

Robot Leonardo

Easy operation and robust functionality



Uncompromisingly productive

The autonomous system has many advantages.

Up to 32 pallet positions for UPC 320 are available on only 2x2 meters floor space. Pallets do not leave the system, because setups take place on the integrated loading station.

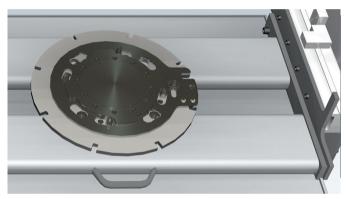




Leonardo is a pallet-handling unit with multi-level magazines. Transfer weight is 120 kg.

The X-axis has a long travel range of 1565 mm reaching even into large machines.

Other options are: Automatic gripper change, or 8x45° rotatable loading position.



Rotary plate on the loading station. Easy access to the workpieces on multiple clamping devices or tombstones. With lockable 8x45° pitch.

The pallets are securely held for direct clamping of workpieces using a large torque wrench.



Pallets are moved into the robot via the integrated loading station. Leonardo automatically places the prepared pallets into an available magazine position.



FACTS

MonoBlock design
Scalable concept
Integrated loading station
One robot – various pallets

More than expected

Leonardo exceeds expectations in more than one aspect. The flexible magazine configuration is a major advantage over other devices. The autonomous system ensures a clean working environment, and the operation is extremely easy.









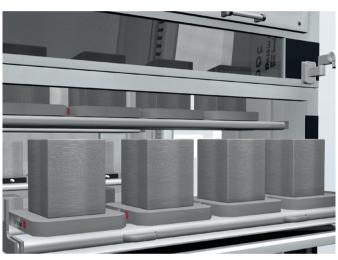
Pad control

The few necessary commands are entered using a touch pad. The integrated control unit has a high autonomy. Pallets are stored automatically at an available position.

Magazine configuration

The various EROWA standard pallet sizes are placed optimally at the storage levels. Depending on requirements, the levels are matched to each other in height.





Optimum ratio of installation location to number of pallets

32 UPC pallets (320x320 mm) can be accommodated in Leonardo's just under 4 sqm of floor space. An external setup station is unnecessary thanks to the integrated loading station.



FACTS

Control panel with control system
Excellent space/pallet ratio
Open magazine configuration

Modular design

To fit Leonardo perfectly to the machine, a variety of combination options are available. In cooperation with the machine manufacturer, the optimal configuration is worked out and declared a standard. The magazine division remains largely open and can be customized.





2-machine loading (optional) offers maximum productivity.

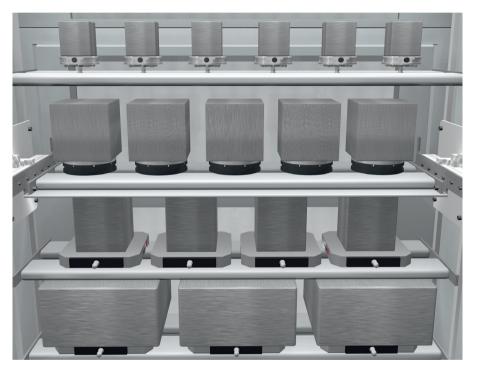
Modular design

Large or small pallets

From ITS 148 to MTS 500 – all pallets are reliably exchanged. If desired, also in mixed operation with automatic gripper change.

Whether placed on the right, left or front of the machine, the 1565 mm travel range of the X-axis allows Leonardo to reach

the chuck on the machine table.



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Control system

The EROWA process control system JMS 4.0 provides the basis for increasing the effective machine time. By linking all data and controlling the complete manufacturing process, processes are accelerated and possible human errors are minimized.

FACTS

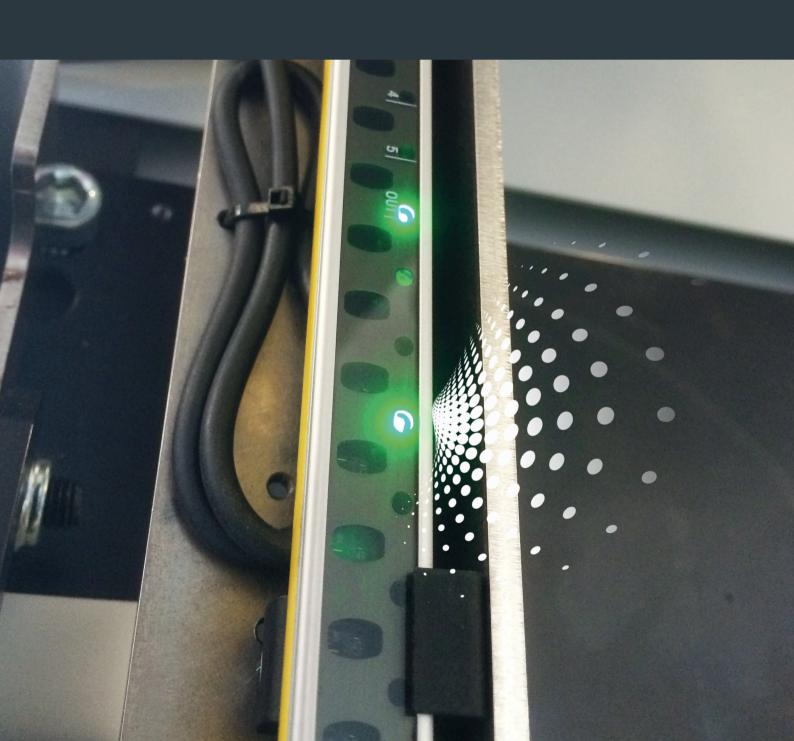
Advanced control Integrated safety

Open interfaces

Only with Leonardo

Setup of next jobs while the robot is working. Thanks to a light barrier, safety is assured.

It's the carefully thought out little helpers that make a big difference.

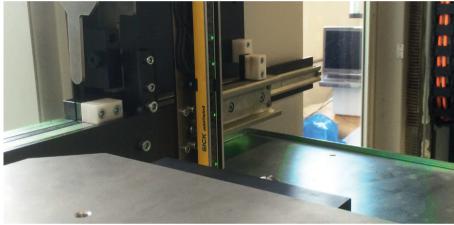


Options



Setup during main time

With open loading station for uninterrupted operation.



RFID identification

The pallets are identified by RFID chips. This allows you to locate any pallet inside or outside the loading device.



Remote maintenance

For quick intervention or software updates.

Two-machine loading

Leonardo can load two machine tools, one to the left and one to the right.



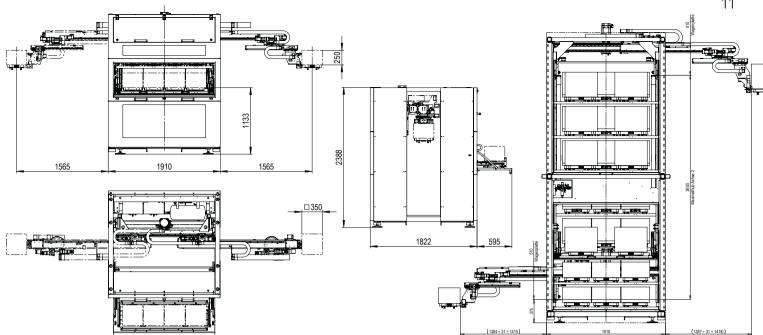
FACTS

Safe monitoring
RFID pallet identification
EWIS ManuLink
Two-machine loading

At a glance

These specifications may be get you excited.





TECHNICAL DETAILS

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Transfer weight	120 kg			
Pallet changing time	< 65 s			
Gripper change	optional			
Magazine capacity max.	4000 kg			
Two-machine operation	left and right (o	ptional)		
TRANSFER AXIS	STANDARD	HIGH		
X travel	1565 mm (UPC 320)	1565 mm		
Z travel	1245 mm (UPC 320)	3600 mm		
Rotational axis horizontal	+/- 90°			

DIMENSIONS lxwxh

DIMERSIONS IXWAII			
STANDARD	1910 x 1822 x 2420 mm (UPC 320)		
НОСН	1910 x 1822 x 4868 mm (UPC 320)		
Empty weight	STANDARD HIGH		

2000 kg

2400 kg

MAGAZINE POSITIONS STANDARD HIGH

	MAGAZINE	031110143	JIANUANU	mon	
	Pallet	Envelope co	ontour		
	ITS 148	200x200	48x	96x	(6 per level)
	PC 210	250x250	40x	80x	(5 per level)
	UPC 320	350x350	32x	64x	(4 per level)
	MTS 400	460x460	24x	48x	(3 per level)
	MTS 500	500x500	16x	32x	(2 per level)
Workpiece height		250 (35	0/400)	mm	

CONTROL SYSTEM			
Interface	Ethernet		
Magazine position management	static		
Workpiece identification	RFID (optional)		
Job Manager	EROWA Control system ML (MoldLine) PL (ProductionLine		

SYSTEM GRIPPERS



RCS 5 gripper for MTS, UPC. At the same interface for all other exchange grippers. Load capacity horizontally/vertically max. 130 kg.



PC210 gripper for PC210 pallets with ring groove. Load capacity horizontal/vertical max. 130 kg.



ITS 148 gripper for ITS 148 pallets. Load capacity horizontal max. 40 kg, vertical max. 30 kg.



EROWA 🥋

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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