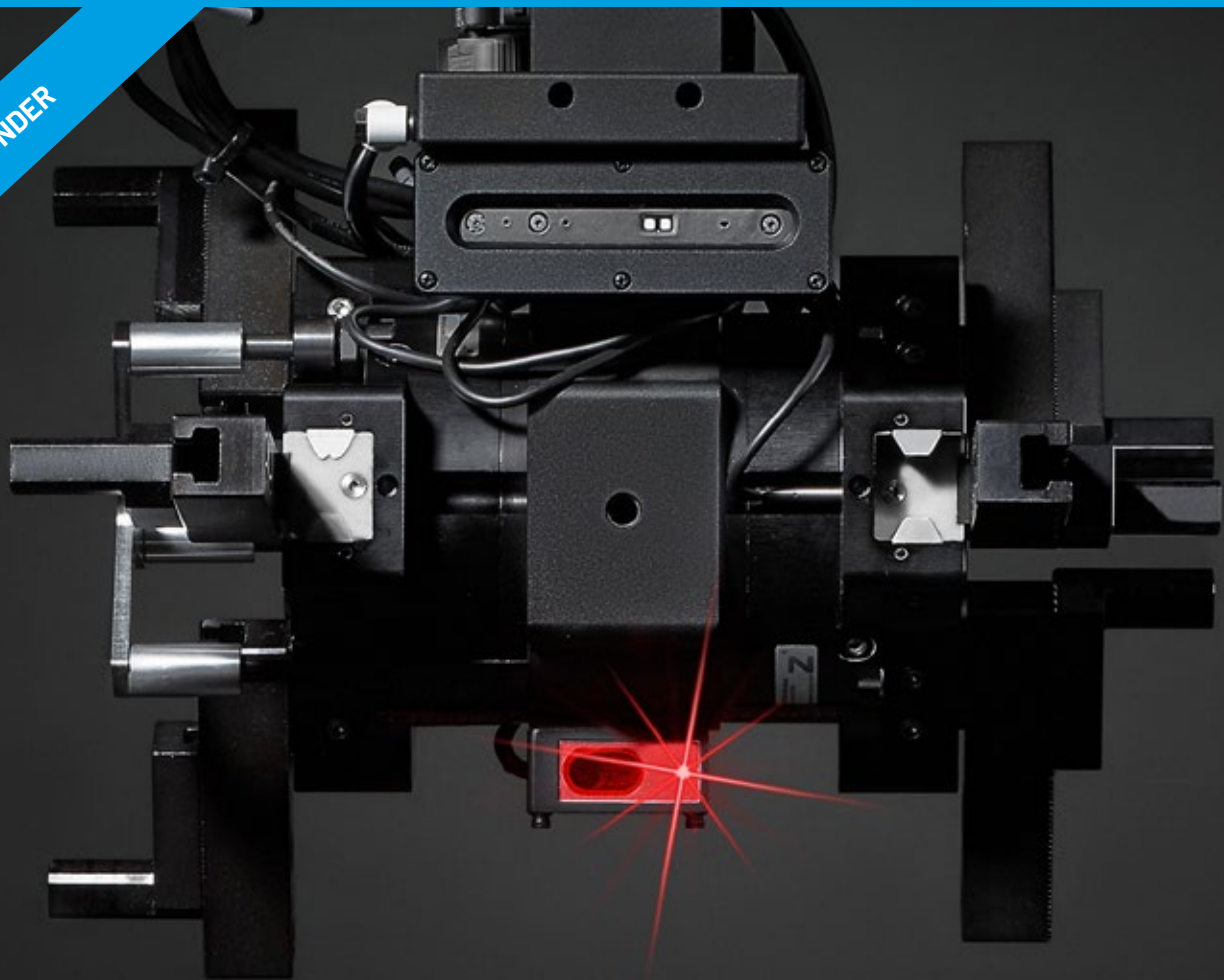


SherpaLoader® UR-Series

Camera-guided CNC automation
for small and medium-sized batches

THE ALLROUNDER



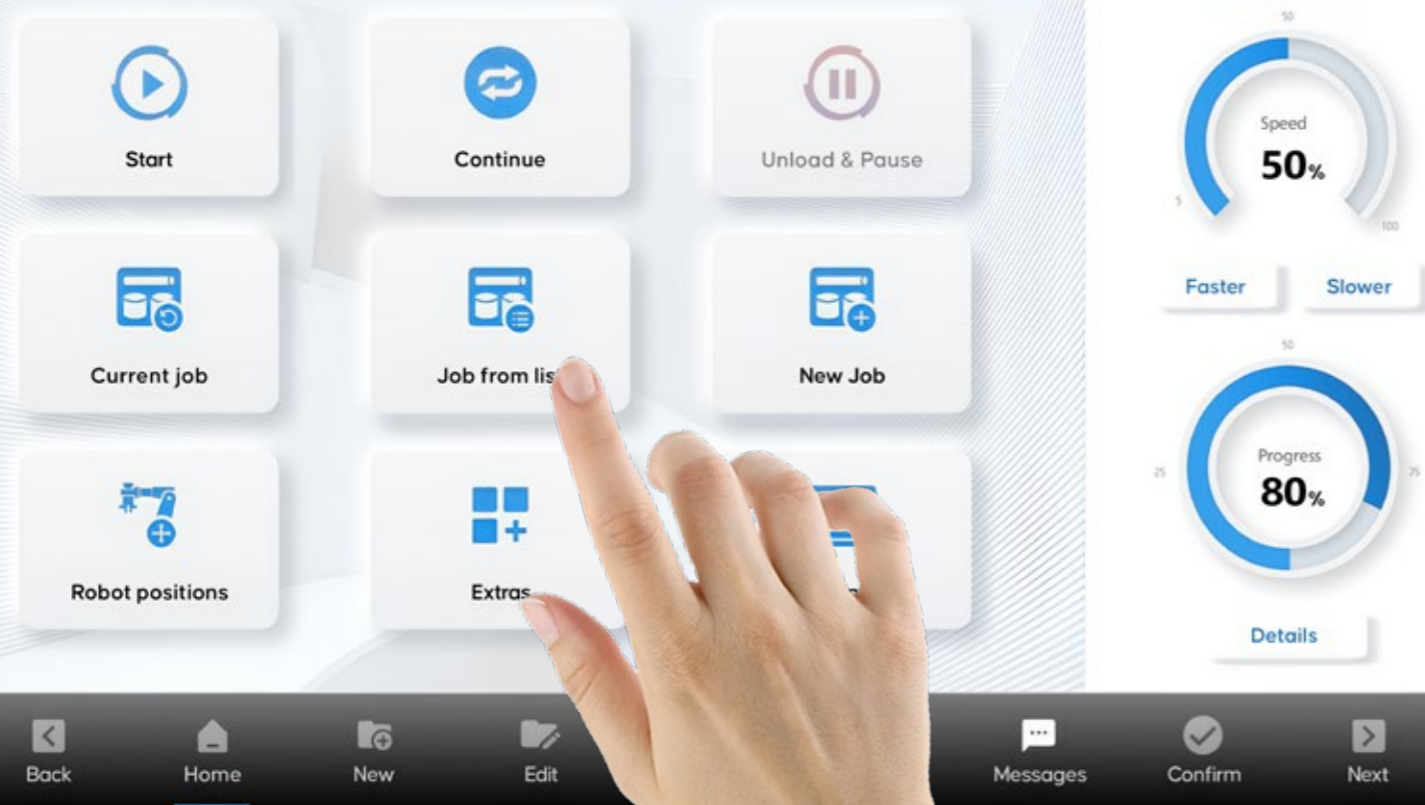


Make or Buy?

The SherpaLoader® delivers a fully engineered, camera-guided automation solution designed for production environments. Instead of fragile self-built systems, it offers stable part detection and reliable handling without grids, pins, or manual retooling.

Industrial-grade components, protected optics, and integrated interfaces ensure dependable multi-shift operation. The result is a system that is ready to run unattended through the night and over weekends. With the push of a button the SherpaLoader® is predictable, productive, and economically viable.





Intuitive

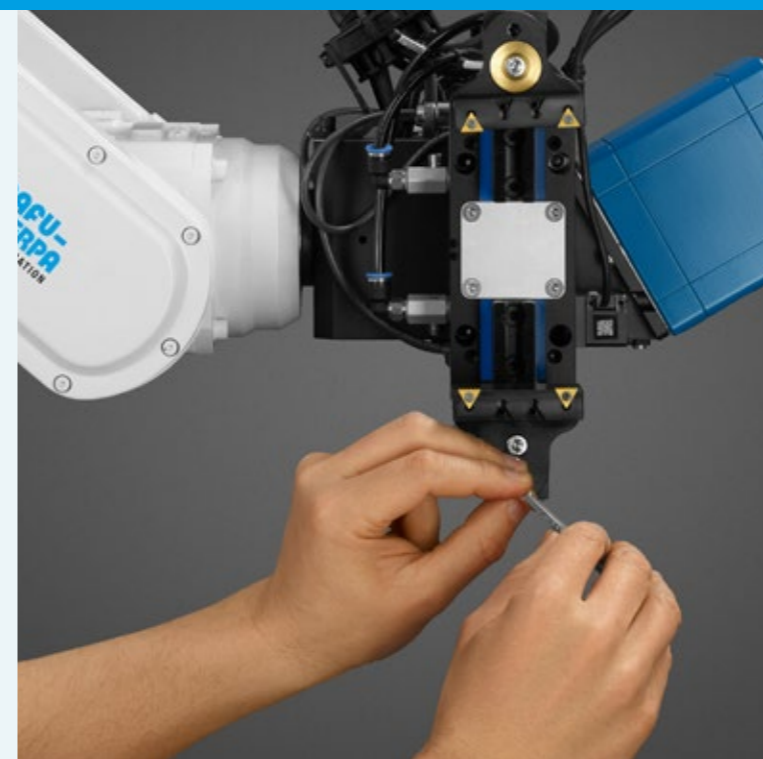
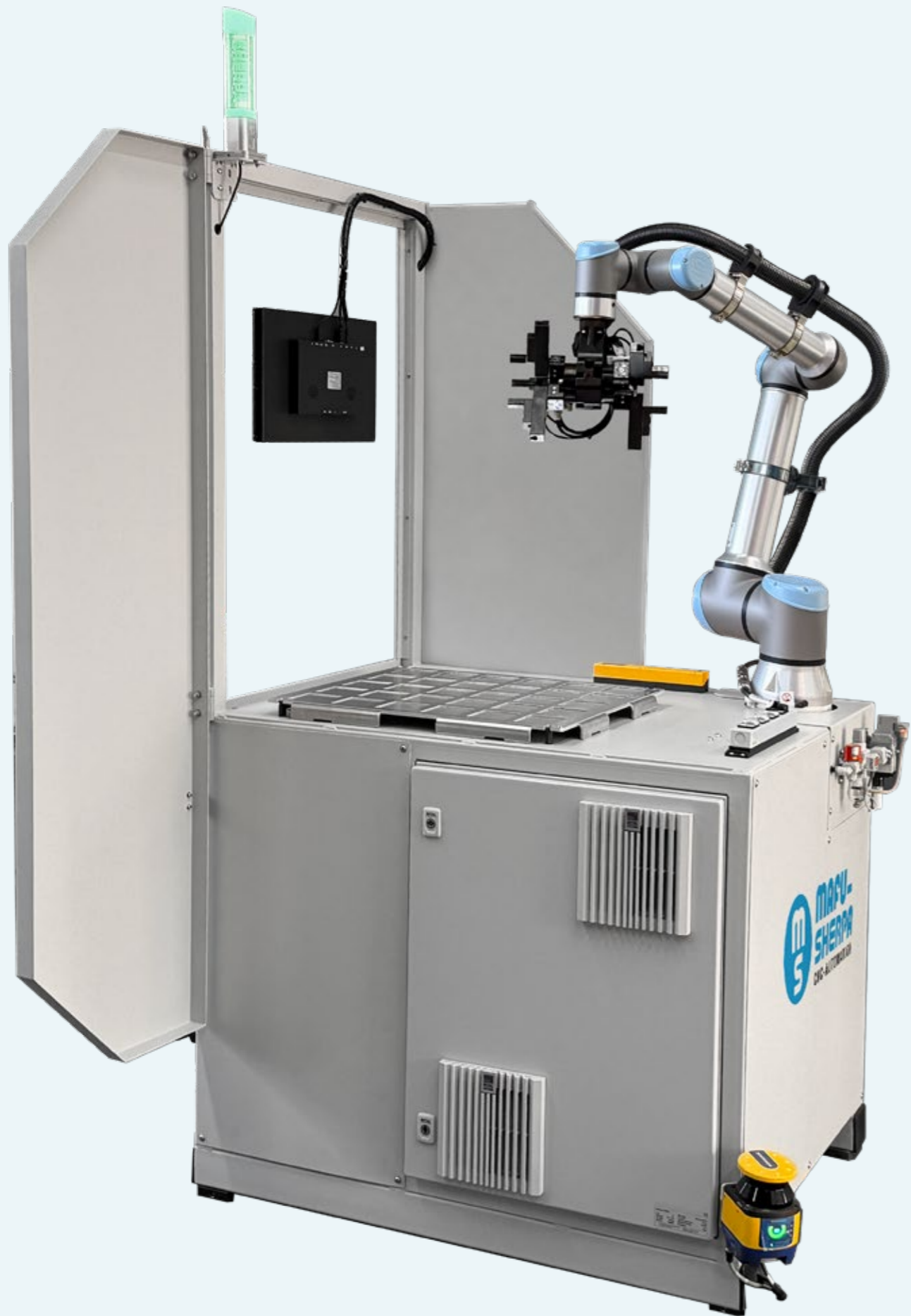
The robot cell is operated through a 17-inch touch display with a smartphone-like interface. Clear symbols and guided input screens simplify setup, so even new jobs can be configured without programming skills. Fast, user-friendly, and efficient – as easy as 1-2-3!



Flexible

When tomorrow's orders are uncertain, flexibility matters. With batch sizes from 5 to 5,000, the SherpaLoader® delivers unmatched versatility. Its adaptable design fits any production environment, and its modular interface connects seamlessly with all major machining centers.



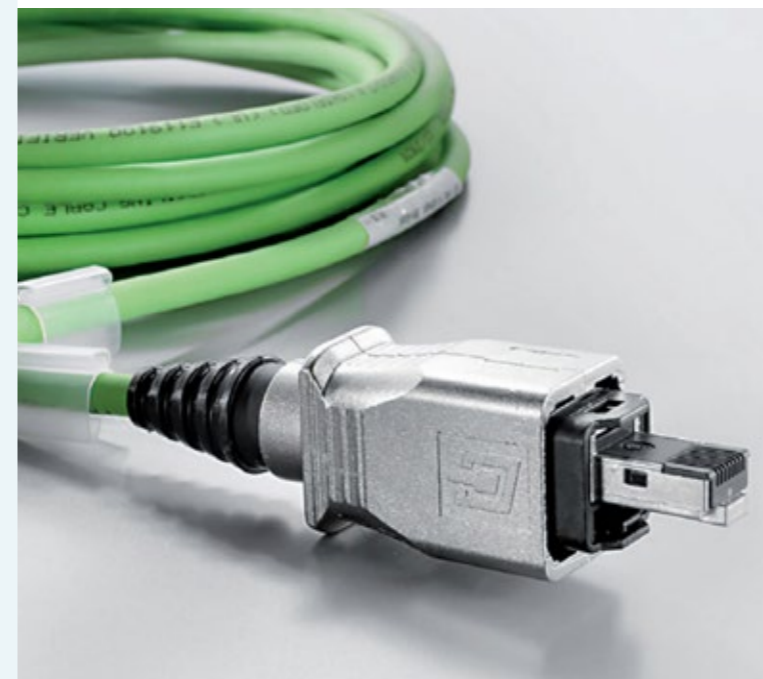


Adaptive Grippers

As a long-standing system partner, all robot cells are equipped with ZIMMER handling technology. Cylinders are clamped with 3-jaw centric grippers, while square material and shafts use 2-jaw parallel grippers. The gripper fingers are quickly and accurately adjusted over a wide range with fine-tooth gearing.

Air Blow

Cleanliness is key to precision work. The SherpaLoader® is equipped with an air nozzle to clean the clamping device of the machining center before loading blanks and to remove coolant and chips from parts after machining.



Universal Interface

The SherpaLoader® is compatible with both new and existing machines. For the past decade, machine tools have offered bus interfaces for automation. The SherpaLoader® supports popular standards like Profibus, Profinet, and EtherNet/IP. For machines without a bus interface, MAFU-SHERPA uses M-Functions and floating relay contacts. This helps customers to avoid costly retrofitting by the original machine manufacturer.

Technical Specifications

SherpaLoader®

	T10/M10 UR	T12/M12 UR
Workpieces		
Cylinders [mm]	Ø 10 - 150	Ø 10 - 150
	l 10 - 150	l 10 - 150
Cuboids [mm]	10 x 10 x 10 - 150 x 150 x 150	10 x 10 x 10 - 150 x 150 x 150
Shafts [mm]	Ø 10 - 30 l 50 - 300	Ø 10 - 30 l 50 - 300
Weight [kg]	max. 6	max. 8
Workpiece Capacity		
Ø or length 40 mm	max. 164	max. 336
Ø or length 100 mm	max. 16	max. 72
Ø or length 200 mm	-	-
Storage Area		
Integrated [sqm]	0.4	2.1
Supply		
Power	230V, 3A	230V, 3A
Compressed air [bar]	3 - 8	3 - 8
Dimensions		
Length [mm]	1,200	1,400
Width [mm]	800	800
Height [mm]	2,000	2,000
Weight [kg]	430	585

Specifications subject to change.



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