

Robot Easy 250

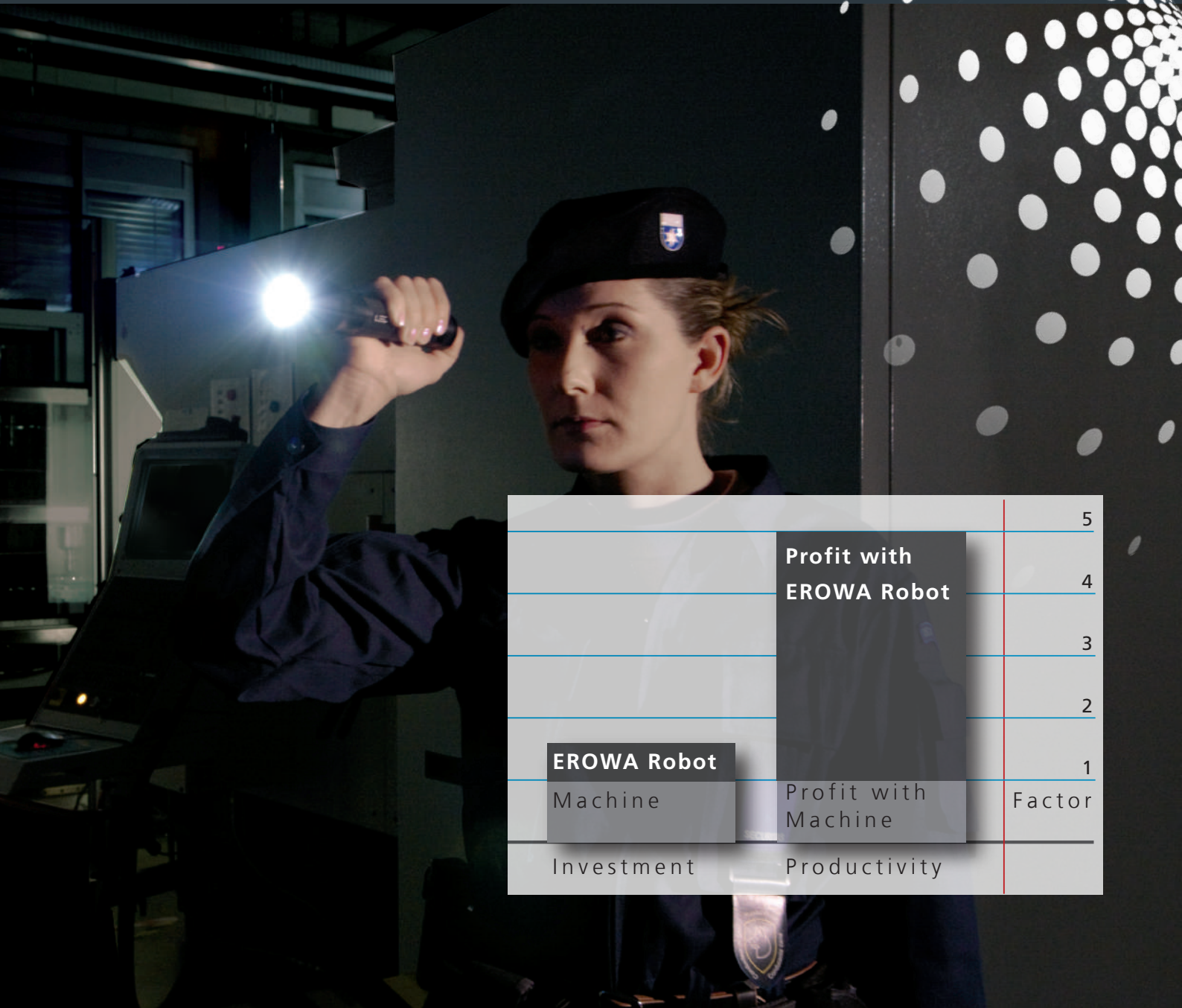
Simply efficient



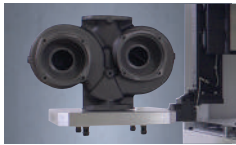
Is your production asleep?

Your machines are profitable when they are producing. They should run during the day, in off-peak hours and at night, even on weekends. Achieving this goal means combining all production requirements in a plan.

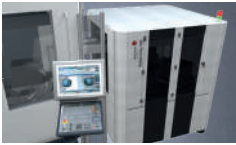
The plan is called "Flexible Manufacturing Concept – FMC". It is implemented in carefully measured steps.



		5
	Profit with EROWA Robot	4
		3
		2
EROWA Robot		1
Machine	Profit with Machine	Factor
Investment	Productivity	



Easy up to 250 kg **4**
 Transfer weight of up to 250 kg



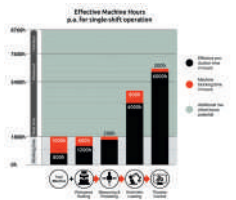
Easy to install **6**
 Variants for different workpiece sizes



Easy to retrofit **8**
 Fits all machines



Easy to control **10**
 Advanced process control system



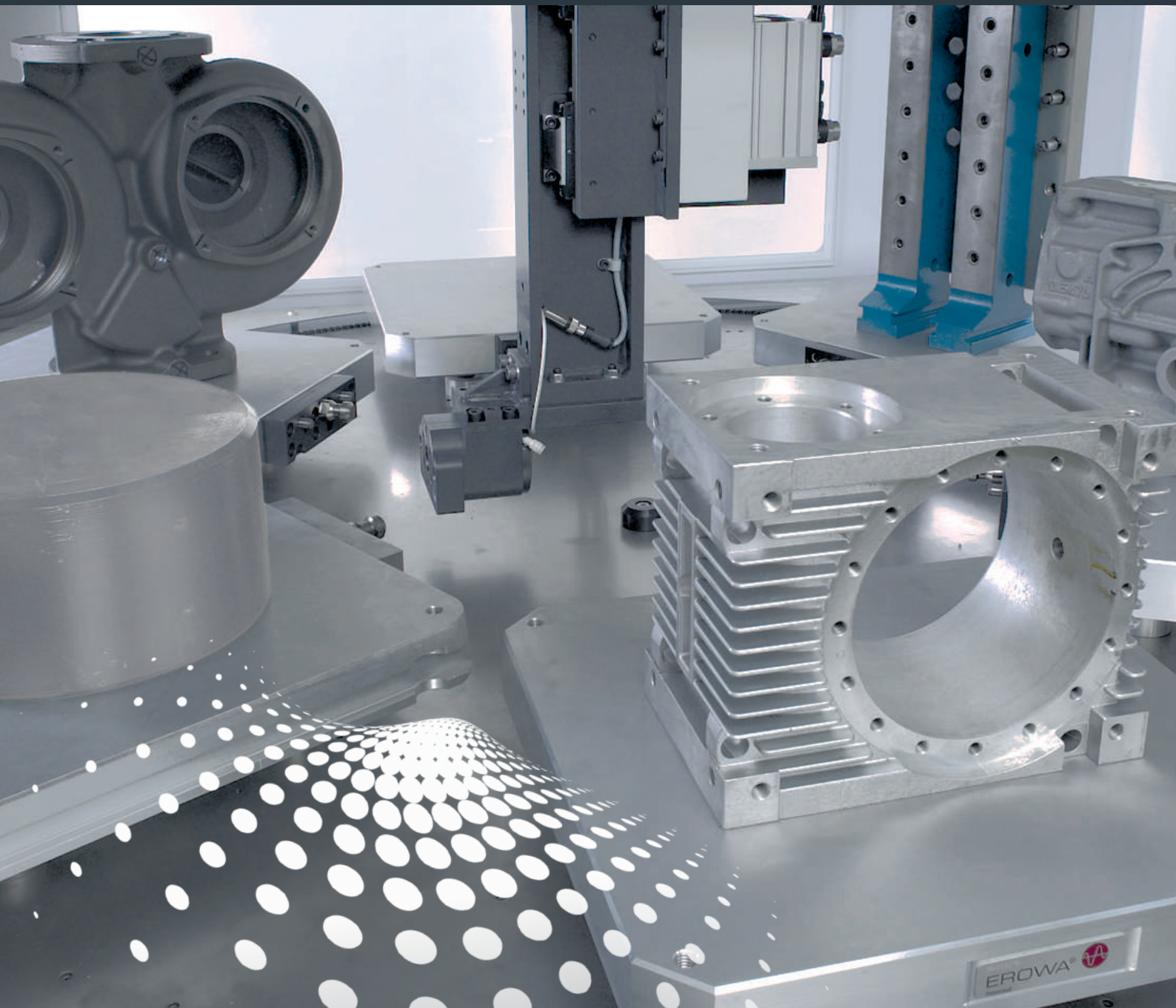
Easy to recoup **12**
 Recouped in a year



50 years of experience **14**
 Quickly installed and ready

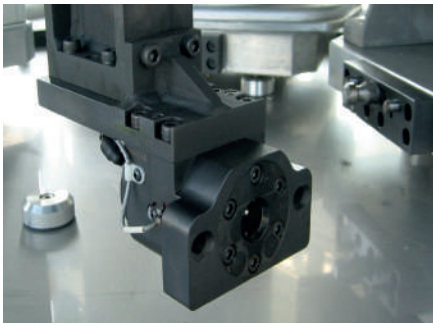
Easy up to 250 kg

The Robot Easy is robust and sturdy. For large and heavy workpieces there is hardly a more economical solution. The long extension path leaves no wish unfulfilled.

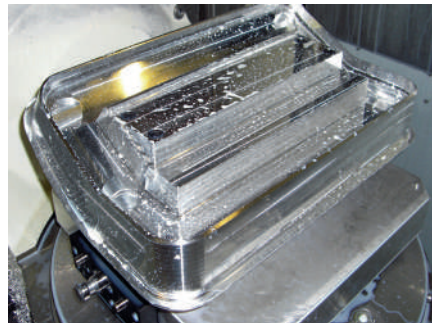




Moving 250 kg is no problem for the Robot Easy. Its robust design takes care of reliable pallet changes.



Strong is the RCS5 gripper. The internal monitoring system contributes to process reliability.



Large workpieces measuring L 500 x W 500 x H 400 mm fit in the magazine.



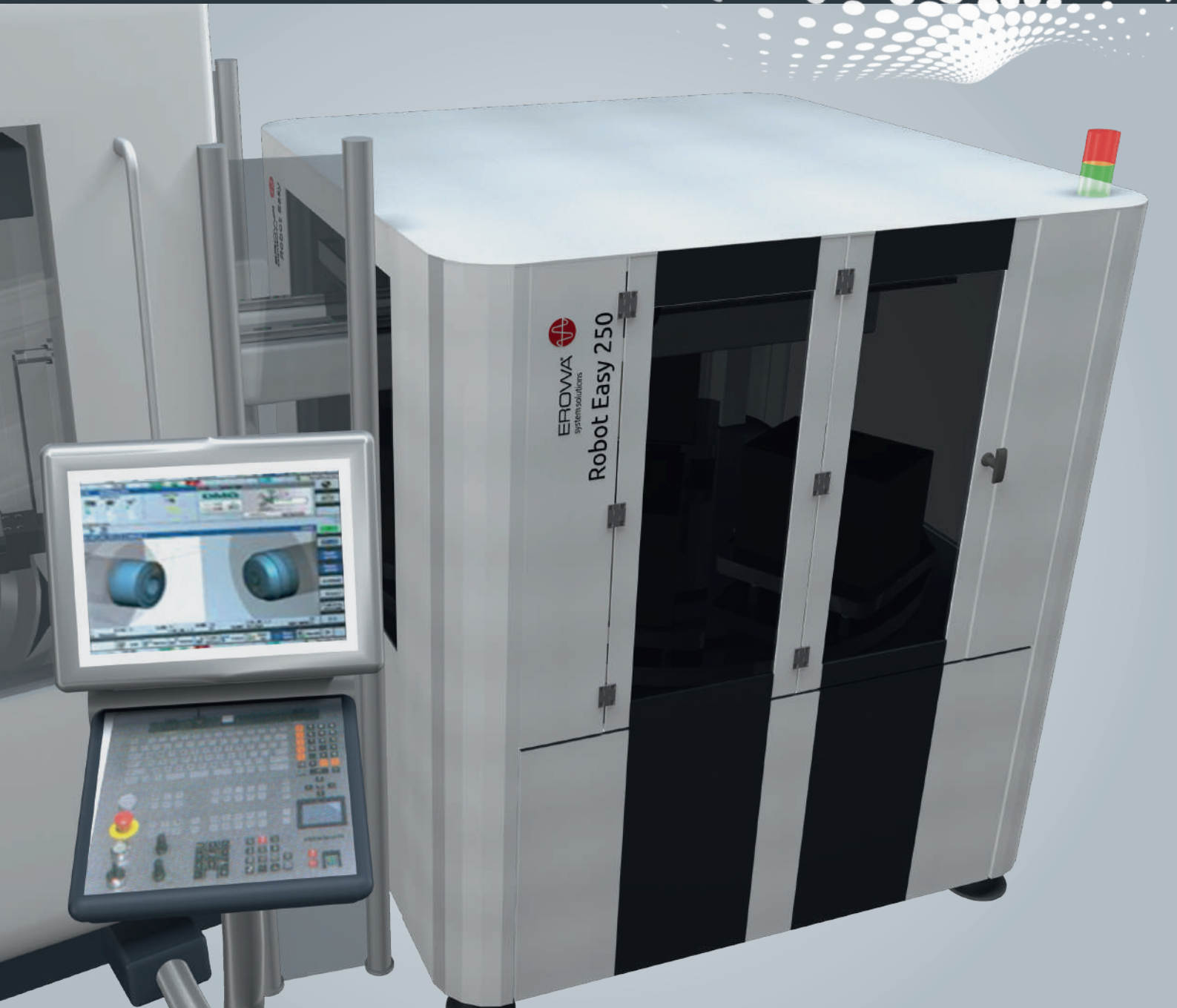
The axis remains stable even extended to 2500 mm. This is ensured by the design with double linear guides.

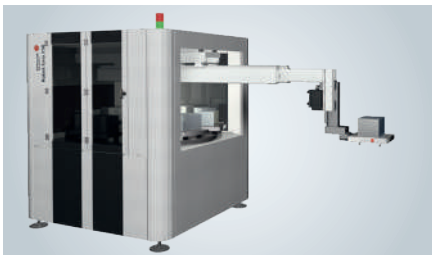
HEAVY WORKER

Workpiece size 500 x 500 x 400 mm
Transfer weight 250 kg

Easy to install

The Robot Easy fits all machines.
There are two different transfer axes to choose from,
depending on the workpiece weight.

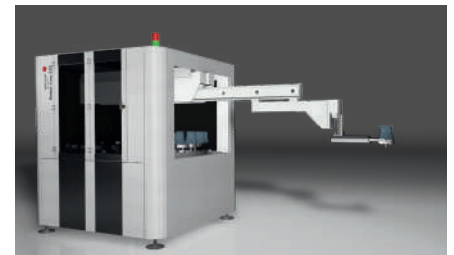




The long travel between the machine and the robot leaves enough space for manual work.



Machines with automatic workpiece change can deliver up to 4000 productive hours per year.



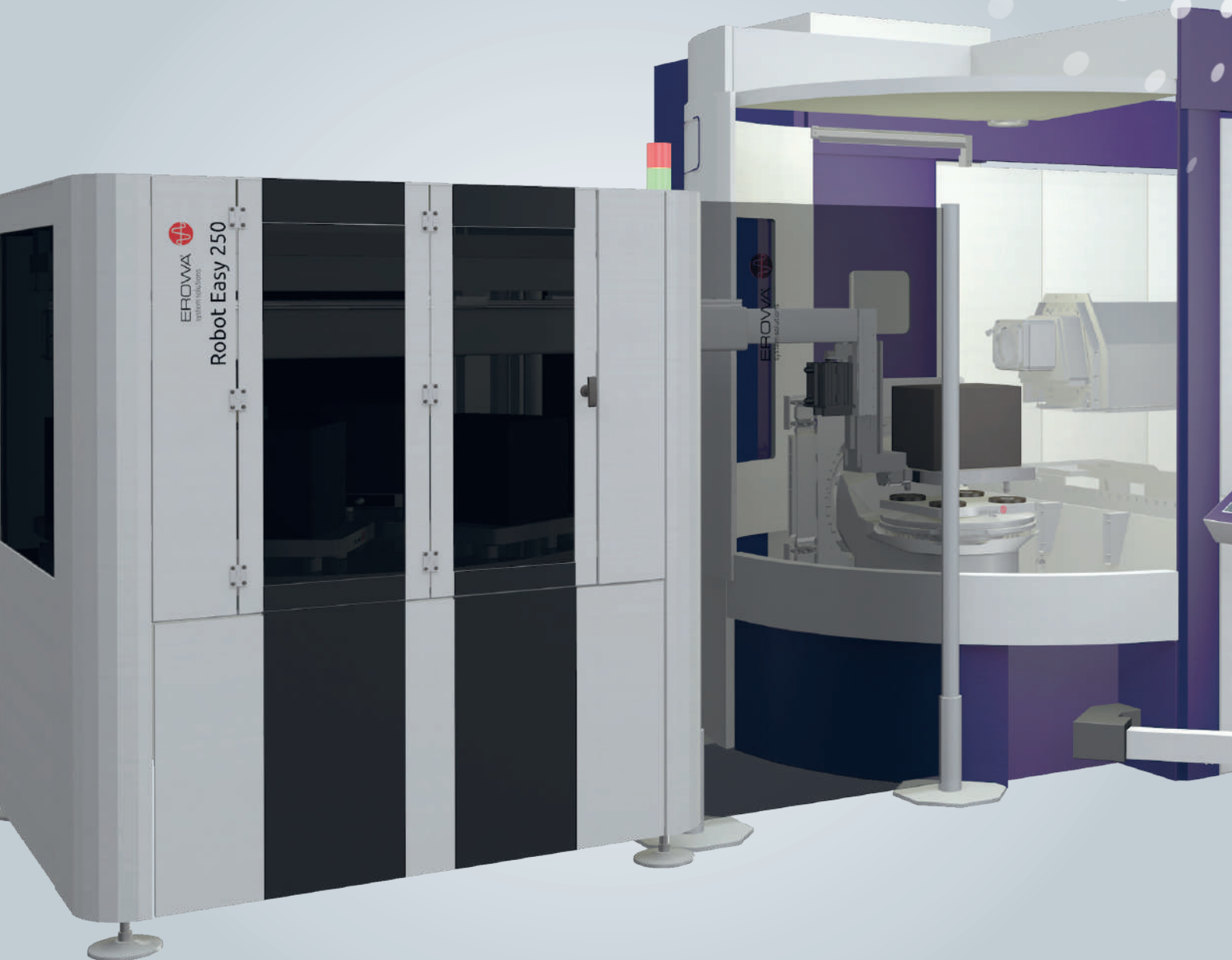
The "light" transfer axis is ideally suited to move pallets of up to 40 kg into the machine.

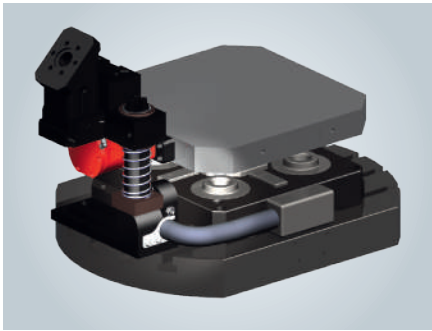
SUITABLE

For milling, drilling and grinding
Integrated height adjustment
Choice of transfer axis
Choice of magazine configuration

Easy to retrofit

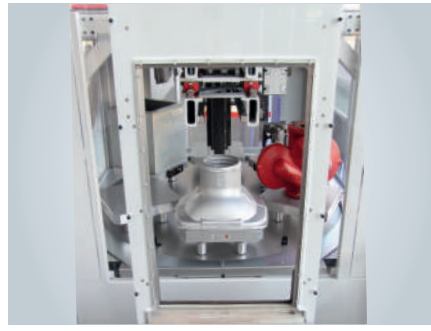
The Robot Easy can be integrated with existing machines. More productivity is a direct result.





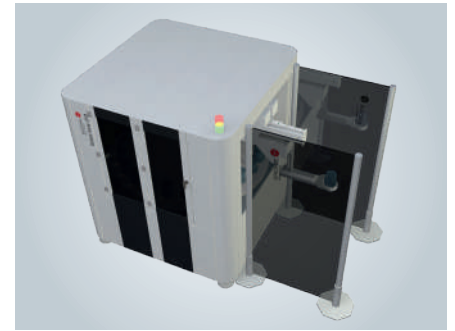
AirDock

Retrofitting air lines is often uneconomical on rotary tables. The Robot Easy solves this task with the AirDock option.



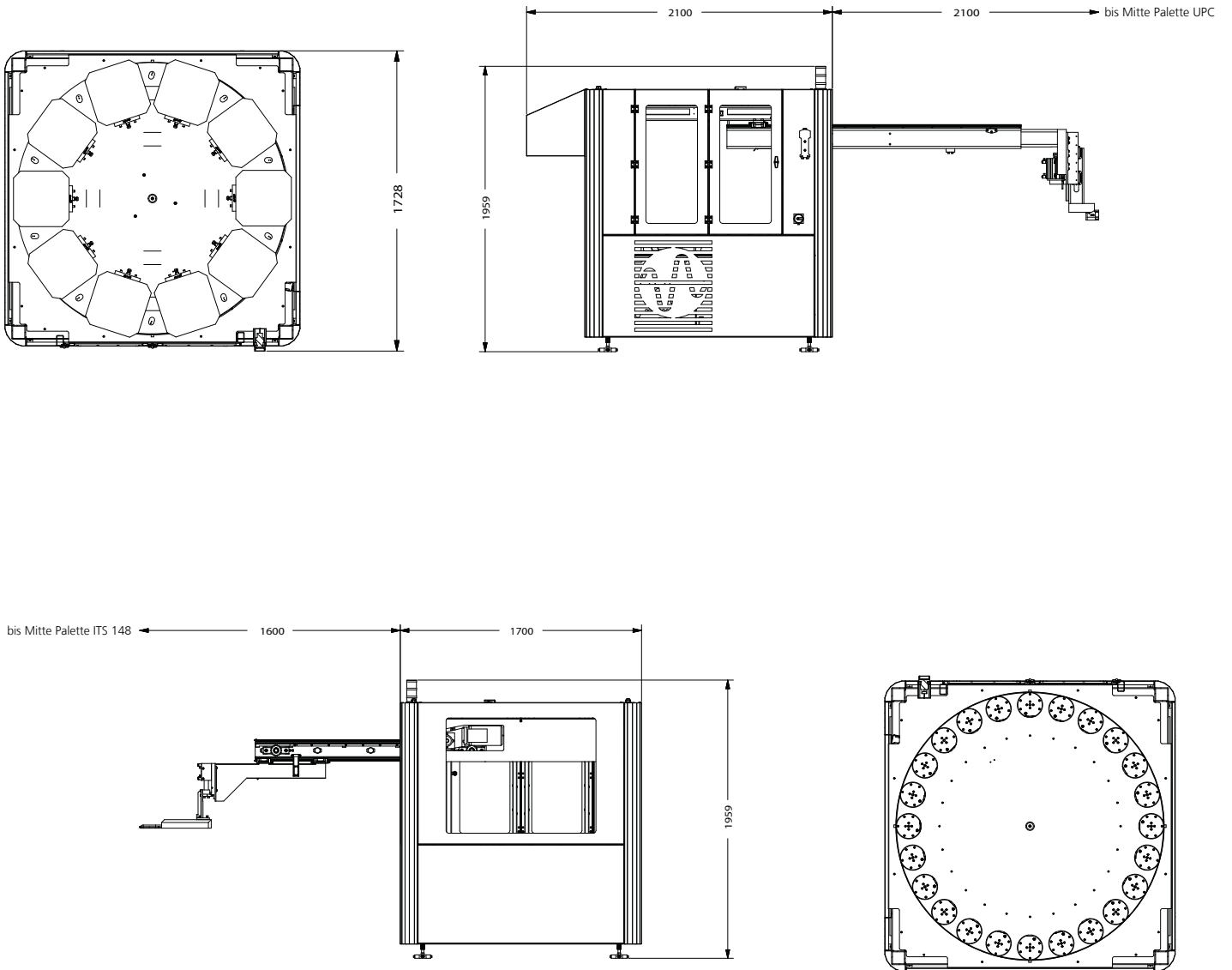
RoboDoor

For machines without an automatic door: RoboDoor. Well thought-out, quickly retrofitted, customized dimensions.



Safety barriers

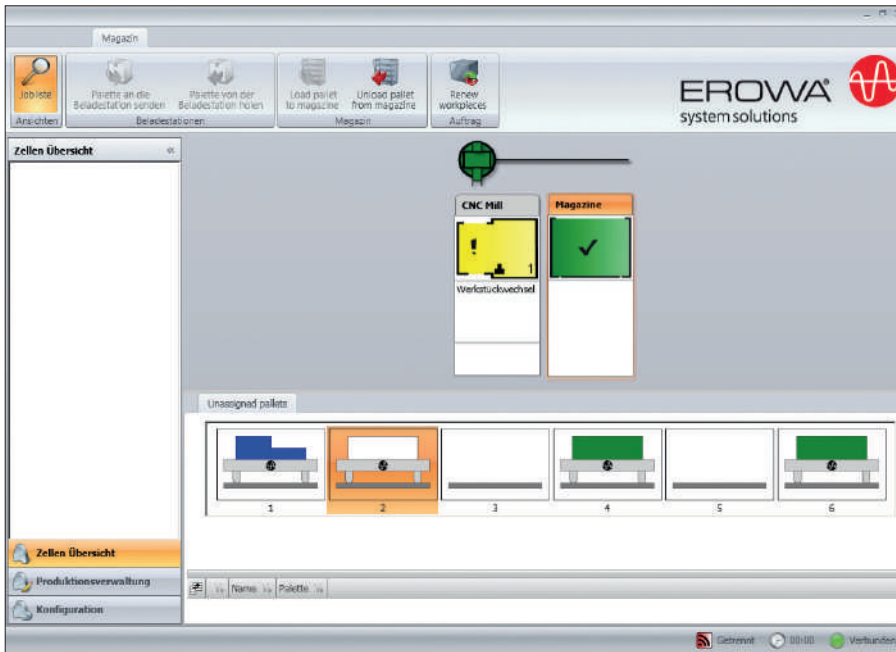
Safety rates high as well. Barriers and access doors are added on request.



Easy to control

A real pleasure to work opens up when the machine and robot are controlled via the EROWA JMS 4.0 process control system.

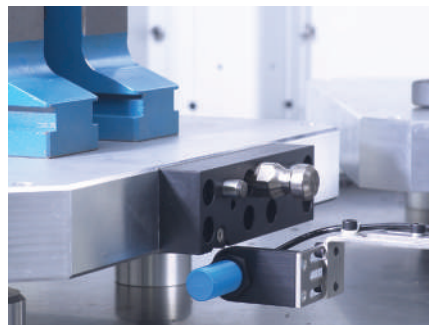




The operator is always being kept in the loop. CNC programs, set workpieces, currently remaining machining time, tool states and other information are available online.



See at a glance: the current autonomy of the system.



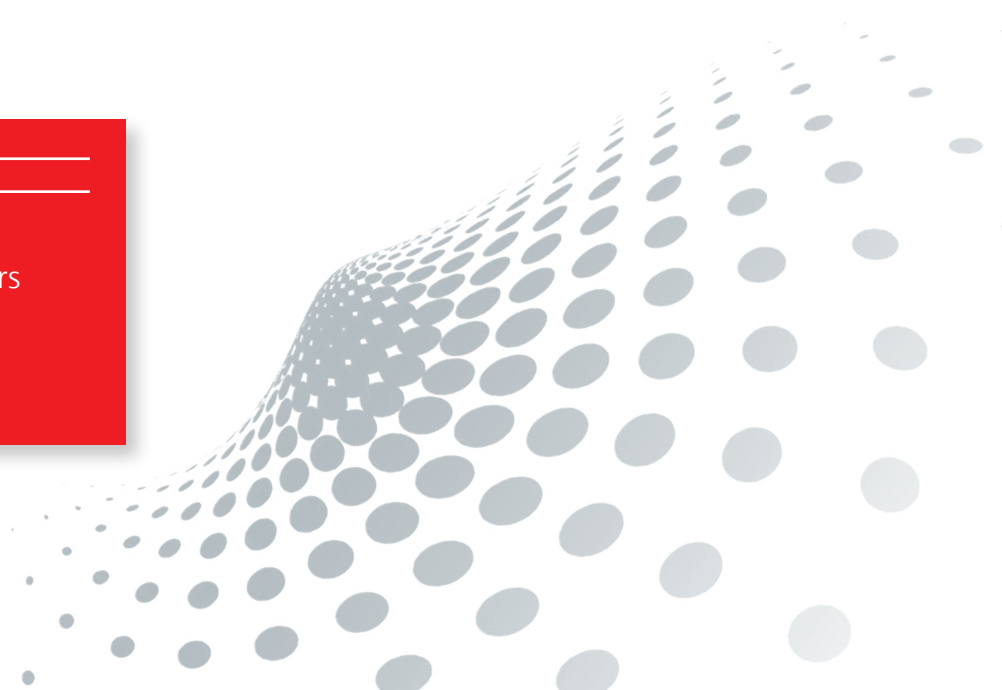
With the EWIST™ system, you always know each pallet's location, and the correct pallet is found automatically.

Name	State	Location	Initial Lifetime	Remaining Lifetime	Remaining Lifetime in %	Ready
50 77308001	Not Monitored		00:00:00	00:00:00		77308000
52 37800001	Ready		02:00:00	01:57:00		37800000
55 44000001	Error		00:15:00	00:05:00		44000000
54 35100001	Ready		01:40:00	00:40:00		35100000
55 48000003	Error		00:30:00	00:00:00		48000000
56 70000001	Error		01:20:00	00:42:00		70000000
57 18000001	Ready		01:40:00	01:40:00		18000000
59 53000001	Ready		01:50:00	00:50:00		53000000
60 70000001	Ready		01:20:00	00:58:00		70000000
61 58000001	Ready		00:50:00	00:50:00		58000000
63 21000001	Not Monitored		00:00:00	00:00:00		21000000
62 53000001	Ready		01:20:00	00:55:00		53000000
64 52000001	Not Monitored		00:00:00	00:00:00		52000000
65 88000001	Ready		01:30:00	01:04:00		88000000

With different filter functions, the situation in the machine's tool memory is clearly displayed.

KEEPS YOU IN THE LOOP

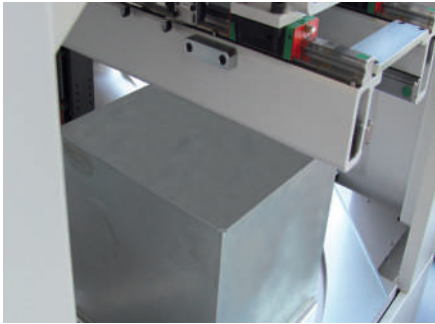
- Color code for quick overview
- Intuitive layout for the operators
- Logical process steps
- Current information



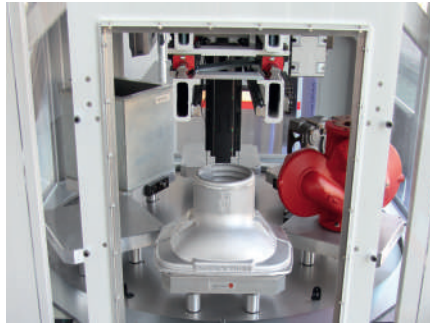
Easy to recoup

The investment will pay for itself within a year. The large increase in autonomy allows 4000 and more productive hours.





Rugged design for use around the clock.



Worklist for many off-peak and night hours.

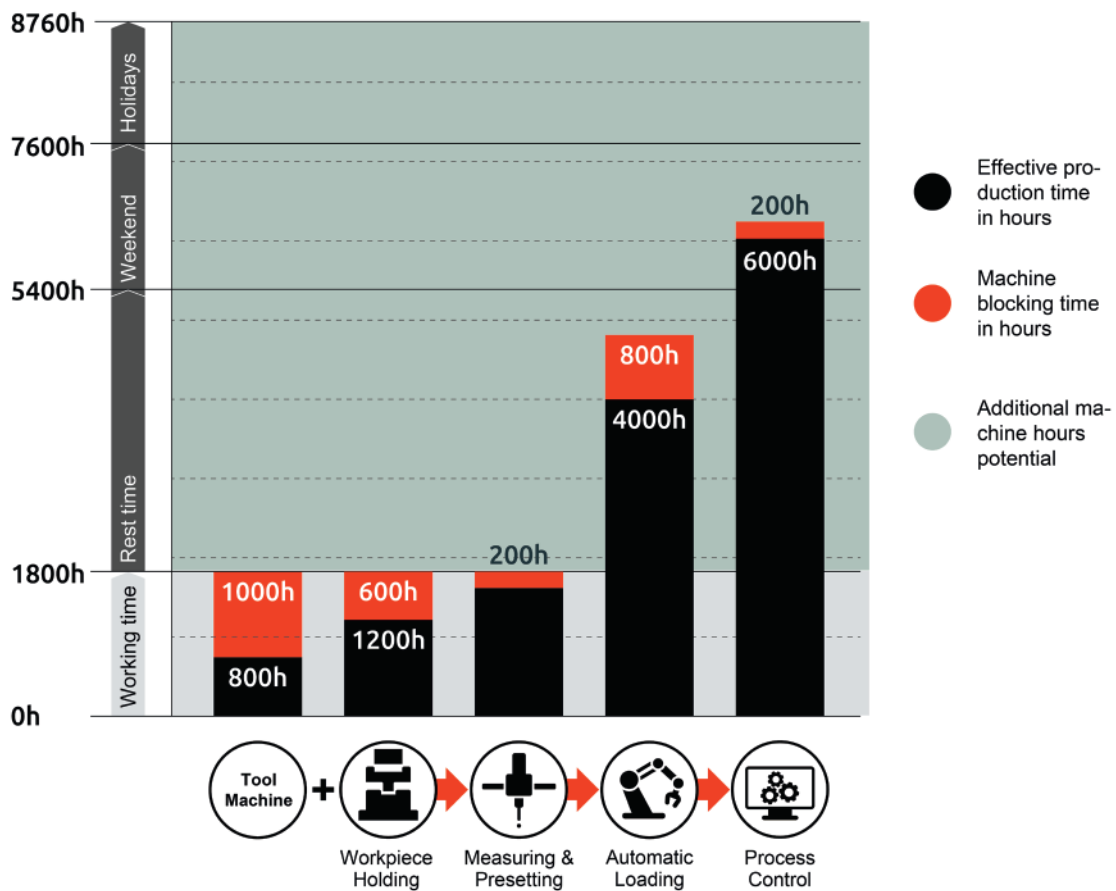


Integrated intelligence – once set up, the processes run almost automatically.



Top loading door for crane operation.

Effective Machine Hours p.a. for single-shift operation



50 years of experience

Long experience - short start-up.

EROWA robots consist of sophisticated, standardized components. This allows short set-up times.

Your critical benefits

- Everything from one single source
- Independent partner
- Perfect service with worldwide application
- Experience with over 4000 robots
- Standardized interfaces
- Long-life systems
- Integrated security system

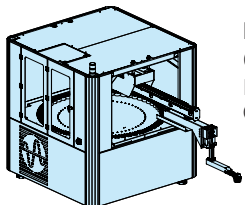
The Facts

- 250 kg transfer weight
- Magazine with 4 to 60 positions
- Monoblock architecture


Extension options

- AirDock for air supply to the machine table
- EWIS™ automatic pallet recognition
- Control system JMS 4.0
- Safety barriers

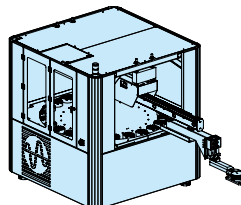
THE NUMBER OF PALLET POSITIONS DEPENDS ON THE TOOLING USED.




ITS 50/72
60 x ITS 50
Holder 72
(Light axis)



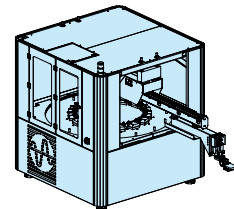
Workpiece height = 170 mm




ITS 115/148
24 x ITS 115/148
(Light axis)



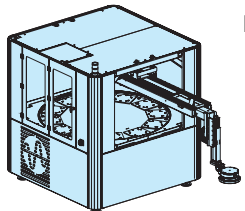
Workpiece height = 190 mm




PalletSet W
7 x frame
15 x holder
(Light axis)



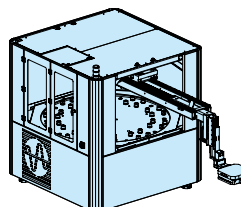
Workpiece height = 170 mm



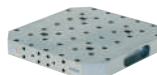
PC 210
12 x PC 210



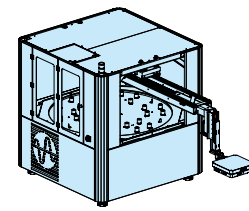
Workpiece height = 440 mm




UPC
10 x UPC



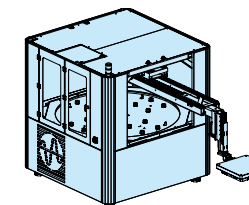
Workpiece height = 390 mm




MTS 400
ITS MTS 400
6 x ITS MTS 400



Workpiece height = 400 mm



MTS 500
ITS MTS 500
4 x ITS MTS 500



Workpiece height = 400 mm

SYSTEM GRIPPERS



RCS 5 gripper for MTS/UPC/PalletSet W
Capacity MTS max. 250 kg
Capacity UPC max. 130 kg
Capacity PalletSet W 30 kg



PC210 gripper for PC210
Pallets with ring groove
Capacity max. 130 kg



ITS 148 gripper for ITS 148 pallets
Capacity max. 40 kg



ITS 115 gripper for ITS 115 pallets
Capacity max. 40 kg



PM 56 gripper for PM Tooling.
Capacity max. horizontal/vertical 5 kg



PM 85 and PM 130 gripper for PM tooling. Capacity max horizontal 20 kg, vertical 10 kg



Gripper for ITS holder 72
Capacity max. 20 kg



S gripper for ITS 50 holder
Capacity max. 20 kg



Combo gripper for ITS and Compact tooling. Capacity max. horizontal 8 kg

TECHNICAL DETAILS

TRANSFER WEIGHT

Standard max. **250 kg**
Light axis max. **40 kg**

TRANSFER AXIS

Transfer path (option) mm **1600 (2500)**
System size L x W x H mm **1700x1700 (2100)x1800**

MAGAZINE POSITIONS

Magazine capacity **4-60 positions depending on pallet size**

ELECTRONICS

Automatic pallet recognition **Yes / EWIS™**
Process control system interface **Yes**

The next step

Important things need to be planned. And your next step is certainly among the important things. 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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