

Robot Compact 80

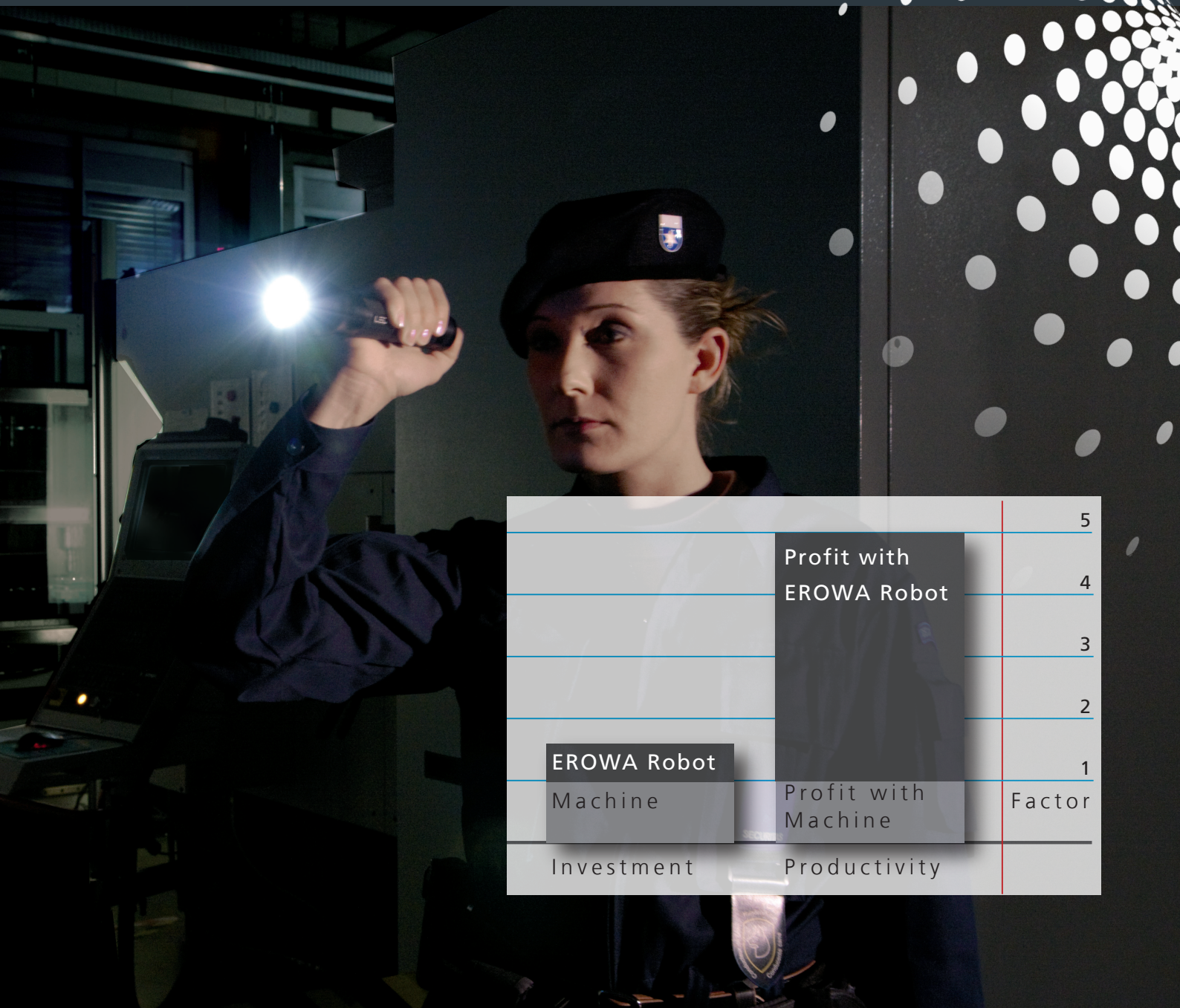
Plenty of power – many benefits



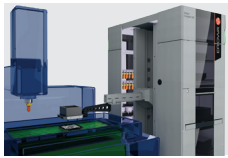
Is your Production asleep?

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.



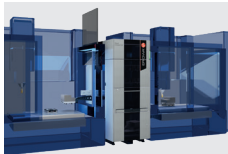
		5
	Profit with EROWA Robot	4
		3
		2
EROWA Robot		1
Machine	Profit with Machine	Factor
Investment	Productivity	



Plenty of power in a small space

4

Optimal ratio of large number of magazine locations and small footprint



Two Machines – one Robot

6

Whether loading left or right, or on both sides, the Robot Compact 80 does it



Various Pallet Sizes

8

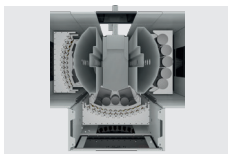
Mixed pallet operation possible with automatic gripper exchange



Variable magazine levels

10

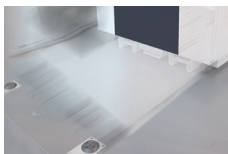
Variable magazine loading adapted to your needs
From small ITS electrode holders to large UPC 320 pallets



Three Magazines

12

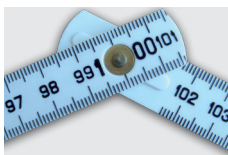
50% more magazine capacity with minimum space requirement



Slide out of the Way

14

Just slide away and work manually at the machine



So little Space

16

The Robot Compact 80 fits in almost every gap



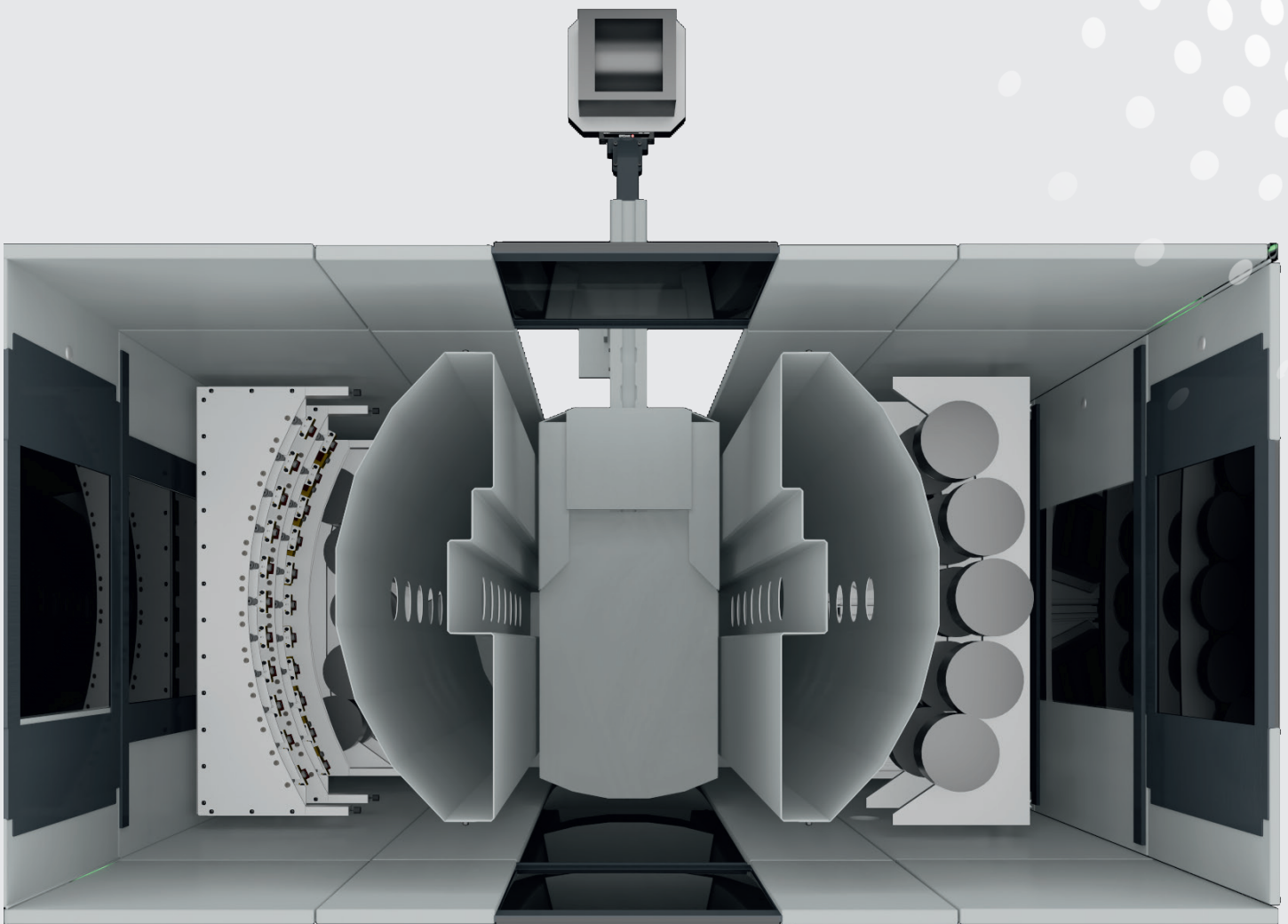
35 Years of Experience

18

Quickly installed and ready

Plenty of power in a small space

The EROWA Robot Compact 80 provides the right balance between a large number of magazine locations and a small footprint.





Fast start-up by a practical
Monoblock architecture:
installation – connection – alignment – production.



The modern LED display for the current
operating mode is clear and fully inte-
grated.

THE ULTIMATE SPACE-SAVER

- Requires only 2 m² footprint
- Large and flexible magazine capa-
city, from small ITS holders to large
UPC 320 pallets
- Fast start-up
- Attractive price with plenty of power



The high and slender design of the robot
is suitable for optimal use of space in the
workshop.



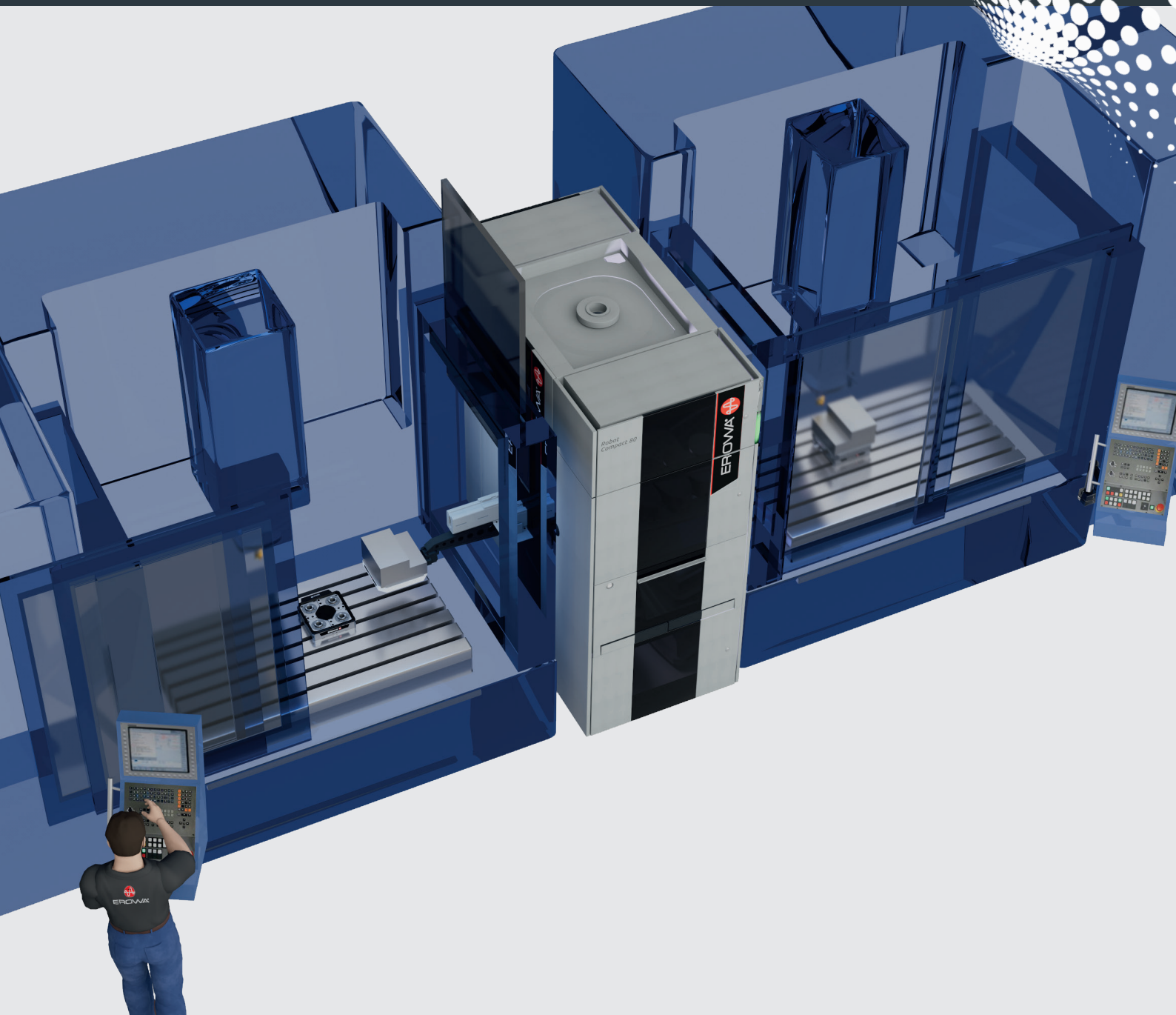
The swing doors allow easy access to the
workpiece magazines.

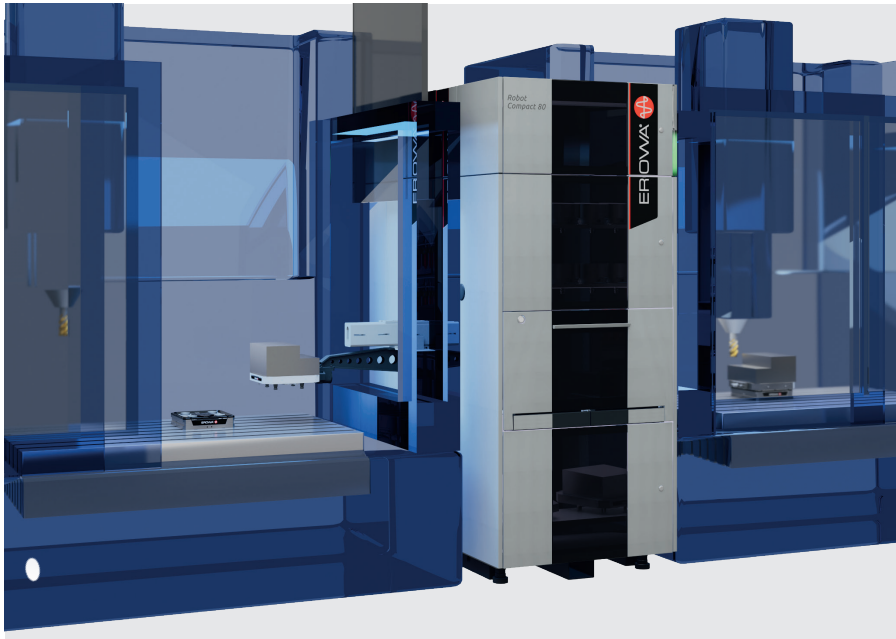


Also the optional loading station can be
integrated to save space.

Two Machines – One Robot

If required, the Robot Compact 80 can supply two machines with workpieces.



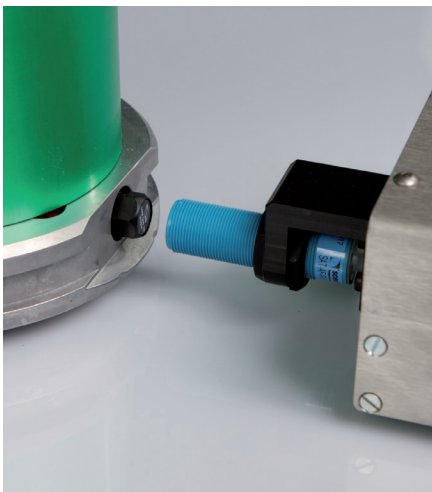


EROWA robots are known to increase machine productivity significantly.

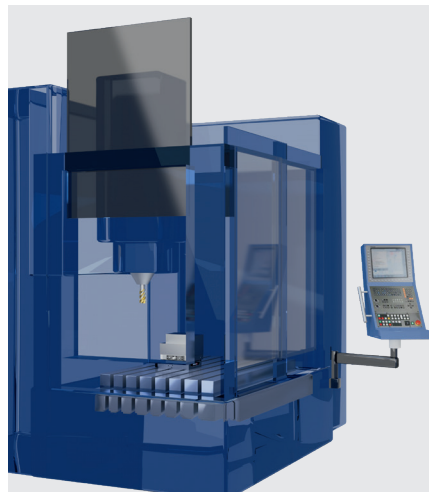
A manufacturing cell with two machines and a EROWA Robot Compact 80 takes up little space.

DOUBLE-COUPLED

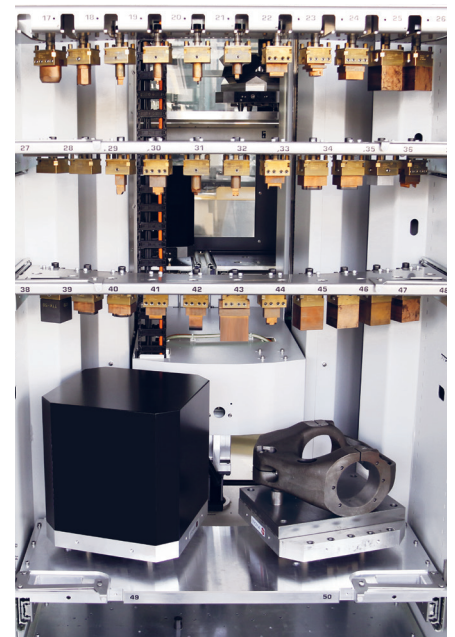
- Supplies two machines
- Automatic pallet identification
- Optimum use of space



With EWISTM RapidScan, the EROWA Robot Compact 80 is always informed about magazine use.



No automatic door in the machine panel? We gladly install one for you. The EROWA RoboDoor is activated by the robot.



The rack magazines are configured as demanded. Mixed operation of different pallets is possible.

Various pallet sizes

From small to quite large. The EROWA Robot Compact 80 moves up to 11 different pallet sizes for different workpiece sizes.



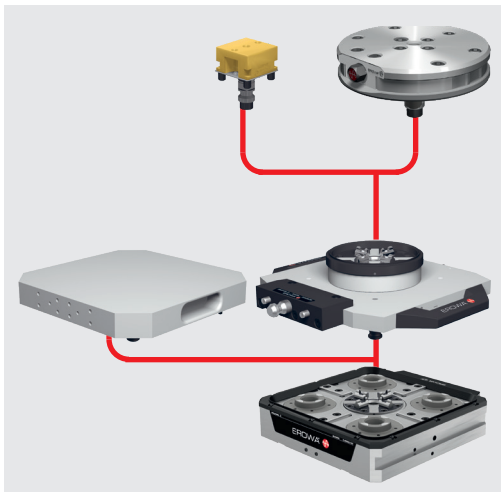


Even large UPC 320 pallets of up to 80 kg transfer weight are loaded accurately onto the machine.

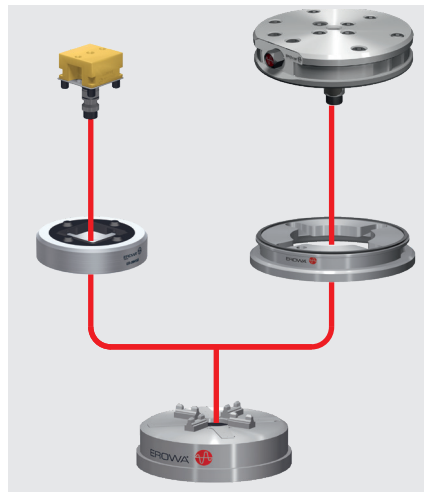
LARGE AND SMALL MIXED

- Automatic mixed operation with different pallet sizes
- Always clean chucks with matching covers
- Integrated pallet identification

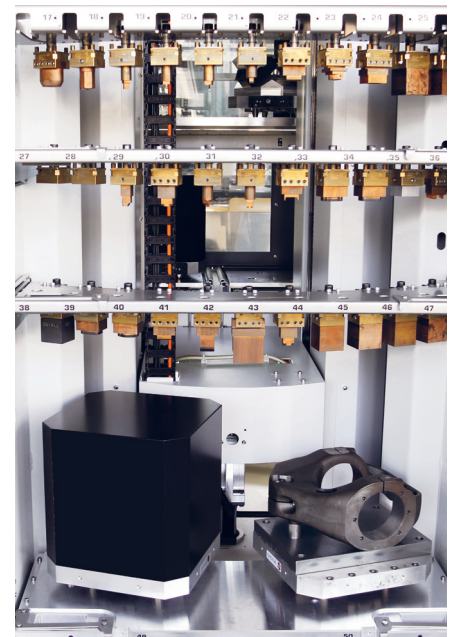
Adapter pallets



One UPC chuck on the machine table - all system sizes automatically exchangeable.



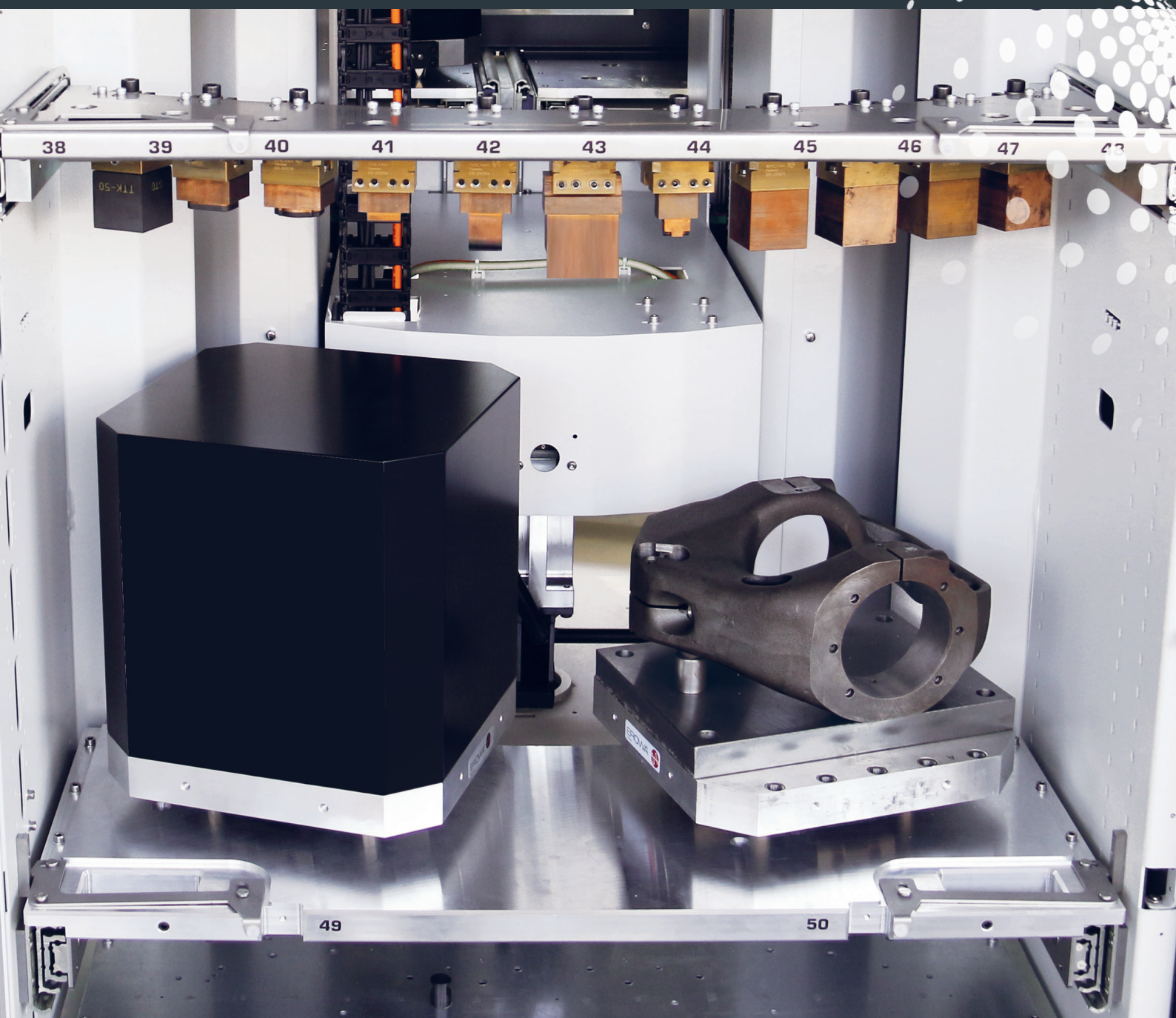
Always clean chucks. Also the proper covers are assigned automatically during the change process.



Mixed operation with different pallet sizes.

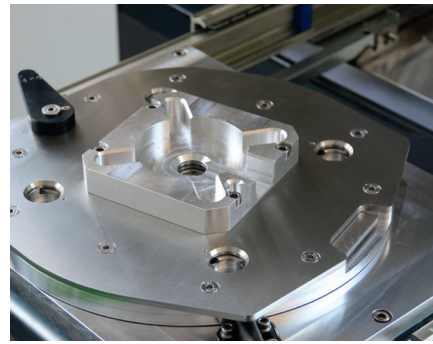
Variable magazine levels for large and small

The magazine levels are tailored to the requirements. Hanging or standing electrodes, pallets of different sizes and the length of the workpieces are accommodated.





Integrated loading station (optional). For setup of large and heavy workpieces at the ergonomically correct height while the robot is working. This is efficient use of time.



Turntable with 4x90° indexing and pallet lock.



Setup and preparation while the robot is in action.

ADAPTING TO YOUR NEEDS

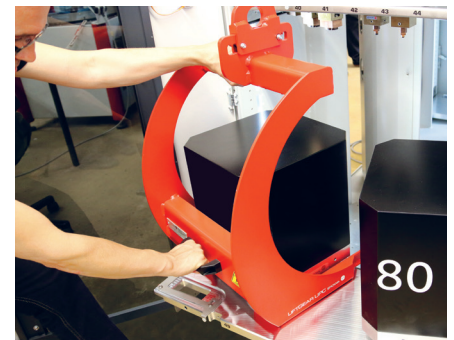
- Flexible arrangement of the magazine levels
- Loading station for heavy workpieces
- Pull-out magazine levels
- User-friendly and ergonomic operation



Easy loading and unloading by pull-out magazine drawers. The pull-out is triggered by the integrated handle positions.



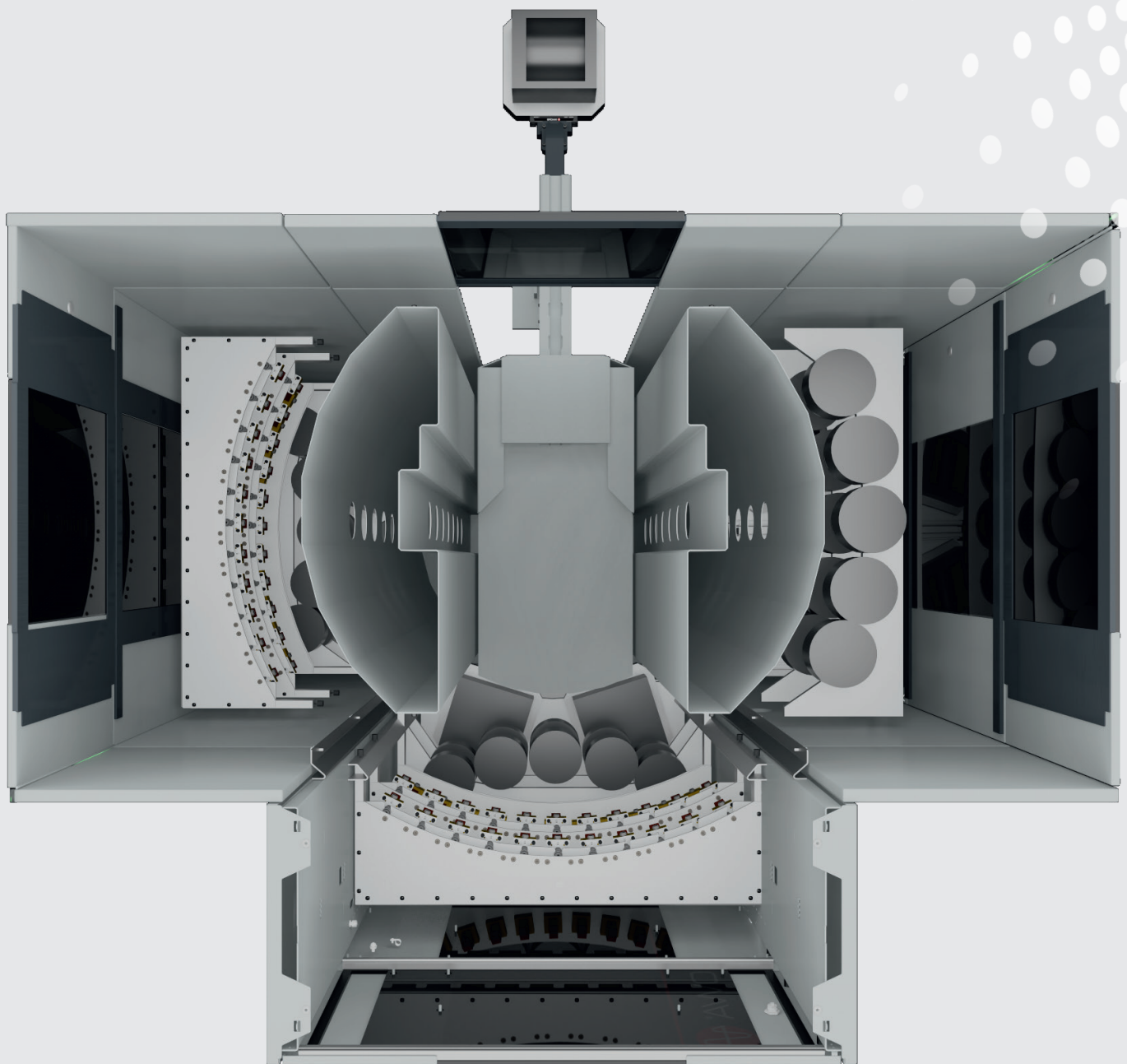
The pass-through, the new and ingenious solution to magazine loading with electrode holders. The holders are loaded and replaced from the operator's side of the magazine.



The pull-out magazine levels are also convenient for loading the magazine with an EROWA lift or an overhead crane directly to the magazine position.

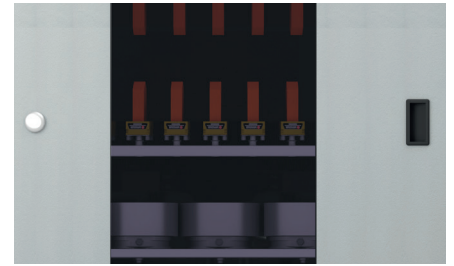
Three Magazines

With over 300 palletted workpieces in the magazine, every nighttime hour is used for production.





Retrofitting is fast, easy and space-saving.
The third magazine for the EROWA Robot Compact 80. This increases the capacity for palletized workpieces by 50%.



Recessed door handle. The release request is made by the round illuminated button.

EXTENDABLE

- 50% more autonomy
- Mixed pallet sizes
- Space-saving additional magazine



Different parts are processed in small batches automatically.



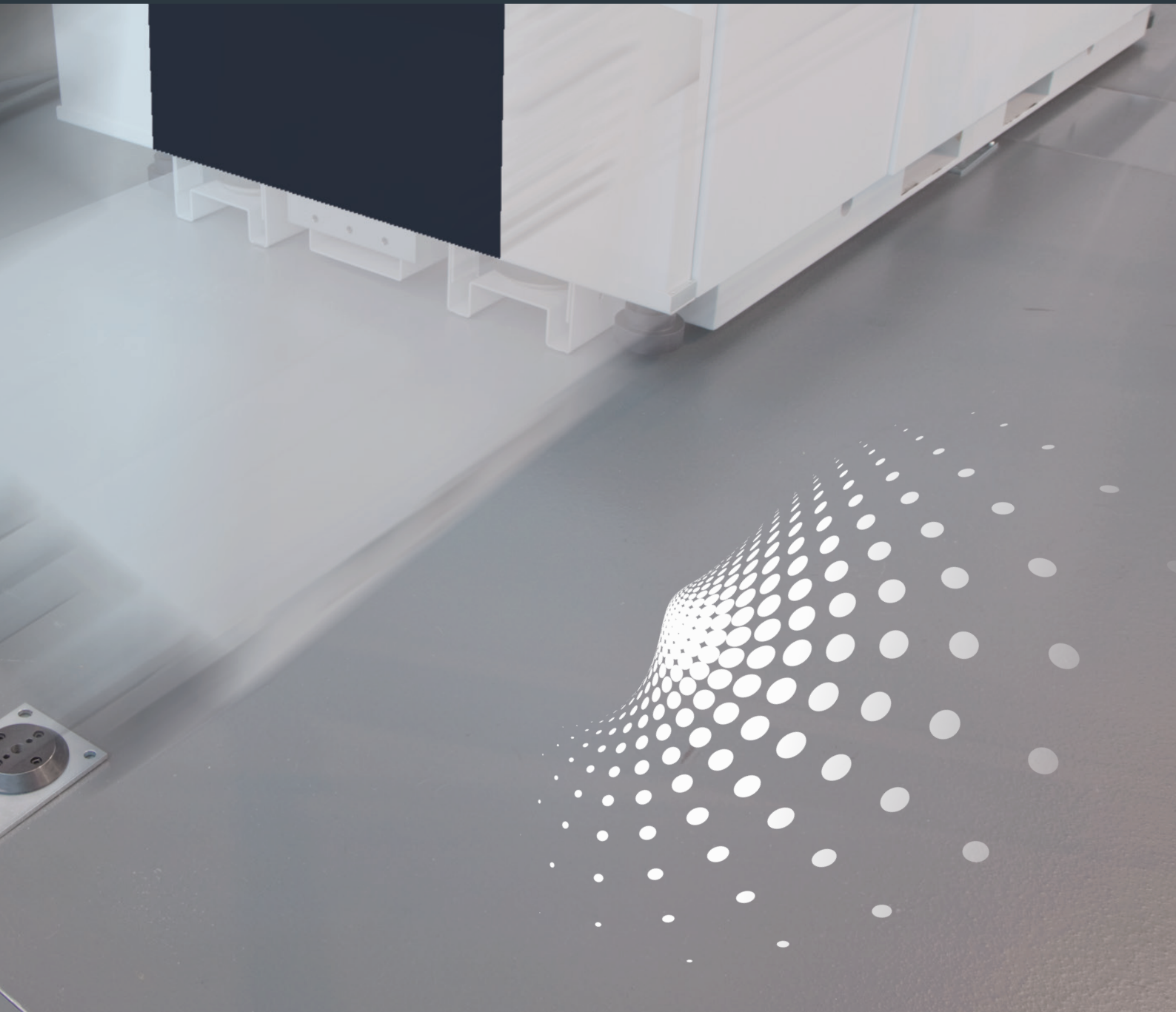
The EROWA Robot Compact 80 automatically changes the grippers according to the pallet size.



When space is limited, the sliding door provides a viable solution.

Slide it out of the Way

For largest possible elbow room from the machine, simply slide the EROWA Robot Compact 80 to the side.



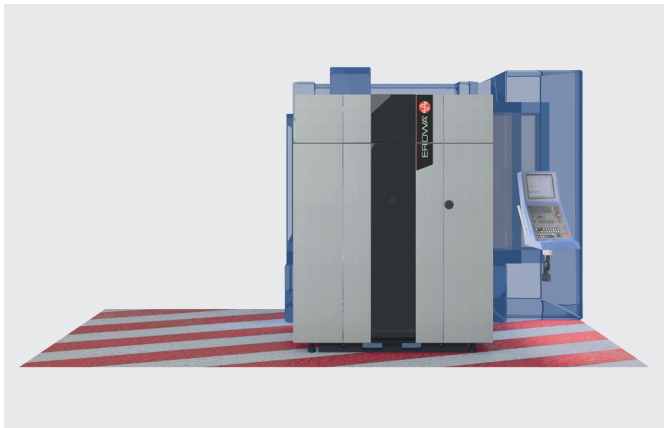


To be truly flexible, it must be possible to work on the machine both automatically and manually.

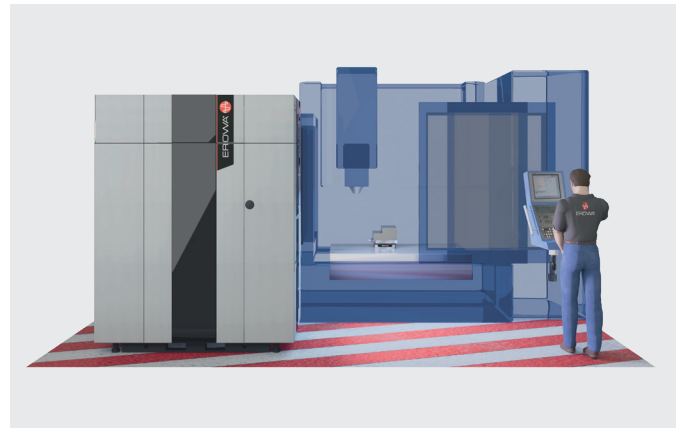
Simply ingenious! The robot is pneumatically lifted and moved away. Alternatively, a lift truck can be used as well.

OUT OF THE WAY!

- Machine access guaranteed
- Precise positioning
- Retrofittable sliding unit



Robot and front-loaded machine in automatic mode.



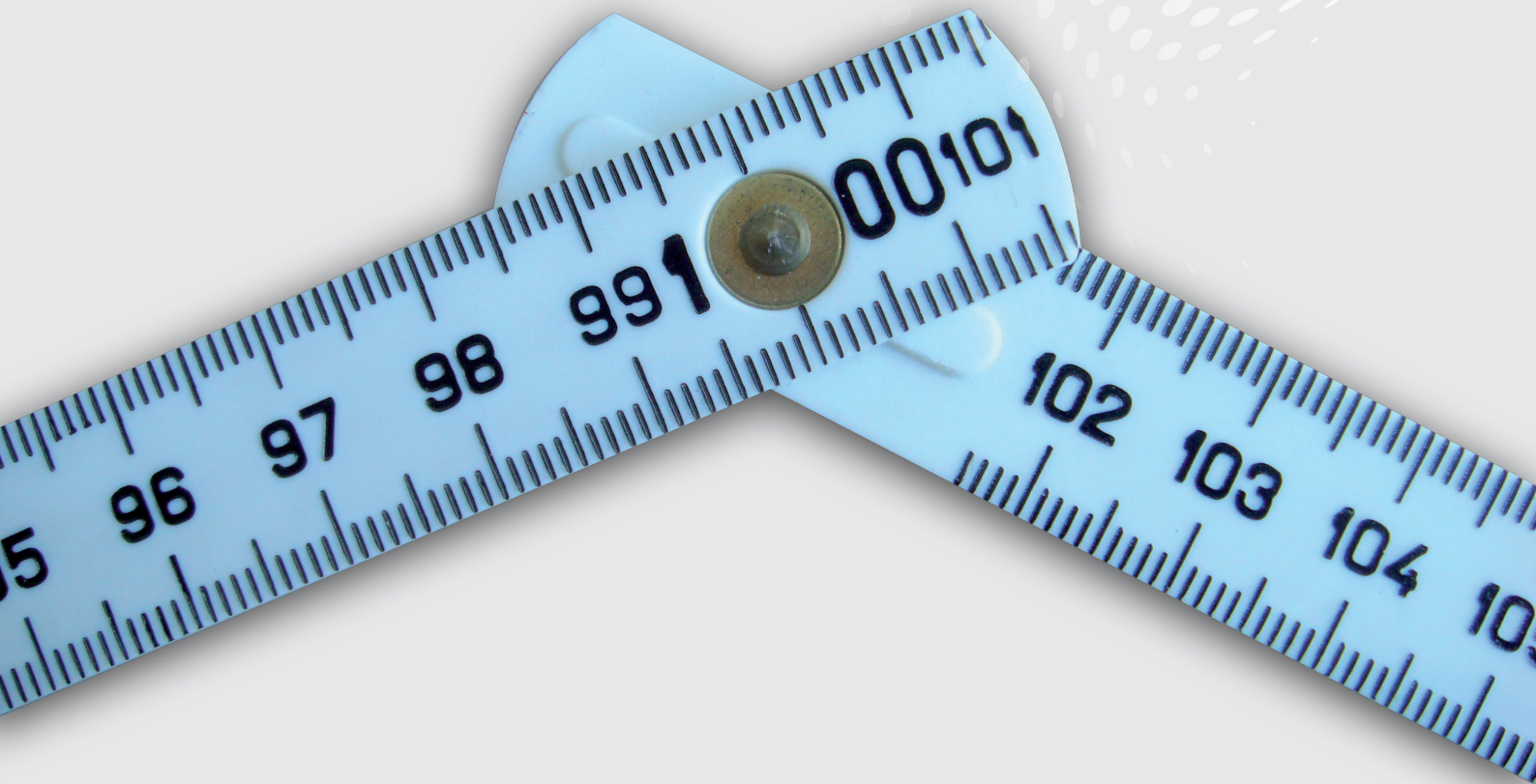
For manual work, for set-up or repairs and maintenance, the robot is simply pushed aside. Safety zone can be supplied.

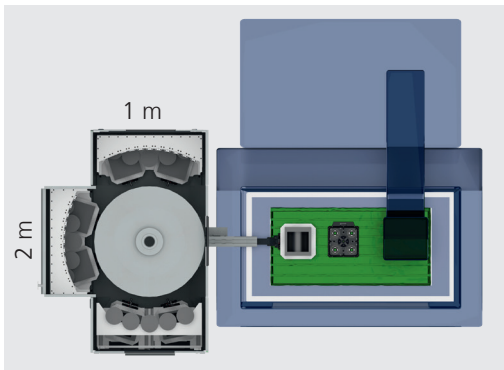


When lowering to the exchange position, the robot is reliably aligned via the positioning.

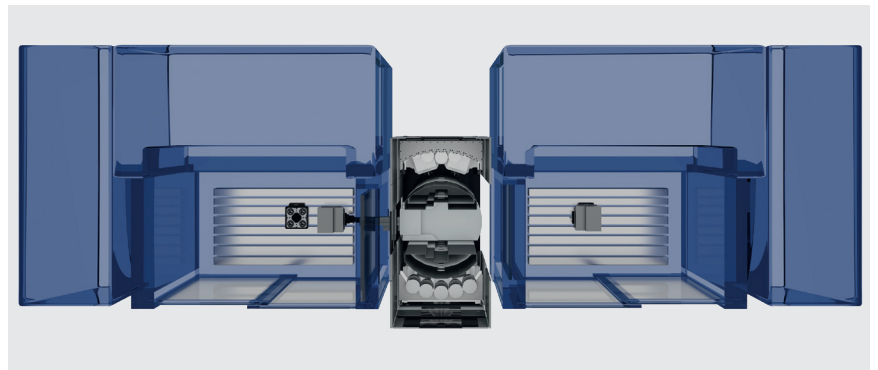
So little Space

More autonomy for your machine, but only little space? A typical case for an EROWA Robot Compact 80. On a footprint of only 2 m², it offers over 200 magazine positions. And if you want it to, it will supply two machines.

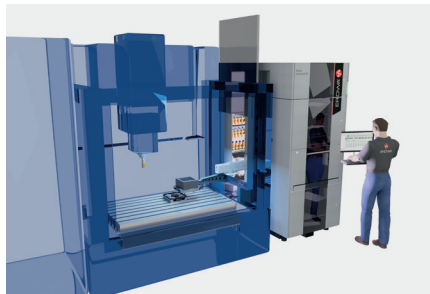




EROWA Robot Compact 80 with an additional magazine. Over 300 workpieces are available for machining.



EROWA Robot Compact 80 "Twin" supplies two machines.



EROWA Robot Compact 80 loads a machining center from the side. The PC panel (optional) allows the robot to be operated ergonomically.



EROWA Robot Compact 80 in front of a milling machine. Is pushed to the side if necessary.



EROWA Robot Compact 80 between an EDM machine and a milling center.

ALWAYS FITS

- Between machines
- Beside machines
- In front of machines

35 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 presence
- Experience with over 4000 robots
- Standardized interfaces
- Long-life systems
- Integrated security system

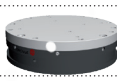
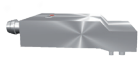
The Facts

- Only 2 m² for over 200 magazine positions
- Supplies one or two machines
- Flexible magazine configuration
- Mono-block design
- Over 300 pallet positions with additional magazine

Extension options

- Automatic gripper change depending on pallet size
- Automatic pallet identification via chip
- Sliding unit for machine access
- Sliding doors for magazines
- Airdock for direct air supply to table chucks

MAX. NUMBER OF AVAILABLE PALLET POSITIONS PER MAGAZINE LEVEL (DEPENDING ON THE WORKPIECE SIZE)

	EROWA Tooling	Standard Magazine level
	ITS Compact holder	11
	ITS 50 / ITS 50 C Holder	11
	ITS Holder 72	11
	ITS Pallet 115	5
	ITS Pallet 148	5
	PM 56	11
	PM 85	9
	PM 128	5
	PC 210	3
	UPC	2
	PalletSet W	2 or 3* * depending on the version

TECHNICAL DETAILS

Transfer weight	80 kg
Swivel arm	Yes
Gripper change	Yes
Weight per level	up to 180 kg
Weight per rack magazine	1,000 kg
Two-machine operation	Yes

TRANSFER AXIS

X-axis travel	1,380 mm
Z-axis travel	1,680 mm
Swivel range	350°
System size LxWxH mm	2,014x1,069x2,612

MAGAZINES

Two integrated magazines	max. 12 levels per magazine
Third magazine (option)	max. 12 levels
Loading station UPC/PC210 (option)	Yes
Pass-through magazine for	Yes
ITS Compact/50/72 hanging	

ELECTRONICS

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

SYSTEM GRIPPERS



RCS 5 gripper for PalletSet W.
At the same time, interface for all other exchange grippers.
Load capacity horizontally/vertically max. 80 kg.



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



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.



S gripper for ITS holder C.
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.

EROWA - Manufacturing automation at its best

EROWA AG, founded in Switzerland in 1971, is now a globally operating organization specializing in the development, production, consulting, and distribution of state-of-the-art manufacturing technology for tool and mold making, as well as for production and precision engineering. With their headquarters located in central Switzerland, EROWA ranks among the world's leading companies in clamping technology and automation. Having 13 subsidiaries and 22 representatives, EROWA offers international points of contact and worldwide customer service.



Empowering Your Production

The next step towards greater efficiency, precision and productivity starts now. With EROWA, you have a partner who will optimize your production holistically - from clamping technology to automation and process control. Our innovative solutions adapt flexibly to your requirements and grow with you - for production that is ready for tomorrow.

Get in touch with us - we will be happy to assist you.



EROWA - Contacts
international