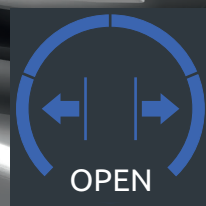
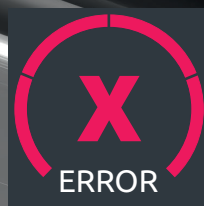
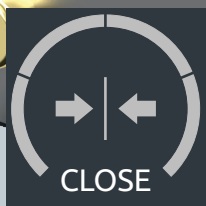
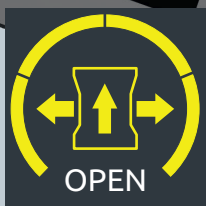


MTS 4.0

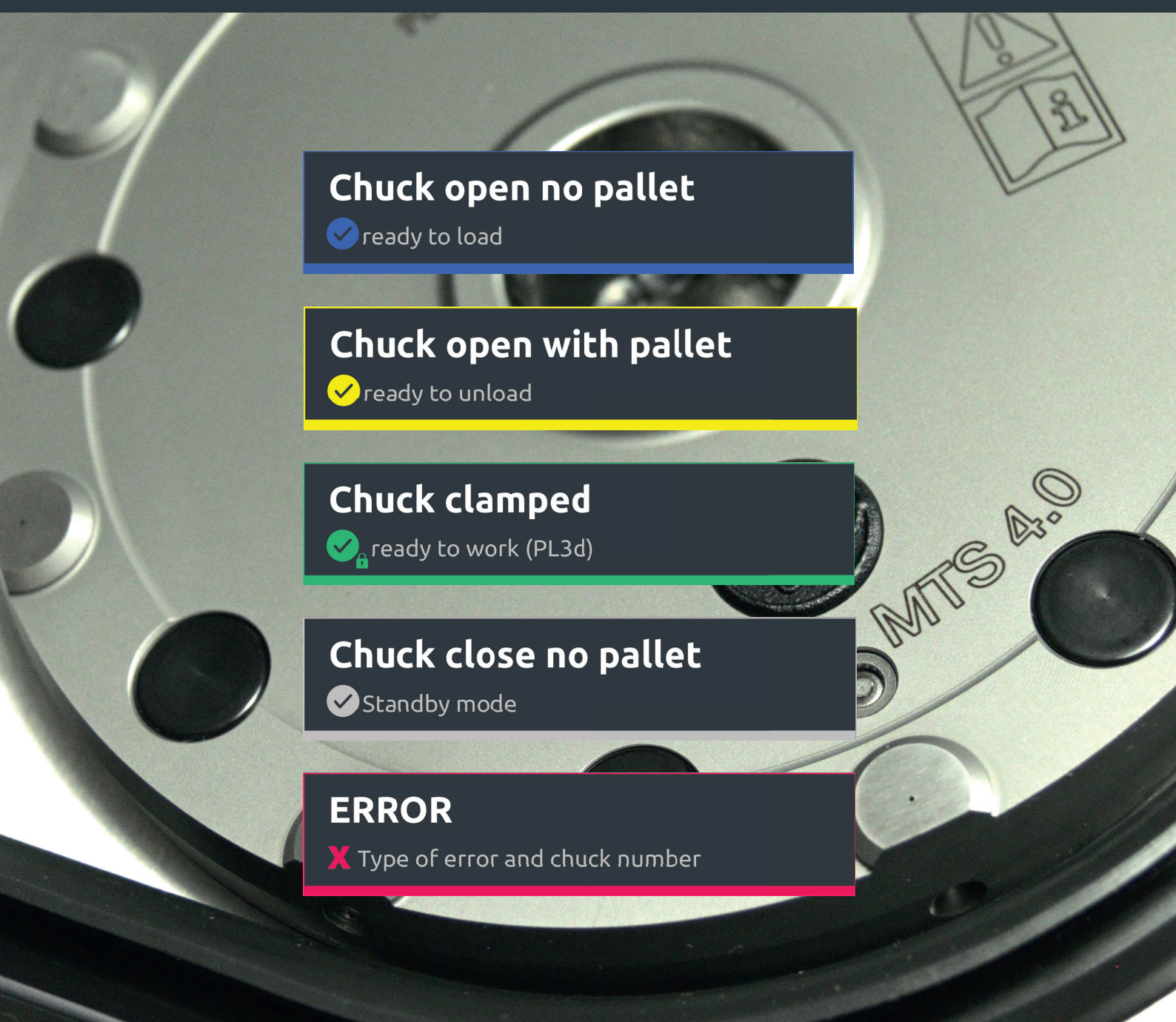
The zero point clamping system
with *wireless* - digital status monitoring



MTS 4.0 - Everything under control

EROWA MTS 4.0 chucks are the smart version of the MTS clamping system family. They provide all the information required for process control for safe machining in real time.

Fully integrated into the machine tool, signals are available that describe the status of the chuck. The data is sent wirelessly from the chuck to a receiver integrated in the machine.

The background image is a close-up of a metallic chuck face. It features several circular clamping points and a central bore. A safety warning symbol (triangle with exclamation mark and a person icon) is visible in the upper right. The text "MTS 4.0" is engraved on the right side. Overlaid on the image are five semi-transparent rectangular boxes, each containing a status message with a colored icon and a title.

Chuck open no pallet

✓ ready to load

Chuck open with pallet

✓ ready to unload

Chuck clamped

✓ ready to work (PL3d)

Chuck close no pallet

✓ Standby mode

ERROR

✗ Type of error and chuck number

Ready for Smart Factory

Industry 4.0 ready

The wireless connection from the machine table to the radio receiver in the machine masters the challenge of signal transmission without cables. Electronic monitoring enables completely new evaluations of the chuck condition.



Full OEM Integration

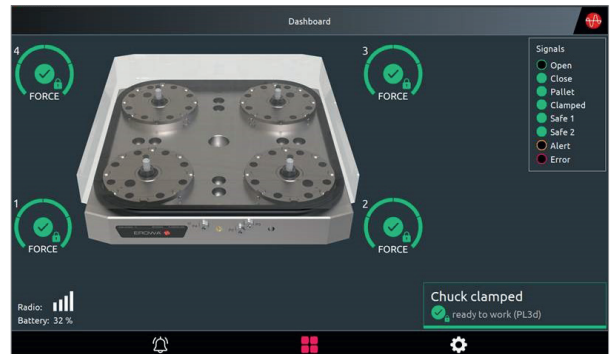
The integration of MTS 4.0 into a corresponding CNC machine includes the following points:

- MTS 4.0 base plate integrated on table with pneumatic supply
- Antenna for receiving the wireless signals from the chuck
- Safe, wireless datatransmission
- Gateway for processing the signals



The power of knowledge

Preventive maintenance, predictable maintenance costs and precise analyses of the processes are made possible thanks to the available data. The in-depth knowledge of the production steps supports optimisations.



Designed for the future ...

... now available; the zero point clamping system MTS 4.0 supports another step towards the Smart Factory.

KEY BENEFITS

- Digitally monitored tooling
- Increased process reliability
- Complies with ISO 13849 PLd-Cat. 3
- Two pneumatic supply lines only
- For decisions based on facts
- The single source smart solution

EROWA MTS 4.0

Base plates, 4-fold, automatable

Technical data	MTS base plates, 4-fold, pneumatic, automatable
Repeatability	< 0.003 mm
Clamping	with spring tension (clamped without pressure)
Opening pressure	min. 6 bar (pneumatic)
Monitoring	clamping force control, pallet presence control, open control, clamping cycle measurement, comprehensive fault diagnosis, and more.
security performance level	complies ISO 13849 PLd, Kat. 3
Clamping Power reclamped (mandatory)	80'000 N (4 x 20'000 N)

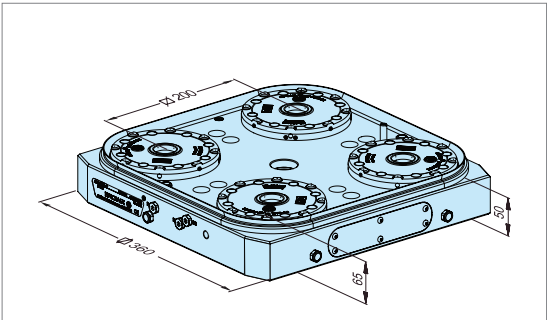
P = pneumatically operated
A = able to automate

TK* = Diameter of partial circle

ER-133000 MTS 4.0 Base plate 360 x 360 P/A Universal, pitch 200



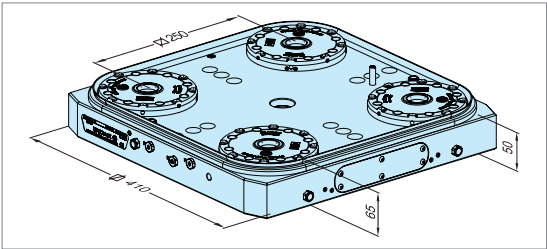
Version	Base plate universal, steel unhardened, pitch 200 mm. Including adapter flange with air boreholes.
Connections	From below on TK ø57 mm (pneumatic): For opening, cleaning, and reclamping.
Option	Customized adapter flange available on request.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Mounting	Mounting hole pattern for grid 50 mm / M12 and for machine tables with T-slot distances of 63 and 100 mm.



ER-168500 MTS 4.0 Base plate 410 x 410 P/A Universal, pitch 250



Version	Base plate universal, steel unhardened, pitch 250 mm. Including adapter flange with air boreholes.
Connections	From below on TK ø57 mm (pneumatic): For opening, cleaning, and reclamping.
Option	Customized adapter flange available on request.
Application	To accommodate multiple pallets. For direct assembly on machine tables.
Mounting	Mounting hole pattern for grid 50 mm / M12 and for machine tables with T-slot distances of 63, 75 and 100 mm.



EROWA MTS 4.0

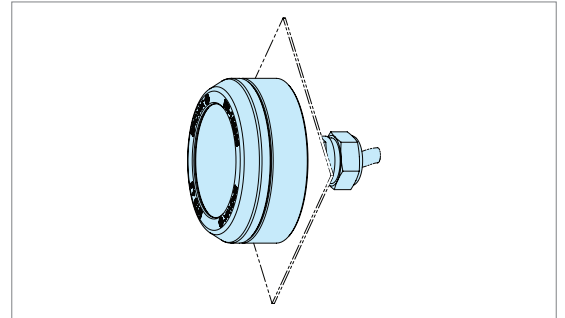
Signal technology

ER-155300 MTS 4.0 antenna (5m) With RJ45 cable

auto ☐ ☐ ☐ ☐   

Application For receiving sensor data from the base plate for the gateway.

Mounting In a suitable sheet metal cutout in the machine interior.

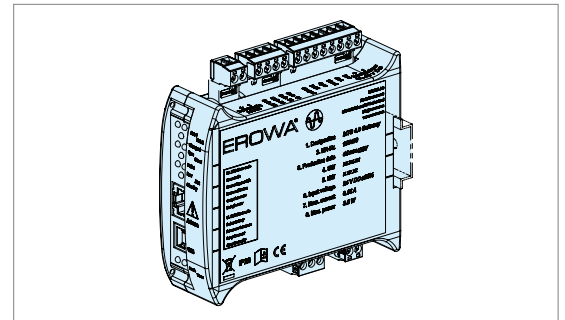


ER-155400 MTS 4.0 Gateway

auto ☐ ☐ ☐ ☐   

Application For analyzing the sensor data of the chucks and providing the digital 24 V I/O signals for the machine.

Mounting Directly on 35 mm top-hat rail.

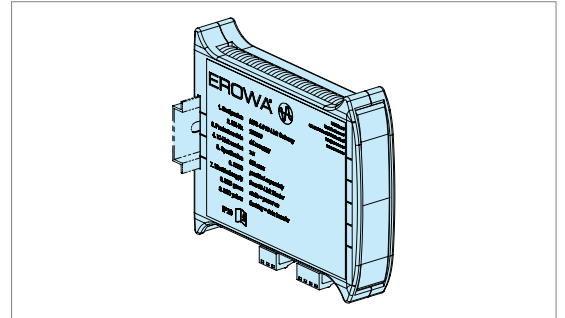


ER-166330 MTS 4.0 IO-Link Gateway

auto ☐ ☐ ☐ ☐   

Application For providing IO-Link signals to the machine.

Mounting Directly on 35 mm top-hat rail.



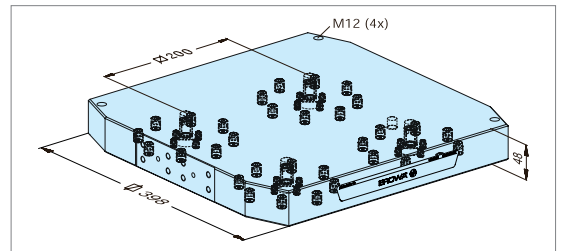
EROWA MTS 4.0

Pallets FD

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



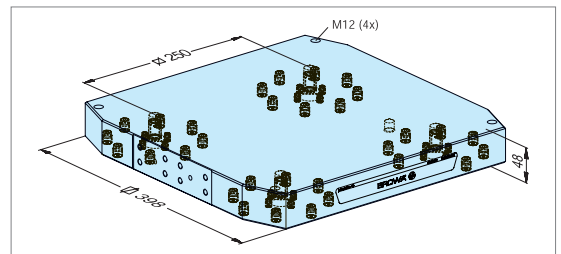
- Version Aluminum pallet, 4-fold, pitch 200 mm. With hard Z supports. Excluding MTS chucking spigots FD.
- Application To clamp workpieces, vises and gauges. Holes to be drilled as required.
- Accessories MTS chucking spigot set 4/ A-Z-FD Type 1 ER-171025, GripperLink RCS 45 mm ER-038622 and counter 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



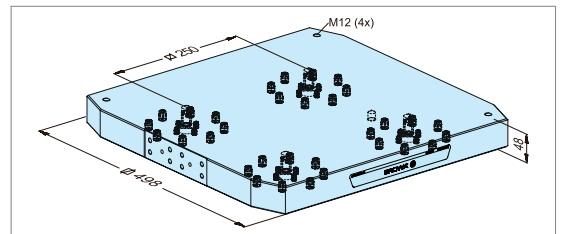
- Version Aluminum pallet, 4-fold, pitch 250 mm. With hard Z supports. Excluding MTS chucking spigots FD.
- Application To clamp workpieces, vises and gauges. Holes to be drilled as required.
- Accessories MTS chucking spigot set 4/ A-Z-FD Type 1 ER-171025, GripperLink RCS 45 mm ER-038622 and counter 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.



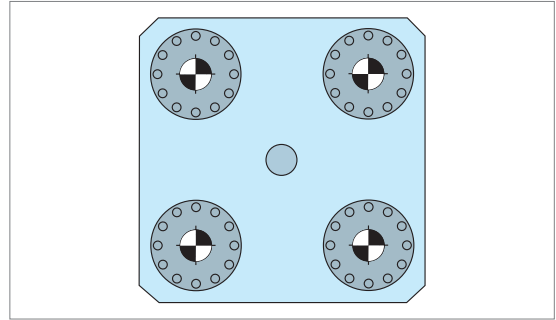
EROWA MTS 4.0

Chucking spigot set

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



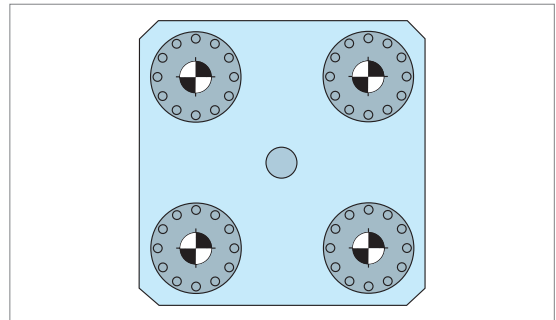
- Application** Primarily for rotary applications such as mill-turn machining and 5-axis machining.
- Version** 4x MTS centering spigots A-Z-FD, including special bolt
- Mounting** On the underside of the pallet - no fastening possible from above through the pallet.
- Note** The centering spigots FD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

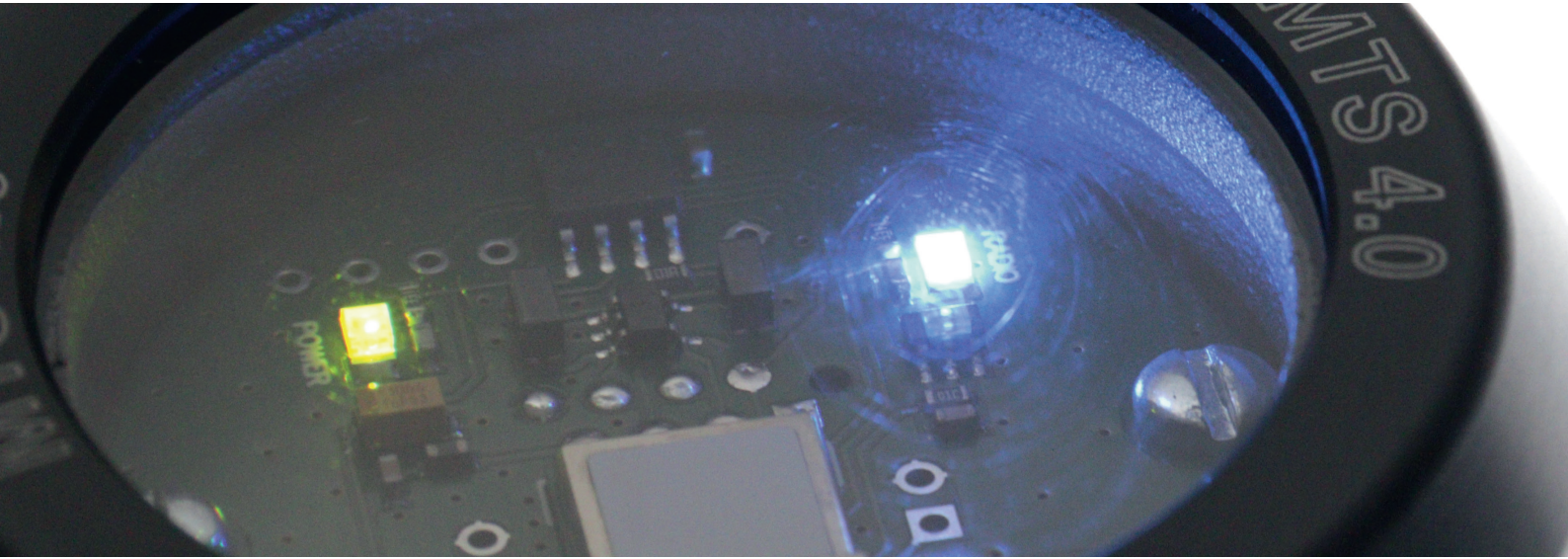


- Application** Primarily for rotary applications such as mill-turn machining and 5-axis machining.
- Version** 4x MTS centering spigots A-Z-FD, including special nut and washer. Without fixing screw M12.
- Mounting** From above through pallet - no fastening from below possible.
- Note** The centering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



MTS 4.0 The *wireless* - digital status zero point clamping system

Safety first



In a nutshell

- MTS 4.0 is an innovative and trendsetting solution for process safety.
- The technical implementation of the requirements is groundbreaking and approved for Industry 4.0
- The scalable solution makes it possible to provide all participants with level-appropriate information via standardised interfaces.

