

EROWA Mixed Part- and Pallet-Handling with Robot Six

The perfect combination



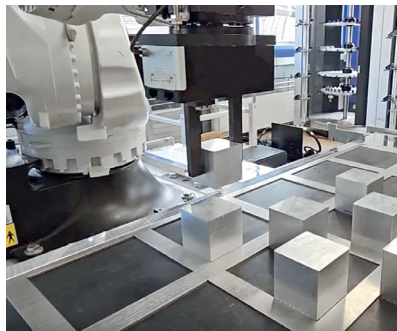
From pallets to raw parts – everything combined

Do you need maximum flexibility? The new and modular mixed handling system of the EROWA Robot Six is the economical solution for mixed raw part and pallet handling. It allows you to automate different processes with just one system. For “medium-mix, medium-volume” manufacturing – efficient, space-saving, and highly productive.



Plenty of space

With up to nine drawers, the drawer magazine can be freely configured to the sizes of the parts to be processed and offers a large work supply for bridging unmanned shifts or production over the weekend.



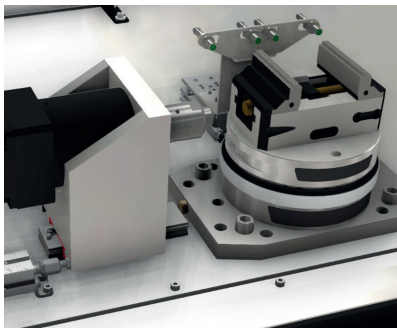
Freely configurable

The individual configuration of the drawer grid allows application-specific grid plates for raw parts or mold cavities for semi-finished parts to be integrated as required. Individual grids for each drawer create space for a wide range of workpieces – while maximizing capacity utilization.



Everything Under Control

The gripper system is equipped with an EROWA standard coupling for picking up any interchangeable grippers for pallet handling, a servo gripper for raw parts/ semi-finished parts, and a drawer opener. A nozzle for blowing away chips and cooling lubricants can also be integrated as an option.



Clamping station

The clamping station can be individually configured depending on the model of the self centering vise used. Thanks to its scalability, the system can be expanded to include other types of self centering vises with different dimensions and clamping stations.



Securely Clamped

The gripper automatically adjusts to the size and geometry of the workpiece. After being removed from the drawer magazine, the workpiece is precisely inserted into the self centering vise in the clamping station and secured with the desired torque.



Everything at a Glance

Seamless integration into the EROWA JMS 4.0 ProductionLine control system - Intuitive operation through the integrated touch monitor, conveniently located on the drawer magazine. Stay informed with real-time visibility of current drawer loads and automatic validation of space conflicts.

01 | Drawer magazine

Individual configuration of the drawer grid.

02 | Process control system

Control panel for manufacturing cell.

03 | Grid plate

Can be customized for specific applications for raw parts or mold cavities for semi-finished parts.

04 | Clamping station for raw parts

Automatic docking, precise positioning of the clamping jaws, and monitored clamping are included.

05 | Gripper system

For attaching interchangeable grippers for pallet handling, a servo gripper for raw parts/semi-finished parts, and a drawer opener.

06 | EROWA Robot Six

Flexible loading device for transfer weights up to 800 kg.

07 | Security / Access protection

The barriers serve as access protection.

08 | Pallet magazine

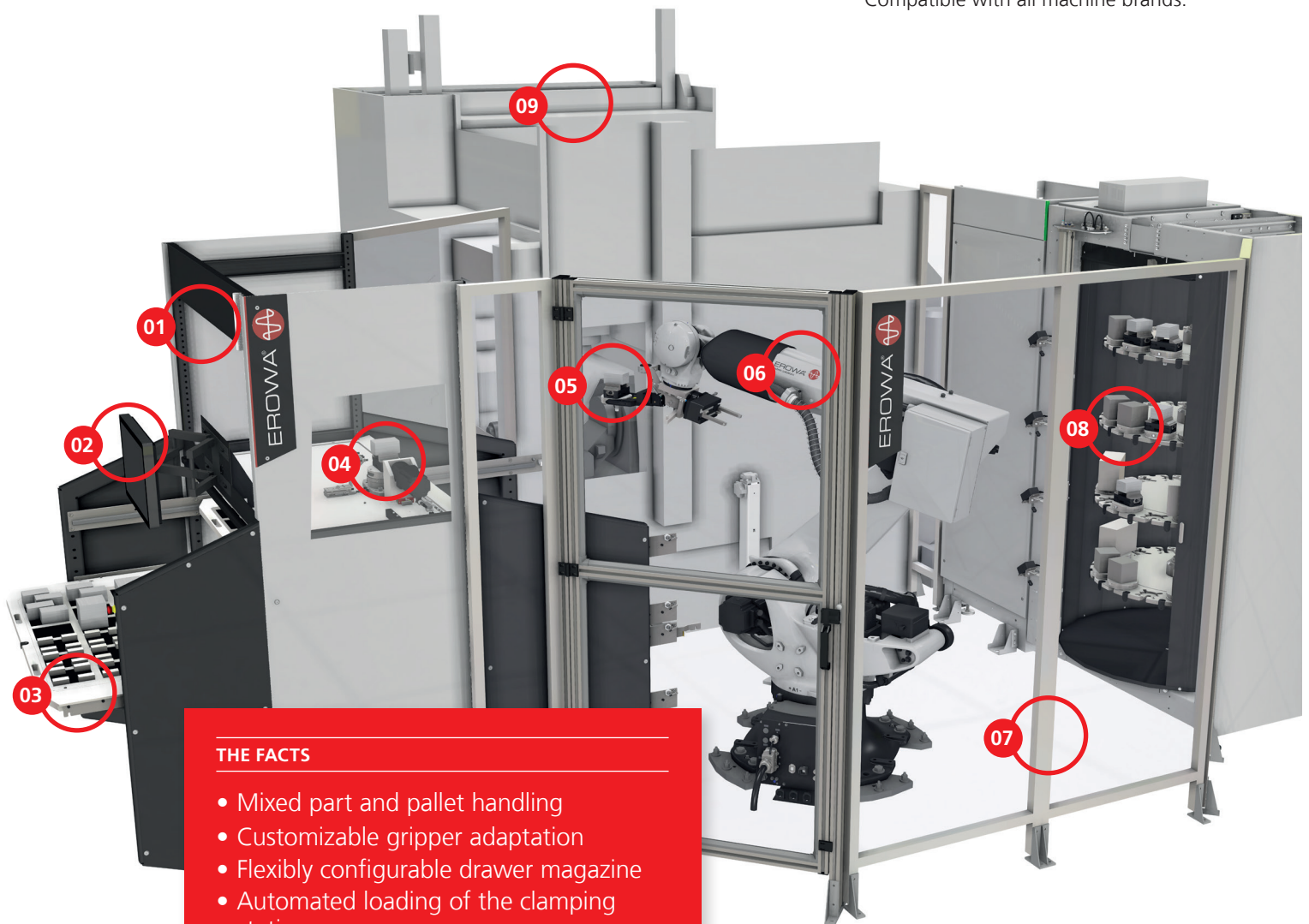
Large magazine storage for pallets and centering clamps with assembled raw parts. Freely configurable.

09 | Machining center

Compatible with all machine brands.

THE FACTS

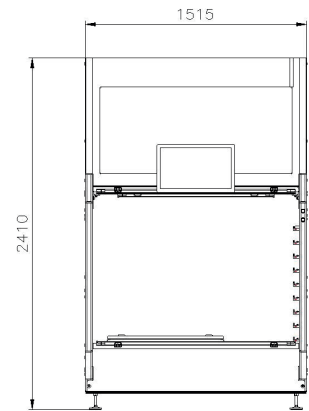
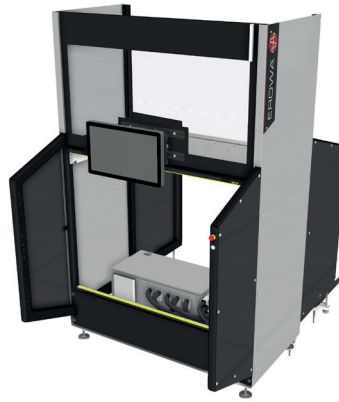
- Mixed part and pallet handling
- Customizable gripper adaptation
- Flexibly configurable drawer magazine
- Automated loading of the clamping station
- Clamping station with torque up to 100 Nm
- Seamless integration into the JMS 4.0 PL control system
- Standardized and scalable automation solution
- Compatible with all machine brands
- AGV/AMR connection



Drawer magazine - base

Consisting of:

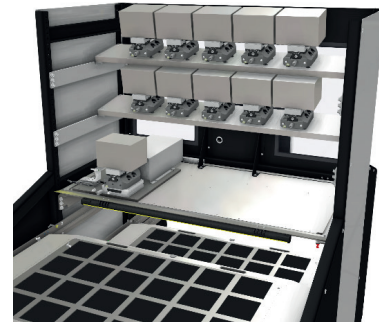
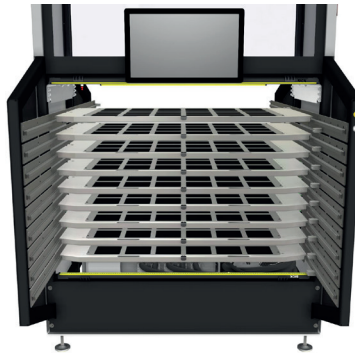
- Magazine base including control cabinet.
- 21.5" Touch-IPC.
- Safety technology (double-sided light curtains).
- Control elements and locking mechanism for drawers.
- Expandable with 2 clamping stations.



OPTIONS

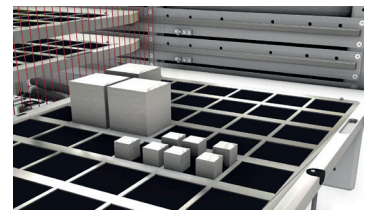
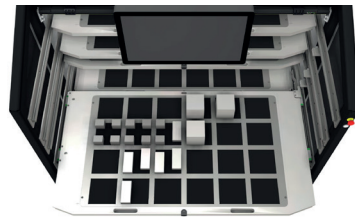
Drawer / Storage boards

- Depending on the desired part height, up to 9 freely configurable drawers can be set up.
- Storage boards allow the free space above the drawers to be used as additional storage for self centering vises, pallets, and interchangeable grippers.



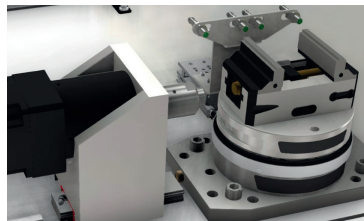
Drawer grid

- Customized grid plates for raw parts and/or mold cavities for semi-finished parts.



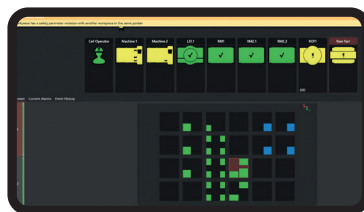
Clamping station

- Up to 2 clamping stations for self centering vises per magazine.
- Project-specific arrangement of clamps.



Process Control System JMS® 4.0 ProductionLine

- Simple operation via touch monitor directly on the drawer magazine.



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