reclamping/cleaning.
Application Operation of chucks on machines.



ER-018936 GripperLink RCS PalletSet W

Version Gripper coupling for RCS gripper, consisting of 4 positioning pins and a chucking spigot.
Application On all EROWA handling devices equipped with the RCS coupling system.
Assembly Glue in pins according to instructions, fit chucking spigot with bolt.
Note Recess for EWIS chip (not included) in the chucking spigot.

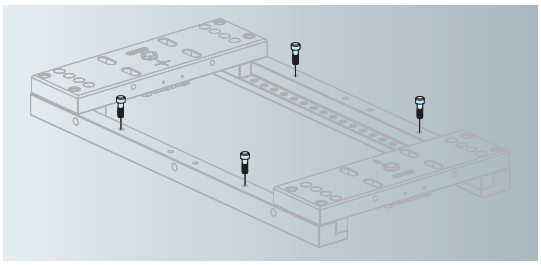


EROWA Wire EDM Tooling

Accessories

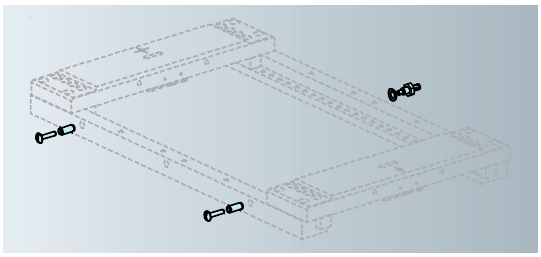
ER-034533 FrameSet gripper bolts 4 pieces

Version	Set of 4 gripper bolts.
Application	For FrameSet clamping frames with EROWA handling facilities.
Note	Can only be used in connection with FrameSet gripper automation.



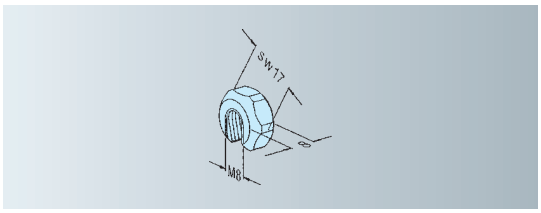
ER-022465 Coupling kit FrameSet manual

Version	Set including 2 gripper pins 2 M6x30 bolts, 1 cord holder, 1 spring washer
Application	To take up FrameSet frames with the EROWA Lift.



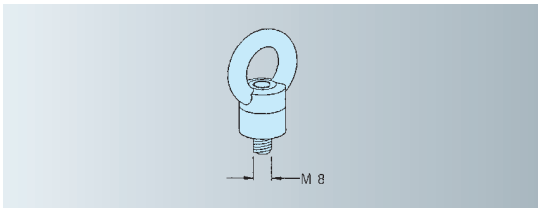
ER-008846 Slotted nut M8 10 pieces

Quantity	10
Application	On long setscrews, to avoid time-consuming nut tightening.



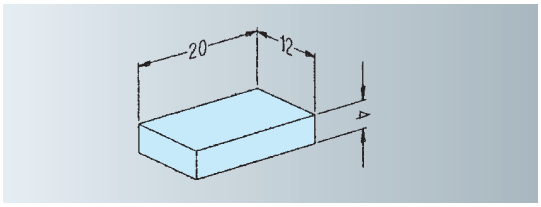
ER-008848 Eye bolt M8 1 couple

Quantity	2
Application	To raise loaded clamping frames with a crane or lifting device.



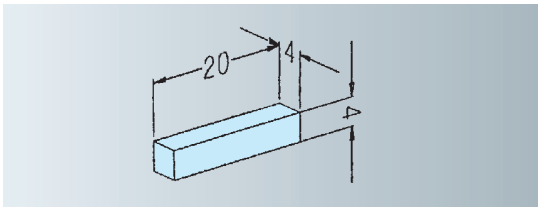
ER-007799 Spacer plate large 50 pieces

Quantity	50
Application	As supports for chucking claws.

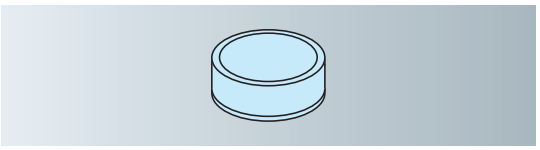


ER-007781 Spacer plate small 50 pieces

Quantity	50
Application	As supports for chucking claws.

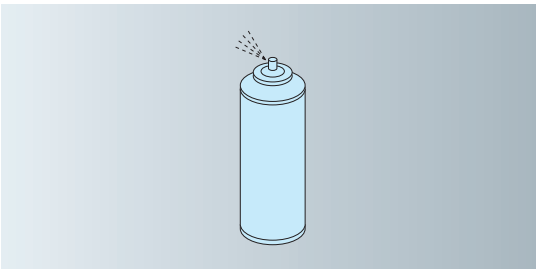


ER-001674 Erogrease (corrosion protection) 1 kg



Version	1kg tin.
Application	For the durable lubrication of guides, joints and threads submerged in water.

ER-010734 Branotect maintenance spray 0.4 liter

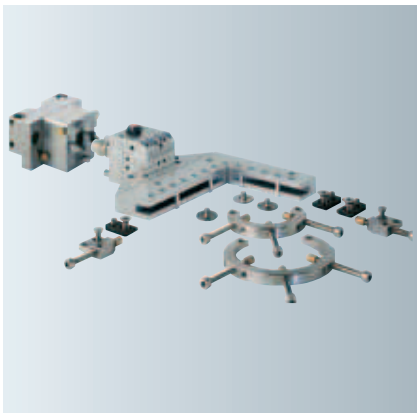


Version	0.4 litre aerosol.
Application	For the maintenance and conservation of all the clamping elements used for WEDM purposes.

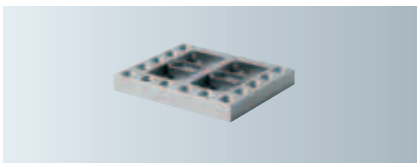
EROWA Wire EDM Tooling

Kit

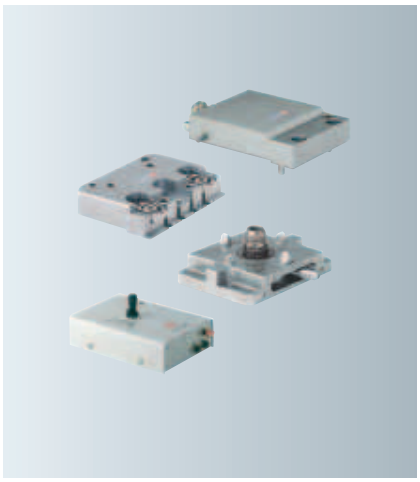
ER-009696	**UnoSet Basic Kit manual**
ER-007962	**UnoSet Basic Kit pneumatic**
Version	Basic tooling system equipment for WEDM centers.
Application	Suitable for the palletization of small and medium sized workpieces.
Mounting	Depending on the machine base, we recommend the multi-adapter plate ER-017198.
Kit contains	1 chuck 1 UniVise universal vise
Note	Machine-specific information can be found at www.erowa.com/unoset or at your EROWA dealer.



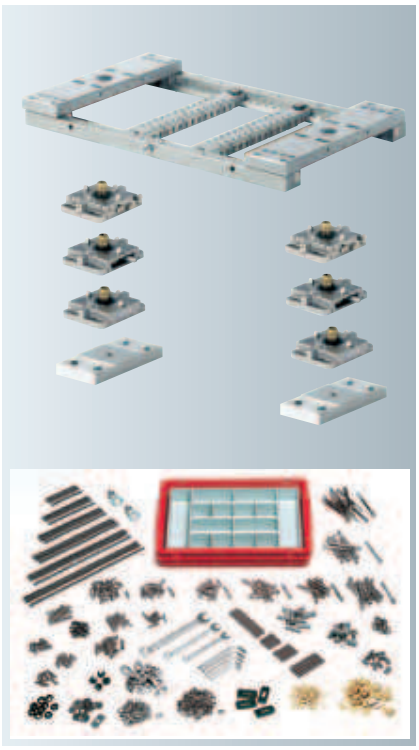
ER-017198	**Multi-adapter plate**
Application	To fit the UnoSet chuck to the machine base
Mounting	Through the adjustable borehole grids with the bolts supplied.



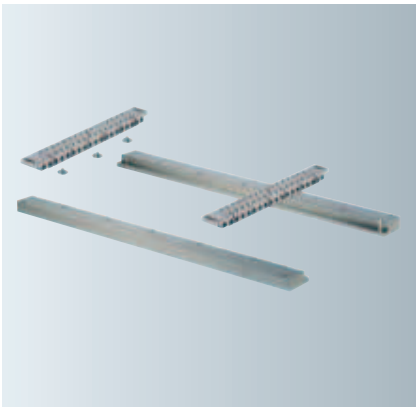
ER-021502	**Starter Kit PalletSet W, manual**
ER-021503	**Starter Kit PalletSet W pneumatic**
Version	Basic tooling system equipment for WEDM centers.
Application	Suitable for the palletization of medium-sized workpieces.
Mounting	Directly to the machine base with the fittings supplied.
Kit contains	1 chuck 1 fixholder 1 vise 1 manual control unit (pneumatic)
Note	Machine-specific information can be found at www.erowa.com/palletset or at your EROWA dealer.



	Starter Kit FrameSet, fix Starter Kit FrameSet, basic Starter Kit Frameset, manual Starter Kit Frameset, pneumatic
Version	Basic frame tooling system equipment for WEDM centers. Manually or pneumatically controlled chucks according to your choice. With the FrameSet fix version, the clamping frames are firmly bolted to the machine base.
Application	Suitable for the palletization of small and medium-sized workpieces.
Mounting	directly to the machine base with the fittings supplied.
Kit contains	2 FrameSet fix plates or corresponding chucks 1 clamping frame of the machine-specific size 2 fitting clamping beams 1 set clamping equipment 1 set frame supports Fittings and pneumatic materials where necessary
Note	Machine-specific information can be found at www.erowa.com/frameset or at your EROWA dealer.



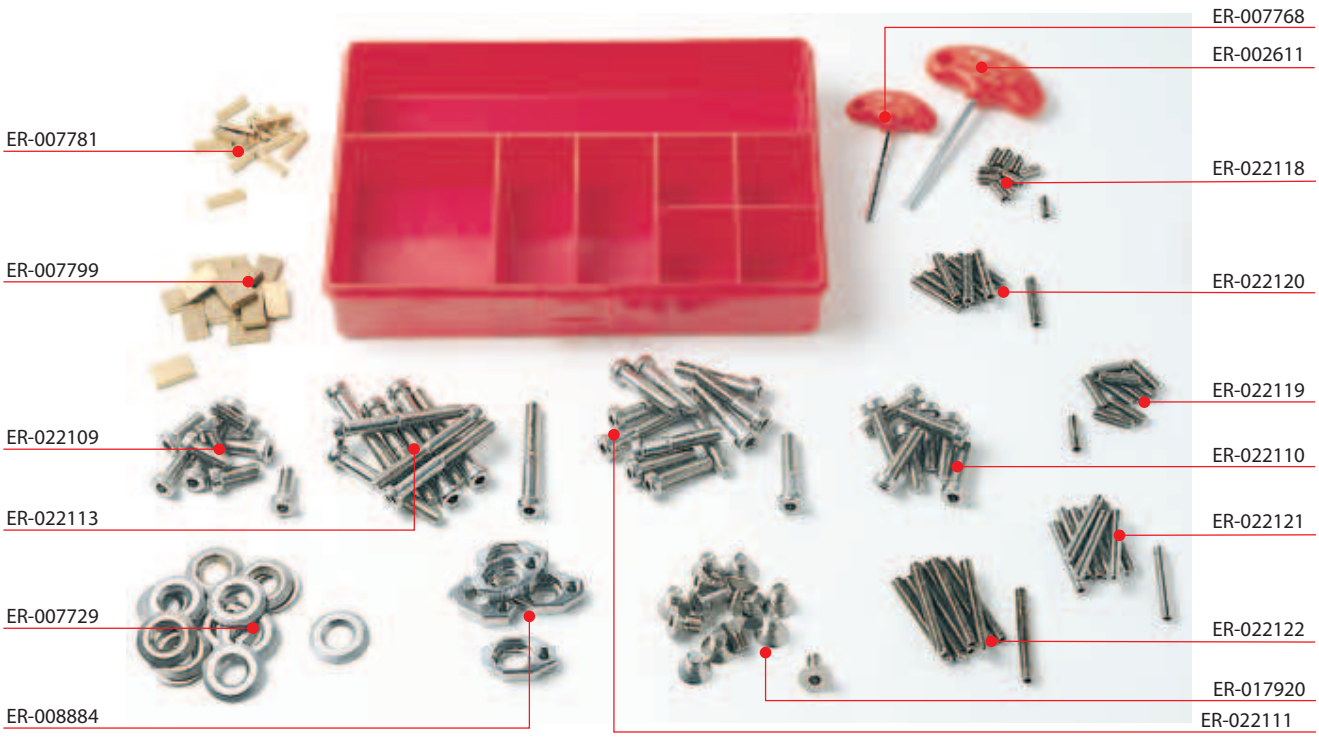
	ManoSet Kit XXL
Version	Basic frame tooling system equipment for WEDM centers. Fixed rails serve as the basis for the clamping beams.
Application	On large WEDM centers.
Mounting	Directly to the machine base with the fittings supplied.
Kit contains	1 set machine-specific base rails 2 fitting clamping beams 1 set clamping equipment
Note	Machine-specific information can be found at www.erowa.com/manoset or at your EROWA dealer.



EROWA Wire EDM Tooling

Set of clamping elements

EROWA's extensive accessory sets contain a number of practical and economically priced auxiliaries which turn clamping jobs into fun.



ER-019989 Set of clamping elements, PalletSet W

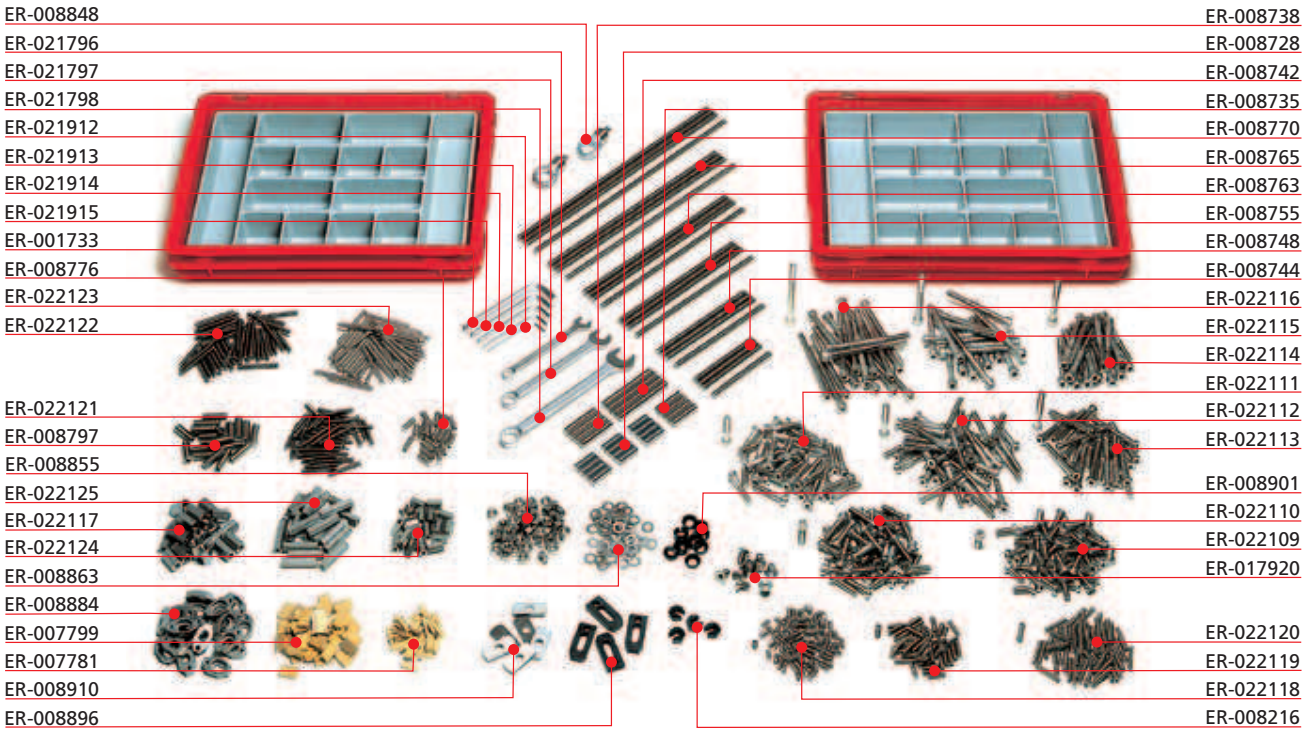
These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-002611	Hex key SW 5	1	1
ER-007729	Z-washer 3 mm	10	1
ER-007768	Hex key SW 3	1	1
ER-007781	Spacer, small	50	50
ER-007799	Spacer, large	50	50
ER-008884	Clip, universal	10	4
ER-017920	Countersunk bolt M8 x 14	10	1
ER-022109	Socket head bolt M8 x 20	10	50
ER-022110	Socket head bolt M8 x 30	10	50
ER-022111	Socket head bolt M8 x 40	10	50
ER-022113	Socket head bolt M8 x 60	10	50
ER-022118	Threaded pin M6 x 12	10	50
ER-022119	Threaded pin M6 x 20	10	50
ER-022120	Threaded pin M6 x 30	10	50
ER-022121	Threaded pin M6 x 40	10	50
ER-022122	Threaded pin M6 x 50	10	50

EROWA Wire EDM Tooling

Set of clamping elements for Wire EDM Tooling Standard

EROWA's extensive accessory sets contain a number of practical and economically priced auxiliaries which turn clamping jobs into fun.



ER-008868 Set of clamping elements, standard

These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-001733	Hex key SW 8	1	1
ER-007781	Spacer plate, small	50	50
ER-007799	Spacer plate, large	50	50
ER-008216	Slotted nut M8	4	4
ER-008728	Straight pin ø9 L = 30	12	4
ER-008735	Straight pin ø9 L = 40	4	4
ER-008738	Straight pin ø9 L = 50	4	4
ER-008742	Straight pin ø9 L = 80	4	4
ER-008744	Threaded rod M8 x 100	4	4
ER-008748	Threaded rod M8 x 150	4	4
ER-008755	Threaded rod M8 x 200	4	4
ER-008763	Threaded rod M8 x 250	4	4
ER-008765	Threaded rod M8 x 300	4	4
ER-008770	Threaded rod M8 x 350	4	4
ER-008776	Threaded pin, hex, M8 x 20	20	50

ER-008868 Set of clamping elements, standard

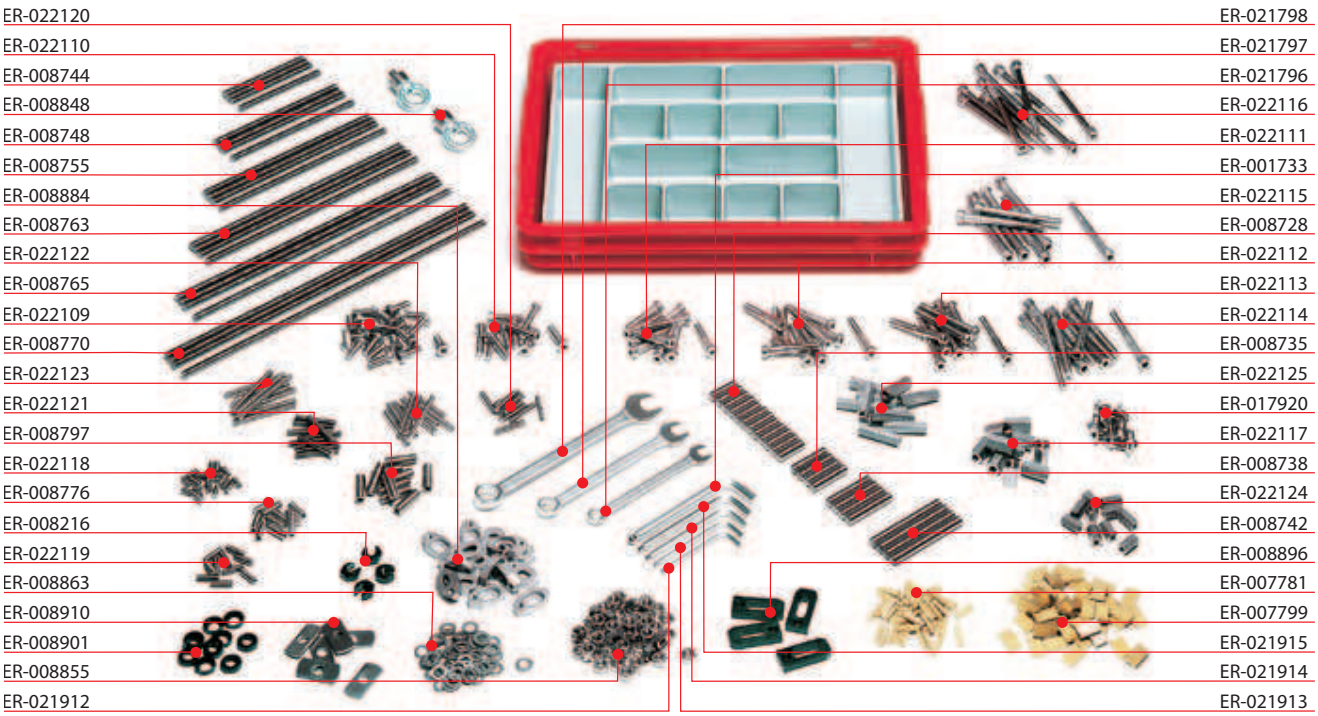
These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-008797	Threaded pin, hex, M10 x 30	20	50
ER-008848	Eye bolt	2	2
ER-008855	Hex nut, M8 x 0.8	50	50
ER-008863	Washer	50	50
ER-008884	Bracket, universal	20	4
ER-008896	Bracket	4	4
ER-008901	Sliding disk	10	20
ER-008910	Spacer plate	8	8
ER-017920	Countersunk head bolt M8 x 14	10	1
ER-021796	Ring spanner, SW 10	1	1
ER-021797	Ring spanner, SW 13	1	1
ER-021798	Ring spanner, SW 17	1	1
ER-021912	Hex key SW 3	1	1
ER-021913	Hex key SW 4	1	1
ER-021914	Hex key SW 5	1	1
ER-021915	Hex key SW 6	1	1
ER-022109	Socket head bolt, hex, M8 x 20	50	50
ER-022110	Socket head bolt, hex, M8 x 30	50	50
ER-022111	Socket head bolt, hex, M8 x 40	40	50
ER-022112	Socket head bolt, hex, M8 x 50	40	50
ER-022113	Socket head bolt, hex, M8 x 60	20	50
ER-022114	Socket head bolt, hex, M8 x 70	20	20
ER-022115	Socket head bolt, hex, M8 x 80	20	20
ER-022116	Socket head bolt, hex, M8 x 100	20	20
ER-022117	Hex extension nut M8	20	20
ER-022118	Threaded pin, hex, M6 x 12	100	50
ER-022119	Threaded pin, hex, M6 x 20	50	50
ER-022120	Threaded pin, hex, M6 x 30	50	50
ER-022121	Threaded pin, hex, M6 x 40	50	50
ER-022122	Threaded pin, hex, M6 x 50	50	50
ER-022123	Threaded pin, hex, M6 x 60	50	50
ER-022124	Extension nut, hex / M6	20	20
ER-022125	Spacer, hex / M6 / L = 40	20	20

EROWA Wire EDM Tooling

set of clamping elements for Wire EDM Tooling Economy

EROWA's extensive accessory sets contain a number of practical and economically priced auxiliaries which turn clamping jobs into fun.



ER-008215 Set of clamping elements Economy

These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-001733	Hex key SW 8	1	1
ER-007781	Spacer plate, small	50	50
ER-007799	Spacer plate, large	50	50
ER-008216	Slotted nut M8	4	4
ER-008728	Straight pin, ø9 L = 30	12	4
ER-008735	Straight pin, ø9 L = 40	4	4
ER-008738	Straight pin, ø9 L = 50	4	4
ER-008742	Straight pin, ø9 L = 80	4	4
ER-008744	Threaded rod M8 x 100	4	4
ER-008748	Threaded rod M8 x 150	4	4
ER-008755	Threaded rod M8 x 200	4	4
ER-008763	Threaded rod M8 x 250	4	4
ER-008765	Threaded rod M8 x 300	4	4
ER-008770	Threaded rod M8 x 350	4	4
ER-008776	Threaded pin, hex, M8 x 20	10	50

ER-008215 Set of clamping elements Economy

These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-008797	Threaded pin, hex, M10 x 30	10	50
ER-008848	Eye bolt	2	2
ER-008855	Hex nut, M8 x 0.8	50	50
ER-008863	Washer	50	50
ER-008884	Bracket universal	15	4
ER-008896	Bracket	4	4
ER-008901	Sliding disk	10	20
ER-008910	Spacer plate	8	8
ER-017920	Countersunk head bolt M8 x 14	10	1
ER-021796	Ring spanner, SW 10	1	1
ER-021797	Ring spanner, SW 13	1	1
ER-021798	Ring spanner, SW 17	1	1
ER-021912	Hex key SW 3	1	1
ER-021913	Hex key SW 4	1	1
ER-021914	Hex key SW 5	1	1
ER-021915	Hex key SW 6	1	1
ER-022109	Socket head bolt, hex, M8 x 20	20	50
ER-022110	Socket head bolt, hex, M8 x 30	10	50
ER-022111	Socket head bolt, hex, M8 x 40	10	50
ER-022112	Socket head bolt, hex, M8 x 50	10	50
ER-022113	Socket head bolt, hex, M8 x 60	10	50
ER-022114	Socket head bolt, hex, M8 x 70	10	20
ER-022115	Socket head bolt, hex, M8 x 80	10	20
ER-022116	Socket head bolt, hex, M8 x 100	10	20
ER-022117	Hex extension nut, M8	10	20
ER-022118	Threaded pin, hex, M6 x 12	20	50
ER-022119	Threaded pin, hex, M6 x 20	10	50
ER-022120	Threaded pin, hex, M6 x 30	10	50
ER-022121	Threaded pin, hex, M6 x 40	10	50
ER-022122	Threaded pin, hex, M6 x 50	10	50
ER-022123	Threaded pin, hex, M6 x 60	10	50
ER-022124	Extension nut, hex / M6	10	20
ER-022125	Spacer, hex/M6/L = 40	10	20

EROWA Wire EDM Tooling

Set of clamping elements for Wire EDM Tooling XL

EROWA's extensive accessory sets contain a number of practical and economically priced auxiliaries which turn clamping jobs into fun.

ER-008301 Set of clamping elements, XL

These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-001417	Wrench SW13	1	1
ER-002613	Hex key SW 5	1	1
ER-007781	Spacer plate, small, 4 x 4 x 20 mm	50	50
ER-007799	Spacer plate, large, 4 x 12 x 20 mm	50	50
ER-008744	Threaded rod M8 x 100	4	4
ER-008748	Threaded rod M8 x 150	4	4
ER-008755	Threaded rod M8 x 200	4	4
ER-008763	Threaded rod M8 x 250	4	4
ER-008765	Threaded rod M8 x 300	4	4
ER-008770	Threaded rod M8 x 350	4	4
ER-008776	Threaded rod M8 x 20	10	50
ER-008786	Threaded rod M8 x 30	10	50
ER-008790	Threaded rod M8 x 40	10	50
ER-008794	Threaded rod M8 x 50	10	50
ER-008812	Countersunk head bolt M8 x 40	20	40
ER-008855	Hex nut M8 x 0.8D	20	50
ER-008861	Hex nut M8 x 3D	4	10
ER-008863	Washer ø 15 x 8,4 x 1.6	20	50
ER-008896	Clamp 45 mm	8	4

ER-008301 Set of clamping elements XL

These materials have been packed in one solid plastic box.

Order number	Description	Units per set	Units supplied by order number
ER-008901	Sliding disk	20	20
ER-010115	Clamps, aluminum, bronzed	4	1
ER-010120	Column, 100 mm	4	1
ER-010123	Column, 60 mm	4	1
ER-010126	Adjustment supports	4	1

EROWA Wire EDM Tooling

Set of clamping elements for Wire EDM Tooling

EROWA's extensive accessory sets contain a number of practical and economically priced auxiliaries which turn clamping jobs into fun.

ER-008868 Set of clamping elements, standard

ER-019989 Set of clamping elements PalletSet W

ER-008215 Set of clamping elements Economy

ER-008301 Set of clamping elements XL