

EROWA®
systemsolutions



Robot Easy 250

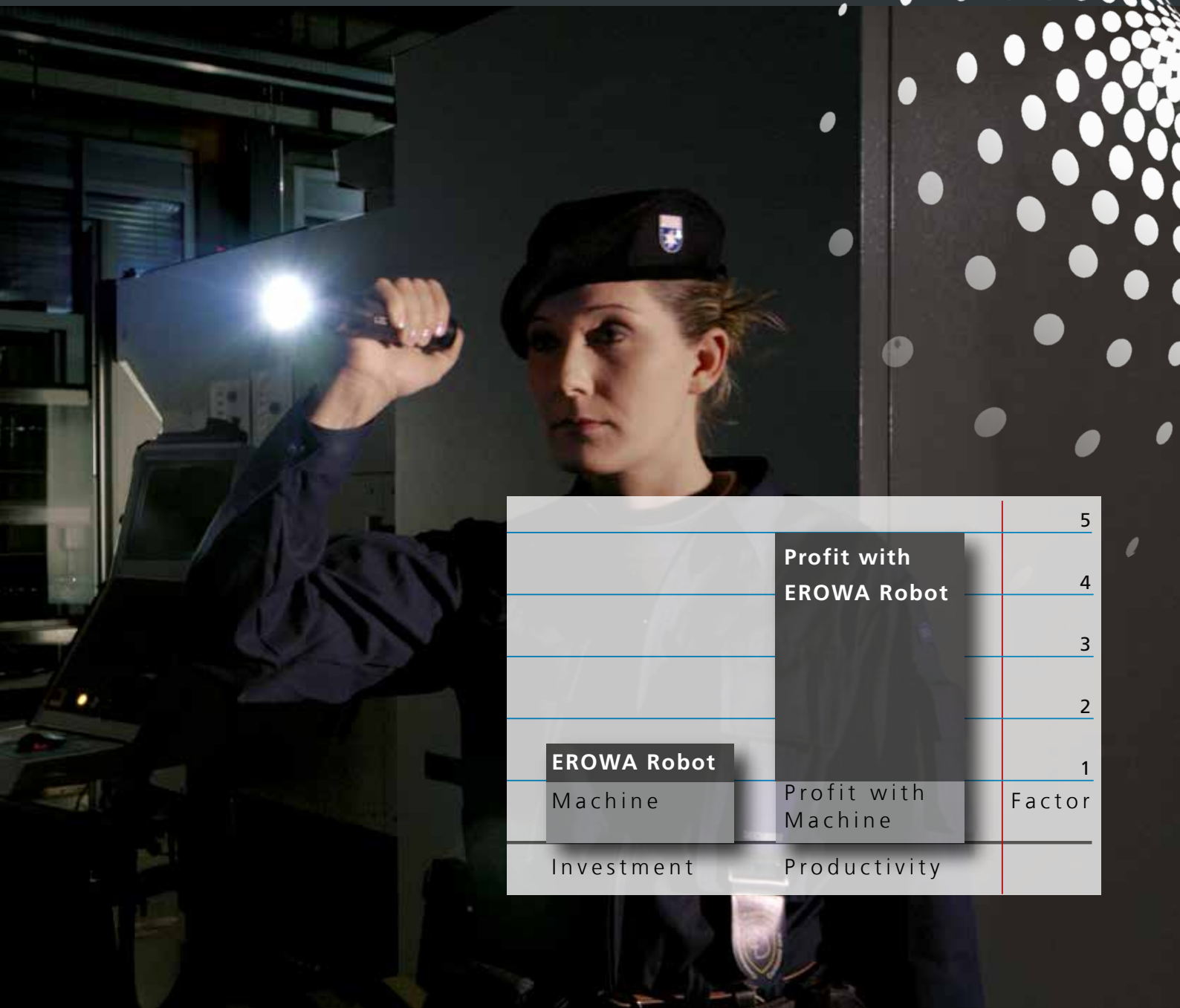
Simply efficient



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 week-ends. 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



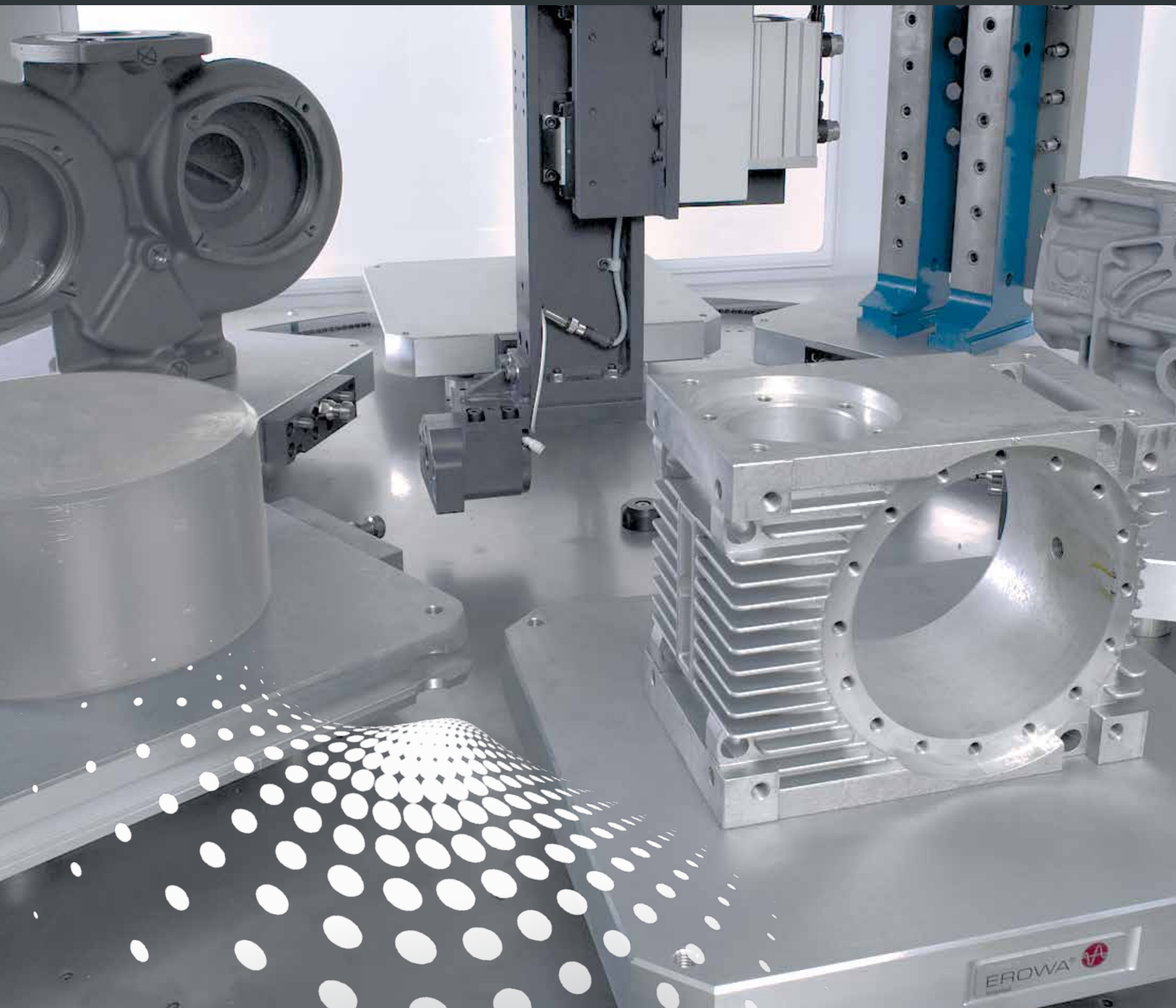
25 years of experience

14

Quickly installed and ready

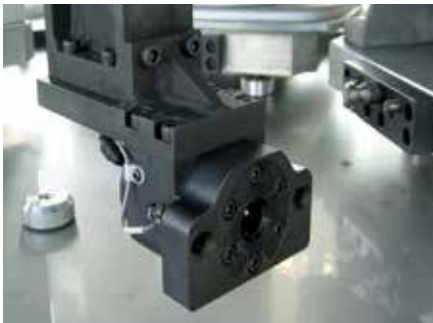
Easy up to 250 kg

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.

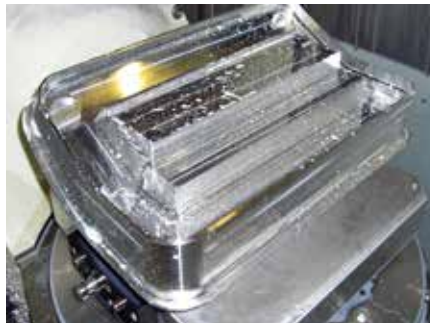




Moving 250 kg is no problem for the Robot Easy. Its robust design takes care of reliable pallet changes.



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

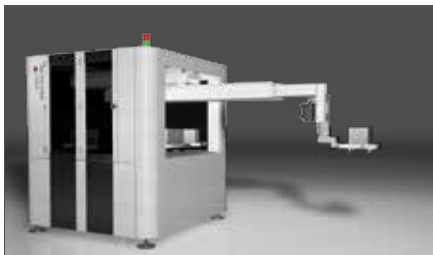
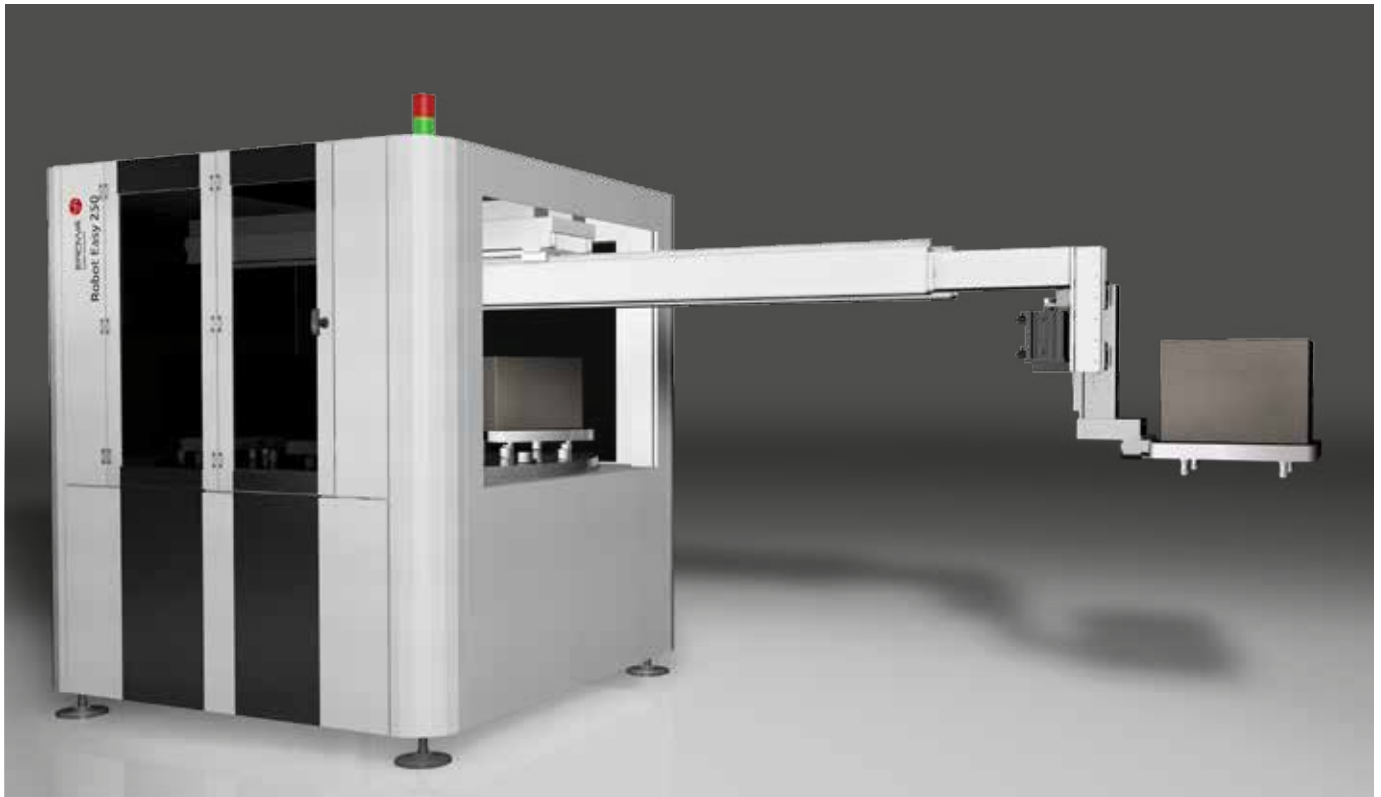
Workpiece size 500 x 500 x 400 mm

Transfer weight 250 kg

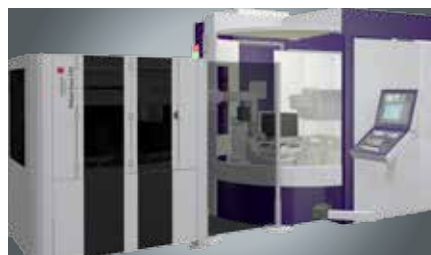
Easy to install

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.



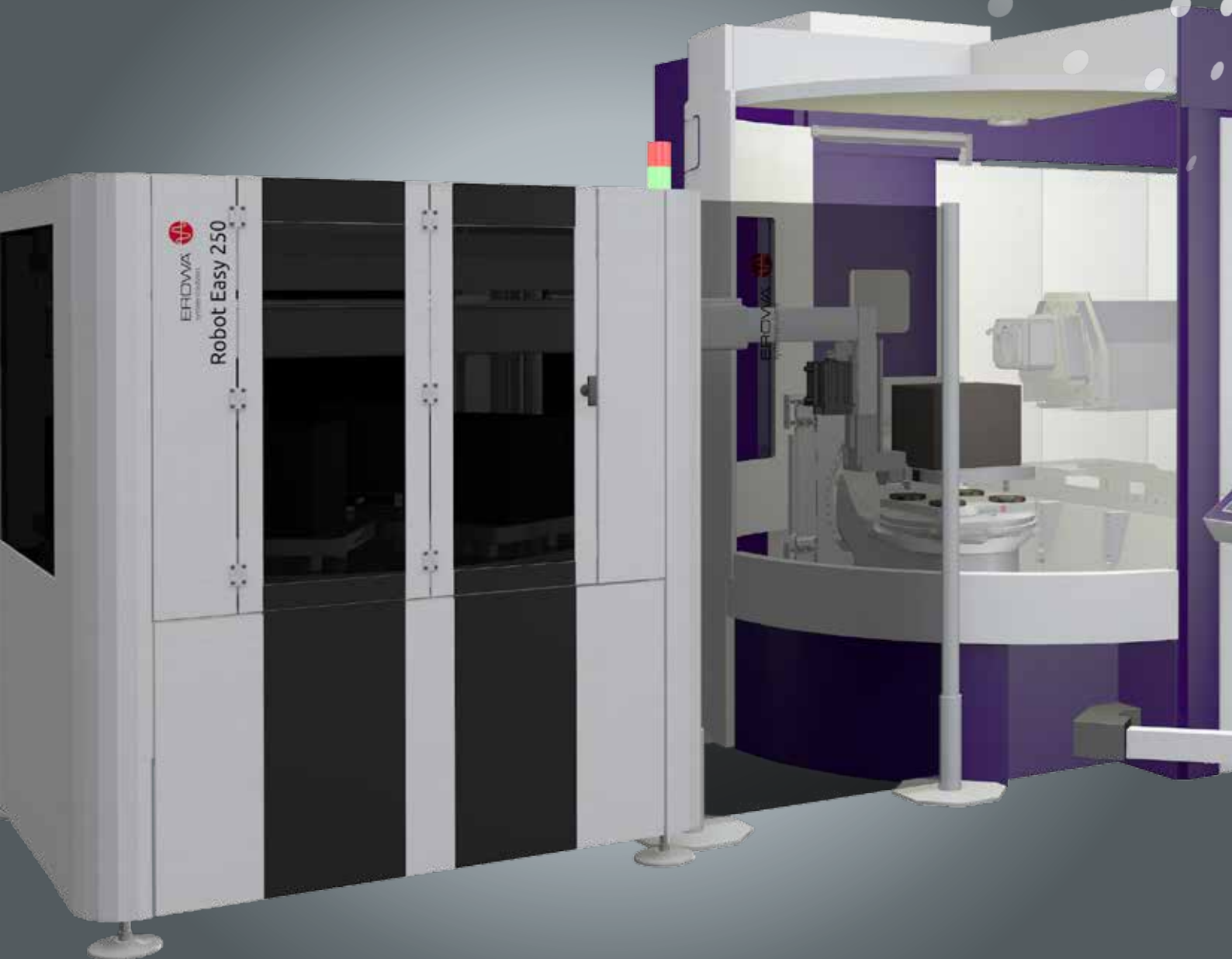
The "light" transfer axis is ideally suited to move pallets of up to 40 kg into the machine.

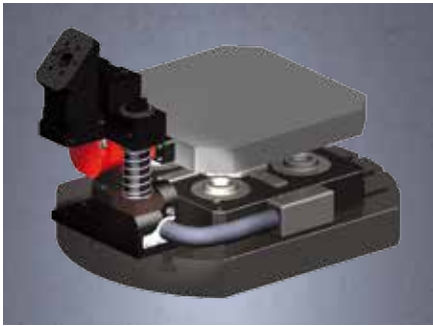
SUITABLE

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.





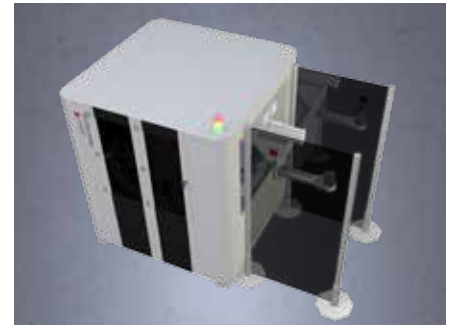
AirDock

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



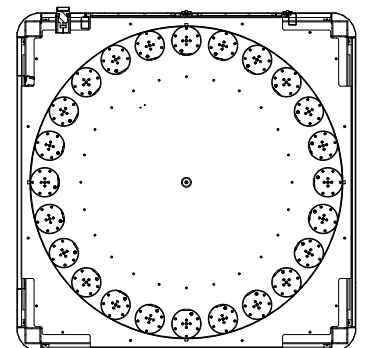
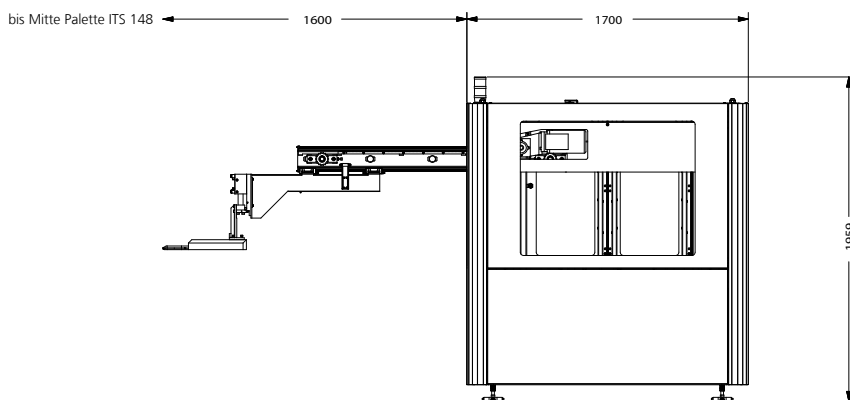
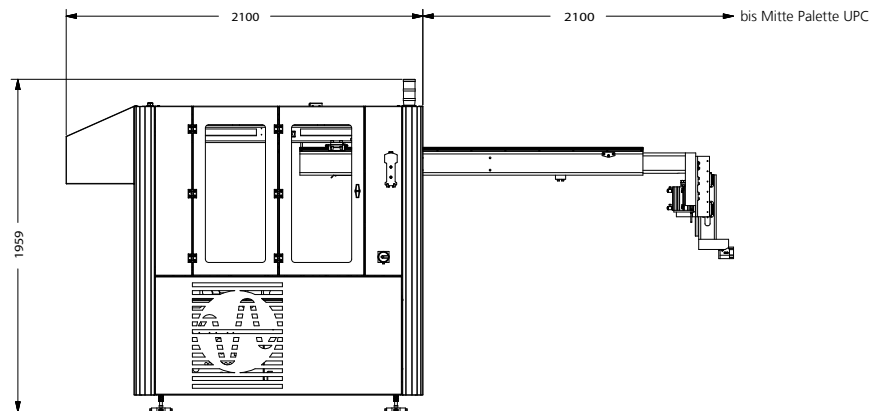
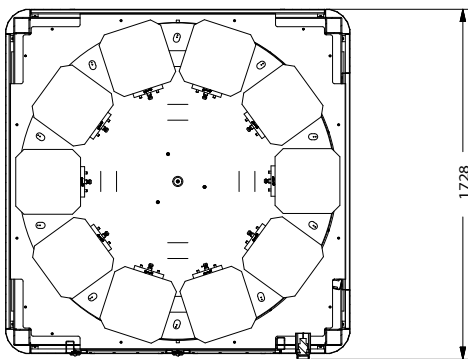
RoboDoor

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



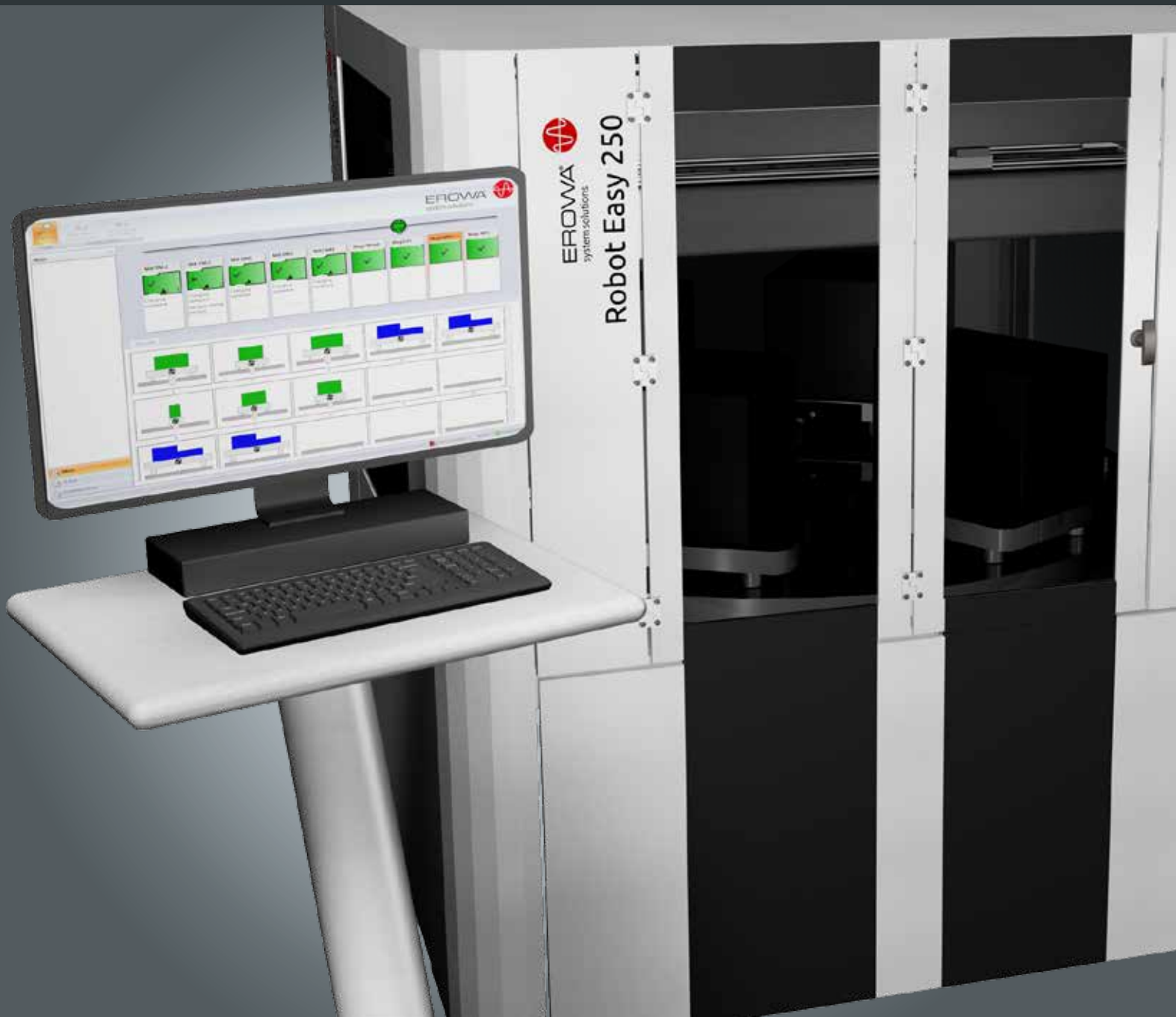
Safety barriers

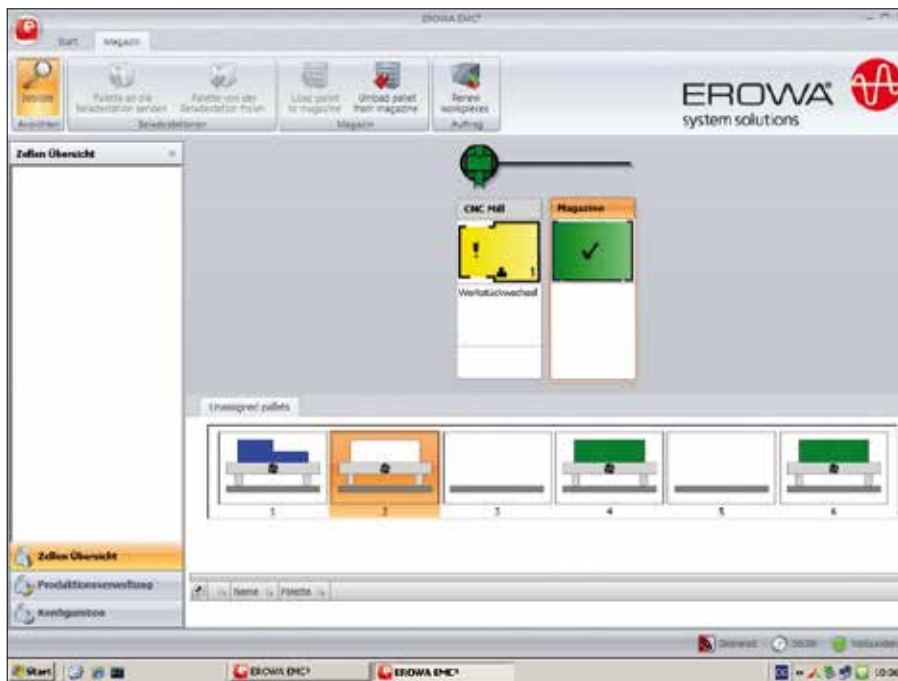
Safety rates high as well. Barriers and access doors are added on request.



Easy to control

A real pleasure to work opens up when the machine und robot are controlled via the EMC³ 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	Control	Order reference	Remaining reference	Remaining reference in %	Ready
01	Ready	01-01-01	01-01-01	01-01-01	100.000	100.000
02	Ready	02-01-01	02-01-01	02-01-01	100.000	100.000
03	Ready	03-01-01	03-01-01	03-01-01	100.000	100.000
04	Ready	04-01-01	04-01-01	04-01-01	100.000	100.000
05	Ready	05-01-01	05-01-01	05-01-01	100.000	100.000
06	Ready	06-01-01	06-01-01	06-01-01	100.000	100.000
07	Ready	07-01-01	07-01-01	07-01-01	100.000	100.000
08	Ready	08-01-01	08-01-01	08-01-01	100.000	100.000
09	Ready	09-01-01	09-01-01	09-01-01	100.000	100.000
10	Ready	10-01-01	10-01-01	10-01-01	100.000	100.000
11	Ready	11-01-01	11-01-01	11-01-01	100.000	100.000
12	Ready	12-01-01	12-01-01	12-01-01	100.000	100.000
13	Ready	13-01-01	13-01-01	13-01-01	100.000	100.000
14	Ready	14-01-01	14-01-01	14-01-01	100.000	100.000
15	Ready	15-01-01	15-01-01	15-01-01	100.000	100.000
16	Ready	16-01-01	16-01-01	16-01-01	100.000	100.000
17	Ready	17-01-01	17-01-01	17-01-01	100.000	100.000
18	Ready	18-01-01	18-01-01	18-01-01	100.000	100.000
19	Ready	19-01-01	19-01-01	19-01-01	100.000	100.000
20	Ready	20-01-01	20-01-01	20-01-01	100.000	100.000
21	Ready	21-01-01	21-01-01	21-01-01	100.000	100.000
22	Ready	22-01-01	22-01-01	22-01-01	100.000	100.000
23	Ready	23-01-01	23-01-01	23-01-01	100.000	100.000
24	Ready	24-01-01	24-01-01	24-01-01	100.000	100.000
25	Ready	25-01-01	25-01-01	25-01-01	100.000	100.000
26	Ready	26-01-01	26-01-01	26-01-01	100.000	100.000
27	Ready	27-01-01	27-01-01	27-01-01	100.000	100.000
28	Ready	28-01-01	28-01-01	28-01-01	100.000	100.000
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33	Ready	33-01-01	33-01-01	33-01-01	100.000	100.000
34	Ready	34-01-01	34-01-01	34-01-01	100.000	100.000
35	Ready	35-01-01	35-01-01	35-01-01	100.000	100.000
36	Ready	36-01-01	36-01-01	36-01-01	100.000	100.000
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53	Ready	53-01-01	53-01-01	53-01-01	100.000	100.000
54	Ready	54-01-01	54-01-01	54-01-01	100.000	100.000
55	Ready	55-01-01	55-01-01	55-01-01	100.000	100.000
56	Ready	56-01-01	56-01-01	56-01-01	100.000	100.000
57	Ready	57-01-01	57-01-01	57-01-01	100.000	100.000
58	Ready	58-01-01	58-01-01	58-01-01	100.000	100.000
59	Ready	59-01-01	59-01-01	59-01-01	100.000	100.000
60	Ready	60-01-01	60-01-01	60-01-01	100.000	100.000
61	Ready	61-01-01	61-01-01	61-01-01	100.000	100.000
62	Ready	62-01-01	62-01-01	62-01-01	100.000	100.000
63	Ready	63-01-01	63-01-01	63-01-01	100.000	100.000
64	Ready	64-01-01	64-01-01	64-01-01	100.000	100.000
65	Ready	65-01-01	65-01-01	65-01-01	100.000	100.000
66	Ready	66-01-01	66-01-01	66-01-01	100.000	100.000
67	Ready	67-01-01	67-01-01	67-01-01	100.000	100.000
68	Ready	68-01-01	68-01-01	68-01-01	100.000	100.000
69	Ready	69-01-01	69-01-01	69-01-01	100.000	100.000
70	Ready	70-01-01	70-01-01	70-01-01	100.000	100.000
71	Ready	71-01-01	71-01-01	71-01-01	100.000	100.000
72	Ready	72-01-01	72-01-01	72-01-01	100.000	100.000
73	Ready	73-01-01	73-01-01	73-01-01	100.000	100.000
74	Ready	74-01-01	74-01-01	74-01-01	100.000	100.000
75	Ready	75-01-01	75-01-01	75-01-01	100.000	100.000
76	Ready	76-01-01	76-01-01	76-01-01	100.000	100.000
77	Ready	77-01-01	77-01-01	77-01-01	100.000	100.000
78	Ready	78-01-01	78-01-01	78-01-01	100.000	100.000
79	Ready	79-01-01	79-01-01	79-01-01	100.000	100.000
80	Ready	80-01-01	80-01-01	80-01-01	100.000	100.000
81	Ready	81-01-01	81-01-01	81-01-01	100.000	100.000
82	Ready	82-01-01	82-01-01	82-01-01	100.000	100.000
83	Ready	83-01-01	83-01-01	83-01-01	100.000	100.000
84	Ready	84-01-01	84-01-01	84-01-01	100.000	100.000
85	Ready	85-01-01	85-01-01	85-01-01	100.000	100.000
86	Ready	86-01-01	86-01-01	86-01-01	100.000	100.000
87	Ready	87-01-01	87-01-01	87-01-01	100.000	100.000
88	Ready	88-01-01	88-01-01	88-01-01	100.000	100.000
89	Ready	89-01-01	89-01-01	89-01-01	100.000	100.000
90	Ready	90-01-01	90-01-01	90-01-01	100.000	100.000
91	Ready	91-01-01	91-01-01	91-01-01	100.000	100.000
92	Ready	92-01-01	92-01-01	92-01-01	100.000	100.000
93	Ready	93-01-01	93-01-01	93-01-01	100.000	100.000
94	Ready	94-01-01	94-01-01	94-01-01	100.000	100.000
95	Ready	95-01-01	95-01-01	95-01-01	100.000	100.000
96	Ready	96-01-01	96-01-01	96-01-01	100.000	100.000
97	Ready	97-01-01	97-01-01	97-01-01	100.000	100.000
98	Ready	98-01-01	98-01-01	98-01-01	100.000	100.000
99	Ready	99-01-01	99-01-01	99-01-01	100.000	100.000
100	Ready	100-01-01	100-01-01	100-01-01	100.000	100.000

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

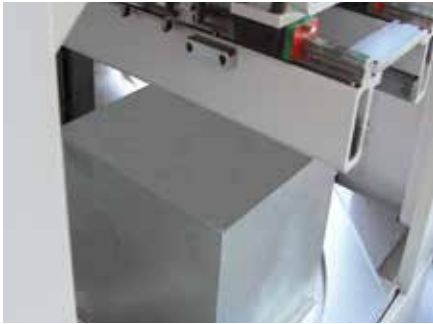
KEEPS YOU IN THE LOOP

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.



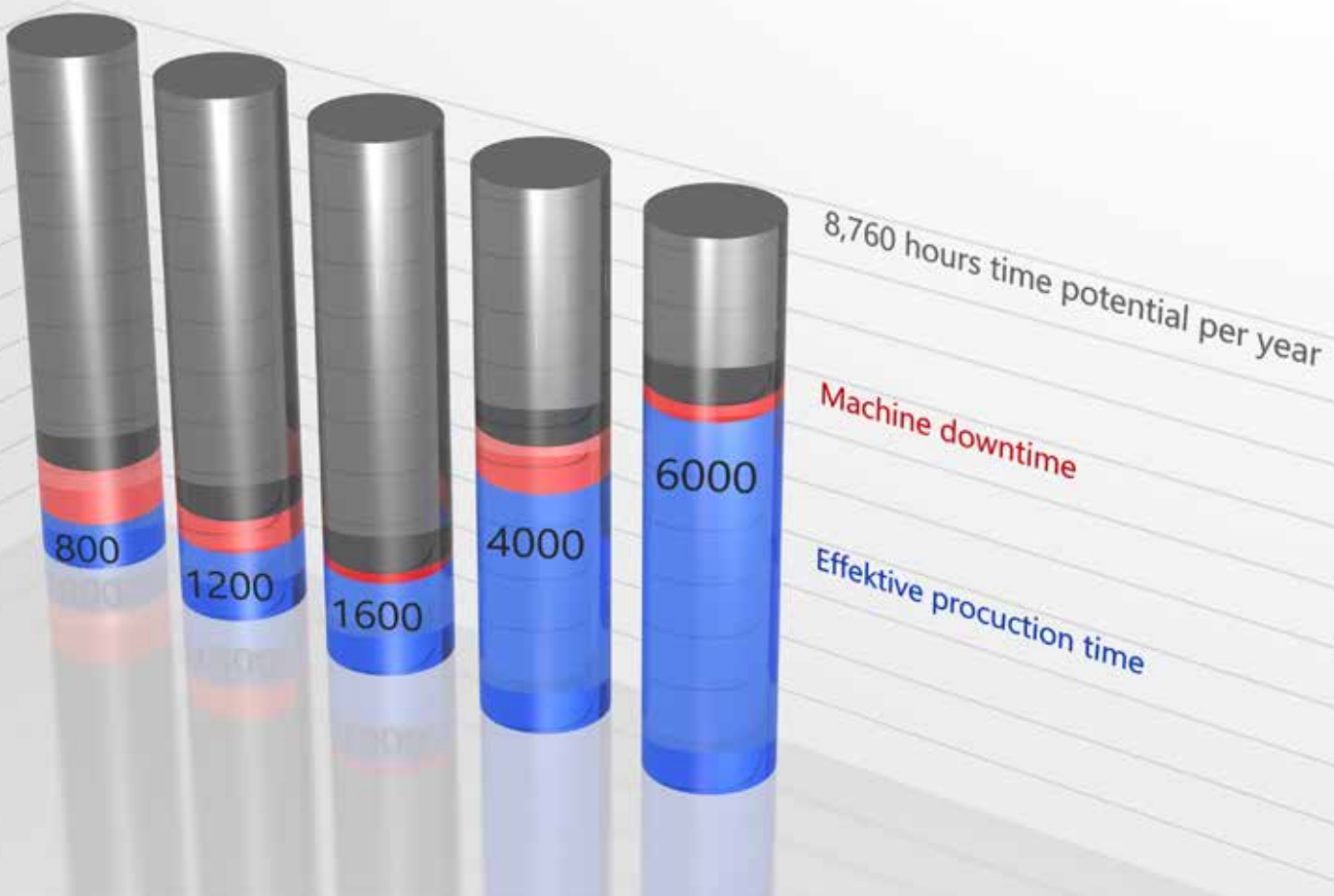
Worklist for many off-peak and night hours.



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



Top loading door for crane operation.



25 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 2000 robots
- Standardized interfaces
- Long-life systems
- Integrated security system

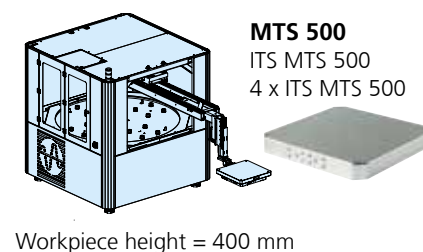
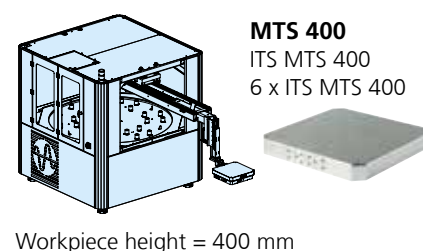
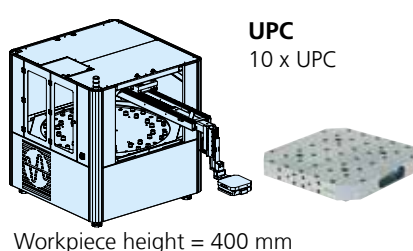
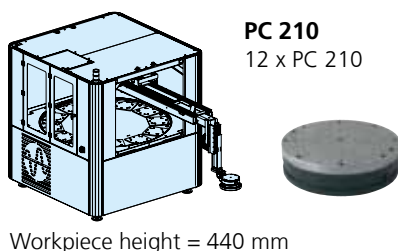
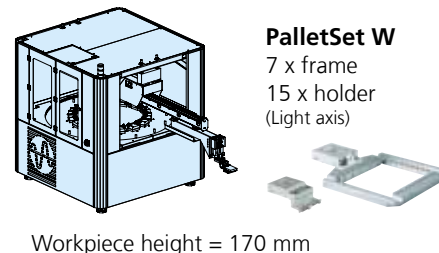
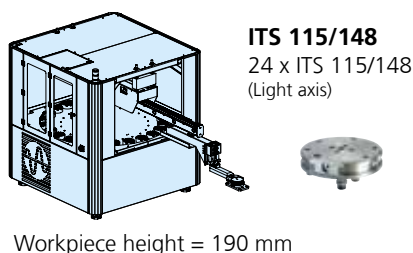
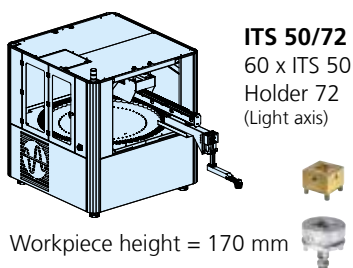
The Facts

- 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 EMC³
- Safety barriers

THE NUMBER OF PALLET POSITIONS DEPENDS ON THE TOOLING USED.



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 / EWISTM
Process control system interface Yes

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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