

TECHNICAL DATA | MOBILE ROBOT 10 KG SAFE



Mobile Robot

MR10S

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The Mobile Robot MR10S consists of the driverless vehicle L1200S and a collaborating robot; it is location-independent and therefore extremely flexible to use. The robot is certified for a maximum load of 10 kg with a reach of 1,300 mm for the highest positioning accuracy. Furthermore, it meets the clean room criteria of class 100 (ISO 5). The installed sensor technology makes it safe for human-robot collaboration. The Mobile Robot supports the employee and avoids exhausting and ergonomically unfavorable working steps. The Grenzebach fleet manager coordinates all transportation tasks - completely autonomously.

- Adaptable gripper technology perfectly suited for the product
- Configured for operation in clean rooms per clean room class 100 (ISO 5)
- Various loading concepts



Dimensions (approx.)	1,240 mm (l) x 690 mm (w) x 600 mm (h platform)
Payload	Up to 10 kg for a load center at 600 mm
Speed (empty)	0.02 – 1.0 m/s
Speed (loaded)	Up to 1.0 m/s
Reach (robot)	1,300 mm
Turning radius	Stationary point, optimum radius $r = 1.4$ m
Navigation	Laser, induction, camera guidance
Travel	Forward and reverse
Stopping accuracy (AGV)	Down to ± 10 mm
Stopping accuracy (robot)	$\geq \pm 0,2$ mm
Brake	Electromagnetic – spring applied/electric release
Operating voltage	48 VDC power & 24 V control
Battery type	AGM or lithium ion technology
Battery charging	Contact-free automatic intermediate charging or contact-based quick charging
Safety	Safe 360° all-round view
Additional safety	Certified programmable laser scanner on all sides, safety shutdown board & force torque sensors as well as radio-based e-stop system
Operating time	24 hours, 7 days
Overall weight	350 kg

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