



Robot Multi

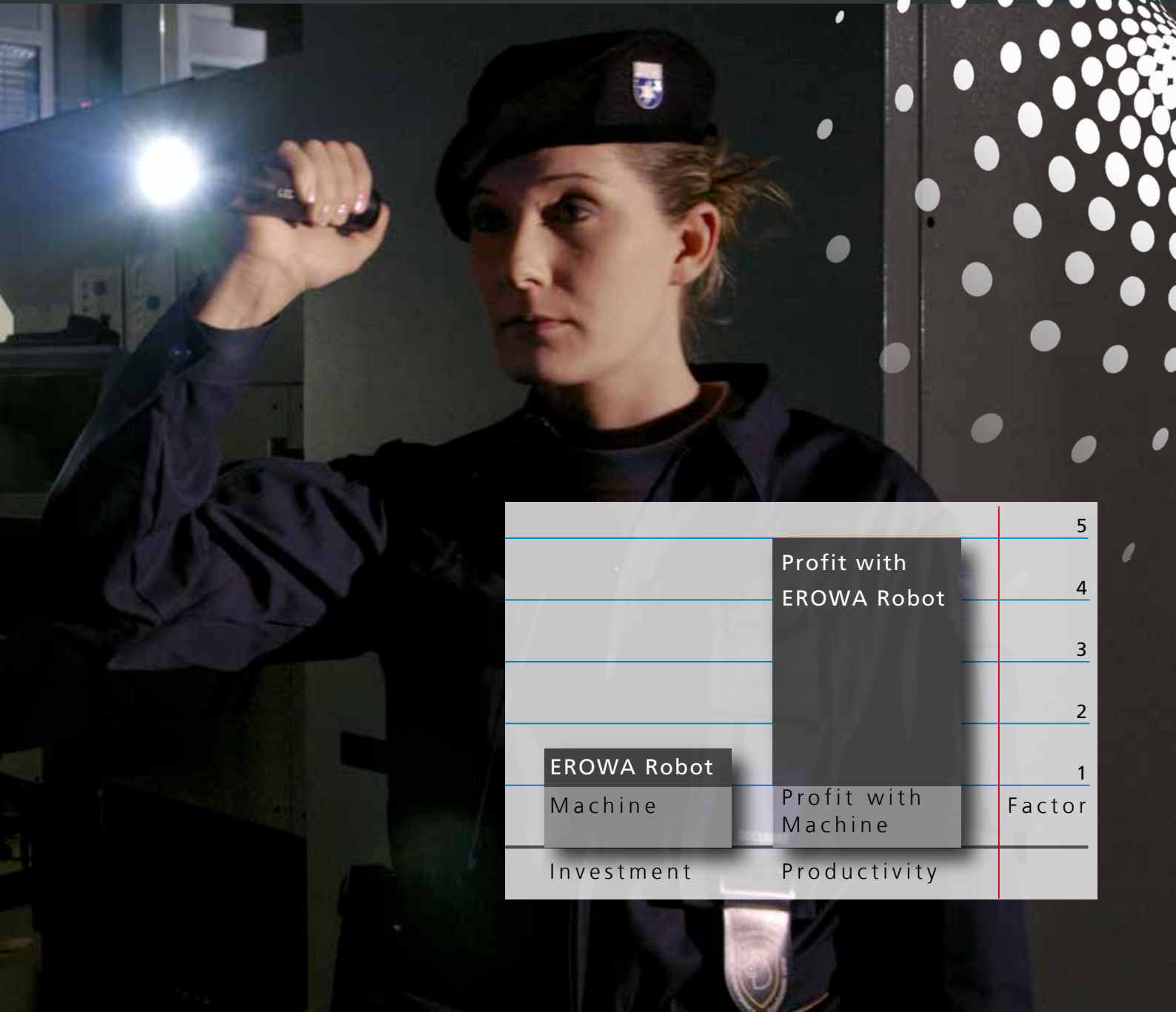
Double loading



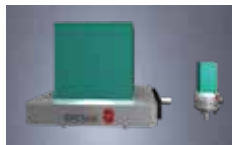
Is your Production asleep?

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	



Big and Small 4
Move any size with the ingenious adapter pallets



Double Loading 6
Whether loading on the left or right, or on both sides, the Robot Multi does it



High Level of Autonomy 8
Unattended EDM and milling during the whole weekend.



Team Player 10
The production team: the machine, the clamping system, the robot, and the process control system.



Ergonomic and Efficient 12
Efficient with ergonomically-designed workstations



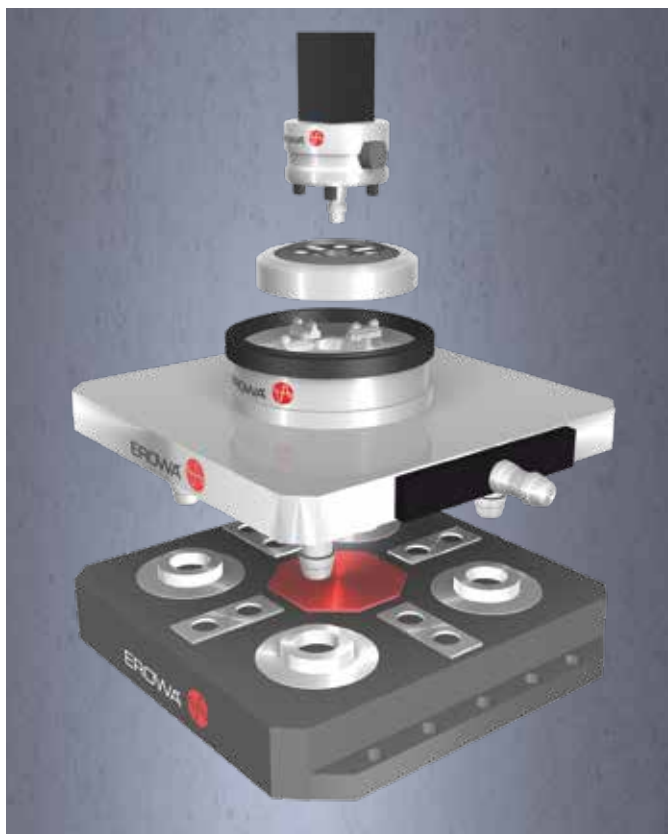
25 Years of Experience 14
Quickly installed and ready

Big and Small

Loading large series of small workpieces or large single parts onto the machine?

This is exactly what the EROWA Robot Multi is designed for.





Different system sizes are often employed on the same CNC machine. The Robot Multi switches automatically to the associated pallet size.

The clearly arranged magazine holds up to 270 workpieces – each at its defined place. With this supply in stock, the autonomy of a CNC machine is greatly improved.



In the gripper dock, various grippers required for the automatic change are stored in a space-saving arrangement.



The robot reliably changes electrodes having a few grams of weight.



But even heavy pallets of up to 80 kg are loaded by the EROWA Robot Multi efficiently onto the machine.

FLEXIBILITY

Changing mixed part sizes automatically

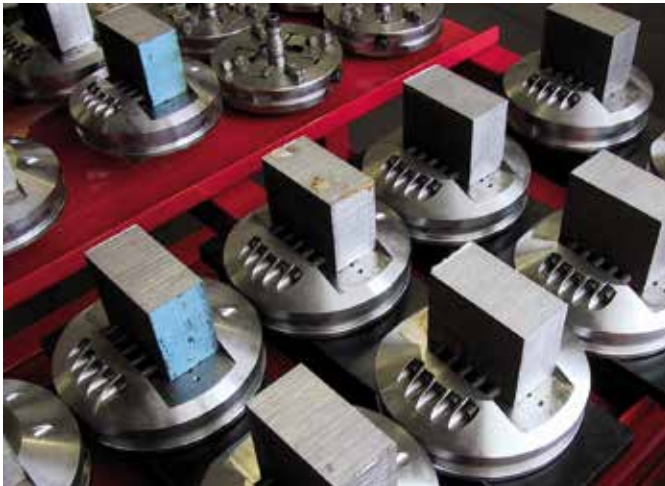
Transfer weight of up to 80 kg

Automatic gripper change

Double Loading

There's an elegant way to shorten the return on investment of a EROWA Robot Multi: set it up such that it loads two machines.





A real win-win situation.
One robot for two machines.

- Small footprint
- Much autonomy
- High utilization
- Fast ROI



Workpieces and electrodes are loaded automatically onto the EDM machines by the Robot Multi.



Efficient production of electrodes with a clamping system and robot from EROWA.



In series production, the EROWA Robot Multi increases the productivity of CNC machines many times over.



ALL MACHINING TYPES

One robot – two machines

Suitable for EDM and milling

Control via the EROWA process control system

High Level of Autonomy

Unattended EDM and milling during the whole weekend.





With the large magazine capacity of the Robot Multi, the CNC machine obtains an unimagined level of autonomy. Off-peak and night hours are utilized productively. Delivery times are reduced.



30 positions per level are available for electrode holders. With a maximum of 9 levels, this provides 270 slots.



The electrodes are stored in a minimum of space. The Robot Multi has this special magazine.



The magazine configuration is adapted to the needs. This ensures optimal utilization of the slots.

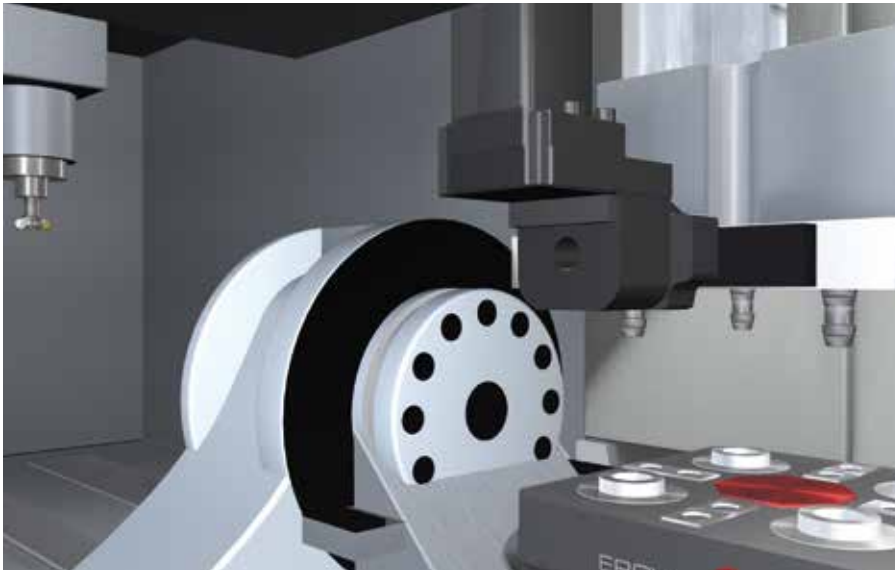
FOR CONTINUOUS RUNNERS

- Up to 270 magazine positions
- Automatic gripper change
- Mixed pallet sizes
- Two-machine loading

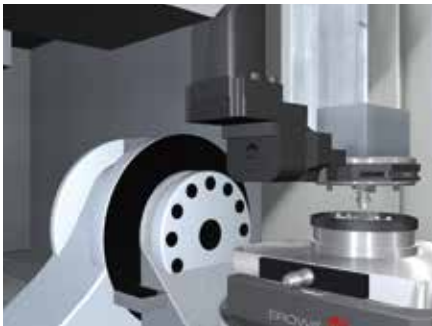
Team Player

A machine equipped with EROWA components achieves between 4,000 and 8,000 productive hours annually.





The machine, the clamping system, the robot, and the process control system form the production team. Optimally used, this team can deliver up to five times higher productivity.



Always the best clamping system size. The robot changes the adapter pallets automatically.



The process control system monitors and controls the manufacturing process.

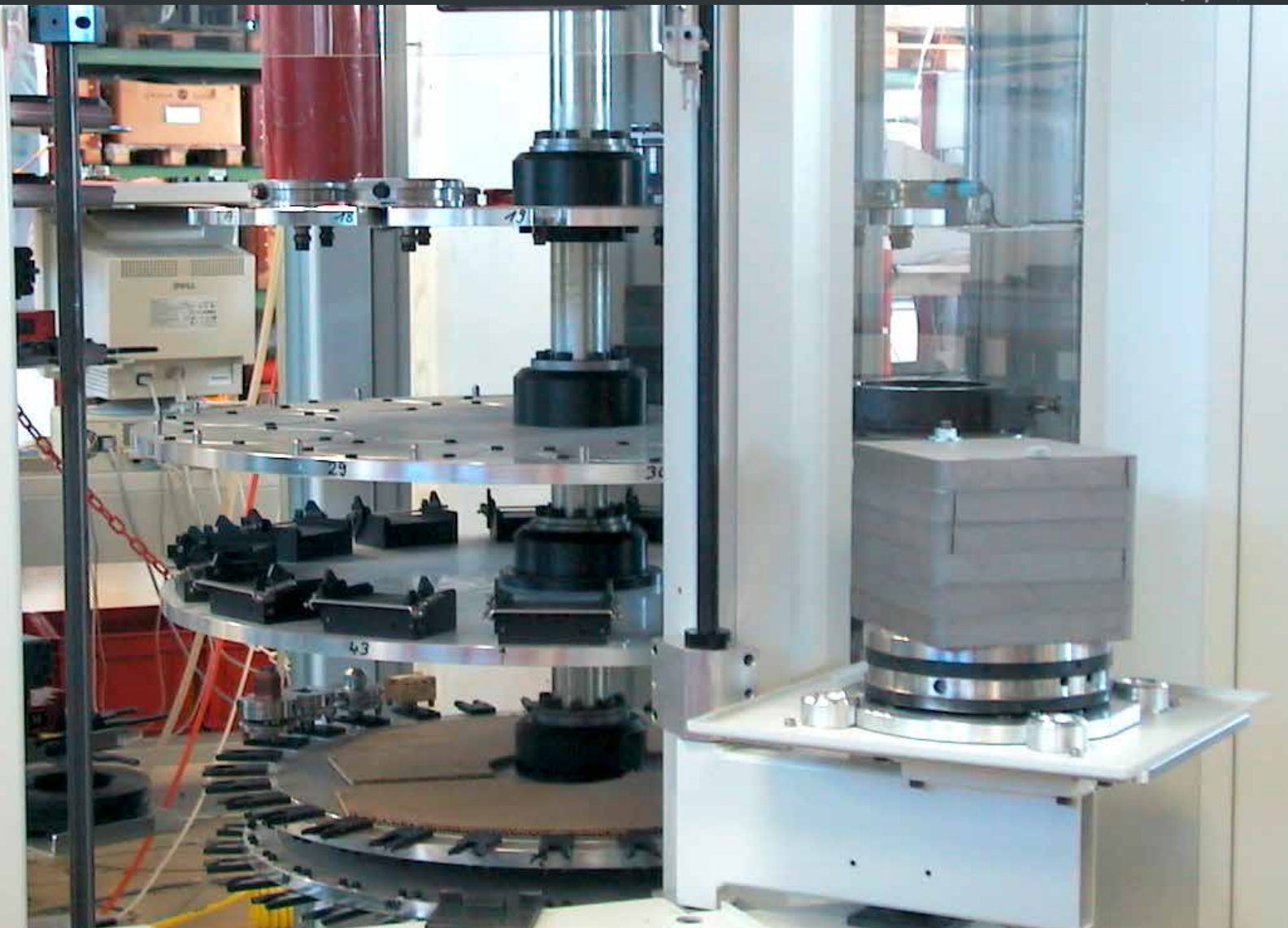
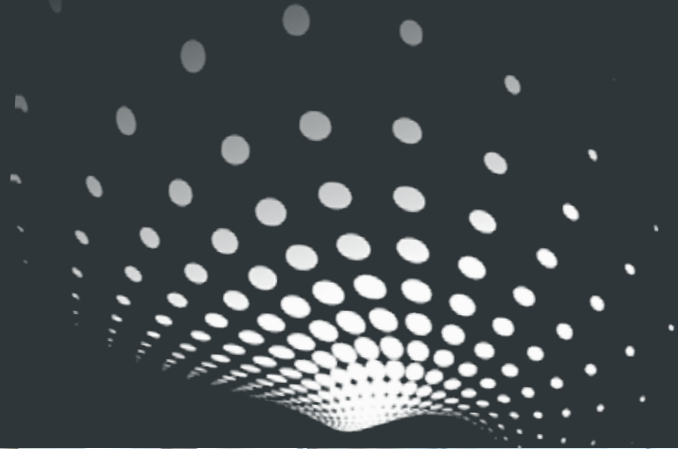


The production team at work. Matched, space saving and efficient.



Ergonomic and Efficient

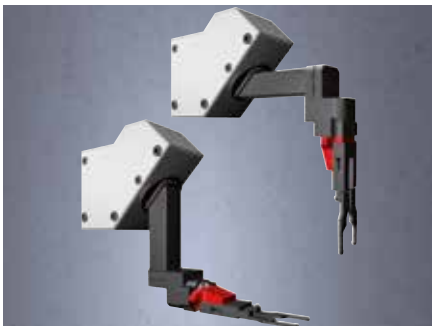
We have thought of the operator:
Optimal setup stations are available for loading.



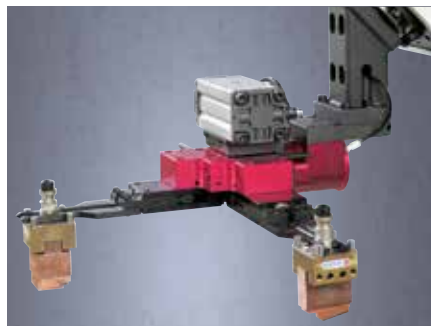


With the setup stations tested according to ergonomic specifications, the preparations become more efficient as well.

Heavy workpieces are mounted directly onto the loading station. The robot takes the pallets reliably into the magazine.



Cooling water or dielectric is to remain in the machine. The swivel feature ensures this.



The double gripper reduces the change-over times. The functionality is predetermined by the EROWA Robot Multi automatically.



With EWISTTM Rapid the entire magazine loading condition is known at any time.

FACTS

Ergonomic loading station

Fast double gripper

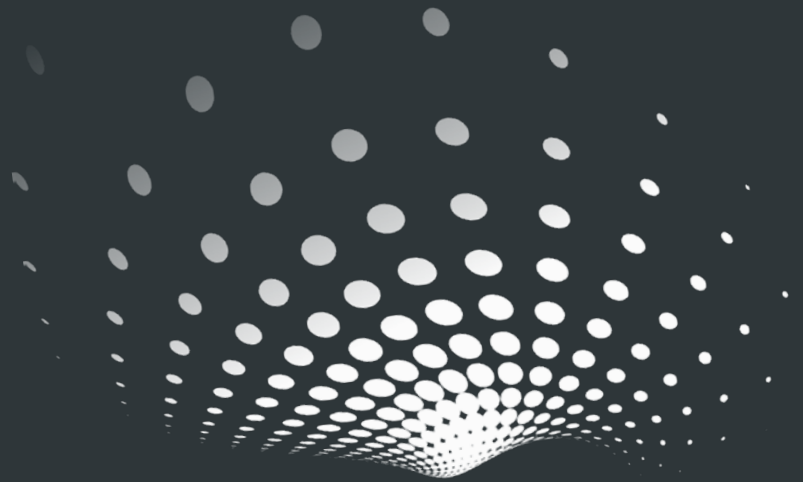
Dumping liquid

Automatic pallet detection

30 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

- Automatic gripper change
- Up to 270 magazine positions
- Two-machine loading
- For all technologies
- 80 kg transfer weight
- For all EROWA clamping systems

Extension options

- Loading stations
- Double gripper
- Gripper dock
- Automatic pallet identification by a chip

THE PALLET POSITIONS DEPEND ON THE HEIGHT OF THE WORKPIECES

	ERM Rack Magazine level	ERM Rotary Magazine level	Tooling
		30	ITS Compact holder
		30	ITS 50 / holder 72
		15	ITS pallet 115/148
		30	PM56/85
		15	PM130
		30	UnoSet
	7	15	PalletSet W
	4	3	PalletSet Frame
	2		FrameSet
	5	10	ProductionChuck 210
	3	5	UPC 320
	3	3	MTS 400
	2		MTS 500

TECHNICAL DETAILS

Transfer weight	80 kg
Swivel arm	Yes
Gripper change	Yes

TRANSFER AXIS

X-axis travel	1200 mm
Z-axis travel	1450 mm
Number of machines	up to 2
System size LxWxH mm	3280x1430x2560

MAGAZINES	LEVELS	POS./LEVEL	POS./MAGAZINE
Rotary	9	600	1500
Rack	9	600	1900

ELECTRONICS

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

SYSTEM GRIPPERS


RCS 5 grippers for MTS, UPC, PalletSet W and FrameSet at the same interface for all other exchange grippers. Load capacity horizontally/vertically max. 80 kg.



PC210 gripper for PC210 pallets with ring groove. Load capacity horizontally max. 80 kg/vertically max. 40 kg.



ITS 148 gripper for ITS 148 pallets. Load capacity horizontally max. 40 kg, vertically max. 30 kg.



ITS 115 gripper for ITS 115 pallets. Load capacity horizontally max. 40 kg, vertically max. 30 kg.



PM 56 gripper for PM tooling. Load capacity horizontally/vertically max. 5 kg.



PM 85 and PM 130 gripper for PM tooling. Load capacity horizontally max. 20 kg, vertically max. 10 kg.



Gripper for ITS holder 72. Load capacity horizontally max. 20 kg, vertically max. 10 kg.



S gripper for ITS holder. Load capacity horizontally max. 20 kg, vertically max. 10 kg.



Combo gripper for ITS and Compact tooling. Load capacity horizontally max. 8 kg, vertically max. 5 kg.

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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