

MTS Zero Point Workholding System

The universal interface

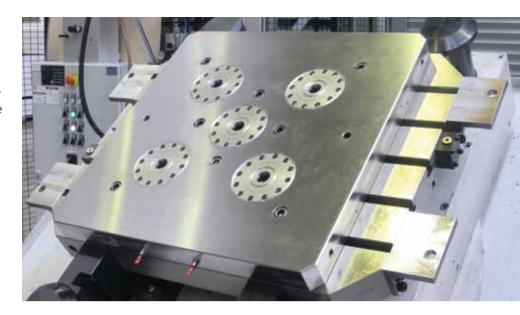


Consistent workholding system

Single palletizing, multiple palletizing, consistent palletizing.



EROWA MTS (Modular Tooling System) is an open workholding system. It offers various usage possibilities: Single palletizing with one MTS chuck or multiple palletizing with several MTS chucks. The MTS chucks are mounted directly on the machine table or integrated into base plates.





The low installation height of the EROWA MTS workholding system allows plenty of space for workpieces.

MTS chucks are mounted on the machine table or integrated directly into it.

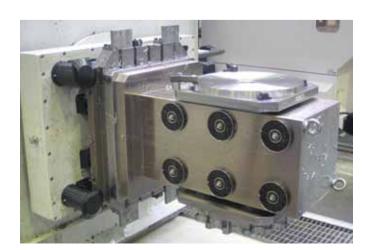


MTS base plates are the flexible and precise interface for single or multiple palletizing.

MTS base plates are available in various version. With 2, 4, 6 or 8 chucks, depending on the model. We'll be happy to advise you on customized versions as well.



Variable tombstones. The MTS system is the interface to fixtures and vises.



ALWAYS FITS

Standardized and consistent interface.

4x90° indexable pallets.

5-sided machining in one set-up.

Minimal set-up times

The standardized interface between the machine and workpiece or fixture allows for quick and precise changeover.



Downtime of the machine is reduced to a minimum by MTS. New orders are set up during primary machining. Prepared jobs are replaced in an instant against finished ones. MTS chucks are operated manually or automatically.





Existing vises, gauges and fixtures are equipped with chucking spigots or palletized and used immediately.



More workpieces are prepared while the machine is in production.



Different jobs on one machine. The conversion of clamping devices takes a few seconds.



TIME-SAVING

The zero point is defined. Alignment is not necessary. Suitable for automatic pallet changing.

Safe production with MTS+

Monitoring ensures high process reliability.



The MTS+ workholding system and the corresponding control unit provide a quick overview: Is a pallet clamped? Are the chucks opened correctly? Has the pallet been loaded correctly?





Control unit including monitoring, cleaning and reclamping.



The centering and compensation spigots position and center the workpiece carrier with high precision in the MTS chucks.



When changing the workpiece, the contact surfaces of the MTS chucks are cleaned automatically. The MTS pallet is positioned neatly and accurately.

The MTS workholding system lets you palletize even large workpieces safely and accurately.



FULLY MONITORED

Repeatability < 0.003 mm.

The entire control and monitoring is only via two air supply lines.

MTS according to your wishes

Whether standard or specific configuration, the MTS system adapts to any machine situation. We'll be happy to advise you!





Base plate with 13 MTS single chucks.



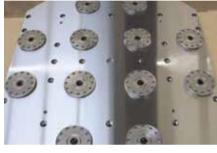
Special table structure with a large MTS pallet.



MTS pallet with hydraulic clamping elements.



Vacuum clamping on an MTS pallet.



Special MTS base plate, 950 x 950 mm, 12 chucks.



EROWA self-centering vise 148 on MTS pallets.



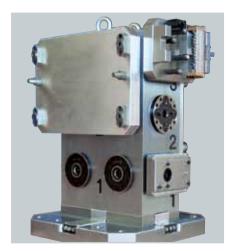
Swivel table with 8 MTS chuck.



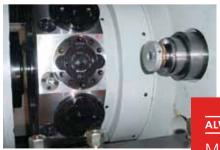
The workpiece size determines the number of required MTS chucks.



MTS base plate with precentering.



Tombstone with various MTS chucks.



Practical applications in the field show the flexible use of the MTS zero-point workholding system.



ALWAYS FITS

Machine-specific solutions.

Modular extensions possible.

Chucking spigots mounted directly on the workpiece.

Increase production through automation

More efficient manufacturing thanks to perfectly matched automation solutions.



By setting up new workpieces during primary machining, the availability of productive hours is considerably increased. In addition, marginal and night hours as well as the weekend can be used productively.

EROWA offers customized handling systems from manual lifting devices to sophisticated robotic systems..





The operator provides the pallets on a loading station arranged at an ergonomically correct working height. By pressing a button, he then commands the robot to pick up and insert the prepared job into an empty pocket in the magazine.



The workpieces to be machined are palletized and stored in the magazine of the handling unit. The EWISTM identification system provides a clear overview of magazine locations and pallets.



With the EROWA EMC Process Control System, the operator is always in control of all data of the manufacturing cell.



AUTOMATICALLY GOOD

Individually tailored to your needs.

Transfer weight of up to 500 kg. EROWA Process Control System.

Combined manufacturing

Various other EROWA chucks can be used with MTS pallets. This allows other EROWA system elements to be integrated consistently into the MTS workholding system. The chucks are operated by an air jet or by direct control from the machine.



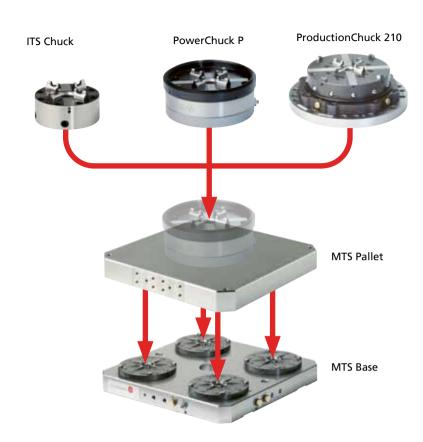
MTS adaptations

Various EROWA chucks (see diagram) can be mounted on MTS pallets. No more than two additional air lines are necessary for control. One for opening and one for cleaning air.

Medium transfer with automatic operation

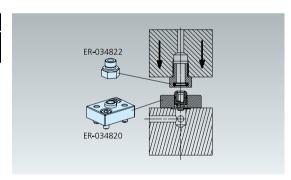
To operate the chuck mounted on the MTS pallet, the MTS pallet must be equipped with a coupling system. The coupling system serves as the interface between the MTS base plate and the MTS pallet.

EROWA MTS chucks are operated by compressed air. Other devices and adaptations can be operated hydraulically. For both options, we offer medium coupling systems.



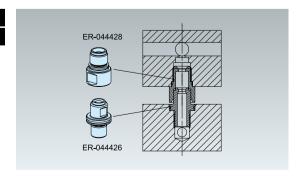
Operation with air - you will need:

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).
For use Working pressure	with compressed air. max. 10 bar.



Operation with oil or air - you will need:

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
For use	base plates (A) and MTS pallets (B). with compressed air,
TOT use	with vacuum,
	with oil.
Working pressure	max. 200 bar.
Important	Docking- and undocking only depressurized.



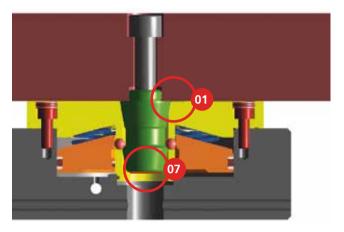
Accurately positioned

The ingenious short-taper centering feature positions the workpiece carriers with high precision.



The advantages of short-taper centering

The chucking spigot is deformed by high pulling powers within the elastic limit. This pulls the pallet up to the Z support. The result is play-free, robust and vibration-resistant centering.



01 | Precise

Play-free short-taper centering. Easy insertion of pallets.

07 | Protected

The protective cap protects the Z-support during insertion of the pallet.

SHORT-TAPER CENTERING AT A GLANCE

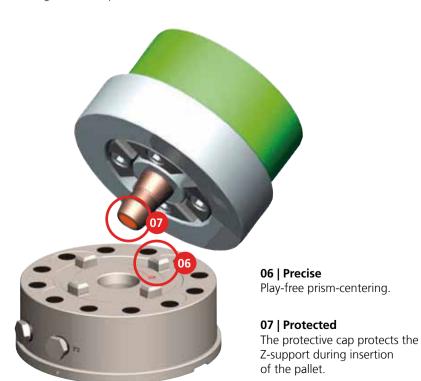
High repeatability.

Compensating for thermal growth.

Conical centering for easy insertion and extraction of pallets.

Single palletizing with prism-centering

The centering elements are deformed by high pulling powers within the elastic limit. The resulting play-free centering absorbs even high vibration powers with ease.



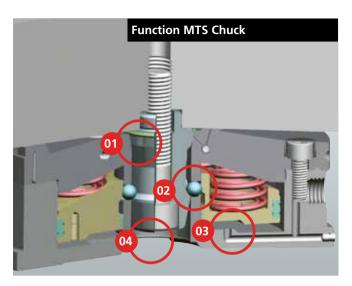
PRISM-CENTERING AT A GLACE

High repeatability.4x90° indexing of pallets.Stable and play-free centering.

Impressive technology

Continuous development and high quality make the MTS zeropoint workholding system the standard for efficient and precise clamping of workpieces





01 | Precise

Play-free round-cone centering. Repeatability: <0.005 mm. Easy insertion of the pallets.

02 | Clamping mechanism

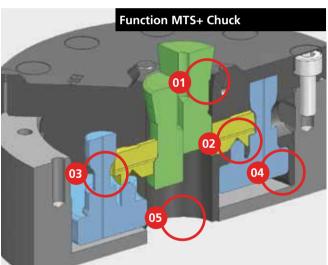
Reliable clamping mechanism through self-locking ball lock.

03 | Open

MTS are operated pneumatically.

04 | Cleanliness

Liquids can drain off. No dirt traps.



01 | Precise

Play-free round-cone centering. Repeatability: <0.003 mm. Easy insertion of the pallets.

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.

TECHNICAL DATA MTS CHUCKS			
Тур	MTS81	MTS	MTS+
Repeatability	<0.005 mm	<0.005 mm	<0.003 mm
Activation	clamped without pressure	clamped without pressure	clamped without pressure
Opening pressure	min. 8.5 bar	min. 7 bar	min. 8.5 bar
Process monitoring	presence check	presence check	pneumatic: open, closed, clamped, presence check of pallet and chucking spigot
Cleaning (P3)	on automatic chucks	on automatic chucks	on automatic chucks
Reclamp	yes (on P4)	no	yes (on P3)
Clamping power	10,000 N/chuck *	12,000 N/chuck	18,000 N/chuck *
Holding power	> 60,000 N/chuck	> 60,000 N/chuck	> 60,000 N/chuck
Clamping cycles	> 500,000	> 500,000	> 500,000
Pneumatic connections	P2 / P3 / P4	P2 / P3	P2 / P3

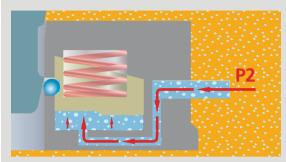
Outstanding properties

The MTS zero-point workholding system has many outstanding features. All of these features fit together to create the optimized overall picture of the MTS system.



MTS Chuck

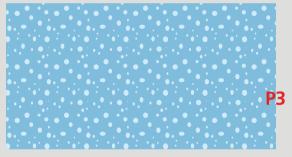
A mere 7 bar of opening pressure results in 12,000 N clamping power thanks to internal power boosting.



Connection P2: Opening

MTS chuck, automatable

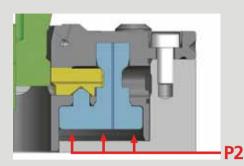
Automatic cleaning of contact surfaces and of the centering spigot cone while the workpiece is changed.



Connection P3: cleaning

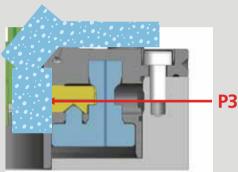
MTS+ Chuck

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.

THE ADVANTAGES OF MTS

MTS clamps by self-locking spring force – safely even in case of pressure loss.

MTS clamps with coil springs – the lifetime of these springs is far superior to that of disk springs.

System consistency is guaranteed within the entire MTS product family.

Unique single palletizing for zero-point system thanks to prism centering.

Long service life thanks to low-wear seal and guide components.

Protective caps on the chucking spigots protect the chucks from damage during insertion of the pallets.

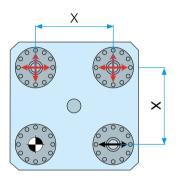
The automatic MTS chucks feature a built-in cleaning feature for all major functional surfaces.

Thanks to recess-free surfaces, cleaning is easy also on manual MTS chucks.

Tips & tricks

On these two pages we have collected frequently asked questions and their answers.

Set-up distance



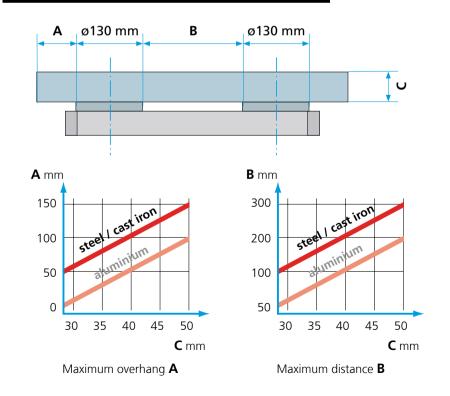
The set-up distance (X) is the distance between the centers of two MTS chucks.

MTS base plates are delivered with a standard set-up distance of 200 mm or 250 mm.

The minimum set-up distance for integral chucks is 140 mm.

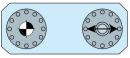
The minimum set-up distance for mounting chucks is 200 mm.

Pallet overhang

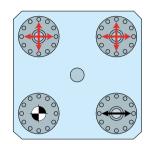


The pallet overhang (A) (B) affects stability and precision of the whole set-up. The shorter the distances, the better the results.

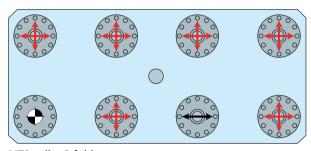
Arrangement of MTS chucking spigots - Examples



MTS pallet 2-fold



MTS pallet 4-fold



MTS pallet 8-fold

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



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



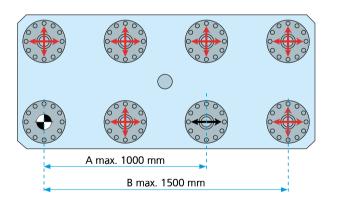
ER-039201 MTS compensation spigot / A ...

The compensation spigot positions the pallet in only one axis (X or Y) and compensates dimensional differences due to thermal growth.



Please note: All order numbers can be found on p. 50.

Chucking spigot distance

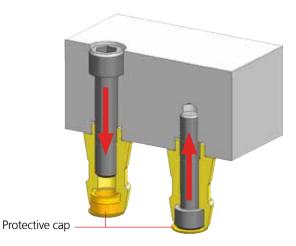


- **A** | Maximum distance between the MTS centering spigot and the MTS compensation spigot.
- **B** | Maximum distance between the MTS centering spigot and the MTS compensation spigot.

Installation of MTS chucking spigots

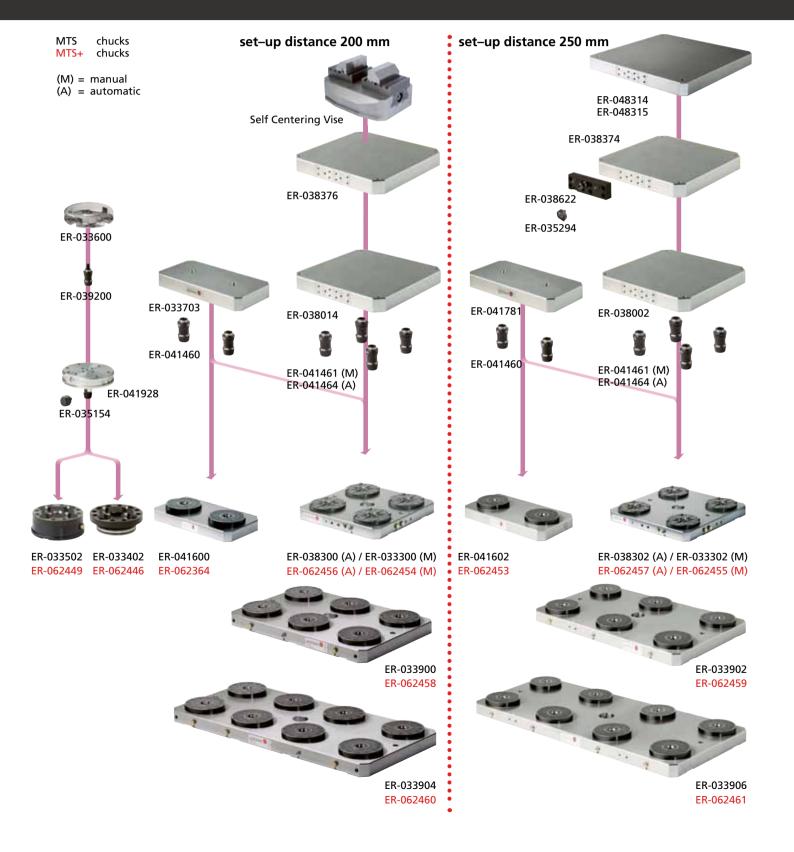
The MTS clamping spigots can be attached to the pallet from below or from above.

- Low installation height.
- Easy production of specialty pallets.
- Chucking spigots mounted directly on the workpiece.



The components

EROWA provides you with a full range of products – everything fits together!



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



4. Operate with manual control unit



5. Operate with electropneumatic 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

 MTS	integral chucks	24
 MTS+	integral chucks	26
 MTS 81	integral chucks	28
 MTS	mounted chucks	30
 MTS+	mounted chucks	32
 MTS	base plates, 2-fold	34
 MTS+	base plates, 2-fold	35
 MTS 81	base plates, 2-fold / with cleaning facility, automatable	36
 MTS 81	base plates, 2-fold / with cleaning facility, automatable	37
 MTS	base plates, 4-fold	38
 MTS+	base plates, 4-fold	39
 MTS	base plates, 4-fold, with cleaning facility, automatable	40
 MTS+	base plates, 4-fold, with cleaning facility, automatable	41
 MTS	base plates, 6-fold	42
 MTS+	base plates, 6-fold	43
 MTS	base plates, 8-fold	44
 MTS+	base plates, 8-fold	45
 MTS	pallets	46
 MTS 81	pallets	48
 MTS	single pallets	49
 MTS	chucking spigots	50
 MTS	operation	52
 MTS	accessories	54



For chip-removing processes



For EDM sinking



For WEDM

EROWA MTS

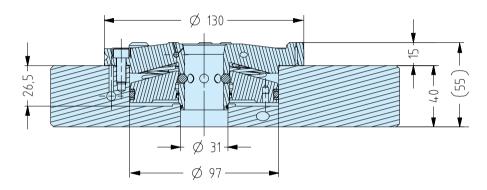
Integral chucks

Technical data	MTS integral chucks	
	pneumatic	hydraulic
Repeatability	<0.005 mm	<0.005 mm
Indexation, pallet	4 x 90° (MTS IntegralC	huck 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

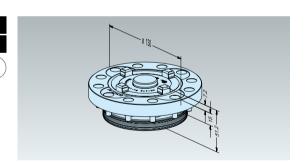
S = Single M = Multi

A = able to automate P = pneumatically operated H = hydraulically operated

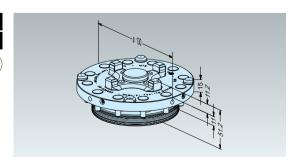
Integration variant (applicable to MTS IntegralChucks Single and Multi). Observe tolerances according to integration instructions!



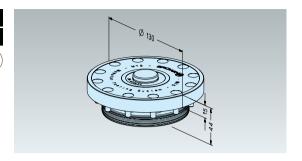
ER-033402	MTS IntegralChuck S-P
ER-033403	MTS IntegralChuck S-H
Version	For direct integration in machine tables, plates, tombstones, squares or dividing heads.
Connections Application	To open: pneumatic or hydraulic. To accommodate single or multiple pallets.



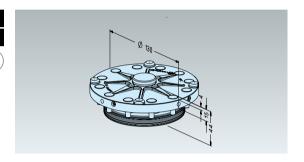
ER-036802	MTS IntegralChuck S-P/A
ER-036803	MTS IntegralChuck S-H/A
	△ ⊜ auto ○ ○ ○
Version	For direct integration in machine tables, plates, tombstones, squares or dividing heads.
Connections	To open: pneumatic or hydraulic. To clean: pneumatic.
Application	To accommodate single or multiple pallets.



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
	△ ≅ auto © ⊕ ○
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+

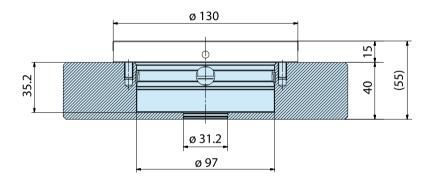
Integral chucks

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	

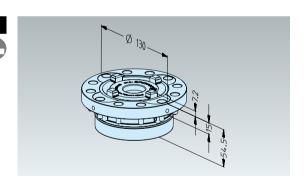
S = Single M = Multi A = automatable

P = pneumatically operated

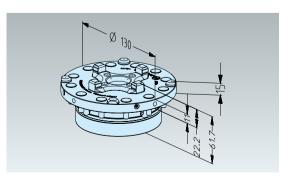
Integration variant (applicable to MTS+ IntegralChucks Single and Multi). Observe tolerances according to integration instructions!



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





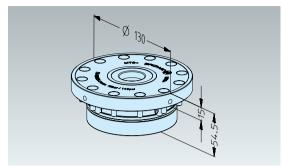
Version For direct integration in machine tables, plates,

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



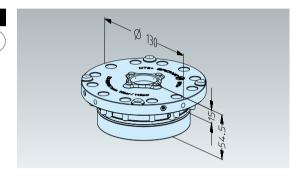


tombstones, squares or dividing heads.

Connections 2 pneumatic connections: one for opening, and

one for cleaning, monitoring and reclamping.

Application To accommodate multiple pallets.



EROWA MTS 81

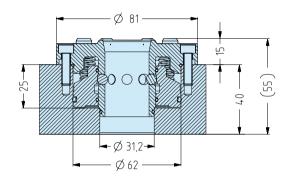
Integral chucks

Technical data	MTS 81 integral chucks
reciffical data	_
	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

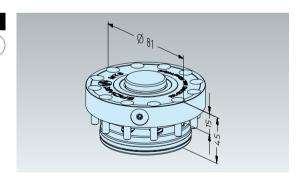
M = Multi A = automatable

P = pneumatically operated

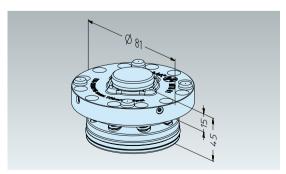
Integration variant applicable to MTS 81 IntegralChucks. Observe tolerances according to integration instructions!



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
	auto C
Version	To be fitted directly to machine tables, plates,
	tombstones, squares or dividing heads. Suitable for auto-
	matic loading.
Connections	3 pneumatic connections: one for opening, one for
	reclamping, and one for presence checks and cleaning.
Application	To accommodate multiple pallets.



EROWA MTS

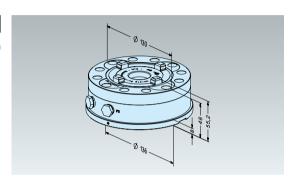
Mounted chucks

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	

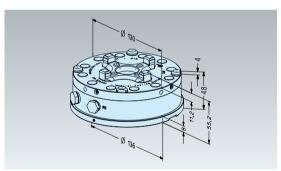
S = Single M = Multi

A = able to automate P = pneumatically operated

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



ER-035502	MTS Chuck S-P/A
	△ ⊜ auto
Version	For direct mounting on machine tables, plates, tombs-
	tones, 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.

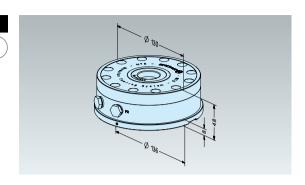


ER-033500 MTS Chuck M-P Version For direct mounting on machine tables, plates, tombs-

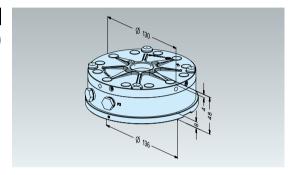
tones, squares or dividing heads.

Lateral, to open: pneumatic. Connections

To accommodate single or multiple pallets.
Order separately: to fit MTS Chuck, MTS bracket ER-033804 or ER-033805. Application Accessories



ER-035500	MTS Chuck M-P/A
	△ ⊜ auto
Version	For direct mounting on machine tables, plates, tombs-
	tones, 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
	FR-033804 or FR-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 operatedt

ER-062449 MTS+ Chuck S-P

Version

Application



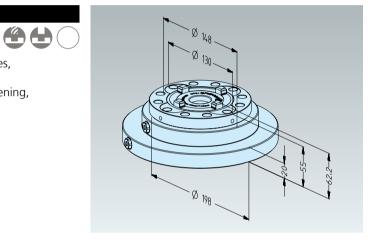
For direct mounting on machine tables, plates,

tombstones, squares or dividing heads.

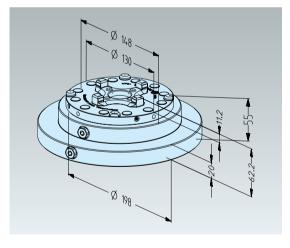
Connections 2 lateral pneumatic connections: one for opening,

and one for monitoring and reclamping.

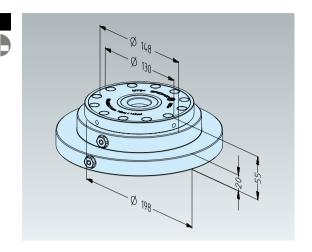
To accommodate single or multiple pallets.



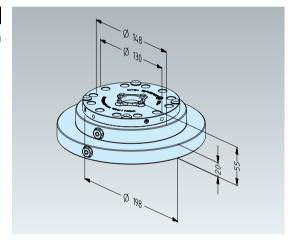
ER-062450	MTS+ Chuck S-P/A
	PI PI NOX auto
Version	For direct mounting on machine tables, plates, tombstones, squares or dividing heads.
Connections	2 lateral pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.
Application	To accommodate single or multiple pallets.



ER-062451 MTS+ Chuck M-P **940** For direct mounting on machine tables, plates, tombstones, squares or dividing heads. 2 lateral pneumatic connections: one for opening, and one for monitoring and reclamping. To accommodate single or multiple pallets. Version Connections Application



ER-062452	MTS+ Chuck M-P/A	
	Pi 24 Nox auto	
Version	For direct mounting on machine tables, plates, tombstones, squares or dividing heads.	
Connections	2 laterial pneumatic connections: one for opening, and one for cleaning, monitoring and reclamping.	
Application	To accommodate single or multiple pallets.	



Caution

EROWA MTS

Base plates, 2-fold

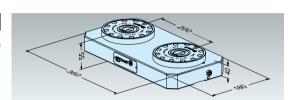
Technical data	MTS base plates, 2-fold
	pneumatic
Repeatability	<0.005 mm
Indexation, pallet	1 x 180°
Clamping	Spring power
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	24,000 N
	(2 x 12,000 N)

P = pneumatically operated

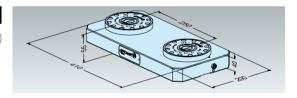
ER-041600 MTS base plate 180 x 360 / 200 P Base plate, steel, unhardened; set-up distance Version 200 mm. Connections Lateral, to open: pneumatic. To accommodate double pallets. For direct assembly on Application machine tables. Accessories 1 x ER-036672. supplied Note Attachment boreholes can be drilled by customers.

instructions from your EROWA dealer.

Do not drill through any air ducts! Please order operating



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	up to 36,000 N
with reclamping	(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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

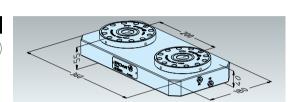
1 x ER-002673 plug, ø 4

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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

1 x ER-002673 plug, ø 4

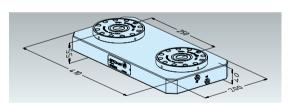
Optional:

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

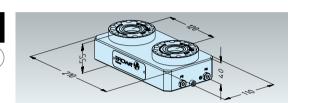
Base plates, 2-fold

MTS 81 Base plates, 2-fold
pneumatic
<0.005 mm
1 x 180°
Spring tension
min. 8.5 bar
pneumatic
up to 20,000 N
(2 x 10,000 N)

A = automatable

P = pneumatically operated

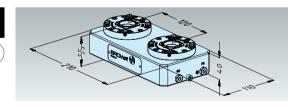
ER-063134	MTS 81 base plate 110 x 210 P Pitch 120 mm
Version	Base plate, steel, unhardened; set-up distance
	120 mm.
Connections	2 lateral pneumatic connections: one for opening and one
	for reclamping.
Application	To accommodate double pallets. For direct assembly on
	machine tables.
Accessories	2 x ER-014326 threaded connector, straight, ø 6
supplied	2 x ER-002675 plugs, ø 6
	1 x ER-014324 threaded connector, straight, ø 4
	1 x ER-002673 plug, ø 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

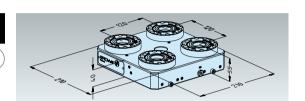
MTS 81 base plate 110 x 210 P/A Pitch 120 mm
△ auto
Base plate, steel, unhardened; set-up distance 120 mm.
3 lateral pneumatic connections: one for opening, one for cleaning and one for reclamping.
To accommodate multiple pallets. For direct assembly on machine tables.
2 x ER-014326 threaded connector, straight, ø 6 2 x ER-002675 plugs, ø 6
1 x ER-014324 threaded connector, straight, ø 4 1 x ER-002673 plug, ø 4
Attachment boreholes can be drilled by customers. Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.



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	up to 40,000 N
with reclamping	(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	2 x ER-014326 threaded connector, straight, ø 6
supplied	2 x ER-002675 plugs, ø 6
	1 x ER-014324 threaded connector, straight, ø 4
	1 x ER-002673 plug, ø 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

EK-06313/	Pitch 120 mm
	△ auto
Version	Base plate, steel, unhardened; set-up distance 120 mm.
Connections	3 lateral pneumatic connections: one for opening, one for cleaning and one for reclamping.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	2 x ER-014326 threaded connector, straight, ø 6 2 x ER-002675 plugs, ø 6
	1 x ER-014324 threaded connector, straight, ø 4 1 x ER-002673 plug, ø 4
Note Caution	Attachment boreholes can be drilled by customers. Do not drill through any air ducts! Please order operating instructions from your specialist EROWA dealer.

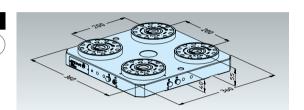


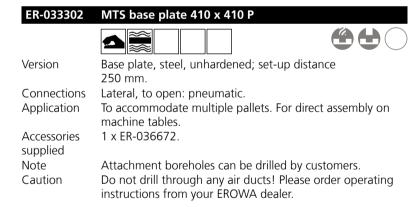
Base plates, 4-fold

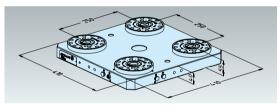
MTS base plates, 4-fold
pneumatic
<0.005 mm
Spring power
min. 7 bar
pneumatic
48,000 N
(4 x 12,000 N)

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.







Basisplatten, 4-fach

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	up to 72,000 N
with reclamping	(4 x 18,000 N)

P = pneumatisch betätigt

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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

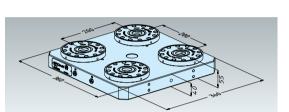
1 x ER-002673 plug, ø 4

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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

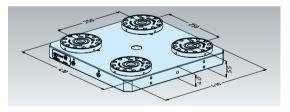
1 x ER-002673 plug, ø 4

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.



Note

Caution

EROWA MTS

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

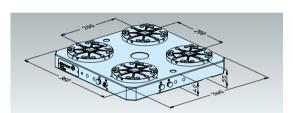
Technical data	MTS base plates, 4-fold,
	with cleaning facility, automatable
	pneumatic
Repeatability	<0.005 mm
Clamping	Spring tension
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	48,000 N
	(4 x 12,000 N)

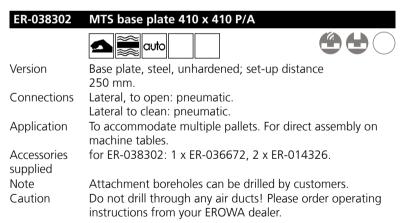
P = pneumatically operated

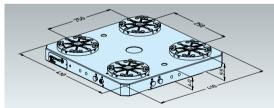
ER-038300	MTS base plate 360 x 360 P/A
	△ auto © せ ○
Version	Base plate, steel, unhardened; set-up distance
	200 mm.
Connections	Lateral, to open: pneumatic.
	Lateral to clean: pneumatic.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Accessories supplied	for ER-038300: 1 x ER-036672, 2 x ER-014326.

Attachment boreholes can be drilled by customers. Do not drill through any air ducts! Please order operating

instructions from your EROWA dealer.







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

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

P = pneumatically operated

A = automatable

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





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:

Version

2 x ER-014326 threaded connector, straight, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

1 x ER-002673 plug, ø 4

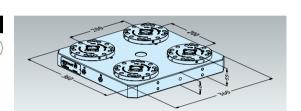
Optional:

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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

1 x ER-002673 plug, ø 4

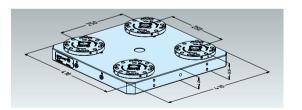
Optional

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.

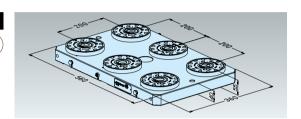


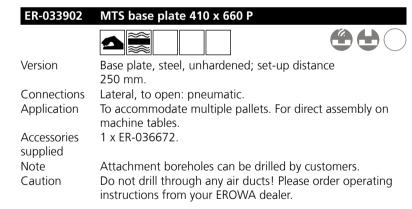
Base plates, 6-fold

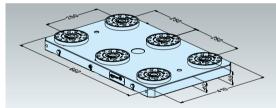
Technical data	MTS base plates, 6-fold
	pneumatic
Repeatability	<0.005 mm
Clamping	Spring tension
Opening pressure	min. 7 bar
Clamping power	72,000 N
	(6 x 12,000 N)

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.







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	up to 108,000 N
with reclamping	(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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

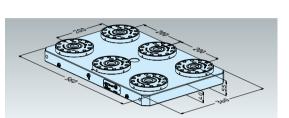
1 x ER-002673 plug, ø 4

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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

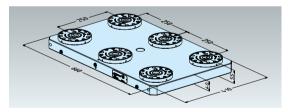
1 x ER-002673 plug, ø 4

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.

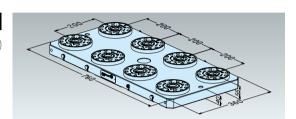


Base plates, 8-fold

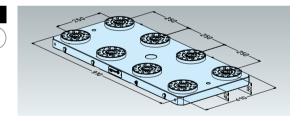
Technical data	MTS base plates, 8-fold
	pneumatic
Repeatability	<0.005 mm
Clamping	Spring power
Opening pressure	min. 7 bar
Process monitoring	pneumatic
Clamping power	96,000 N
	(8 x 12,000 N)

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 Caution	Attachment boreholes can be drilled by customers. Do not drill through any air ducts!
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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.



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	up to 144,000 N
with reclamping	(8 x 18,000 N)

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.

To accommodate multiple pallets. For direct assembly on **Application**

machine tables.

Supplied: Accessories

2 x ER-014326 threaded connector, straight, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

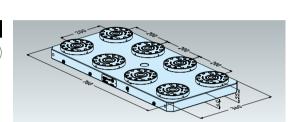
1 x ER-002673 plug, ø 4

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 Base plate, steel, unhardened; set-up distance Version 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, ø 6

2 x ER-002675 plugs, ø 6

1 x ER-014324 threaded connector, straight, ø 4

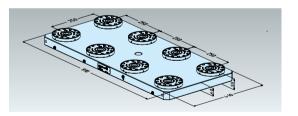
1 x ER-002673 plug, ø 4

Optional:

1 x ER-063545 nipple, G1/8" 1 x ER-064499 fast coupling

Note Attachment boreholes can be drilled by customers. Do not drill through any air ducts! Please order operating Caution

instructions from your specialist EROWA dealer.



Pallets

ER-033703 MTS pallet 198 x 398 / 200

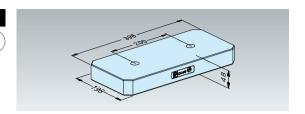




Version Aluminum pallet, 2-fold, excluding chucking spigot (MTS

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

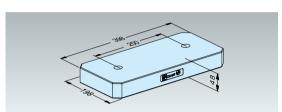




Version Aluminum pallet, 2-fold, excluding chucking spigot (MTS

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





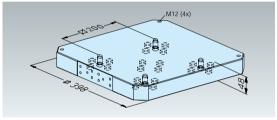
Version Cast aluminum pallet, 4–fold, excluding chucking spigot

(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





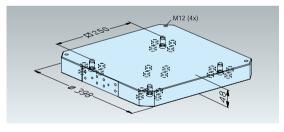
Version Cast aluminum pallet, 4–fold, excluding chucking spigot

(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

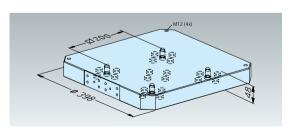
(MTS chucking spigot set ER-041461 (M) /

ER-041464 (A).

Application To clamp workpieces, vises and gauges.

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

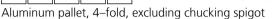
separately.



ER-038374 MTS pallet 398 x 398 / 250

Hard Z support





4

(MTS chucking spigot set ER-041461 (M) /

ER-041464 (A).

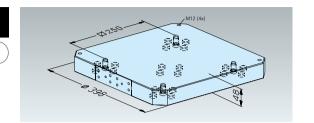
Application To clamp workpieces, vises and gauges. ER-041461 (M) / ER-041464 (A) to be ordered Accessories

separately.

Version

Version

Version



ER-044906 MTS Pallet 498 x 498/250 R50



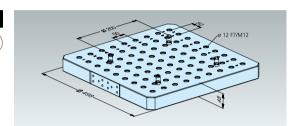
Cast aluminum pallet (hard anodized), 4-fold, excluding

chucking spigot (MTS chucking spigot set ER-041461 (M) /

ER-041464 (A).

Application To clamp workpieces, vises and gauges. ER-041461 (M) / ER-041464 (A) to be ordered Accessories

separately.



ER-058819 MTS Pallet 398 x 398/200 R50



Cast aluminum pallet (hard anodized), 4-fold, excluding

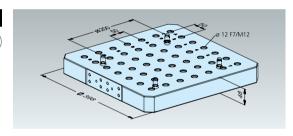
chucking spigot (MTS chucking spigot set ER-041461 (M) /

ER-041464 (A).

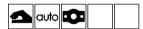
Application To clamp workpieces, vises and gauges. Accessories

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

separately.



ER-048314 MTS Pallet 498 x 498 / 250





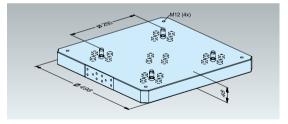
Version Cast aluminum pallet, 4–fold, excluding chucking spigot

(MTS chucking spigot set ER-041461 (M) / ER-041464 (A).

To clamp workpieces, vises and gauges. Application

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

separately.



ER-048315 MTS Pallet 498 x 498 / 250

Hard Z support



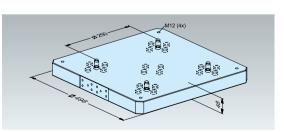


Cast aluminum pallet, 4–fold, excluding chucking spigot Version (MTS chucking spigot set ER-041461 (M) / ER-041464 (A).

Application To clamp workpieces, vises and gauges.

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

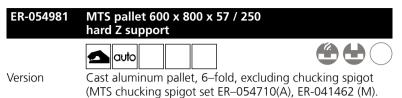
separately.



Application

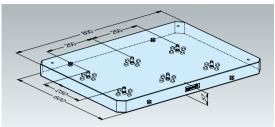
EROWA MTS / MTS 81

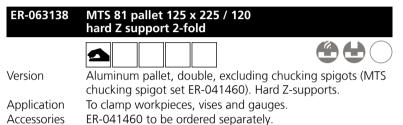
Pallets

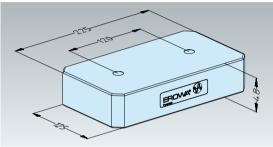


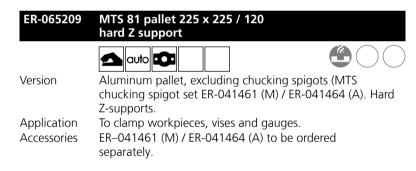
To clamp workpieces, vises and gauges, for chip-cutting operations

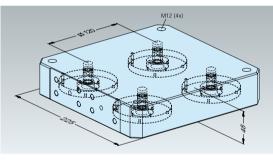
Accessories To be ordered separately ER-054710(A), ER-041462 (M).

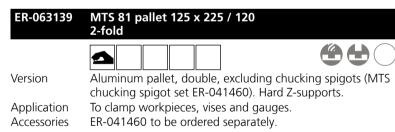


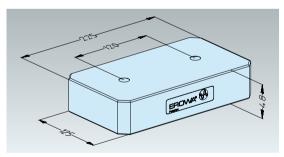




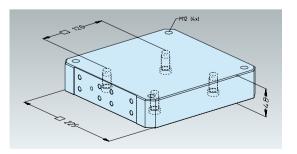








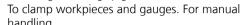
ER-063140	MTS 81 pallet 225 x 225 / 120 4-fold
	△ auto △ △
Version	Aluminum pallet, 4-fold, excluding chucking spigots (MTS chucking spigot set ER-041461 (M) / ER-041464 (A). Hard Z-supports.
Application Accessories	To clamp workpieces, vises and gauges. ER–041461 (M) / ER-041464 (A) to be ordered separately.

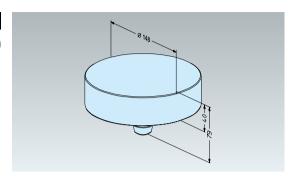


Application

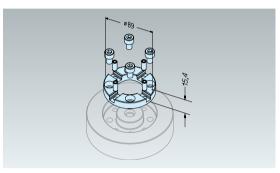
Single pallets

ER-033602 MTS pallet P ø 148 Alu Aluminum pallet, fitted with centering plate ER-033600, Version including chucking spigot ER-039200.

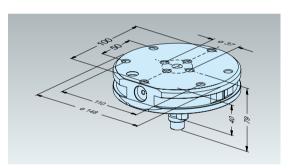


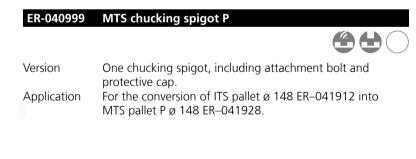


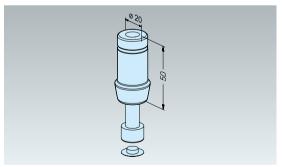
ER-033600	MTS centering plate P
Version	Steel, including attachment bolts and positioning pins.
Application	For the production of customized and indexable
	MTS pallets.
Accessories	Chucking spigot ER-039200 to be ordered separately.



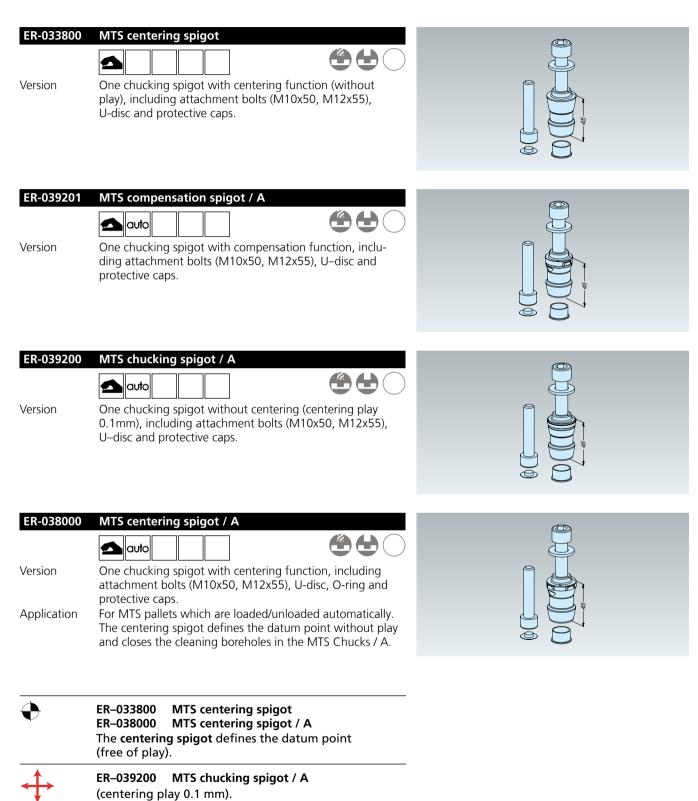
ER-041928	MTS pallet P ø 148 Inox	
	NOX auto 43	
Version	Steel pallet, not hardened, including chucking spigot ER-040999. Centering segment integrated in the pallet body.	
Application	To clamp workpieces and gauges. For manual handling and automatic operation.	
Note	Compatible with EROWA PC210 CombiChuck and Power Chuck P (ITS chucking spigot ER-010742 required).	r-







Chucking spigots



. .

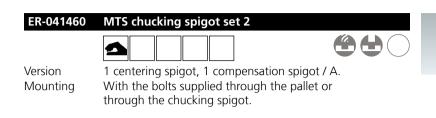
ER-039201 MTS compensation spigot / A

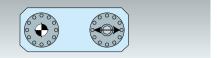
The **compensation spigot** positions the pallet in one axis only (X or Y) and is capable of compensating for a maximum set-up distance difference of 0.1 mm.

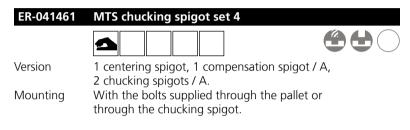
Centering surfaces

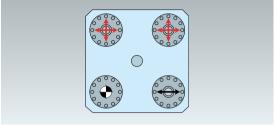


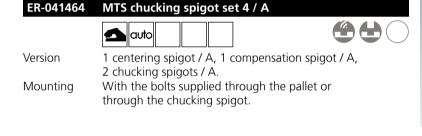
Chucking spigot set

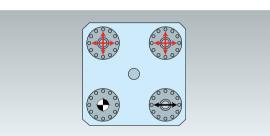


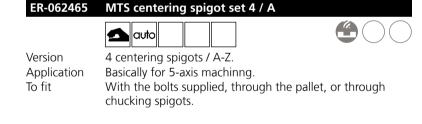


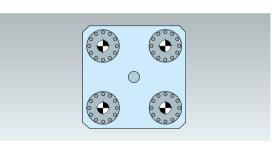


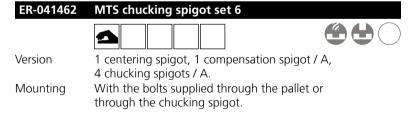


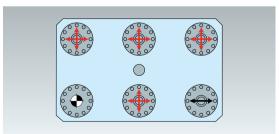


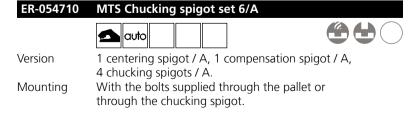


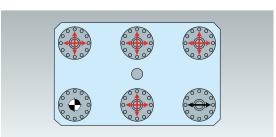






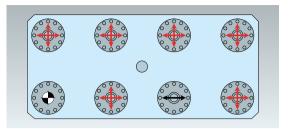






Chucking spigot set

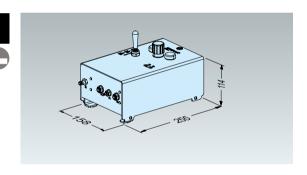
Version 1 centering spigot, 1 compensation spigot / A, 6 chucking spigots / A. With the bolts supplied through the pallet or through the chucking spigot.



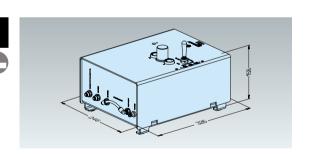
EROWA MTS

Operation

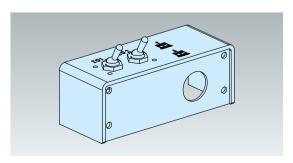
ER-073872	Manual control unit with booster
	946
Version	Manual valve to control the EROWA chucks:
	Opening/Reclamping/Cleaning.
Application	Operation of: EROWA ITS Compact Combi Chuck, ITS,
	UPC, MTS, PC 210 chucks and PowerChuck P.
Note	Integrated booster with load ratio 1:2 (up to output
	pressure of 10 bar max.).



ER-064006	MTS+ Manual control unit monitored with booster
	64 (
Version	Manual valve to control the MTS+ chucks: Opening/Reclamping/Cleaning/Monitoring.
Application	LED status displays for up to 8 chuck at the same time. 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-073872, incl. set of hoses.
Application	Operating of two separate chucks with one single control unit.



Operation

ER-001846 Air jet





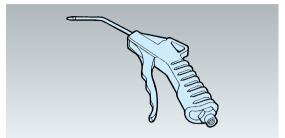


Version Plastic, smooth regulation of air flow, connection

1/4", inside thread.

Application Operation of manual chucks.

Not suitable for operating MTS+ and MTS81. Note



ER-074893 **Pressure booster**







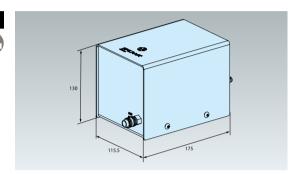
Quick-connect couplings for hose \emptyset i = 8 mm. Version

Compression ratio: 1:2

On insufficient system pressure and on pressure **Application**

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

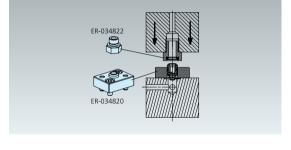
between MTS base plates (A) and MTS pallets (B).

For use with compressed air.

max. 10 bar. Working

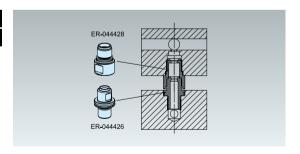
pressure

ER-044426



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, with oil.
Working pressure	max. 200 bar.
İmportant	Docking- and undocking only depressurized.

Nipple for MTS base plates



Accessories

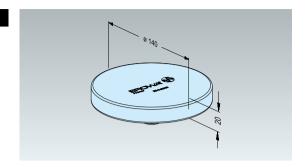
ER-042038 MTS cover

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

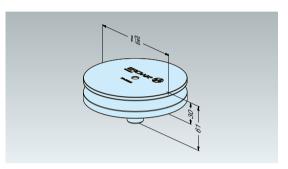


Version Rust-resistant cover for the hermetical sealing of MTS+

chucks that are not in use.

Note Support surface must be clean and must be protected

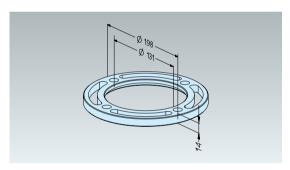
against damage.



ER-033804 MTS ring bracket

Version Bracket made of steel, excluding attachment bolts.
Application Suitable for MTS chucks only. To attach mounted

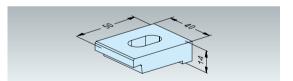
MTS chucks to the machine table.



ER-033805 MTS bracket

1 piece

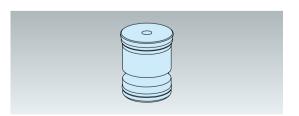
Version Bracket made of steel, excluding attachment bolt. Application To attach MTS chucks onto the machine table. Note Four brackets are necessary per MTS chuck.



ER-037967 MTS Locking bolt with M6

Version Steel

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



ER-073168 MTS+ stopper

Version Steel.

Version

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



ER-067563 Rubber seal MTS ø25.25 x 17

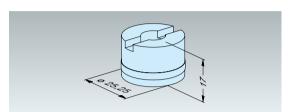
for EDM



Rubber seal

Note Assembly according to operating instructions. Prevents

liquid from penetrating from below.



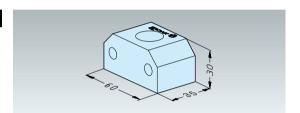
ER-034168 MTS Connector block 1/8" double

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

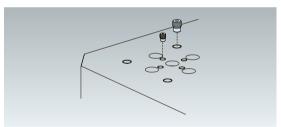
set for 4-part pallet



Version Steel, hardened

Application The Z-support bolts (1, 2) serve as Z-support surface for

custo-mized MTS pallets.



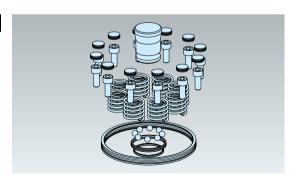
ER-034382 MTS repair set pneumatic

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

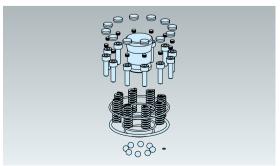


Application Repair Kit

Version All the wearing parts for MTS IntegralChuck ø 81

M-P (ER-057943) and MTS IntegralChuck ø 81 M-P/A

(ER-059016).



Accessories

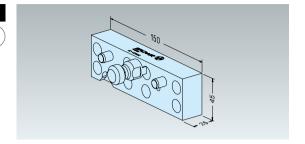
ER-038622 MTS GripperLink Rapid





Version Coupling for MTS pallets, mounting accessories included. Suited for MTS pallets to be used on EROWA handling **Application**

devices with the RCS coupling system.



ER-035294 EWIS™ Rapid chip with chip holder RCS

with chip ø 12,4 x 2mm





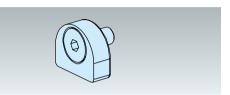


Version Holder with built-in datacarrier.

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 ø 12,4 x 2mm





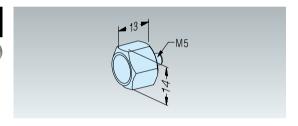




EWIS Rapid chip: read only.

In any EROWA electrode holder and pallet which has been Application

prepared for it.



ER-048478 MTS Chip guard low





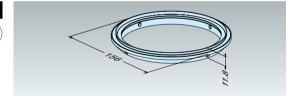
Version Aluminum, anodized

The MTS chip guard serves to seal the automatic MTS Application

chucks and base plates when MTS pallets are used.

The MTS chip guard low cannot be combined with the Note

MTS pallet P ø 148 Inox, ER-041928.



MTS Chip guard ø 156 with axial deaeration ER-056879

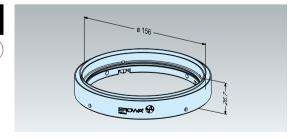




For use with MTS pallet P ø 148. Application

Prevents dirt and chips from penetrating into the

MTS SingleChuck



ER-071604 MTS seal /250

for MTS base plate 410 x 410 mm



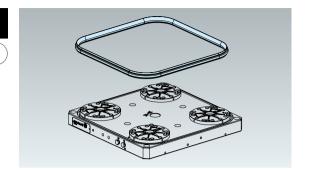


Version FPM (Viton)

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



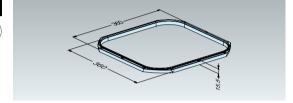


Version Aluminum anodized, with seal FPM (Viton).

The MTS seal frame set serves to protect MTS chucks **Application**

against dirt and liquids when in use with an EROWA

MTS pallet.

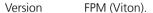


ER-075393 MTS seal / 200

for MTS base plate 360 x 360 mm







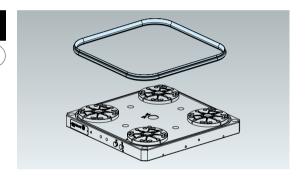
Prevents dirt from penetrating into MTS base plates **Application**

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.



ER-078823 MTS Alignment pallet P ø 148 for MTS single chuck

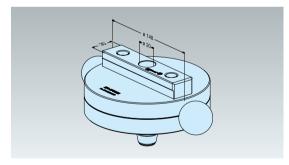






Version Pallet ø 148 mm, center borehole ø 20 mm. Application Alignement of radial, axial and angular position of

MTS single chucks.



ER-037870 MTS Alignment pallet / 200

ER-037875 MTS Alignment pallet / 250

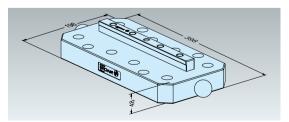




rail.

Application Alignement of MTS chucks.

Raillength ER-037870 = 200 mm. Raillength ER-037875 = 250 mm.



Order units

Meter.

EROWA MTS

Accessories

ER-014326	Straight threaded connector 3101 06 10	
Application	Pneumatic.	1/8" Ø 6
Application	rileumauc.	
ER-002814	Angled connector	ø 6
Application	Pneumatic.	1/8"
ER-014366	Threaded T-connector 3198 06 10	ø 6
Application	Pneumatic.	1/8"
ER-014333	T-connector	
Application	Pneumatic.	ø 6 ø 6
ER-034095	Cross-connector	ø 6
Application	Pneumatic.	ø 6 ø 6
ER-002023	Tube ø 6/4 black	
Application Order unit	Pneumatic. Max. operating pressure: 9 bar. Meters.	
ER-036672	MTS air jet valve	
Application	Pneumatic. For air jet ER-001846.	1/8"
ER-002147	Reinforced pipe PMAFlex Co-Flex divisible	(UUUIIIIIIIIII)
Application Order units	Hydraulic and pneumatic. Protects tubes ER-033495 and ER-002023 from damage.	

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

Application Hydraulic and pneumatic.

1/8" 1/4"

ER-034372 Reduction bushing IG1/8" - IG1/4"

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.



The next step

Important things need to be planned. And your next step is certainly among the important things. For it is your start into a new, efficient era. We are pleased to be with you on the way. As consultants, in practice. For you to know at all times what you're engaging in. The next EROWA branch office is not far – **take the step.**





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