



HERO SCOUT

Advanced Mobile Robot for Handling and Transportation of Reticle Pods

The HERO Scout is a state-of-the-art mobile robot, specifically designed for flexible transportation and secure handling of reticle pods in semiconductor manufacturing and cleanroom environments. Equipped with an innovative 6-axis cobot, the HERO Scout effortlessly manages the loading and unloading of mask load ports at different heights. As the smallest cleanroom-compatible autonomous mobile robot on the market, it stands out for its ease of use, flexibility, and maximum reach. Discover the future of safe reticle handling with the HERO Scout - your solution for efficient & reliable manufacturing in the semiconductor industry.

Features & Benefits

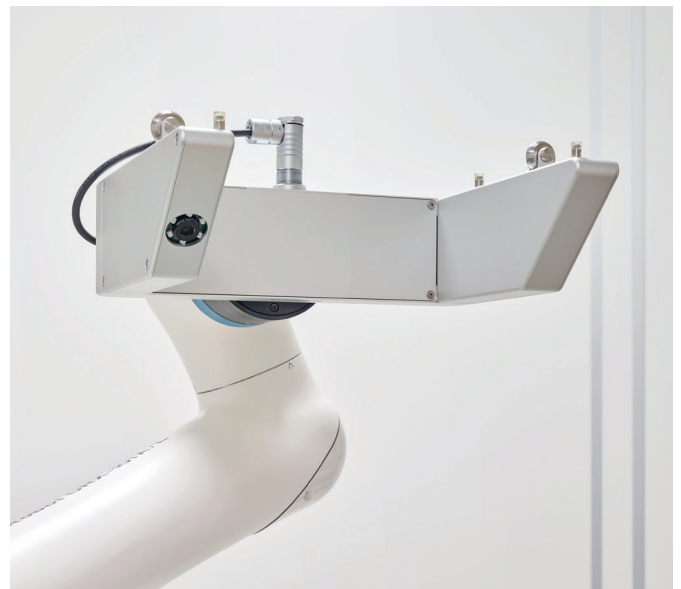
- **Compact size:** Minimum footprint enables operation in narrow aisles and crowded fab areas.
- **Long reach:** The 6-axis precision cobot arm is ideal for loading high, ergonomically challenging positions.
- **Flexible operation:** HERO Scout autonomously navigates with 3D cameras for obstacle detection and bypassing, providing both track-bound & free-roaming driving options to meet the most diverse production needs.
- **Safety first:** Impressive array of sensors ensure safe operation in human-machine environments.
- **Fast deployment:** SLAM, autoteaching, and auto-gripping enable rapid commissioning & re-engagement after maintenance.
- **Clean operation:** ISO 2 certified.



Technical data

HERO SCOUT

Dimensions (length x width x height)	660 x 580 x 1,360 mm (26" x 23" x 54") (without robot)
Reach of robot (shelf / loadport height)	200 – 1,700 mm
Weight	230 kg
Speed	Max. 1.4 m/s
Floor inclination (ramps)	Up to 6%
Payload robot	Max. 10 kg
Handling material	RSP, MRSP, DMS boxes, probe cards
Storage capacity	2 buffers
Min. aisle width	650 mm
Type of drive	Differential
Cleanroom class	ISO 2 / US FED 0.1 certified
Operating time	24/7
Battery charging	Inductive charging on-the-fly
Safety (driving & handling)	360° monitoring with 2 laser scanners
Certifications	AMR: CE, UL, SEMI S2, ISO 2 Battery: UN38.3, IEC/UL 62133, IEC 62619, UL2271



Pictures: © Sven Claus/Fabmatics GmbH; V1.0 Published June 2024



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