powered by **Wirebot** technology

The **SHARP**
a robotic solution for vertical wiring
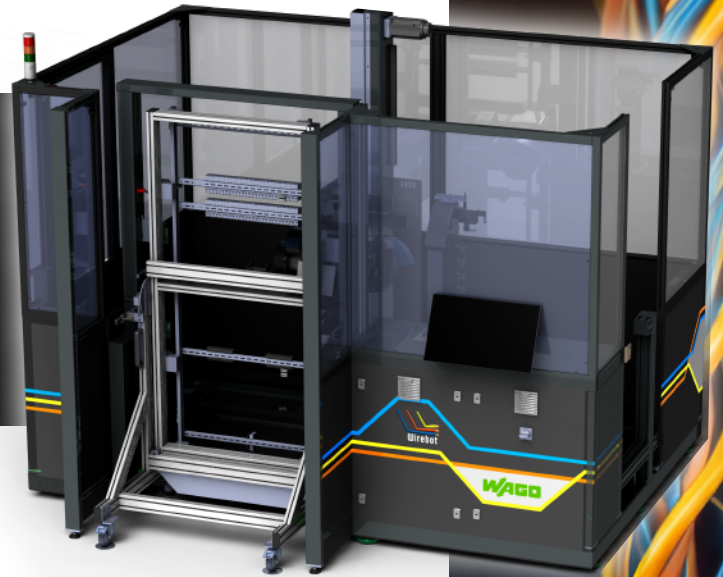
Fully automated, vertical, high-speed platform for electrical panel wiring
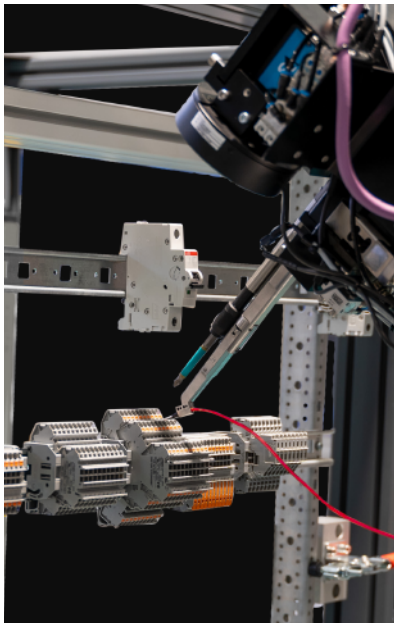
- Increased productivity
- Quick setup time
- Real time diagnostics and reporting
- Improved consistency and QA
- Data collection & tracability
- Interface to planning software
- Real time component validation
- Support standard rolls and ferrules

Smart wiring technology

SHARP 18075A
Specifications

Wirebot

Physical dimensions	
Size	4.0m x 2.7 m x 2.5 m

Panel wiring dimensions	
Max. panel dimensions	Up-to 1,800 mm x 750mm x 230 mm
Max. components height	150 mm
Panel orientation	Upright on holding frame

Typical wires & ferrules	
Number of wire types	Up-to 16 rolls (standard wire rolls supported)
Number of wire gauges	0.5, 0.75, 1.0, 1.5, 2.5 mm² \ 20,18,17,16,14 AWG (Optional 4, 6 mm² \ 12, 10 AWG)

Terminal	
Terminal types	Snap in (push-in) and screw type
No. of screws bits	Up to 7
No. of twizers tools	Up to 12

Cycle time	
Typical wiring cycle time	~ 35 sec /wire

Diagnostics	
Wire gauge validation	Optical detection
Components position	By vision
Wires pull tests	Real time, as part of wiring sequence

Software	
Machine control	Intuitive HMI, motion, I/O , sensors and remote maintenance
Components data base	Linked to validated cloud database
SmartFab	Get data from planning software, generate optimized routes and sequence, re-edit panel data before operation.
Vision	Initial scan, components position validation and guidance