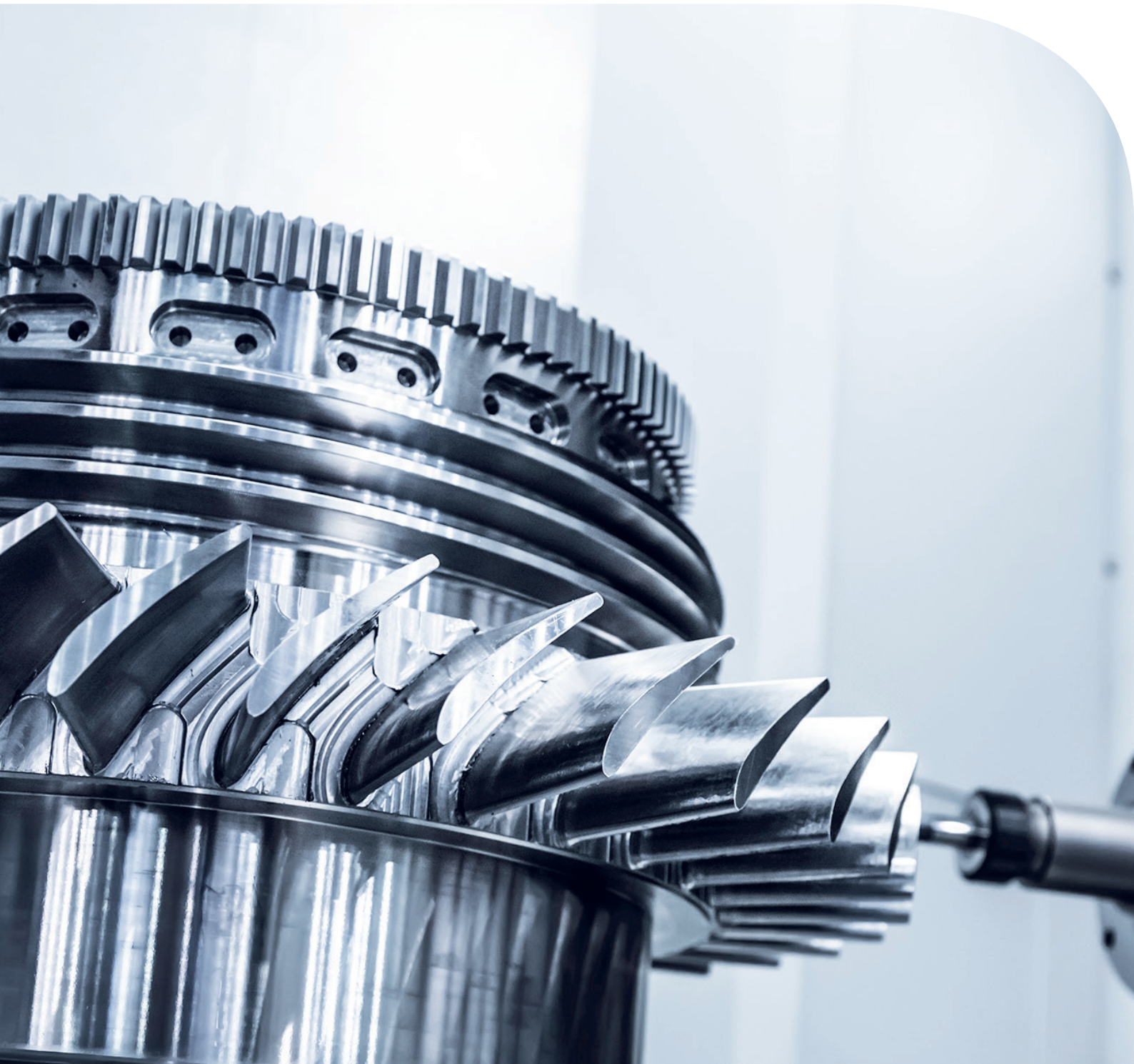


MTS 3.0

Maximum safety thanks to
advanced chuck monitoring

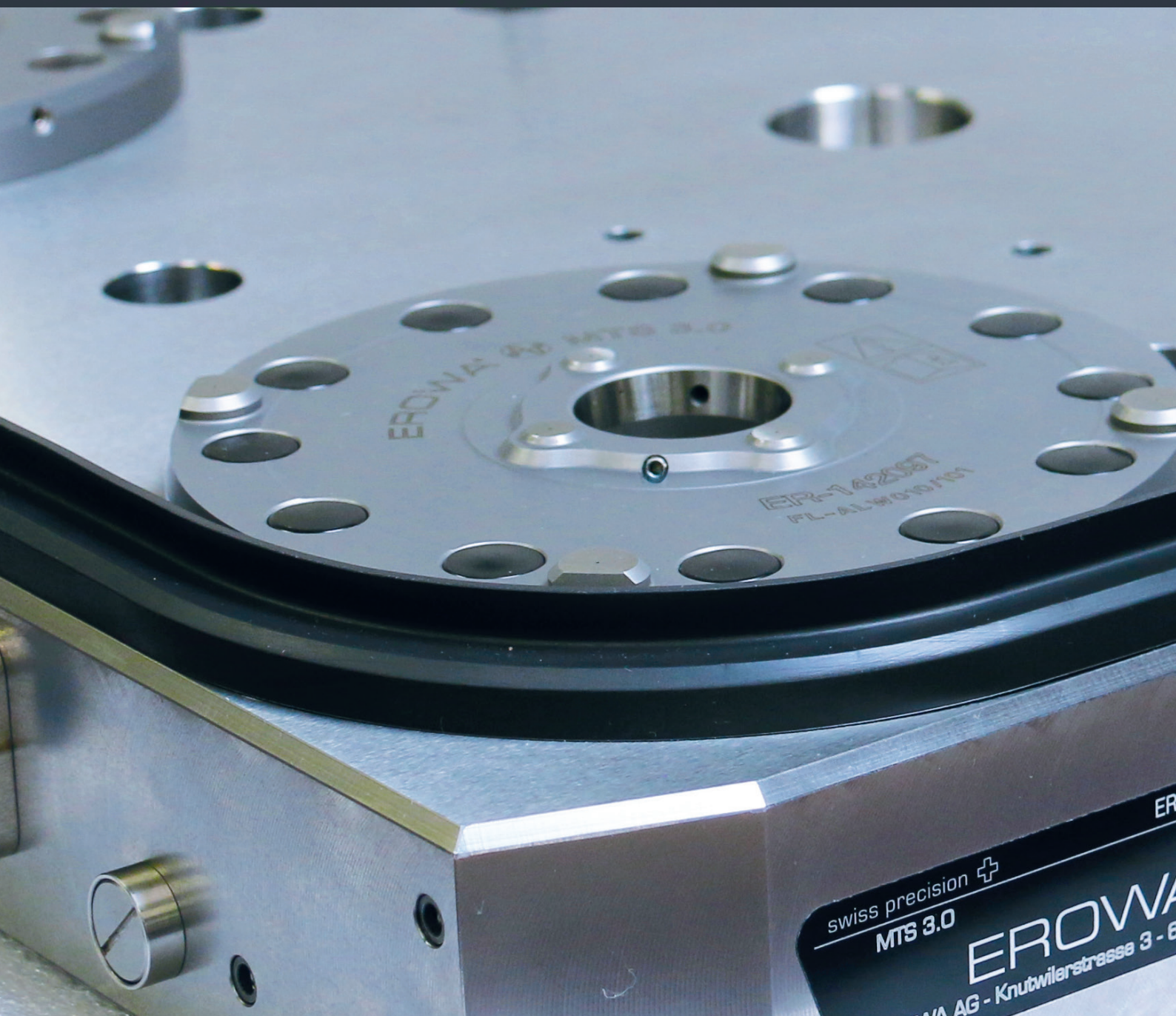


MTS 3.0

Metalworking machines are becoming more and more powerful. Due to higher rotational and travel speeds, the clamping systems are subjected to much higher loads and the safety requirements are increasing.

The MTS 3.0 zero point clamping system takes this into account. The unique combination of pneumatic locking and spigot-presence-control decisively increases safety at the workplace.

Keyword: ISO standard 13849. Ideal for milling-turning machining centers.



MTS 3.0 - Dynamic processing with the utmost certainty

Safety first

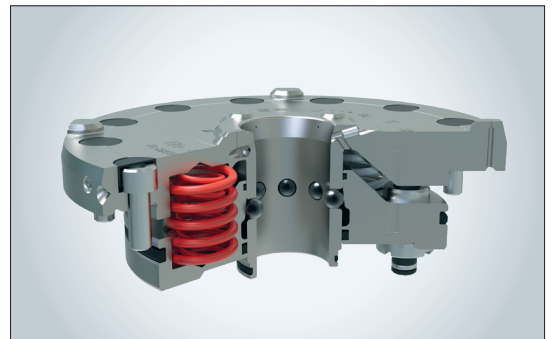
MTS 3.0 meets the highest safety standards. Thanks to the integrated monitoring functions, the machine quickly and clearly detects whether the clamping system is ready for machining. Due to the self-locking mechanism, the chucks remain 100 % securely clamped even in the event of a pressure loss.



Powerful performance with pneumatics

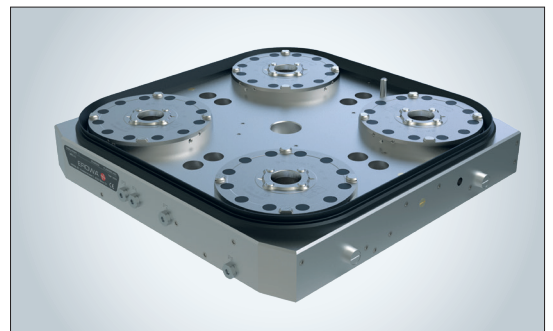
The MTS 3.0 base plate is connected to the machine purely pneumatically.

With 80 kN clamping force & the reinforced MTS clamping spigots for milling and turning operations, the system guarantees the top performance on your machining center.



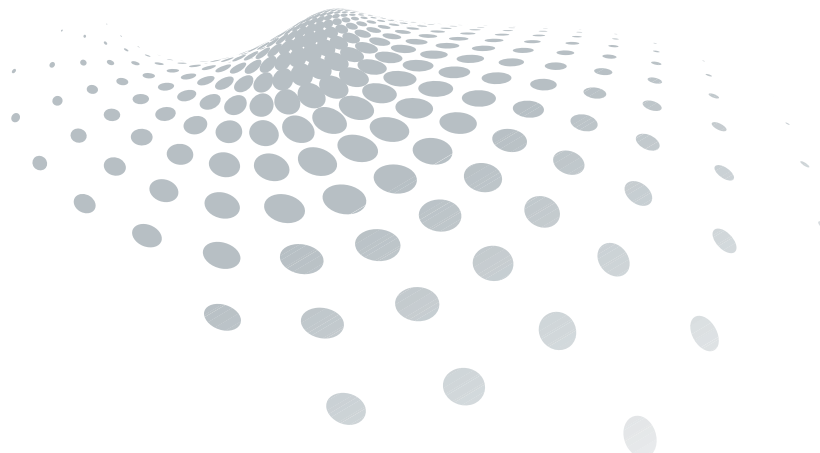
Trust in patented technology

The technical implementation of MTS 3.0 is unique, patented and certified. The clamping system fulfils the specifications of ISO standard 13849 PLd, Cat. 3.



DECISIVE ADVANTAGES

- Uncompromising monitoring
- Safe even in case of pressure loss
- Purely pneumatic control
- 80 kN clamping force for top performance
- Complies with ISO 13849 PLd, Cat. 3



MTS 3.0 - Everything under control

Lock control

The four chucks are serially linked via pneumatic lines (P4, P8). Only when all chucks are correctly locked, the pneumatic pressure can be transmitted to the pressure sensor of the machine.

Chucking spigot presence

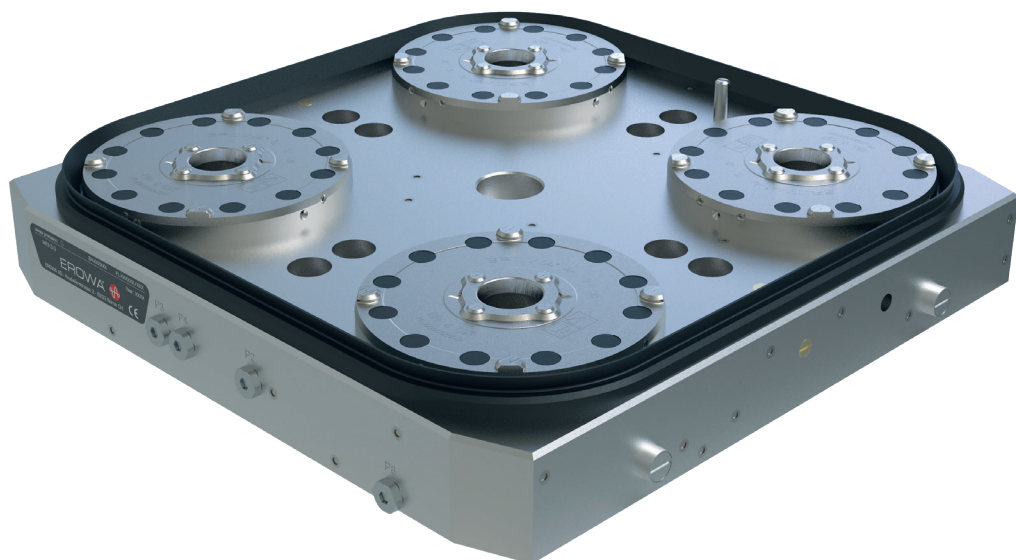
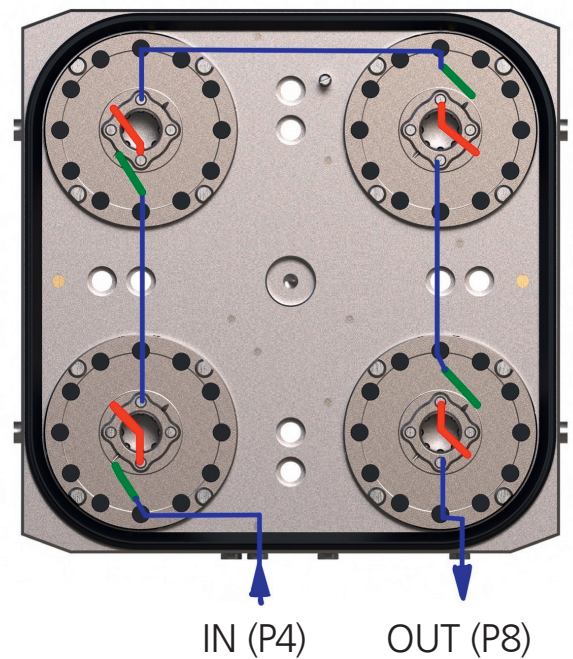
The same air circuit is used to check the presence of the clamping spigots. Only when a pallet with four correct clamping spigots is inserted the sensor can determine the required pressure.

Combination makes the difference

If the combined locking & chucking spigot presence check is fulfilled, authorisation for machining is given. This means: All chucks are correctly clamped, all clamping spigots are present.

Option „Open-Check“

In customised design also available with chuck open control.



EROWA MTS 3.0

Base plates, 4-fold, automatable

Technical data	MTS 3.0 base plate universal, 4-fold, pneumatic, automatable
Repeatability	< 0.003 mm
Clamping	with spring tension (clamped without pressure)
Opening pressure	min. 6 bar (pneumatic)
Monitoring (Chuck P/A)	open check and combined locking & chucking spigot presence check
Security performance level	ISO 13849 PLd, Cat. 3
Clamping power with reclamping (mandatory)	80,000 N (4 x 20.000 N)

P = pneumatically operated
A = able to automate

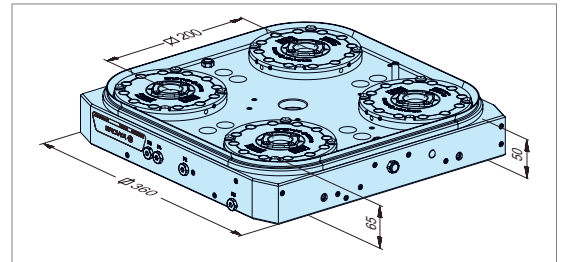
PC* = pitch circle

ER-143858 MTS 3.0 base plate 360 x 360 P/A universal, pitch 200

INOX ☒ auto ☐ ☐ ☐



Version	Base plate universal, steel unhardened, pitch 200 mm. Including adapter flange with air boreholes.
Connections	4 pneumatic connections, laterally and from underneath on PC* $\varnothing 57$ mm: for opening, reclamping, open check and for cleaning/presence check.
Option	Customized adapter flange available on request.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
To fit	Mounting hole pattern for grid 50 mm / M12 and for machine tables with T-slot distances of 63 and 100 mm.

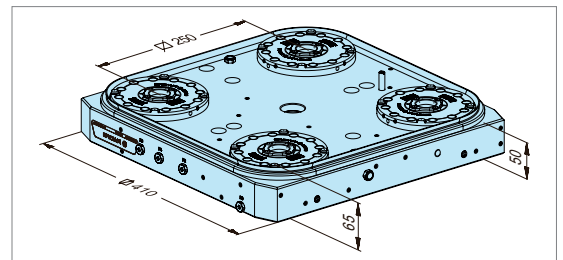


ER-143859 MTS 3.0 base plate 410 x 410 P/A universal, Pitch 250

INOX ☒ auto ☐ ☐ ☐



Version	Base plate universal, steel unhardened, pitch 250 mm. Including adapter flange with air boreholes.
Connections	4 pneumatic connections, laterally and from underneath on PC* $\varnothing 57$ mm: for opening, reclamping, open check and for cleaning/presence check.
Option	Customized adapter flange available on request.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
To fit	Mounting hole pattern for grid 50 mm / M12 and for machine tables with T-slot distances of 63 and 100 mm.

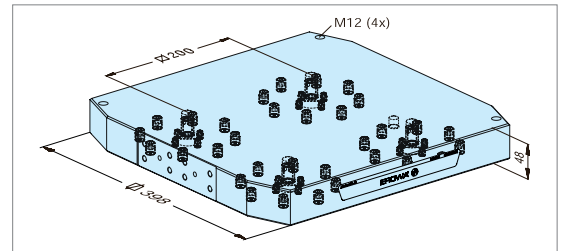


EROWA MTS 3.0

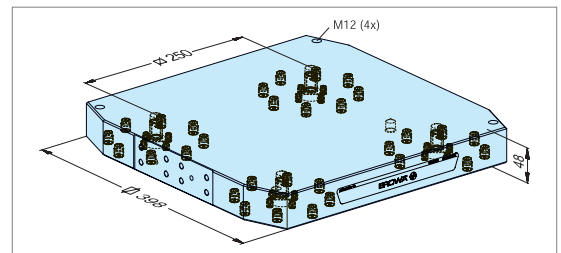
Pallets

**ER-143875 MTS pallet 398 x 398 / 200 FD
Z-support hard**

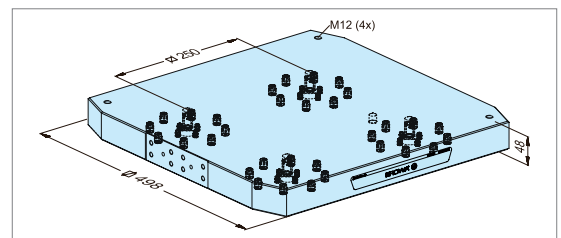
- Version Aluminum pallet, 4-fold, pitch 200 mm. With hard Z supports. Excluding MTS chucking spigots FD.
- Application To clamp workpieces, vises and gauges. Holes to be drilled as required.
- Accessories MTS chucking spigot set 4/ A-Z-FD Type 1 ER-171025, GripperLink RCS 45 mm ER-038622 and counter weight ER-146556.
- Compatibility MTS (up to max. 80 min⁻¹), MTS 2.0, MTS 3.0, MTS 4.0.

**ER-143876 MTS pallet 398 x 398 / 250 FD
Z-support hard**

- Version Aluminum pallet, 4-fold, pitch 250 mm. With hard Z supports. Excluding MTS chucking spigots FD.
- Application To clamp workpieces, vises and gauges. Holes to be drilled as required.
- Accessories MTS chucking spigot set 4/ A-Z-FD Type 1 ER-171025, GripperLink RCS 45 mm ER-038622 and counter weight ER-146556.
- Compatibility MTS (up to max. 80 min⁻¹), MTS 2.0, MTS 3.0, MTS 4.0.

**ER-145087 MTS pallet 498 x 498 / 250 FD
Z-support hard**

- Version Aluminum pallet, 4-fold, pitch 250 mm. With hard Z supports. Excluding MTS chucking spigots FD.
- Application To clamp workpieces, vises and gauges. Holes to be drilled as required.
- Accessories MTS chucking spigot set 4/ A-Z-FD Type 1 ER-171025, GripperLink RCS 45 mm ER-038622 and counter weight ER-146556.
- Compatibility MTS (up to max. 80 min⁻¹), MTS 2.0, MTS 3.0, MTS 4.0.



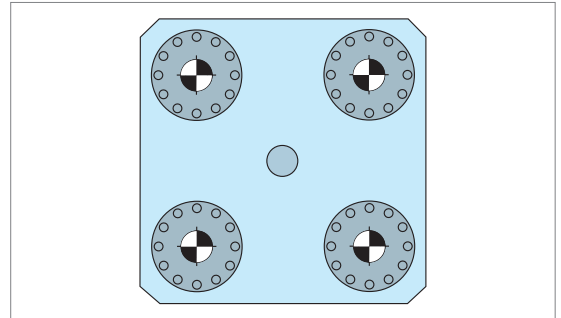
EROWA MTS 3.0

Chucking Spigot-Set

ER-171025 MTS chucking spigot set 4/ A-Z-FD Type 1 Fastening from below with spec. M12 bolt



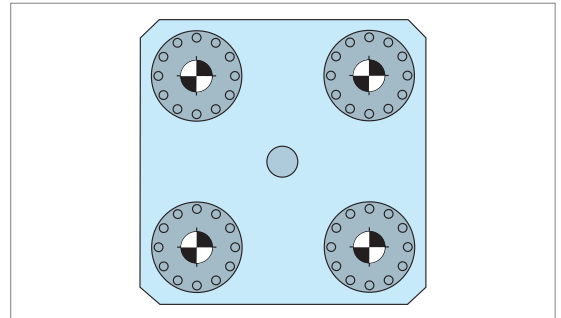
- Application** Primarily for rotary applications such as mill-turn machining and 5-axis machining.
- Version** 4x MTS centering spigots A-Z-FD, including special bolt
- Mounting** On the underside of the pallet - no fastening possible from above through the pallet.
- Note** The centering spigots FD can be used with pallets FD with MTS 2.0, MTS 3.0 and MTS 4.0.



ER-171026 MTS chucking spigot set 4/ A-Z-FD Type 2 Fastening from top with special M12 Nut



- Application** Primarily for rotary applications such as mill-turn machining and 5-axis machining.
- Version** 4x MTS centering spigots A-Z-FD, including special nut and washer. Without fixing screw M12.
- Mounting** From above through pallet - no fastening from below possible.
- Note** The centering spigots FD can be used with pallets FD with MTS 2.0, MTS 3.0 and MTS 4.0.



EROWA - Manufacturing automation at its best

EROWA AG, founded in Switzerland in 1971, is now a globally operating organization specializing in the development, production, consulting, and distribution of state-of-the-art manufacturing technology for tool and mold making, as well as for production and precision engineering. With their headquarters located in central Switzerland, EROWA ranks among the world's leading companies in clamping technology and automation. Having 13 subsidiaries and 22 representatives, EROWA offers international points of contact and worldwide customer service.



Empowering Your Production

The next step towards greater efficiency, precision and productivity starts now. With EROWA, you have a partner who will optimize your production holistically - from clamping technology to automation and process control. Our innovative solutions adapt flexibly to your requirements and grow with you - for production that is ready for tomorrow.

Get in touch with us - we will be happy to assist you.



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international