

Robot Leonardo

Productivity without compromise



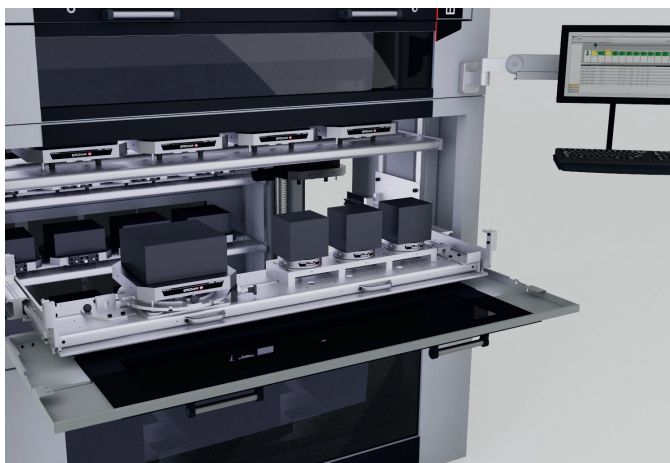
Well-thought-out functionality

Leonardo is a high-performance pallet handling system featuring multi-level magazines. With a transfer weight capacity of 120 kg, Leonardo handles heavy loads with speed and stability. Its extended X-axis travel of 1,565 mm provides exceptional reach, making it ideal for integration with large machines and complex production environments.



CUSTOMER BENEFIT

- MonoBlock design
- Integrated loading station
- Automatic mixed pallet operation possible
- Ideal space/pallet ratio
- Open magazine configuration
- Secure monitoring
- RFID pallet identification
- Monitored pallet input/output
- Two-machine loading

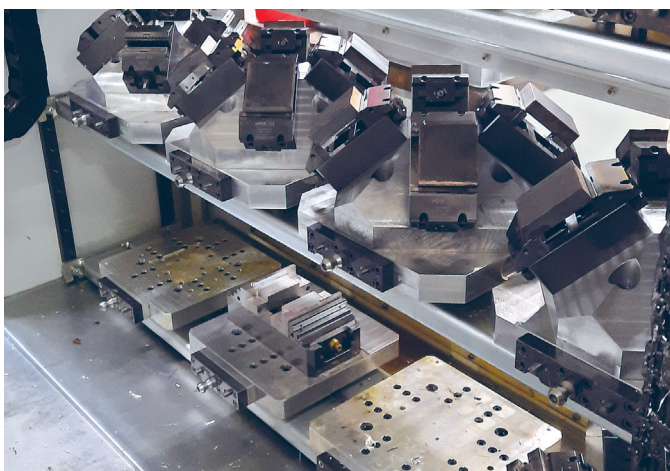


Self-contained system

Accommodates up to 64 UPC 320 pallet positions in a compact 2x2 meter area.. Pallets do not leave the system, as setup work takes place at the integrated loading station.

Versatile areas of application

Ideal for automatic loading of CNC machines in single-item production, small-batch production, and tool and mold making. Its compact design and flexible magazine configuration make it particularly suitable for workshops with limited space. It facilitates the handling of pallets of different sizes and weights, reduces manual intervention, and increases machine uptime.

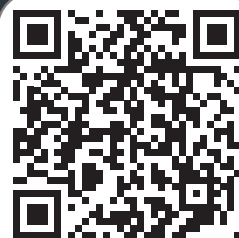


Optimal ratio of storage space to number of pallets

The Leonardo can accommodate 64 UPC pallets (320x320mm) in just under 4m² of storage space. Thanks to the integrated loading station, there is no need for an external setup area. Adjustable storage levels accommodate different EROWA pallet sizes, maximizing flexibility and space efficiency.

Flexibility for single-item and small-batch production

Perfect for applications that require frequent setup changes. Thanks to its flexible magazine configuration, the EROWA Leonardo is particularly well suited for handling workpieces of different sizes and weights.

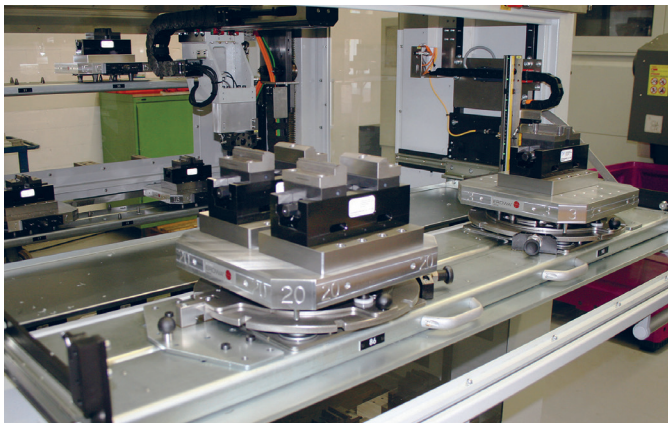


more information
Robot Leonardo

NUMBER OF PALLET POSITIONS IN ROBOT LEONARDO HIGH*

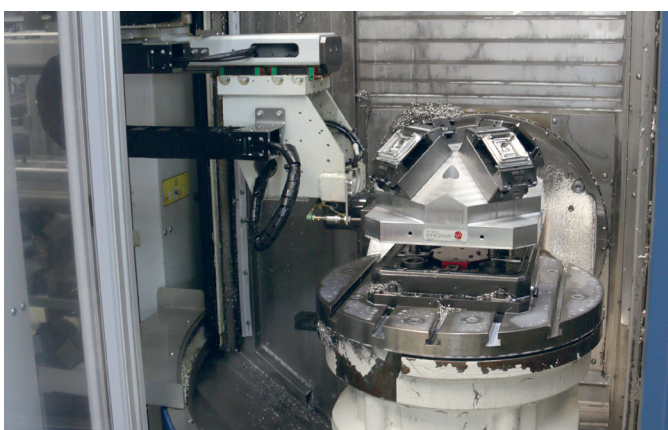
	EROWA Tooling	Workpiece height	Workpiece size	No. Tooling	Max. floors	No. Tooling	Max. weight
		mm	LxW (Ø) mm	per floor	per device	per device	floor (kg)
	ITS 148	140	200x320	6	23	138	240
		250	200x320	6	15	90	240
	PC 210	150	260x260 (Ø 260)	5	20	100	500
		250	260x260 (Ø 260)	5	14	70	500
	UPC	150	350 x 350	4	20	80	480
		250	350 x 350	4	16	64	480
		400	350 x 350	4	10	40	480
	MTS 400	150	460x460	3	20	60	360
		250	460x460	3	16	48	360
		400	460x460	3	10	30	360
	MTS 500	250	500x500	2	16	32	240
		400	500x500	2	10	20	240

* Standard configuration with two integrated magazines.
For further information, please contact your EROWA dealer.



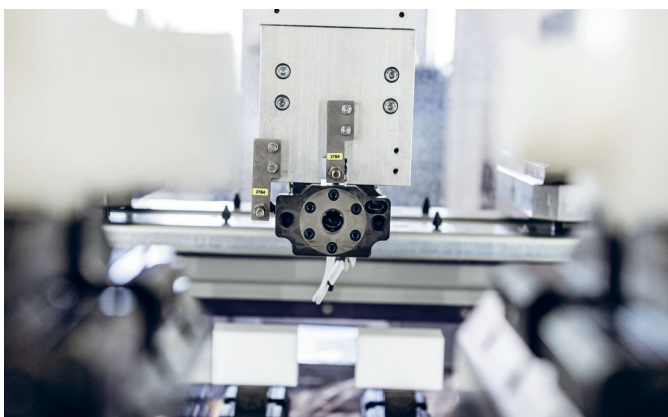
Integrated loading station

Pallets are fed into the robot via the integrated loading station. Leonardo automatically places the prepared pallets in an available magazine position, which simplifies and speeds up the setup process. The workpieces are freely accessible from all sides of the loading station turntable.



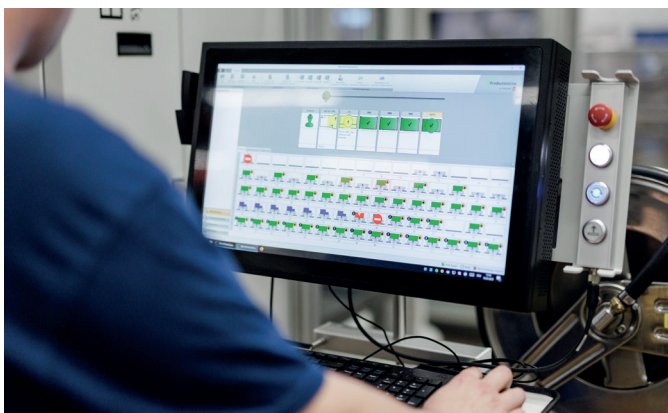
120 kg transfer weight

With a standard transfer weight capacity of 120 kg, the EROWA Robot Leonardo ensures dependable transport of both large and small pallets. Intelligent monitoring of pallet input and output guarantees consistent, efficient, and reliable manufacturing.



High reach and flexibility

The robot's X-axis has a long travel distance with a reach of 1,384 mm inside the machine, allowing even large machines to be reached without any problems. Strong gripper couplings allow the grippers to be changed flexibly when using different pallet sizes.



Unlock unused production hours

The EROWA JMS® 4.0 process control system provides a clear overview. It connects all data and controls the entire production process. The order list, priorities, CNC programs, tool management, and current status messages show you what's going on at a glance.

More information about the process control system:



Data at a glance



TECHNICAL FACTS

TRANSFER WEIGHT

Transfer weight	120 kg
Pallet change time	< 65 s
Gripper change	optional
Magazine loading max.	4,000 kg
Two-machine operation	Yes

TRANSFER AXIS

Travel distance X	1,565 mm
Travel distance Z	3,600 mm
Reach in machine	1,384 mm
Horizontal rotary axis	+/- 90°

DIMENSIONS

Dimensions LxWxH	1,910 x 1,822 x 4,868 mm
Empty weight	2,400 kg

CONTROL

Interface	Ethernet
Magazine pos. management	static
Workpiece identification	RFID (optional)
Job Manager	EROWA control system JMS 4.0 ML (MoldLine) JMS 4.0 PL (ProductionLine)

GRIPPER



RCS 5 coupling for MTS, UPC. Also serves as an interface for all other interchangeable grippers. Load capacity max. 120 kg.



RCS Gripper ITS148+ (monitored)
Load capacity 40kg



RCS Gripper PC210+ (monitored)
Load capacity max 120kg.

OPTIONS

Setup during main processing time

With accessible loading station for uninterrupted operation.



RFID identification

Pallets are identified via RFID chips, allowing real-time tracking of their location – both inside and outside the loading device at any time.



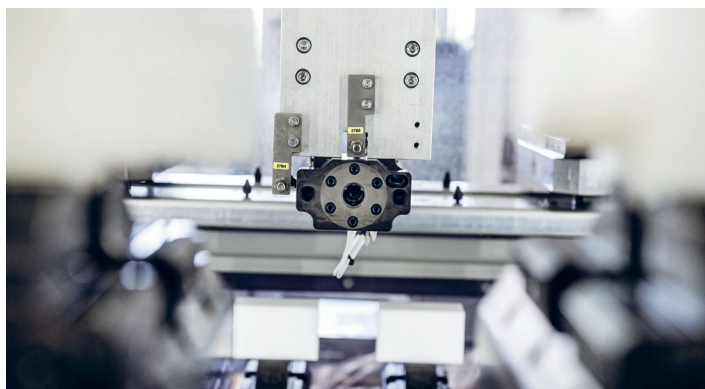
Two-machine loading

Leonardo can load two machines.



Automatic gripper change

Mixed operation with automatic gripper change is available as an option.



EROWA - Manufacturing automation in perfection

EROWA AG, founded in Switzerland in 1971, is now a global organization for the development, production, consulting, and distribution of state-of-the-art manufacturing technology in tool and mold making as well as in production and precision mechanics. EROWA is one of the world's leading companies in its main areas of activity, clamping technology and automation. EROWA's headquarters are located in central Switzerland. With its 13 subsidiaries and 22 agencies, EROWA offers international contacts and worldwide customer service.



Empowering Your Production

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

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



International
EROWA contacts