



General Catalog

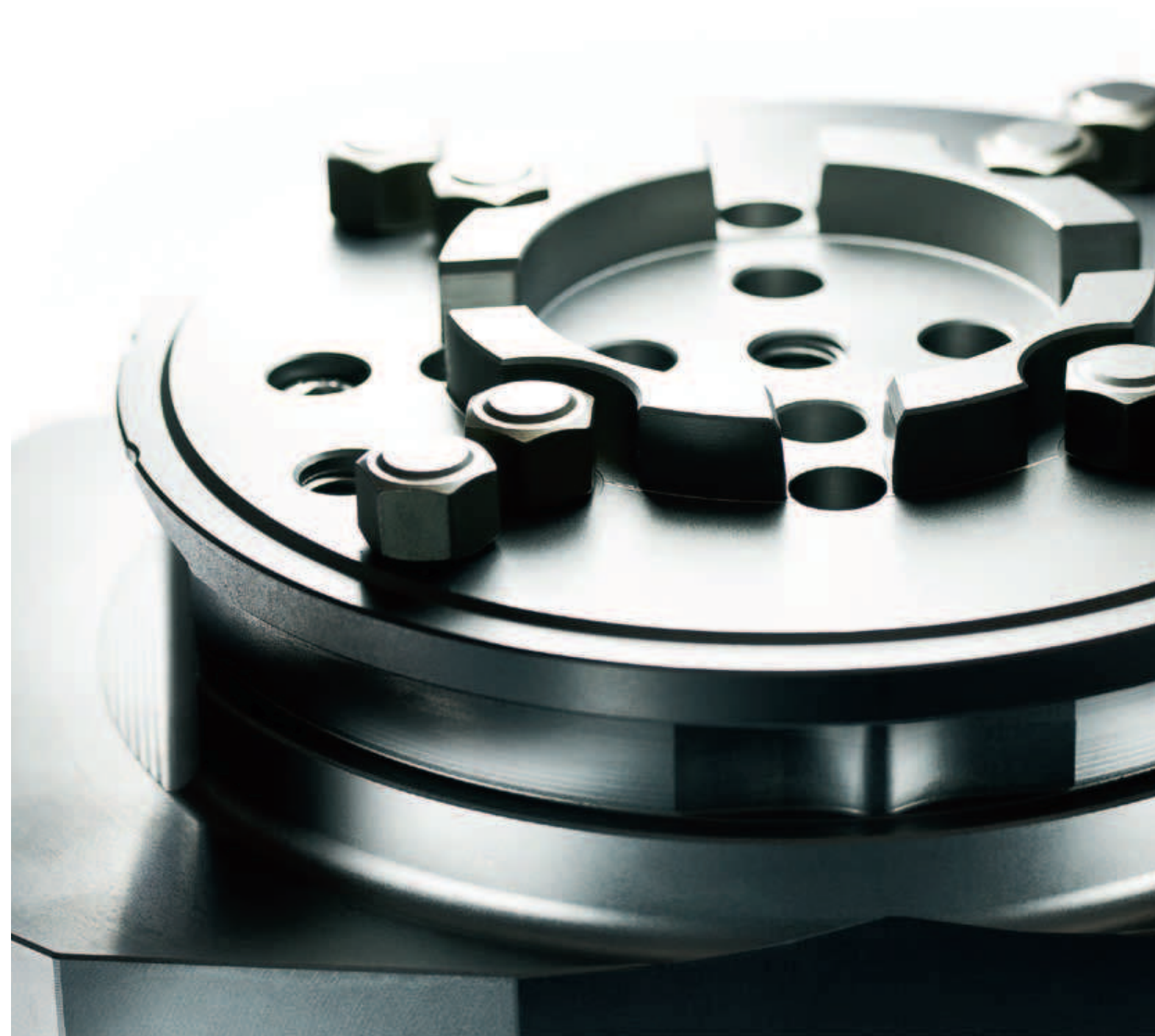
Unlocking the full potential
of your machines



Welcome to the EROWA General Catalog

Competence means understanding the facts. EROWA products are based on this competence. The use of the EROWA FMC concept only has one single aim: **to increase competitiveness.** We'll be glad to be of assistance. With practical advice.

Your EROWA Team



How to find everything

STANDARDIZATION



EROWA PALLETIZING SYSTEMS

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ORGANIZATION



EROWA QUALITY MEASURING AND PRESETTING SYSTEMS

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AUTOMATION



EROWA LOADING SYSTEMS

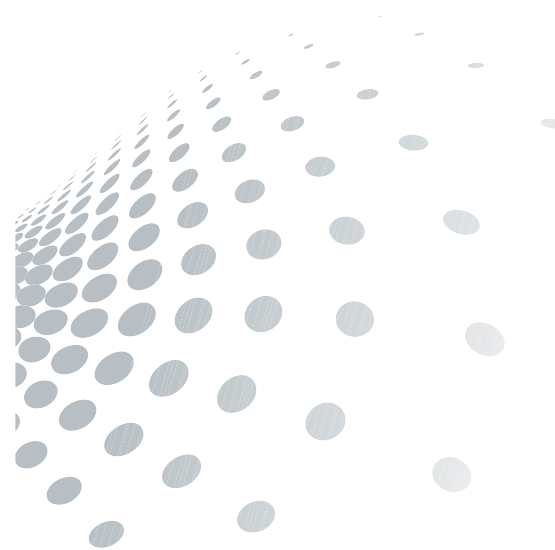
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INTEGRATION



EROWA DATA TRANSFER SYSTEMS

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This is how the General Catalog works



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

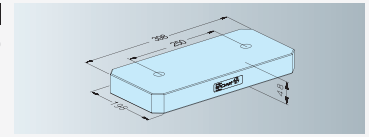


16. Handling with EROWA RCS gripper

ER-041781 MTS pallet 198 x 398 / 250



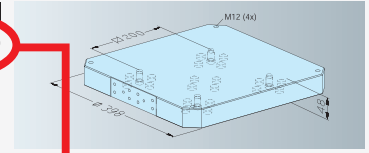
Aluminum pallet, 2-fold, excluding chucking spigot (MTS chucking spigot set ER-041460).
To clamp workpieces, vises and gauges.
ER-041460 to be ordered separately.



8014 MTS pallet 198 x 398 / 200



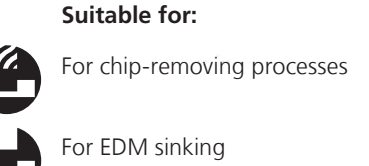
Cast aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).
To clamp workpieces, vises and gauges.
ER-041461 (M) / ER-041464 (A) to be ordered separately.



8002 MTS pallet 398 x 398 / 250



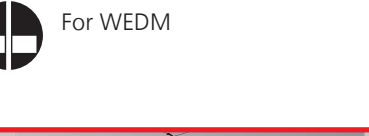
Cast aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).
To clamp workpieces, vises and gauges.
ER-041461 (M) / ER-041464 (A) to be ordered separately.



8376 MTS pallet 398 x 398 / 200 Hard Z support



Aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).



Suitable for:



For chip-removing processes



For EDM sinking



For WEDM

STANDARDIZATION

EROWA MTS PALLETIZING SYSTEM

STANDARDIZATION

Red marks everything that is connected with **palletizing systems**.

ORGANIZATION

Yellow is used for **measuring and presetting stations**.

AUTOMATION

The color green directs you to **handling facilities**.

INTEGRATION

Software and process control systems are marked blue.

To make it easier for you to find your bearings among all the applications of EROWA products, we use the following icons in all our documents:

How to find ev

STANDARDIZATION

EROWA PALLETIZING SYSTEMS

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- Tooling system for production and precision mechanics 8
- Tooling system for SUPPLY, TOOL AND MAGAZINE CHANGING 11
- Tooling system for WEDM 24
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EROWA LOADING SYSTEMS

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EROWA DATA TRANSFER SYSTEMS

- IMC call control 33

QUICK SEARCH

The quick search on the first inside page leads you to the beginning of the various product areas.

DETAILED OVERVIEW

The detailed overview that precedes each product area leads you to the relevant product families such as the ITS or the WEDM tooling system.

- Machine dependent
- 500 x 500 x 500 mm
- 400 x 400 x 400 mm
- 160 x 160 x 160 mm
- Depends on machining power
- 200 x 200 x 200 mm
- 140 x 140 x 140 mm
- 50 x 50 x 50 mm
- Depends on machining power
- Machine dependent

- EROWA ProductionChuck 210 tooling system
- EROWA PowerChuck P tooling system
- EROWA Self-centering Vise
- EROWA ClampSet tooling system
- EROWA ITS tooling system**
- EROWA ITS Compact Comb tooling system
- EROWA P13 tooling System
- EROWA ITS Accessories
- EROWA Wire EDM Tooling System

EROWA Robot System Linear

Transfer unit	Rotary	Rack	Rack Heavy	Tooling system/ magazine positions per level			
Transfer unit Linear							
				30			Compact
				30	15		ITS 50
				30	15		Holder 72
				30	15		PM 56
				30	15		PM 85
				15	7		PM 130
				15	7		ITS 115
				15	7		ITS 148
				15	7		MTS 148
				10	5		PC 210
	3/5	1/2	2/3	3/5	3		UPC 320
	3	1	2	3	2		MTS 400
		1	2		2		MTS 500
	30*			30*	15		UnoSet
	15	3/4		15	3/4		PalletSet W
	3	2		3	2		PalletSet W frame

OVERVIEW TABLES

The overview tables that precede the chapters on presetting stations and handling facilities provide you with a quick overview of the properties of the various products.

UPDATES

The «Updates» page on the Internet shows you novelties and improvements that cannot be found in the printed copy. The PDF file is easy to download. The version number will tell you whether this page contains something new for you.

Online Catalogs

Quick Order

Downloads

Exhibitions & Events

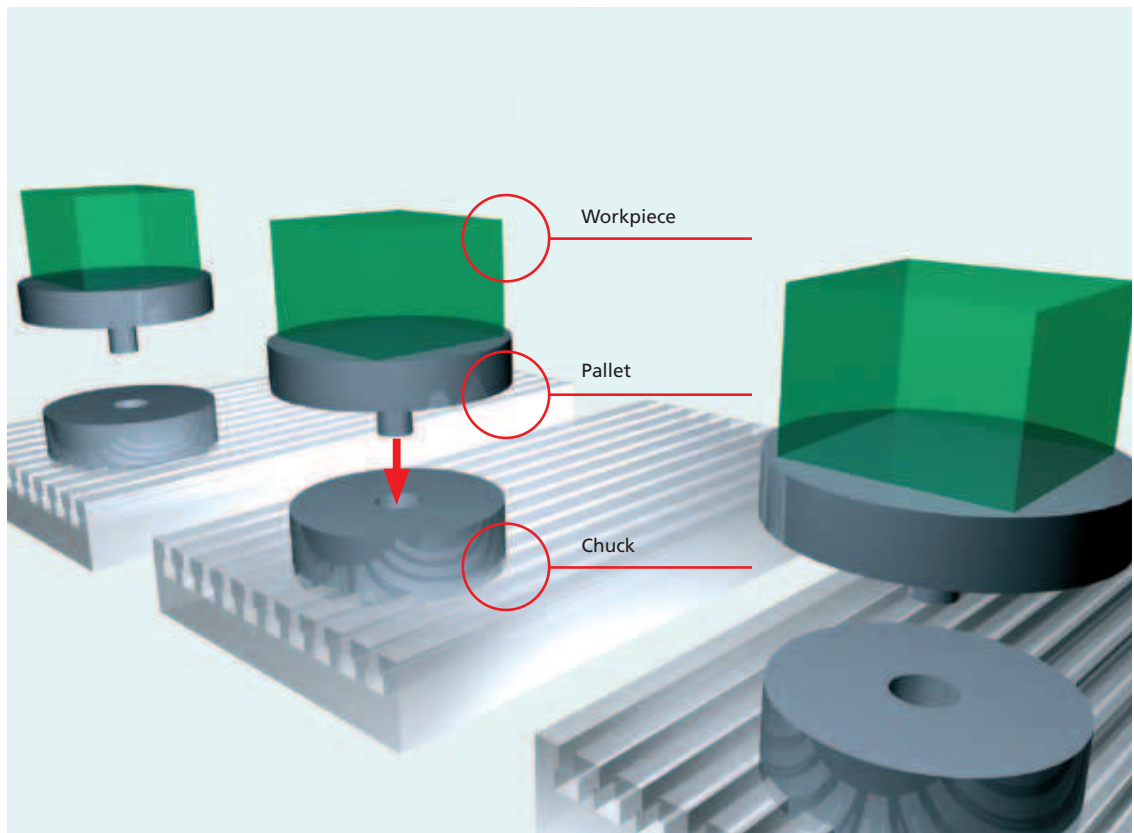
EMO 2011

Interesting Files for

This is the page where you can follow the directions on the

The «Updates» page on the Internet shows you novelties and improvements that cannot be found in the printed copy. The PDF file is easy to download. The version number will tell you whether this page contains something new for you.

EROWA Palletizing systems



Standardization of mechanical interfaces. The integration of a universal tooling system on all machine tools will significantly reduce any downtimes.



For chip-removing processes



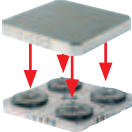


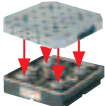


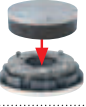


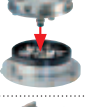


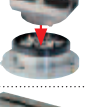


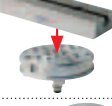


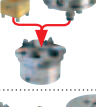


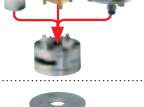





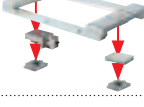





For EDM sinking



For WEDM

EROWA PALLETIZING SYSTEMS

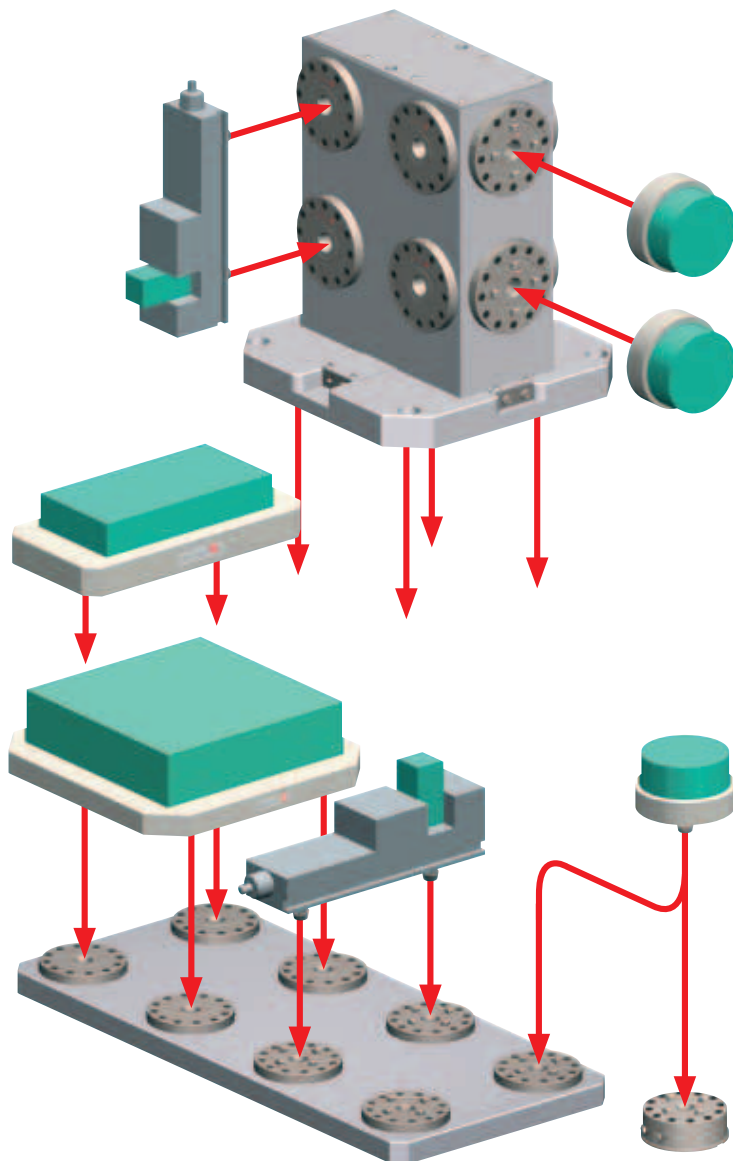
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Machine dependent				
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Machine dependent				

EROWA MTS

The datum point tooling system

The EROWA MTS (Modular Tooling System) is an open system. The maximum workpiece size exclusively depends on the possibilities offered by the machine. Whether it is a case of single palletization with one MTS chuck or multiple palletization with several MTS chucks or base plates - any combination is possible.

MTS chucks can be operated manually or automatically. New jobs are set up while the machine is in productive operation. Express jobs can be positioned on the machine within seconds. After that, the previous production process can be resumed. Therefore, machine down-times are reduced to a minimum.



The datum point is defined!

No alignment is necessary.

Minimum set-up times thanks to a standardized interface!

The interface between the machine and the workpieces/fixtures is standardized. The modular design of the clamping equipment allows for an almost unlimited number of combinations of all the components.

Make use of existing equipment!

Vises, gauges and fixtures are palletized or equipped with chucking spigots and put into production right away.

5-sided machining in one single clamping process!

Once the workpiece has been clamped on an EROWA pallet, 5 sides can be machined with that one clamping process.

- Play-free prismatic centering in MTS single chucks.
- Indexable 4 x 90°.
- More than 500,000 clamping processes without any loss of power or reference accuracy.
- Clamping surfaces without recesses can be cleaned with compressed air.
- Low profile design.
- Suitable for automatic pallet change.
- Standardized set-up distances* of 200 mm or 250 mm on all EROWA base plates.

*) The set-up distance is the distance between the MTS chucks on a base plate.

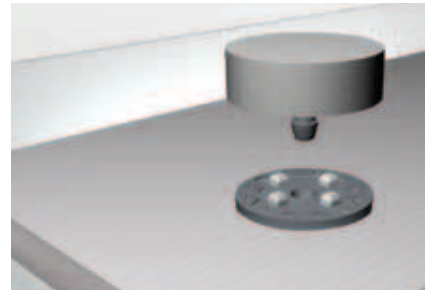
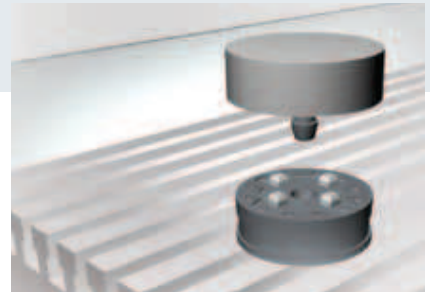
EROWA MTS

Systematic clamping

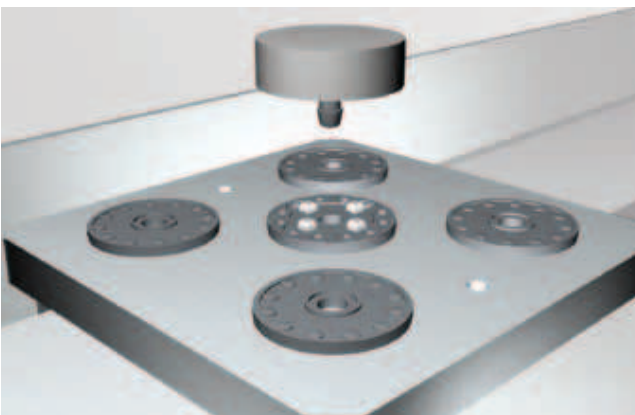
A base plate with integrated MTS chucks.



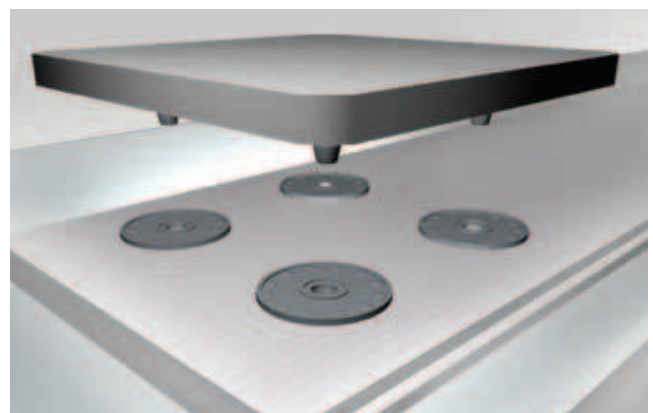
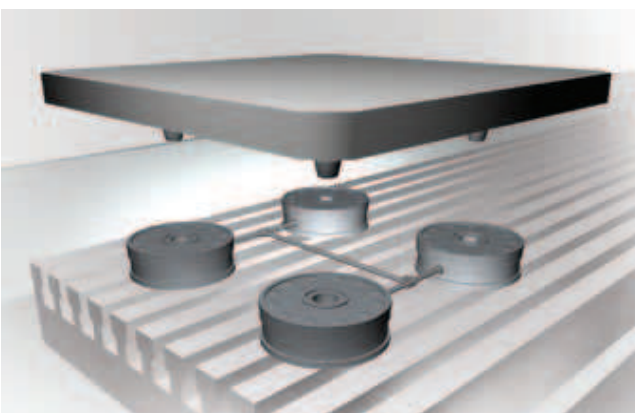
An individual MTS chuck, mounted on or directly integrated in the machine table.



Single and/or multiple MTS chucks integrated in a customized base plate.



Several MTS chucks mounted on or directly integrated in the machine table.



MTS

EROWA MTS / MTS 81

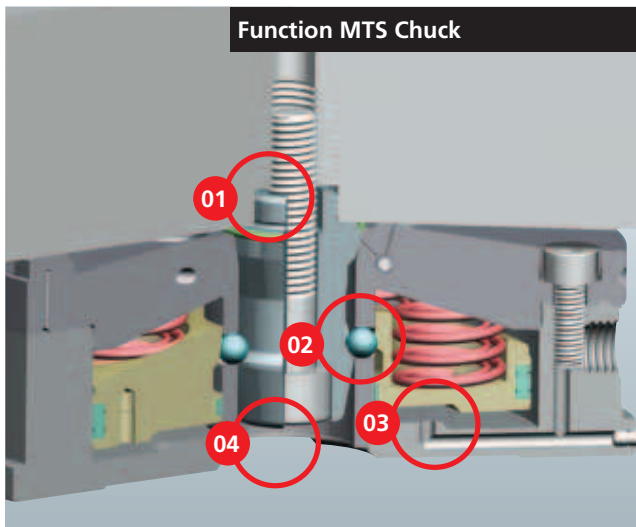
The datum point tooling system

Applications



Handling

Manual / Loading facility / Robot



01 | Precise

Play-free round-cone centering.
Repeatability: <0.005 mm.
Easy insertion of the pallets
without any jamming.

02 | Clamping mechanism

Reliable clamping mechanism through
self-locking ball lock. Stable, low level
of vibration.

03 | Open

MTS are operated pneumatically.

04 | Cleanliness

Liquids can drain off. No dirt traps.

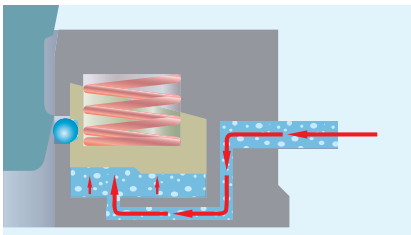
compatible

- MTS
- MTS 81
- MTS+



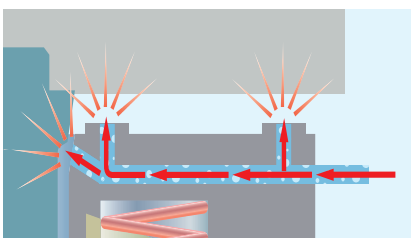
Opening, pneumatic

A mere 7 bar of opening pressure results
in 12,000 N clamping power thanks to
internal power boosting.



MTS chuck, automatable

Automatic cleaning of contact surfaces
and of the centering spigot cone
while the workpiece is changed.



Technical data - MTS / MTS 81

	MTS	MTS 81
Repeatability	<0.005 mm	<0.005 mm
Activation	clamped without pressure	clamped without pressure
Opening pressure	min. 7 bar	min. 8.5 bar
Process monitoring	pneumatically	pneumatically
Clamping power	12,000 N/chuck	10,000 N/chuck *
Holding power	> 60,000 N/chuck	> 60,000 N/Chuck
Reclamp	no	yes
Clamping cycles	> 500,000	> 500,000

* with reclamping

EROWA MTS+

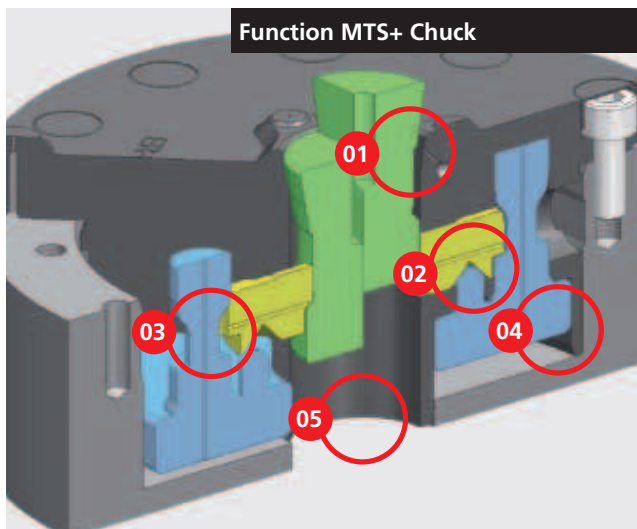
Monitored without compromise

Applications



Handling

Manual / Loading facility / Robot



Function MTS+ Chuck

01 | Precise

Play-free round-cone centering.
Repeatability: <math><0.003\text{ mm}</math>.
Easy insertion of the pallets
without any jamming.

02 | Clamping mechanism

Clamping by means of state-of-the-art
slide technology. Very high rigidity!

03 | Locking

Self-locking clamping technology.

04 | Piston

Working piston moves in a hardened,
completely sealed chuck casing.

05 | Cleanliness

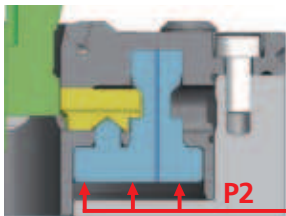
Liquids can drain off. No dirt traps.

compatible

- MTS
- MTS 81
- MTS+

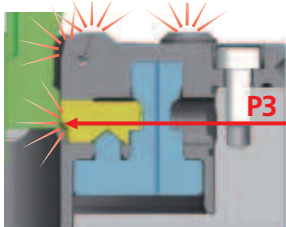


Opening and monitoring pneumatically
MTS+ chucks require only 8.5 bar opening
pressure despite their very high clamping
power of 18,000 N.



Connection P2: Opening & open check

The entire control and monitoring
system of the MTS+ chucks requires
only 2 air supply lines!



Connection P3: Reclamping, cleaning and monitoring.

Technische Daten - MTS+

	MTS+
Repeatability	<math><0.003\text{ mm}</math>
Activation	pneumatic, clamped without pressure
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic: open, closed, clamped, presence of pallet and chucking spigot.
Clamping power with reclamping	up to 18,000 N/chuck
Holding power	> 60,000 N/chuck
Clamping cycles	> 500,000

MTS

EROWA MTS

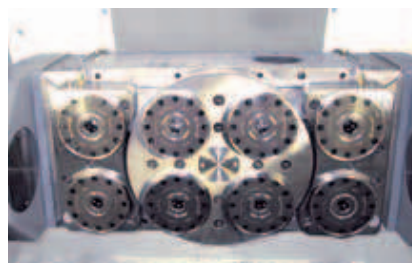
The palletizing system for your manufacturing processes

SERVICE

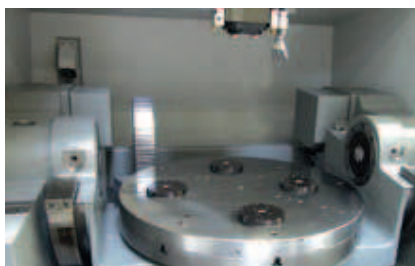
We'll be glad to advise you. No doubt we will find an optimal «clamping solution» for you, too.

Practical work demonstrates the flexibility of the EROWA MTS tooling system. Whether it is a standard solution or a customized configuration, the system will adapt to virtually any machine situation.

The system's universality allows for a wide variety of workpiece carriers to be loaded and unloaded in next to no time. The automation of the workpiece loading/unloading cycle can be retrofitted at any time.



Customized solutions are included. We will gladly advise you.



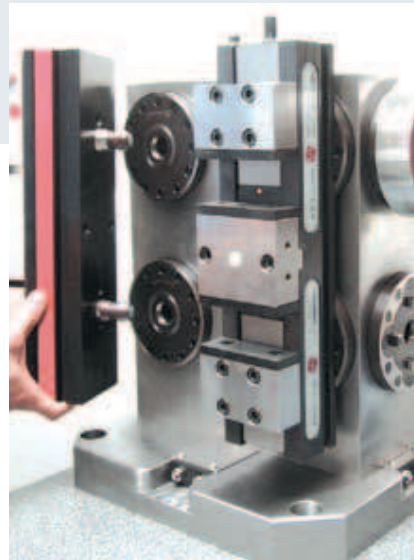
The low profile design of the EROWA MTS leaves a great deal of space for workpieces.



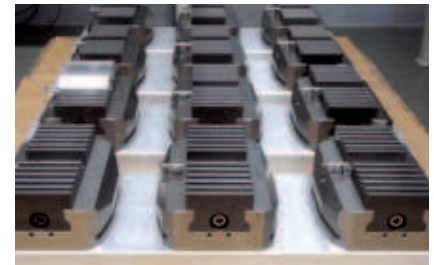
Various jobs can be done on one machine. Express jobs can easily be placed in between. Resetting the clamping equipment only takes a few seconds.



Thanks to the medium duct between chuck and pallet, workpieces may be clamped pneumatically, hydraulically or with a vacuum.



Reputable clamping equipment manufacturers offer vises with integrated EROWA MTS chucking spigots.



Flexible clamping devices. EROWA center clamps on MTS pallet.



Control unit including monitoring, cleaning and reclamping.

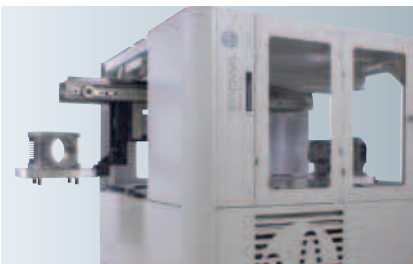


MTS chuck, able to automate. During the workpiece change, the contact surfaces are cleaned automatically.

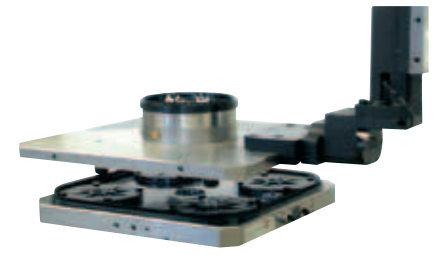


Variable use of tombstones. The MTS system provides an interface to fixtures and vises. Refitting takes no time at all.

MTS



From the manual handling facility to the complex Robot system, EROWA supplies the handling solution you require.



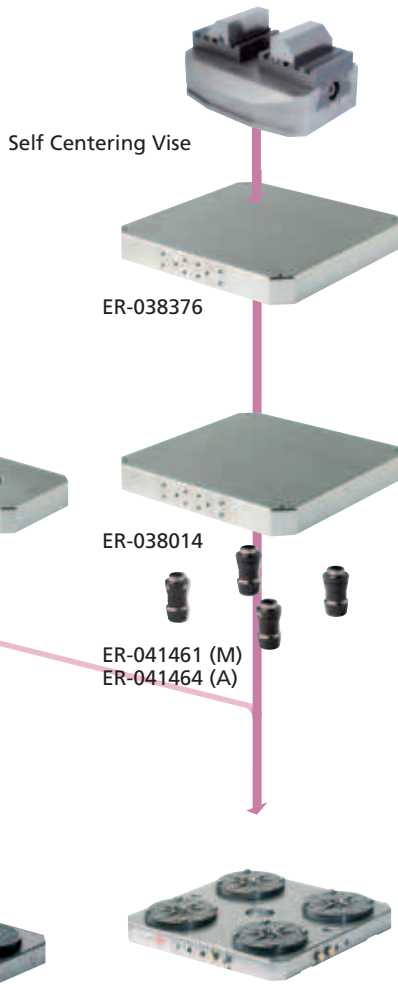
Automatic pallet change in mixed operation with MTS and ITS pallets. Such combinations allow for an optimal use of the tooling system according to part sizes.

EROWA MTS Palletizing system The components

MTS chucks
MTS+ chucks

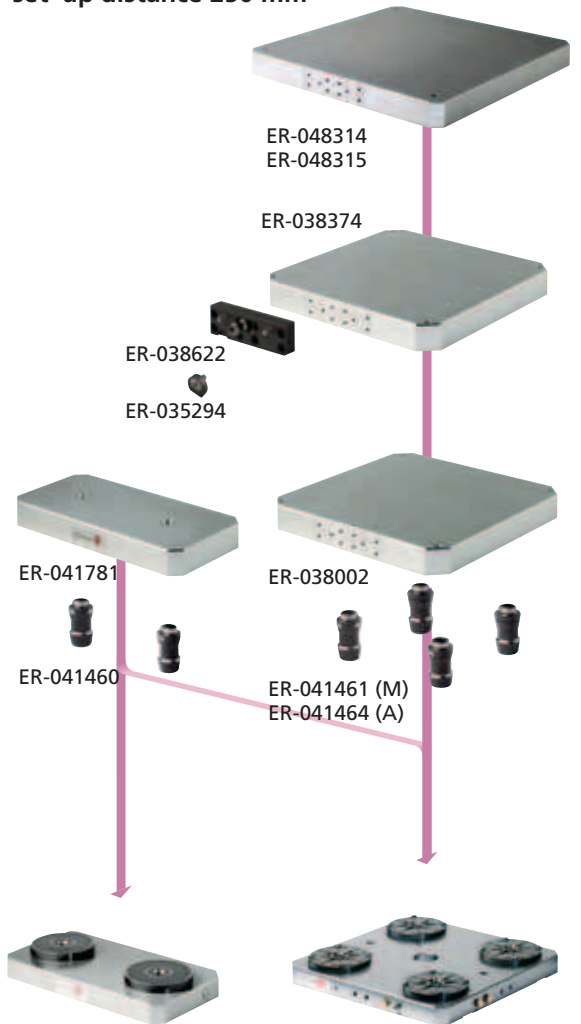
(M) = manual
(A) = automatic

set-up distance 200 mm



ER-038300 (A) / ER-033300 (M)
ER-062456 (A) / ER-062454 (M)

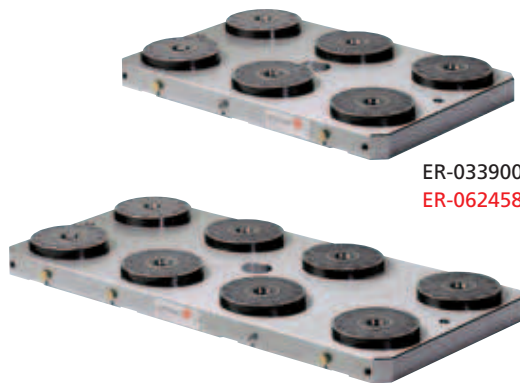
set-up distance 250 mm



ER-038302 (A) / ER-033302 (M)
ER-062457 (A) / ER-062455 (M)



ER-033502 ER-033402 ER-041600
ER-062449 ER-062446 ER-062364



ER-033900
ER-062458

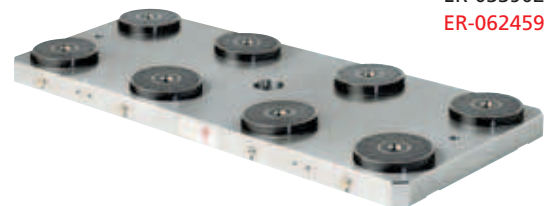
ER-033904
ER-062460



ER-041602
ER-062453



















ER-033902
ER-062459



ER-033906
ER-062461

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 MTS PALLETIZING SYSTEM

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MTS+	integral chucks	18
MTS 81	integral chucks	20
MTS	mounted chucks	22
MTS+	mounted chucks	24
MTS	base plates, 2-fold	26
MTS+	base plates, 2-fold	27
MTS 81	base plates, 2-fold / with cleaning facility, automatable	28
MTS 81	base plates, 2-fold / with cleaning facility, automatable	29
MTS	base plates, 4-fold	30
MTS+	base plates, 4-fold	31
MTS	base plates, 4-fold, with cleaning facility, automatable	32
MTS+	base plates, 4-fold, with cleaning facility, automatable	33
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For chip-removing processes



For EDM sinking



For WEDM

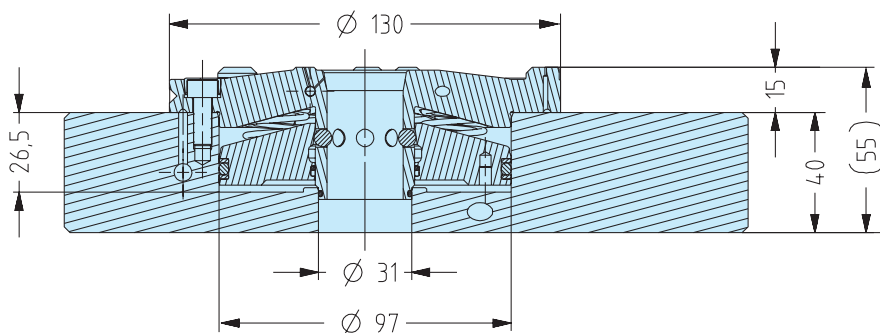
EROWA MTS

Integral chucks

Technical data	MTS integral chucks	
	pneumatic	hydraulic
Repeatability	<0.005 mm	<0.005 mm
Indexation, pallet	4 x 90° (MTS IntegralChuck S)	
Clamping	Spring tension	Spring tension
Opening pressure	min. 7 bar	min. 25 /max. 35 bar
Process monitoring	pneumatic	pneumatic
Clamping power	12,000 N/chuck	20,000 N/chuck

S = Single
M = Multi
A = able to automate
P = pneumatically operated
H = hydraulically operated

Integration variant (applicable to MTS IntegralChucks Single and Multi).
Observe tolerances according to integration instructions!



ER-033402 MTS IntegralChuck S-P

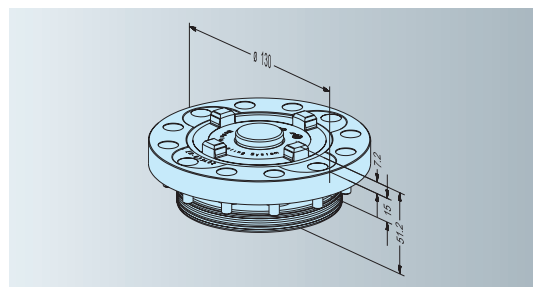
ER-033403 MTS IntegralChuck S-H



Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.

Connections To open: pneumatic or hydraulic.

Application To accommodate single or multiple pallets.



ER-036802 MTS IntegralChuck S-P/A

ER-036803 MTS IntegralChuck S-H/A

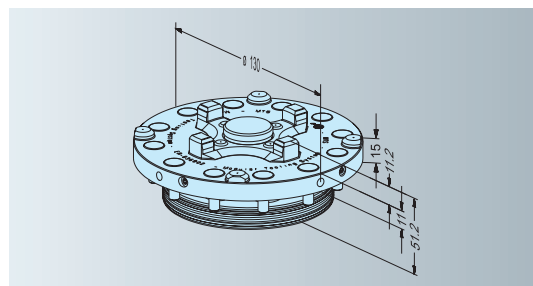


Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.

Connections To open: pneumatic or hydraulic.

To clean: pneumatic.

Application To accommodate single or multiple pallets.



ER-033400 MTS IntegralChuck M-P**ER-033401 MTS IntegralChuck M-H**

Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.

Connections To open: pneumatic or hydraulic.

Application To accommodate multiple pallets.

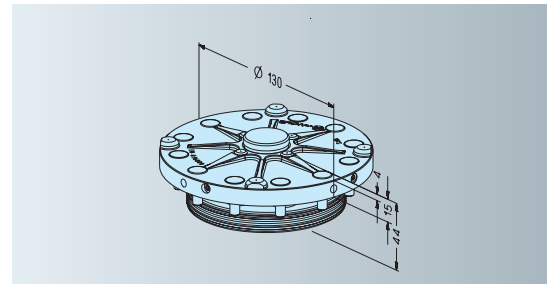
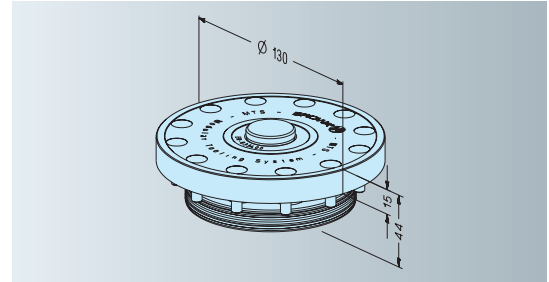
ER-036800 MTS IntegralChuck M-P/A**ER-036801 MTS IntegralChuck M-H/A**

Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.

Connections To open: pneumatic or hydraulic.

To clean: pneumatic.

Application To accommodate single pallets.

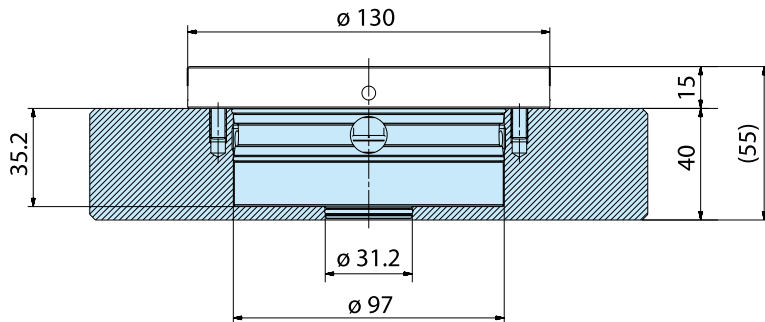


EROWA MTS+ Integral chucks

Technical data	MTS+ integral chucks pneumatic
Repeatability	<0.003 mm
Indexation, pallet	4 x 90° (MTS+ IntegralChuck S)
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	open, closed, clamped
Clamping power with reclamping	up to 18,000 N/chuck

S = Single
M = Multi
A = automatable
P = pneumatically operated

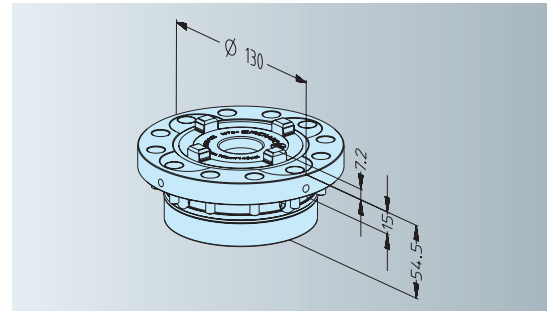
Integration variant (applicable to MTS+ IntegralChucks Single and Multi).
Observe tolerances according to integration instructions!



ER-062446 MTS+ IntegralChuck S-P



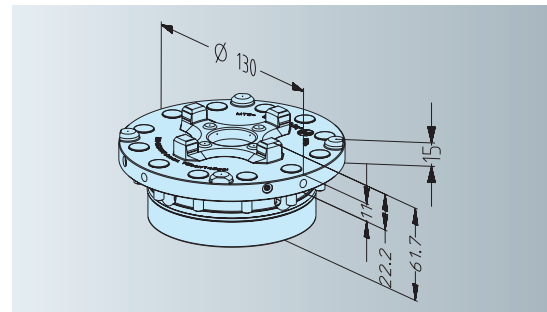
Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.
Connections 2 pneumatic connections: one for opening, and one for monitoring and reclamping.
Application To accommodate single or multiple pallets.



ER-062447 MTS+ IntegralChuck S-P/A

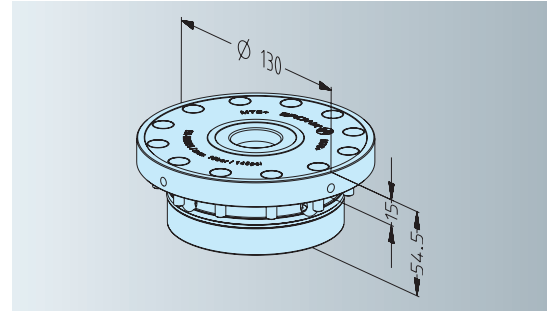


Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.
Connections 2 pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
Application To accommodate single or multiple pallets

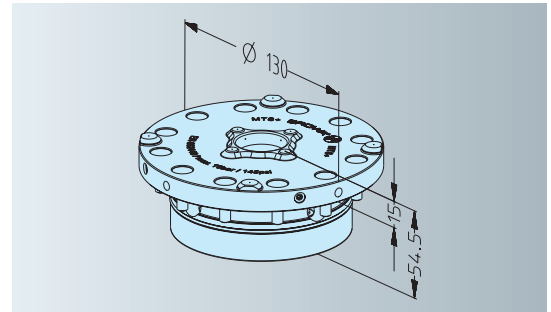


ER-062221 MTS+ IntegralChuck M-P

- Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.
- Connections 2 connections: one for opening, and one for monitoring and reclamping.
- Application To accommodate multiple pallets.

**ER-062448 MTS+ IntegralChuck M-P/A**

- Version For direct integration in machine tables, plates, tombstones, squares or dividing heads.
- Connections 2 pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
- Application To accommodate multiple pallets.

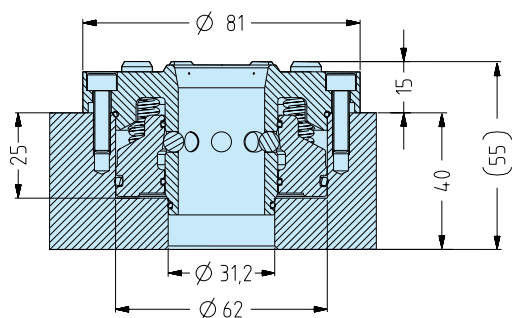


EROWA MTS 81 Integral chucks

Technical data	MTS 81 integral chucks pneumatic
Repeatability	<0.005 mm
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 10,000 N/chuck

M = Multi
A = automatable
P = pneumatically operated

Integration variant applicable to MTS 81 IntegralChucks.
Observe tolerances according to integration instructions!



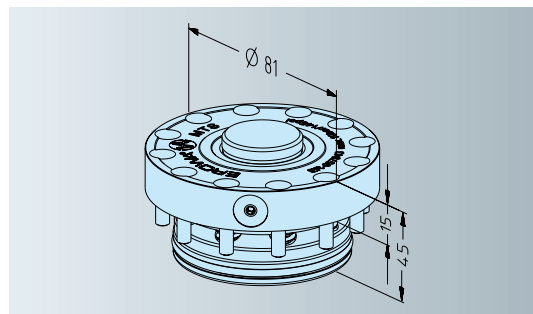
ER-057943 MTS 81 IntegralChuck M-P



Version To be fitted directly to machine tables, plates, tombstones, squares or dividing heads. Suitable for manual loading.

Connections 2 pneumatic connections: one for opening and one for reclamping.

Application To accommodate multiple pallets.



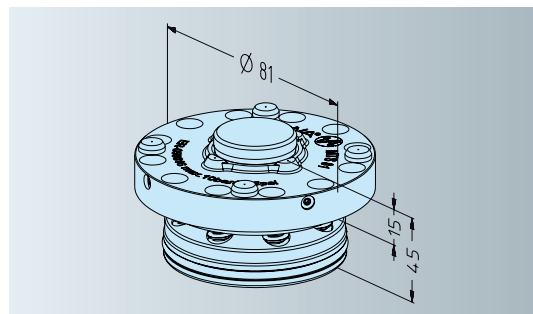
ER-059016 MTS 81 IntegralChuck M-P/A



Version To be fitted directly to machine tables, plates, tombstones, squares or dividing heads. Suitable for automatic loading.

Connections 3 pneumatic connections: one for opening, one for reclamping, and one for presence checks and cleaning.

Application To accommodate multiple pallets.



MTS



EROWA MTS

Mounted chucks

Technical data	MTS mounted chucks pneumatic
Repeatability	<0.005 mm
Indexation, pallet	4 x 90° (MTS Chuck S)
Clamping	Spring power
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	12,000 N/Chuck

S = Single
M = Multi
A = able to automate
P = pneumatically operated

ER-033502 MTS Chuck S-P

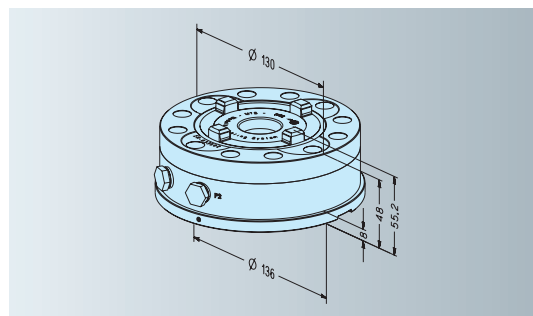


Version For direct mounting on machine tables, plates, tombstones, squares or dividing heads.

Connections Lateral, to open: pneumatic.

Application To accommodate single or multiple pallets.

Accessories Order separately: to fit MTS Chuck, MTS bracket ER-033804 or ER-033805.



ER-035502 MTS Chuck S-P/A

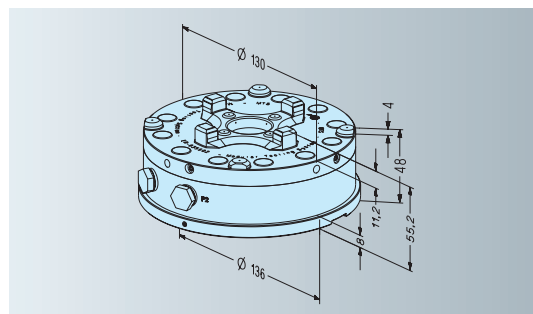


Version For direct mounting on machine tables, plates, tombstones, squares or dividing heads.

Connections Lateral, to open: pneumatic.
Lateral to clean: pneumatic

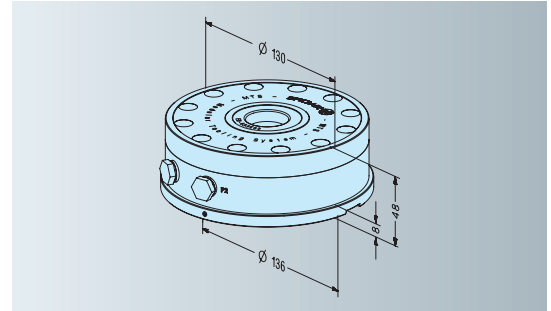
Application To accommodate single or multiple pallets.

Accessories Order separately: to fit MTS Chuck, MTS bracket ER-033804 or ER-033805.

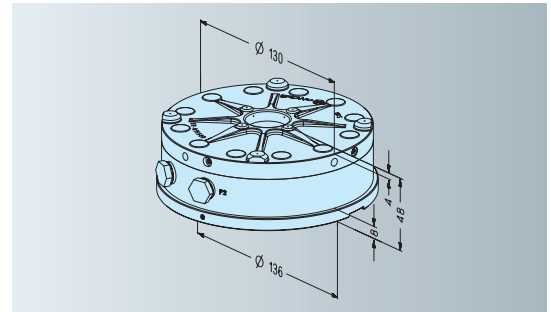


ER-033500 MTS Chuck M-P

- Version For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
- Connections Lateral, to open: pneumatic.
- Application To accommodate single or multiple pallets.
- Accessories Order separately: to fit MTS Chuck, MTS bracket ER-033804 or ER-033805.

**ER-035500 MTS Chuck M-P/A**

- Version For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
- Connections Lateral, to open: pneumatic.
Lateral to clean: pneumatic.
- Application To accommodate single or multiple pallets.
- Accessories Order separately: to fit MTS Chuck, MTS bracket ER-033804 or ER-033805.



EROWA MTS+ Mounted chucks

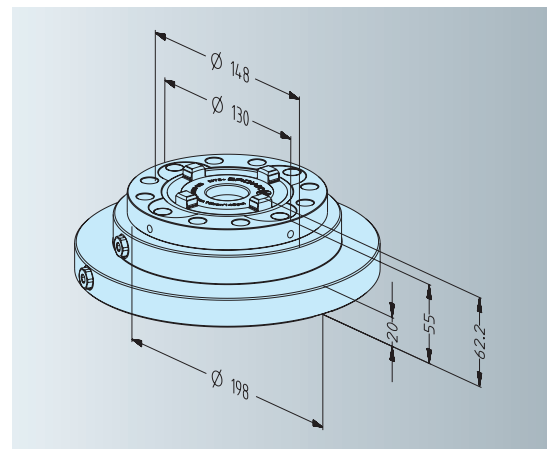
Technical data	MTS+ mounted chucks pneumatic
Repeatability	<0.003 mm
Indexation, pallet	4 x 90° (MTS+ Chuck S)
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	open, closed, clamped
Clamping power with reclamping	up to 18,000 N/chuck

S = Single
M = Multi
A = automatable
P = pneumatically operated

ER-062449 MTS+ Chuck S-P



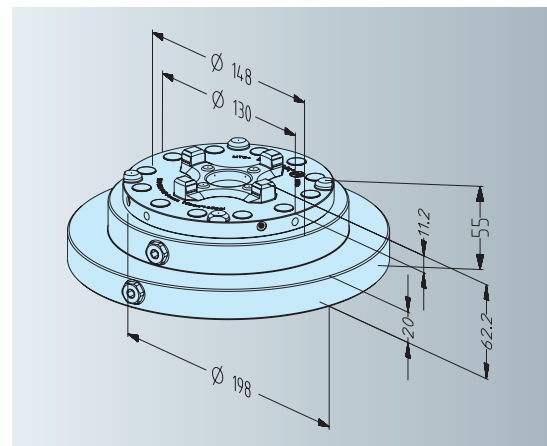
Version	For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
Connections	2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping.
Application	To accommodate single or multiple pallets.



ER-062450 MTS+ Chuck S-P/A

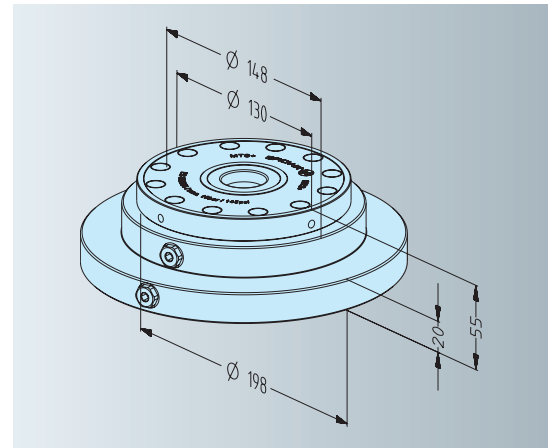


Version	For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
Connections	2 lateral pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
Application	To accommodate single or multiple pallets.

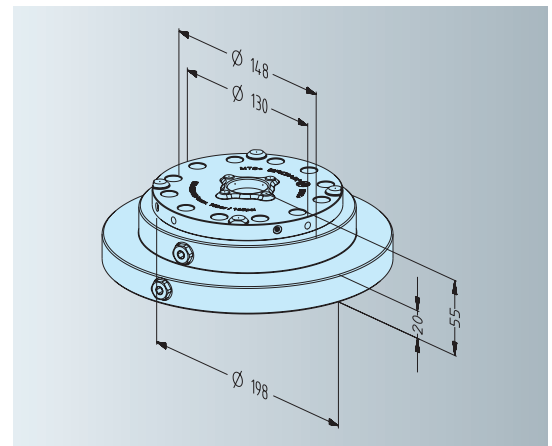


ER-062451 MTS+ Chuck M-P

- Version** For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
- Connections** 2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping.
- Application** To accommodate single or multiple pallets.

**ER-062452 MTS+ Chuck M-P/A**

- Version** For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
- Connections** 2 lateral pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
- Application** To accommodate single or multiple pallets.



EROWA MTS

Base plates, 2-fold

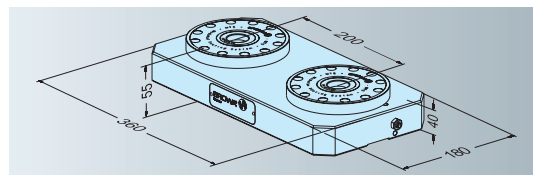
Technical data	MTS base plates, 2-fold pneumatic
Repeatability	<0.005 mm
Indexation, pallet	1 x 180°
Clamping	Spring power
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	24,000 N (2 x 12,000 N)

P = pneumatically operated

ER-041600 MTS base plate 180 x 360 / 200 P



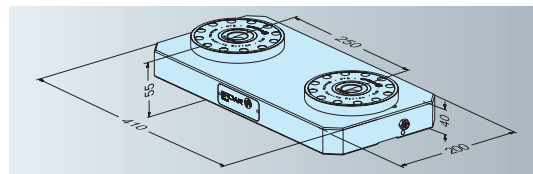
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate double pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



ER-041602 MTS base plate 200 x 410 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate double pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



EROWA MTS+

Base plates, 2-fold

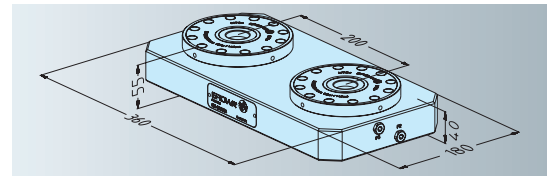
Technical data	MTS+ base plates, 2-fold pneumatic
Repeatability	<0.003 mm
Indexation, pallet	1 x 180°
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 36,000 N (2 x 18,000 N)

P = pneumatically operated

ER-062364 MTS+ base plate 180 x 360 P



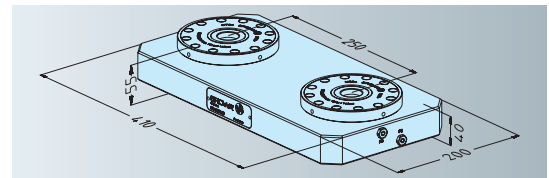
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping.
Application	To accommodate double pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



ER-062453 MTS+ base plate 200 x 410 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping.
Application	To accommodate double pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



EROWA MTS 81

Base plates, 2-fold

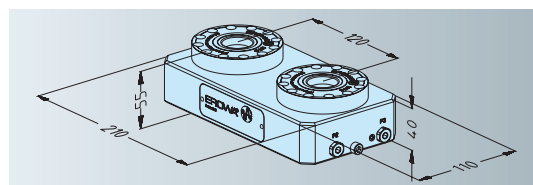
Technical data	MTS 81 Base plates, 2-fold pneumatic
Repeatability	<0.005 mm
Indexation, pallet	1 x 180°
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 20,000 N (2 x 10,000 N)

A = automatable
P = pneumatically operated

ER-063134 MTS 81 base plate 110 x 210 P Pitch 120 mm



Version	Base plate, steel, unhardened; set-up distance 120 mm.
Connections	2 lateral pneumatic connections: one for opening and one for reclamping.
Application	To accommodate double pallets. For direct assembly on machine tables.
Accessories supplied	2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



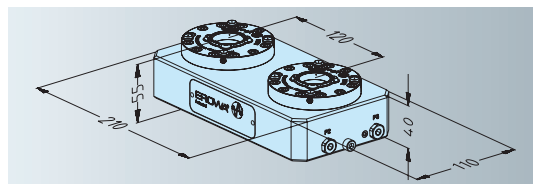
EROWA MTS 81

Base plates, 2-fold with cleaning facility, automatable

ER-063135 MTS 81 base plate 110 x 210 P/A Pitch 120 mm



Version	Base plate, steel, unhardened; set-up distance 120 mm.
Connections	3 lateral pneumatic connections: one for opening and one for reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



EROWA MTS 81

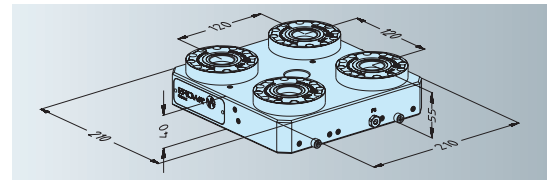
Base plates, 4-fold

Technical data	MTS 81 Base plates, 4-fold pneumatic
Repeatability	<0.005 mm
Indexation, pallet	4 x 90°
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 40,000 N (4 x 10,000 N)

ER-063136 MTS 81 base plate 210 x 210 P Pitch 120 mm



Version	Base plate, steel, unhardened; set-up distance 120 mm.
Connections	2 lateral pneumatic connections: one for opening and one for reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



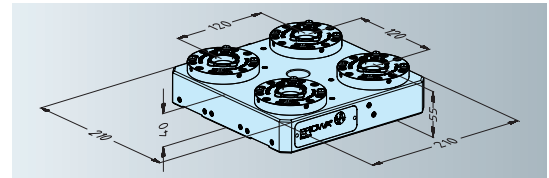
EROWA MTS 81

Base plates, 4-fold with cleaning facility, automatable

ER-063137 MTS 81 base plate 210 x 210 P/A Pitch 120 mm



Version	Base plate, steel, unhardened; set-up distance 120 mm.
Connections	3 lateral pneumatic connections: one for opening, and one for cleaning and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



MTS

EROWA MTS

Base plates, 4-fold

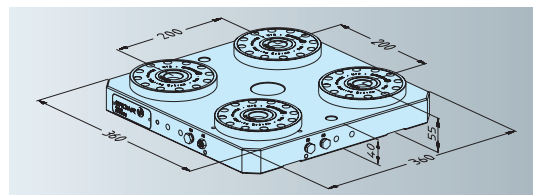
Technical data	MTS base plates, 4-fold pneumatic
Repeatability	<0.005 mm
Clamping	Spring power
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	48,000 N (4 x 12,000 N)

P = pneumatically operated

ER-033300 MTS base plate 360 x 360 P



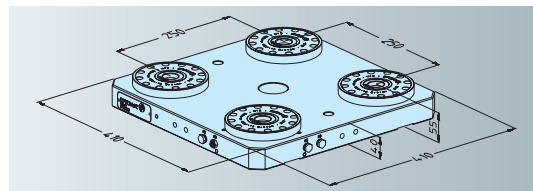
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



ER-033302 MTS base plate 410 x 410 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



EROWA MTS+

Base plates, 4-fold

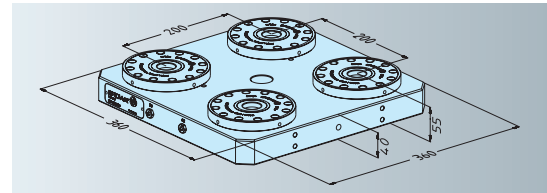
Technical data	MTS+ base plates, 4-fold pneumatic
Repeatability	<0.003 mm
Indexation, pallet	4 x 90°
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 72,000 N (4 x 18,000 N)

P = pneumatically operated

ER-062454 MTS+ base plate 360 x 360 P



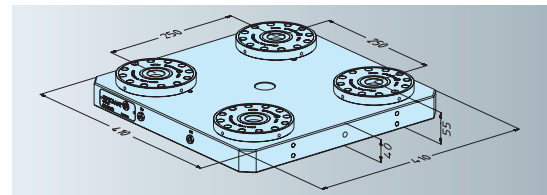
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



ER-062455 MTS+ base plate 410 x 410 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



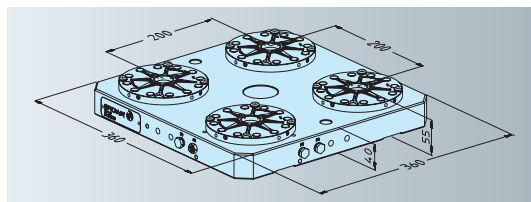
EROWA MTS

Base plates, 4-fold, with cleaning facility, automatable

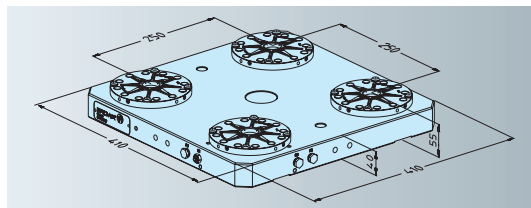
Technical data	MTS base plates, 4-fold, with cleaning facility, automatable pneumatic	P = pneumatically operated
Repeatability	<0.005 mm	
Clamping	Spring tension	
Opening pressure	min. 7 bar	
Process monitoring	pneumatic	
Clamping power	48,000 N (4 x 12,000 N)	

ER-038300 MTS base plate 360 x 360 P/A


Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	Lateral, to open: pneumatic. Lateral to clean: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	for ER-038300: 1 x ER-036672, 2 x ER-014326.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.


ER-038302 MTS base plate 410 x 410 P/A


Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	Lateral, to open: pneumatic. Lateral to clean: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	for ER-038302: 1 x ER-036672, 2 x ER-014326.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



EROWA MTS+

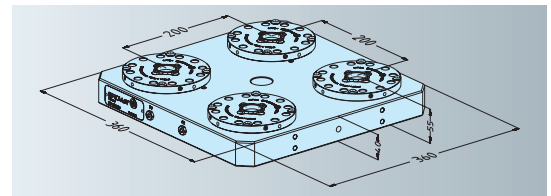
Base plates, 4-fold, with cleaning facility, automatable

Technical data	MTS+ base plates, 4-fold, with cleaning facility, automatable pneumatic	P = pneumatically operated A = automatable
Repeatability	<0.003 mm	
Clamping	Spring tension	
Opening pressure	min. 8.5 bar	
Process monitoring	pneumatic	
Clamping power with reclamping	up to 72,000 N (4 x 18,000 N)	

ER-062456 MTS+ base plate 360 x 360 P/A



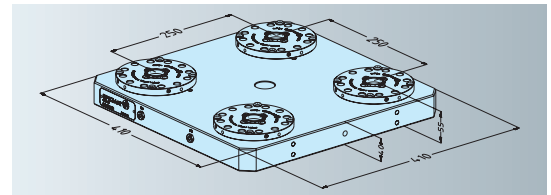
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	2 lateral pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



ER-062457 MTS+ base plate 410 x 410 P/A



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	2 lateral pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please obtain operating instructions from your specialist EROWA dealer.



EROWA MTS

Base plates, 6-fold

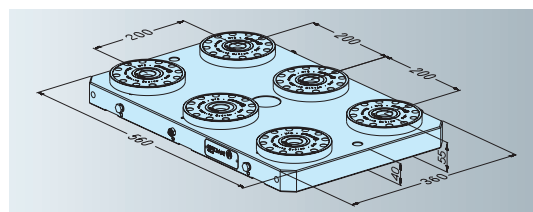
Technical data	MTS base plates, 6-fold pneumatic
Repeatability	<0.005 mm
Clamping	Spring tension
Opening pressure	min. 7 bar
Clamping power	72,000 N (6 x 12,000 N)

P = pneumatically operated

ER-033900 MTS base plate 360 x 560 P



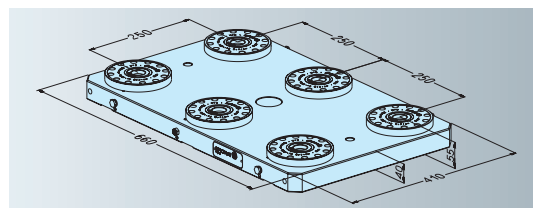
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



ER-033902 MTS base plate 410 x 660 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



EROWA MTS+

Base plates, 6-fold

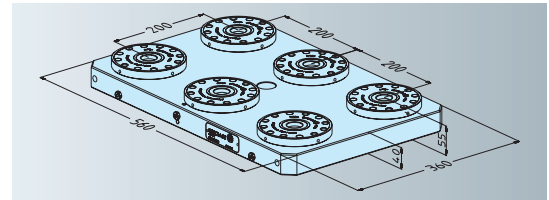
Technical data	MTS+ base plates, 6-fold pneumatic
Repeatability	<0.003 mm
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 108,000 N (6 x 18,000 N)

P = pneumatically operated

ER-062458 MTS+ base plate 360 x 560 P



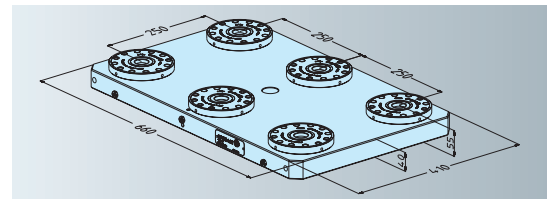
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	Lateral pneumatic connections: for opening, monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



ER-062459 MTS+ base plate 410 x 660 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	lateral pneumatic connections: for opening, monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



EROWA MTS

Base plates, 8-fold

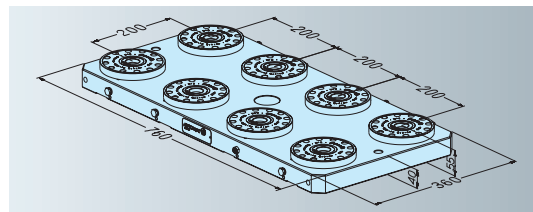
Technical data	MTS base plates, 8-fold pneumatic
Repeatability	<0.005 mm
Clamping	Spring power
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	96,000 N (8 x 12,000 N)

P = pneumatically operated

ER-033904 MTS base plate 360 x 760 P



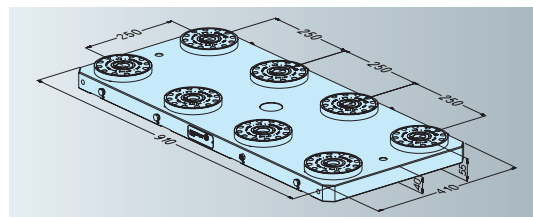
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts!



ER-033906 MTS base plate 410 x 910 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	Lateral, to open: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	1 x ER-036672.
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your EROWA dealer.



EROWA MTS+

Base plates, 8-fold

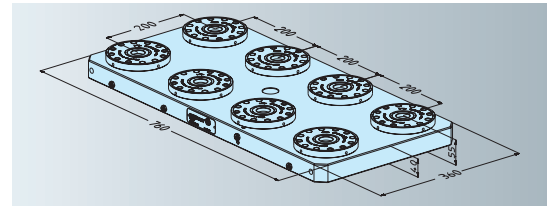
Technical data	MTS+ base plates, 8-fold pneumatic
Repeatability	<0.003 mm
Clamping	Spring tension
Opening pressure	min. 8.5 bar
Process monitoring	pneumatic
Clamping power with reclamping	up to 144,000 N (8 x 18,000 N)

P = pneumatically operated

ER-062460 MTS+ base plate 360 x 760 P



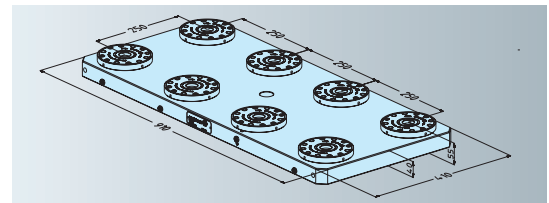
Version	Base plate, steel, unhardened; set-up distance 200 mm.
Connections	lateral pneumatic connections: for opening, monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



ER-062461 MTS+ base plate 410 x 910 P



Version	Base plate, steel, unhardened; set-up distance 250 mm.
Connections	lateral pneumatic connections: for opening, for monitoring and reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories	Supplied: 2 x ER-014326 threaded connector, straight, \varnothing 6 2 x ER-002675 plugs, \varnothing 6 1 x ER-014324 threaded connector, straight, \varnothing 4 1 x ER-002673 plug, \varnothing 4 Optional: 1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling
Note	Attachment boreholes can be drilled by customers.
Caution	Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.

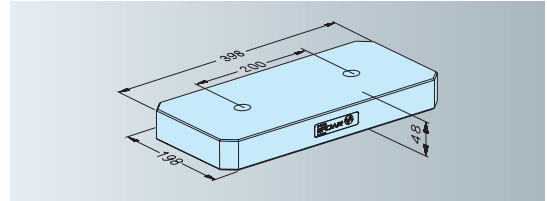


EROWA MTS Pallets

ER-033703 MTS pallet 198 x 398 / 200



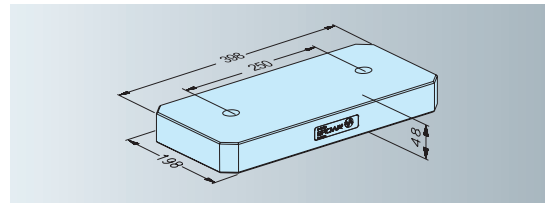
Version Aluminum pallet, 2-fold, excluding chucking spigot (MTS chucking spigot set ER-041460).
 Application To clamp workpieces, vises and gauges.
 Accessories ER-041460 to be ordered separately.



ER-041781 MTS pallet 198 x 398 / 250



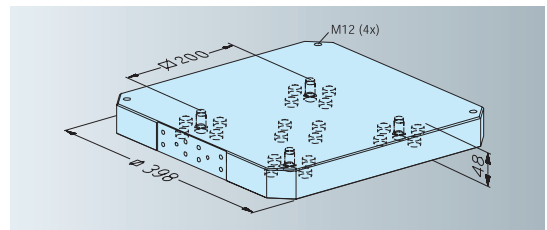
Version Aluminum pallet, 2-fold, excluding chucking spigot (MTS chucking spigot set ER-041460).
 Application To clamp workpieces, vises and gauges.
 Accessories ER-041460 to be ordered separately.



ER-038014 MTS pallet 398 x 398 / 200



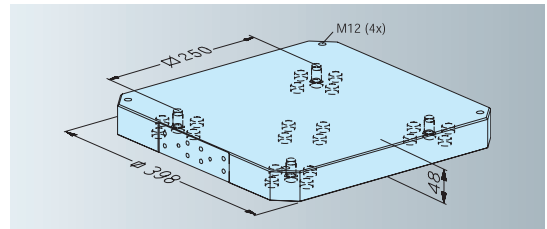
Version Cast aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).
 Application To clamp workpieces, vises and gauges.
 Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.



ER-038002 MTS pallet 398 x 398 / 250



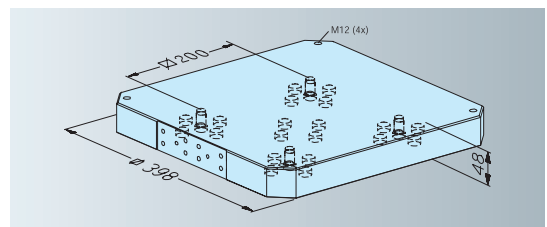
Version Cast aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).
 Application To clamp workpieces, vises and gauges.
 Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.

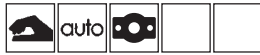


ER-038376 MTS pallet 398 x 398 / 200 Hard Z support



Version Aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).
 Application To clamp workpieces, vises and gauges.
 Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.

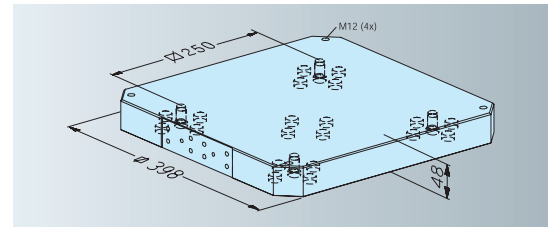


**ER-038374 MTS pallet 398 x 398 / 250
Hard Z support**

Version Aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).

Application To clamp workpieces, vises and gauges.

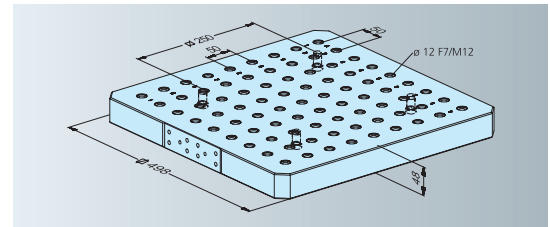
Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.

**ER-044906 MTS Pallet 498 x 498/250 R50**

Version Cast aluminum pallet (hard anodized), 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).

Application To clamp workpieces, vises and gauges.

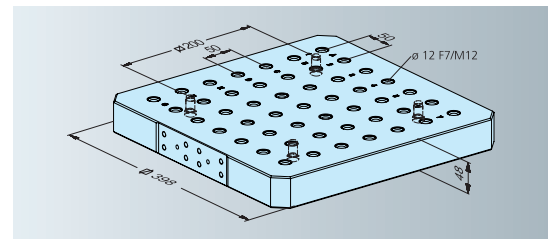
Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.

**ER-058819 MTS Pallet 398 x 398/200 R50**

Version Cast aluminum pallet (hard anodized), 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).

Application To clamp workpieces, vises and gauges.

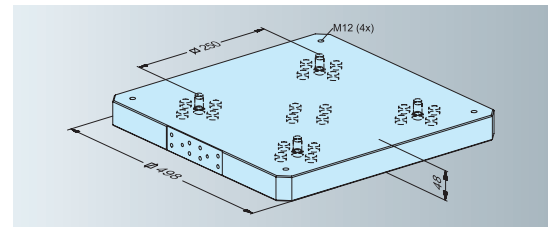
Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.

**ER-048314 MTS Pallet 498 x 498 / 250**

Version Cast aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).

Application To clamp workpieces, vises and gauges.

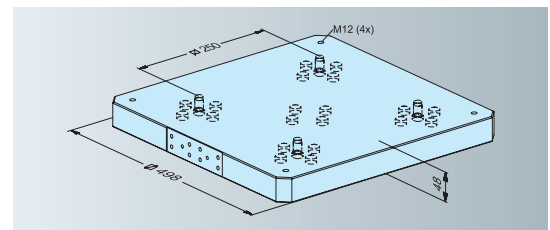
Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.

**ER-048315 MTS Pallet 498 x 498 / 250
Hard Z support**

Version Cast aluminum pallet, 4-fold, excluding chucking spigot (MTS chucking spigot set ER-041461 (M) / ER-041464 (A)).

Application To clamp workpieces, vises and gauges.

Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.



EROWA MTS / MTS 81 Pallets

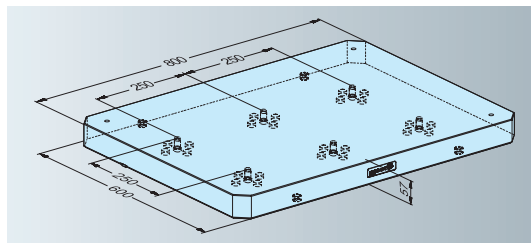
ER-054981 MTS pallet 600 x 800 x 57 / 250 hard Z support



Version Cast aluminum pallet, 6-fold, excluding chucking spigot (MTS chucking spigot set ER-054710(A), ER-041462 (M)).

Application To clamp workpieces, vises and gauges, for chip-cutting operations

Accessories To be ordered separately ER-054710(A), ER-041462 (M).



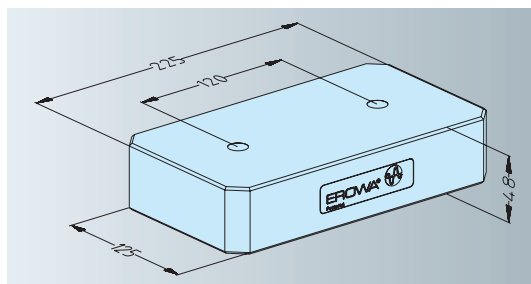
ER-063138 MTS 81 pallet 125 x 225 / 120 Hard Z support 2-fold



Version Aluminum pallet, double, excluding chucking spigots (MTS chucking spigot set ER-041460). Hard Z-supports.

Application To clamp workpieces, vises and gauges.

Accessories ER-041460 to be ordered separately.



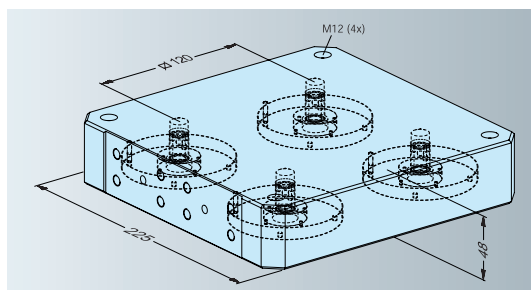
ER-065209 MTS 81 pallet 225 x 225 / 120 4-fold, hard Z support



Version Aluminum pallet, 4-fold, excluding chucking spigots (MTS chucking spigot set ER-041461 (M) / ER-041464 (A). Hard Z-supports.

Application To clamp workpieces, vises and gauges.

Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.



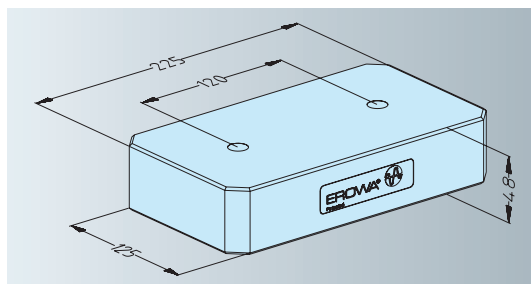
ER-063139 MTS 81 pallet 125 x 225 / 120 2-fold



Version Aluminum pallet, double, excluding chucking spigots (MTS chucking spigot set ER-041460). Hard Z-supports.

Application To clamp workpieces, vises and gauges.

Accessories ER-041460 to be ordered separately.



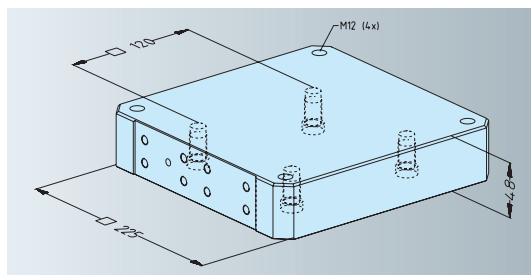
ER-063140 MTS 81 pallet 225 x 225 / 120 4-fold



Version Aluminum pallet, 4-fold, excluding chucking spigots (MTS chucking spigot set ER-041461 (M) / ER-041464 (A). Hard Z-supports.

Application To clamp workpieces, vises and gauges.

Accessories ER-041461 (M) / ER-041464 (A) to be ordered separately.



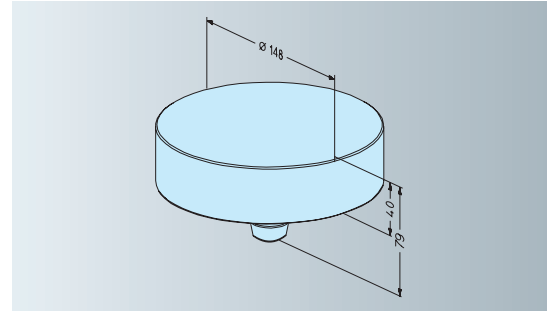
EROWA MTS

Single pallets

ER-033602 MTS pallet P ø 148 Alu



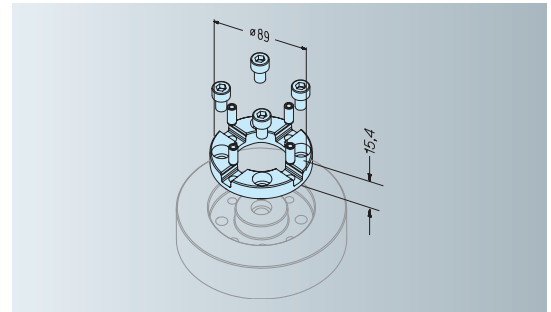
- Version Aluminum pallet, fitted with centering plate ER-033600, including chucking spigot ER-039200.
- Application To clamp workpieces and gauges. For manual handling.



ER-033600 MTS centering plate P



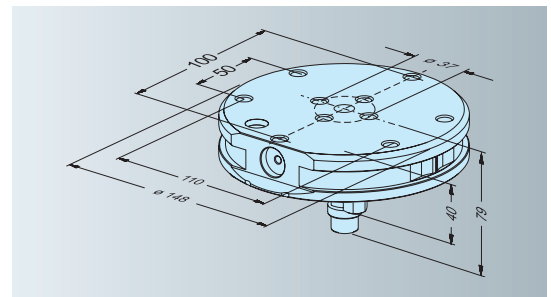
- Version Steel, including attachment bolts and positioning pins.
- Application For the production of customized and indexable MTS pallets.
- Accessories Chucking spigot ER-039200 to be ordered separately.



ER-041928 MTS pallet P ø 148 Inox



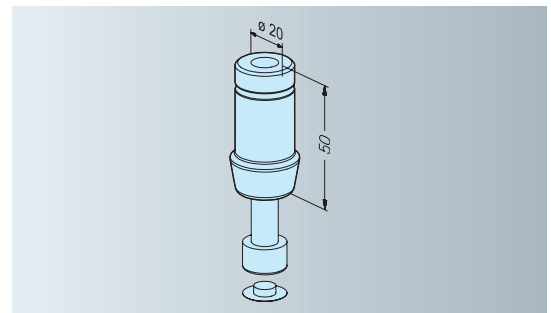
- Version Steel pallet, not hardened, including chucking spigot ER-040999. Centering segment integrated in the pallet body.
- Application To clamp workpieces and gauges. For manual handling and automatic operation.
- Note Compatible with EROWA PC210 CombiChuck and Power-Chuck P (ITS chucking spigot ER-010742 required).



ER-040999 MTS chucking spigot P



- Version One chucking spigot, including attachment bolt and protective cap.
- Application For the conversion of ITS pallet ø 148 ER-041912 into MTS pallet P ø 148 ER-041928.



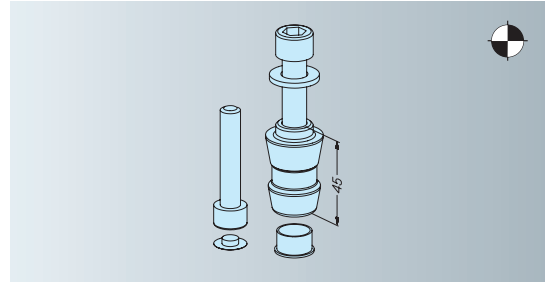
EROWA MTS

Chucking spigots

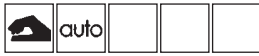
ER-033800 MTS centering spigot



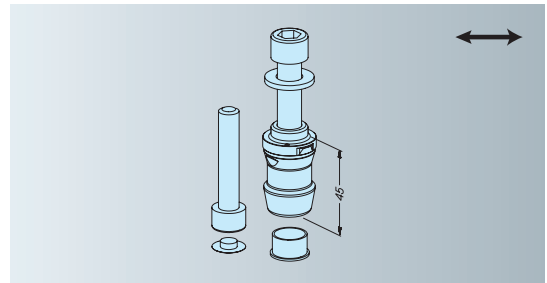
Version One chucking spigot with centering function (without play), including attachment bolts (M10x50, M12x55), U-disc and protective caps.



ER-039201 MTS compensation spigot / A



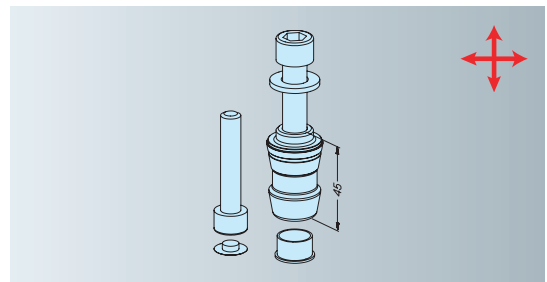
Version One chucking spigot with compensation function, including attachment bolts (M10x50, M12x55), U-disc and protective caps.



ER-039200 MTS chucking spigot / A



Version One chucking spigot without centering (centering play 0.1mm), including attachment bolts (M10x50, M12x55), U-disc and protective caps.

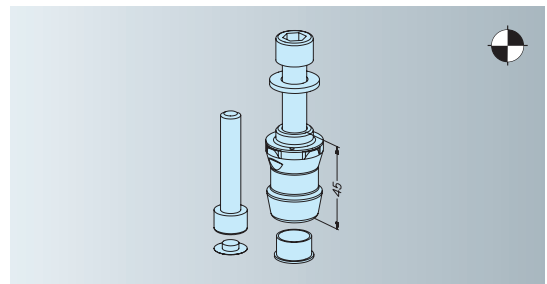


ER-038000 MTS centering spigot / A



Version One chucking spigot with centering function, including attachment bolts (M10x50, M12x55), U-disc, O-ring and protective caps.

Application For MTS pallets which are loaded/unloaded automatically. The centering spigot defines the datum point without play and closes the cleaning boreholes in the MTS Chucks / A.



ER-033800 MTS centering spigot
ER-038000 MTS centering spigot / A
The centering spigot defines the datum point (free of play).

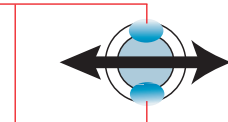


ER-039200 MTS chucking spigot / A
(centering play 0.1 mm).



ER-039201 MTS compensation spigot / A
The compensation spigot positions the pallet in one axis only (X or Y) and is capable of compensating for a maximum set-up distance difference of 0.1 mm.

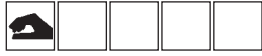
Centering surfaces



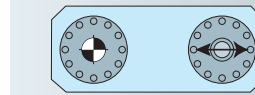
EROWA MTS

Chucking spigot set

ER-041460 MTS chucking spigot set 2



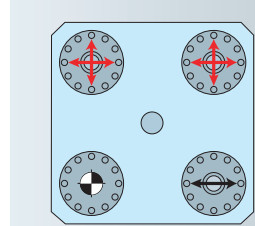
Version 1 centering spigot, 1 compensation spigot / A.
 Mounting With the bolts supplied through the pallet or through the chucking spigot.



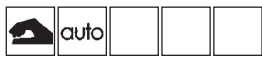
ER-041461 MTS chucking spigot set 4



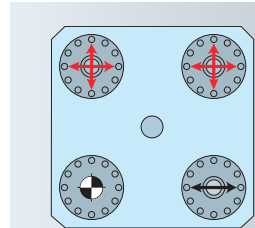
Version 1 centering spigot, 1 compensation spigot / A,
 2 chucking spigots / A.
 Mounting With the bolts supplied through the pallet or through the chucking spigot.



ER-041464 MTS chucking spigot set 4 / A



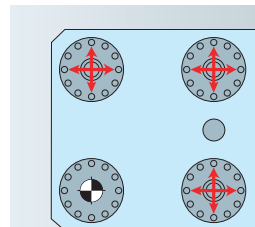
Version 1 centering spigot / A, 1 compensation spigot / A,
 2 chucking spigots / A.
 Mounting With the bolts supplied through the pallet or through the chucking spigot.



ER-041462 MTS chucking spigot set 6



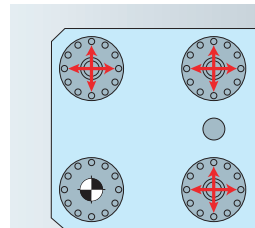
Version 1 centering spigot, 1 compensation spigot / A,
 4 chucking spigots / A.
 Mounting With the bolts supplied through the pallet or through the chucking spigot.



ER-054710 MTS Chucking spigot set 6/A



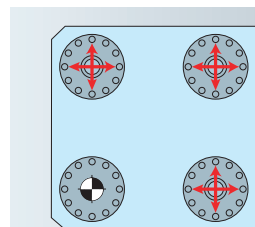
Version 1 centering spigot / A, 1 compensation spigot / A,
 4 chucking spigots / A.
 Mounting With the bolts supplied through the pallet or through the chucking spigot.



ER-041463 MTS chucking spigot set 8



Version 1 centering spigot, 1 compensation spigot / A,
 6 chucking spigots / A.
 Mounting With the bolts supplied through the pallet or through the chucking spigot.



MTS

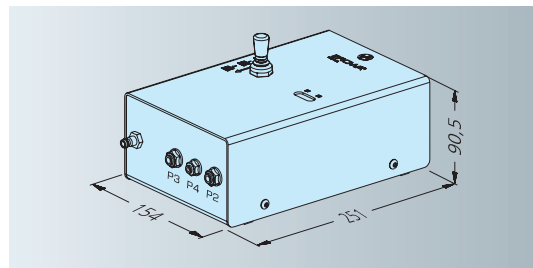
EROWA MTS

Operation

ER-025893 Manual control unit with booster



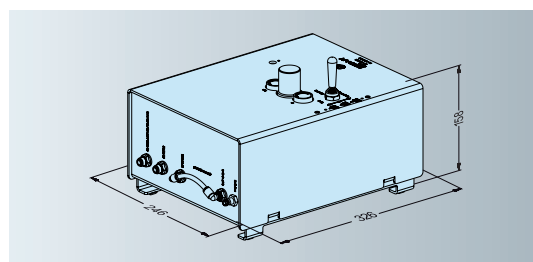
- Version Manual valve to control the EROWA chucks:
Opening/Reclamping/Cleaning.
- Application Operation of: EROWA ITS Compact Combi Chuck, ITS,
UPC, MTS, PC 210 chucks and PowerChuck P.
- Note Integrated booster with load ratio 1:2 (up to output
pressure of 10 bar max.).



ER-064006 MTS+ Manual control unit monitored with booster



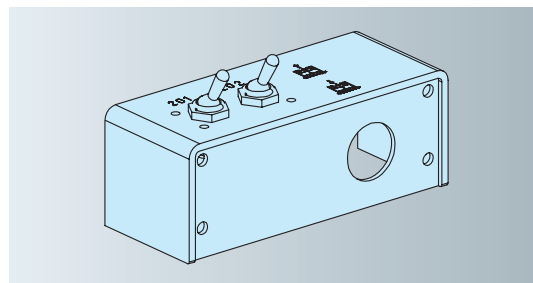
- Version Manual valve to control the MTS+ chucks:
Opening/Reclamping/Cleaning/Monitoring.
LED status displays for up to 8 chuck at the same time.
- Application Operation of MTS+ chucks.
- Note Integrated booster with load ratio 1:2 (up to output
pressure of 10 bar max.).



ER-039466 Additional valve double



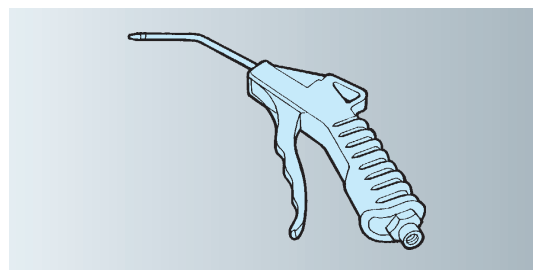
- Version For mounting to the manual control units ER-008988 and
ER-025893, incl. set of hoses.
- Application Operating of two separate chucks with one single control
unit.



ER-001846 Air jet

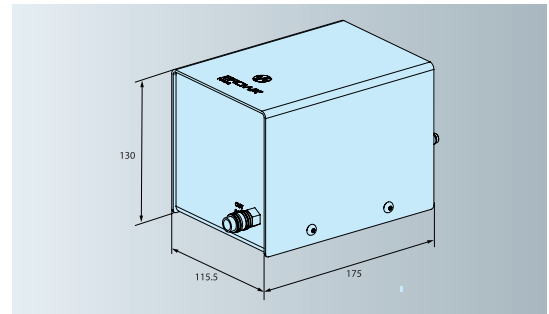


- Version Plastic, smooth regulation of air flow, connection
1/4", inside thread.
- Application Operation of manual chucks.
- Note Not suitable for operating MTS+ and MTS81.

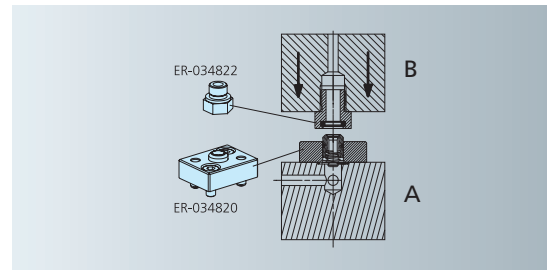


ER-074893 Pressure booster

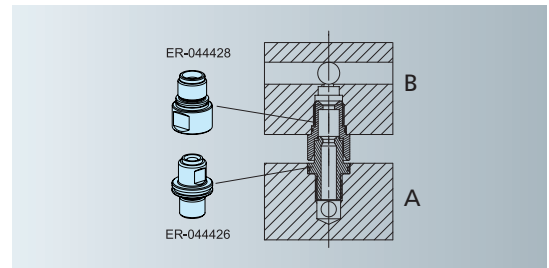
Version	Quick-connect couplings for hose $\varnothing i = 8$ mm. Compression ratio: 1:2.
Application	On insufficient system pressure and on pressure fluctuations.
Installation	Integrate in air circuit near application.

**ER-034820 MTS air coupling****ER-034822 MTS air coupling pallet
1 piece**

Application	The MTS air coupling ER-034820 combined with the MTS air coupling ER-034822 serves as a pneumatic interface between MTS base plates (A) and MTS pallets (B).
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**ER-044426 Nipple for MTS base plates****ER-044428 Coupling for MTS pallets**

Application	The coupling for MTS pallets ER-044428, in combination with the nipple for MTS base plates ER-044426, serves as an interface for the medium connection between MTS base plates (A) and MTS pallets (B).
For use	with compressed air with vacuum



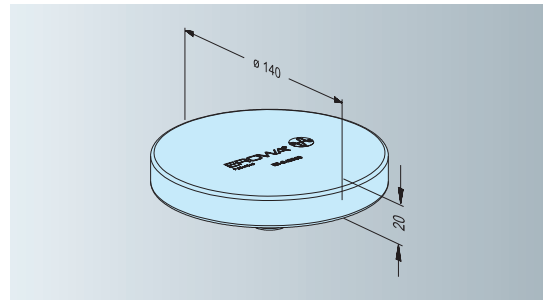
EROWA MTS

Accessories

ER-042038 MTS cover

Version Aluminum cover, anodized. Suitable for MTS and MTS+ chucks.

Application Protects MTS and MTS+ chucks that are not in use from chips and coolant.

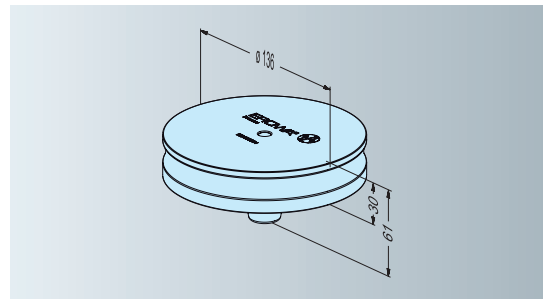


ER-070064 MTS+ Sealing pallet ø 136



Version Rust-resistant cover for the hermetical sealing of MTS+ chucks that are not in use.

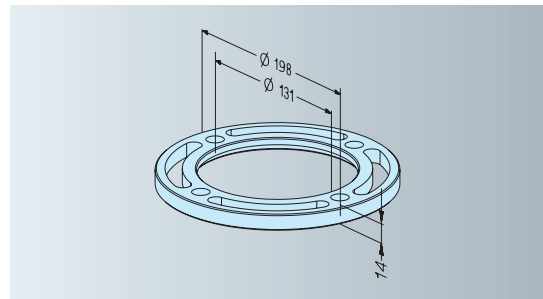
Note Support surface must be clean and must be protected against damage.



ER-033804 MTS ring bracket

Version Bracket made of steel, excluding attachment bolts.

Application Suitable for MTS chucks only. To attach mounted MTS chucks to the machine table.

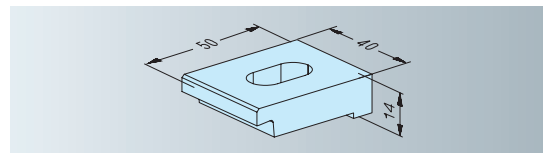


ER-033805 MTS bracket 1 piece

Version Bracket made of steel, excluding attachment bolt.

Application To attach MTS chucks onto the machine table.

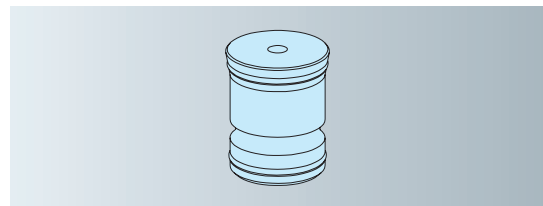
Note Four brackets are necessary per MTS chuck.



ER-037967 MTS sealing plug

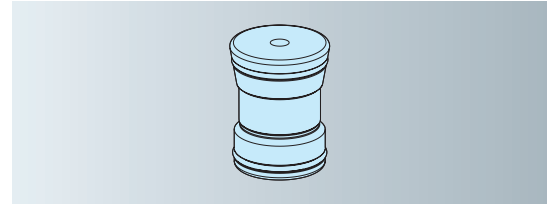
Version Steel.

Application To plug the central borehole in MTS and MTS 81 chucks.

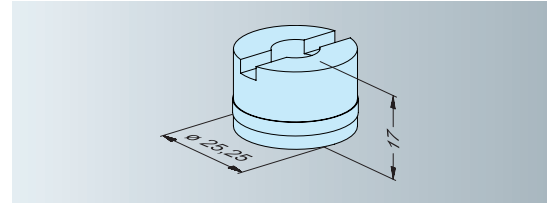


ER-073168 MTS+ stopper

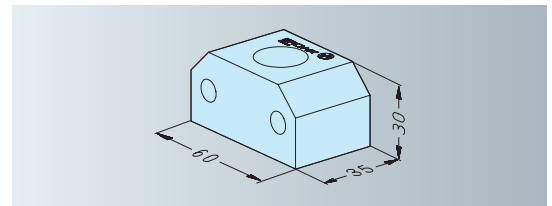
Version Steel.
Application To plug the central borehole in all the MTS+ chucks.

**ER-067563 Rubber seal MTS \varnothing 25.25 x 17 for EDM**

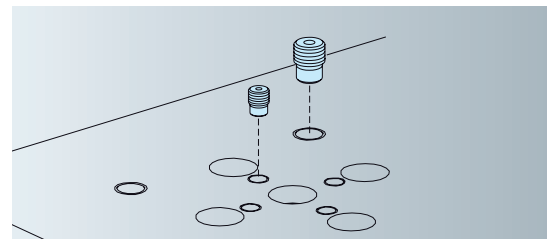
Version Rubber seal
Note Assembly according to operating instructions. Prevents liquid from penetrating from below.

**ER-034168 MTS Connector block 1/8" double**

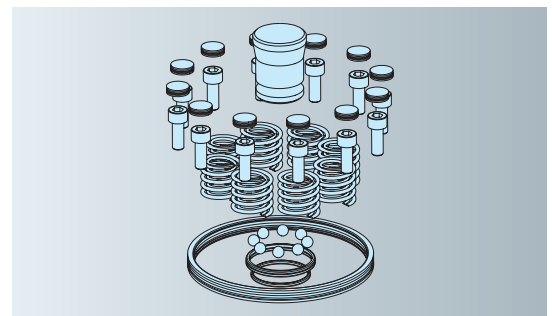
Version Connector block made of steel, excluding attachment bolts.
Application To receive pneumatic and hydraulic threaded connectors, nipples and couplings.

**ER-060391 MTS Set Z-support bolt set for 4-part pallet**

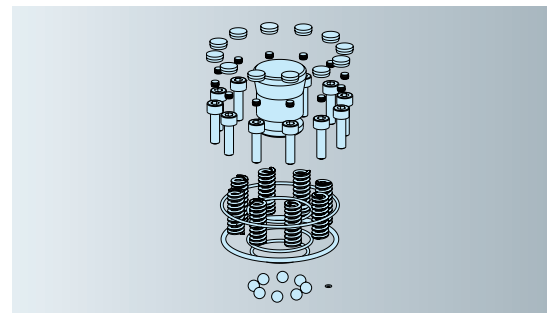
Version Steel, hardened
Application The Z-support bolts serve as Z-support surface for customized MTS pallets.

**ER-034382 MTS repair set pneumatic**

Version All the wearing parts for pneumatic MTS chucks.
Application As a repair set or for the conversion of hydraulic MTS chucks into pneumatic ones.
Note Repair or conversion according to instruction manual supplied.

**ER-061558 MTS 81 Repair Kit**

Application Repair Kit
Version All the wearing parts for MTS IntegralChuck \varnothing 81 M-P (ER-057943) and MTS IntegralChuck \varnothing 81 M-P/A (ER-059016).



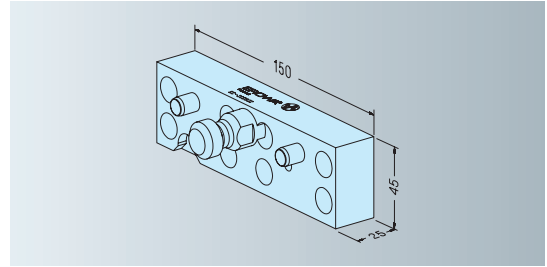
EROWA MTS

Accessories

ER-038622 MTS GripperLink Rapid



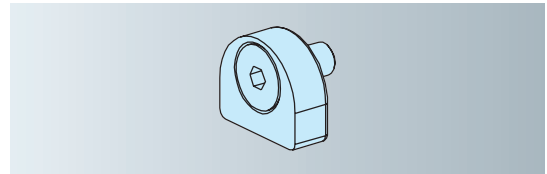
Version Coupling for MTS pallets, mounting accessories included.
Application Suited for MTS pallets to be used on EROWA handling devices with the RCS coupling system.



ER-035294 EWIS™ Rapid chip with chip holder RCS with chip $\varnothing 12,4 \times 2$ mm



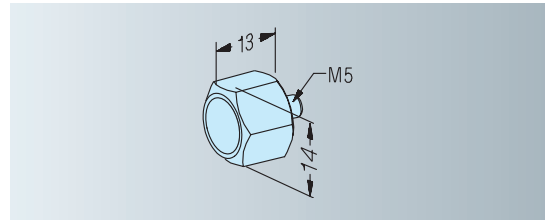
Version Holder with built-in datacarrier.
EWIS chip: read only.
Application To build into RCS coupling, PalletSet W holder and Basic WEDM holder.



ER-035154 EWIS™ Rapid chip with chip holder SW14 with chip $\varnothing 12,4 \times 2$ mm



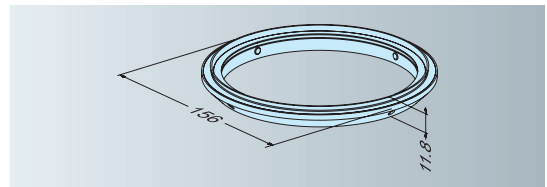
Version Sleeve fitting with built-in datacarrier.
EWIS Rapid chip: read only.
Application In any EROWA electrode holder and pallet which has been prepared for it.



ER-048478 MTS Chip guard low



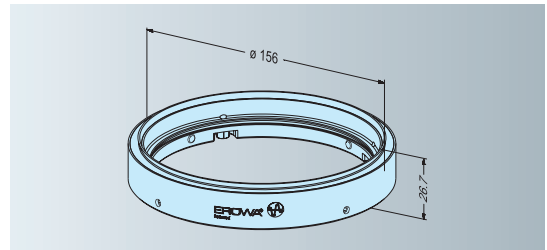
Version Aluminum, anodized
Application The MTS chip guard serves to seal the automatic MTS chucks and base plates when MTS pallets are used.
Note The MTS chip guard low cannot be combined with the MTS pallet P $\varnothing 148$ Inox, ER-041928.



ER-056879 MTS Chip guard $\varnothing 156$ with axial deaeration

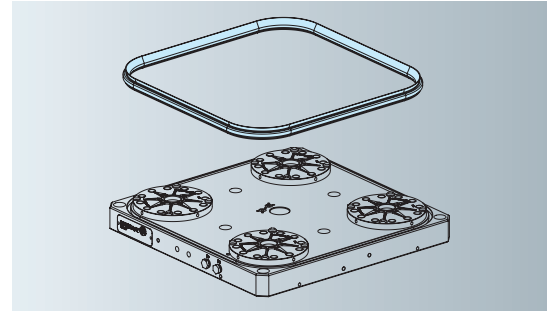


Application For use with MTS pallet P $\varnothing 148$.
Prevents dirt and chips from penetrating into the MTS SingleChuck

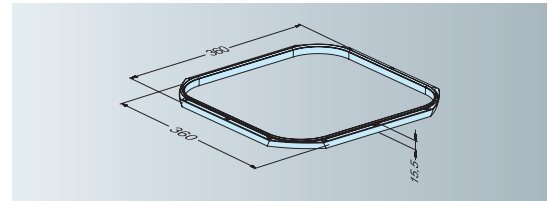


**ER-071604 MTS seal
MTS base plate 410 x 410 mm**

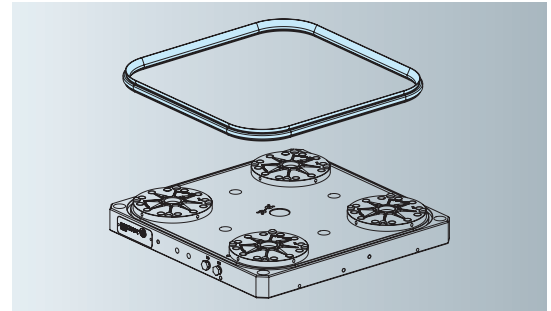
Version FPM (Viton)
Application Prevents dirt from penetrating into MTS base plates 410 x 410 with the use of EROWA MTS pallets 398 x 398 / 250 and 498 x 498 / 250.

**ER-049041 MTS seal frame set / 200**

Version Aluminum anodized, with seal FPM (Viton).
Application The MTS seal frame set serves to protect MTS chucks against dirt and liquids when in use with an EROWA MTS pallet.

**ER-075393 MTS Flushing seal / 200**

Version FPM (Viton).
Application Prevents dirt from penetrating into MTS base plates 360 x 360 in combination with MTS pallets 398 x 398 / 200.
Note The MTS base plate must have, or be equipped with, the groove (A) to accommodate the seal.



EROWA MTS

Accessories

ER-014326 Straight threaded connector

Application Pneumatic.



ER-002814 Angled connector

Application Pneumatic.



ER-014366 Threaded T-connector

Application Pneumatic.



ER-014333 T-connector

Application Pneumatic.



ER-034095 Cross-connector

Application Pneumatic.



ER-002023 Tube ø 6/4 black

Application Pneumatic. Max. operating pressure: 9 bar.
Order unit Meter.



ER-036672 MTS air jet valve

Application Pneumatic. For air jet ER-001846.



ER-002147 Reinforced pipe PMAFlex Co-Flex divisible

Application Hydraulic and pneumatic. Protects tubes ER-033495 and ER-002023 from damage.

Order units Meter.



ER-034098 Reduction nipple G1/4" - G 1/8"

Application Hydraulic and pneumatic.

**ER-034372 Reduction bushing IG1/8" - IG 1/4"**

Application Hydraulic and pneumatic.

**ER-034373 Reduction bushing IG 1/8" - IG 1/8"**

Application Hydraulic and pneumatic.

**ER-034375 Reduction nipple AG 1/4" - IG 1/8"**

Application Hydraulic and pneumatic.

**ER-001617 Threaded plug 1/8"**

Application Hydraulic and pneumatic.

**ER-033504 Nipple 1/8"**

Application Hydraulic. With blocking device. Fits fast coupling ER-033499.

**ER-033499 Rapid-action coupling 1/8" IG**

Application Hydraulic. With blocking device. Fits fast nipple ER-033504.

