MiR Shelf Carrier 250 specifications

General information

Designated use	The MiR Shelf Carrier is an anchoring device that makes it possible to lock to shelves and move them
Type	Shelf Carrier for MiR250
Color	RAL 9005 / Signal Black - glow 10
Product design life	5 years or 20 000 hours, whichever comes first
Cover material	Aluminum
Disclaimer	Specifications may vary based on local conditions and application setup

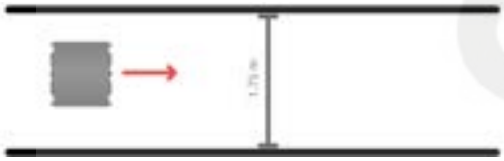
Dimensions

Length	778 mm | 30.6 in
Width	560 mm | 22.8 in
Height	77 mm | 3 in
Height with MiR250	370 mm | 14.6 in
Lifting height	27 mm | 1.1 in
Weight with MiR250	146 kg | 321 lbs (without battery or payload)
Load surface	800 × 580 mm | 31.5 × 22.8 in

Payload

Maximum carrier payload	Up to 300 kg | 661 lbs including the weight of the cart

Performance

Maximum speed (with maximum payload on a flat surface)	1.2 m/s (4.3 km/h) | 3.9 ft/s (2.7 mph)
Number of lift cycles (with maximum payload)	Minimum 150 000
Power consumption	35 W (during engagement of pins)
Time used when placing and picking up a shelf	Picking up: Up to 28 s Placing: 12 s
Operational corridor width	With a shelf: 2 000 mm | 78.7 in Without a shelf: 1 250 mm | 49.2 in 

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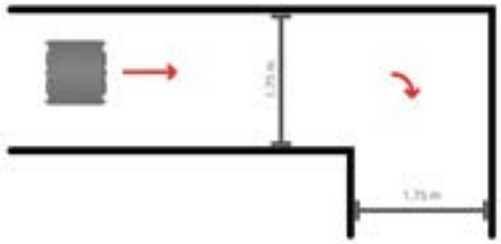
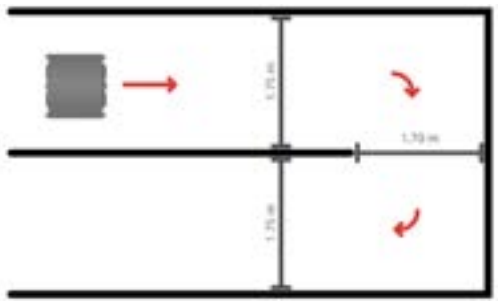
	1 750 mm | 68.9 in
Operational corridor width for a 90° turn	
	1 750 mm | 68.9 in
Operational corridor width for a 180° turn	
Operational corridor width for two robots passing	With a shelf attached:: 3 950 mm | 155.5 in Without a shelf attached:): 2 500 mm | 98.4 in

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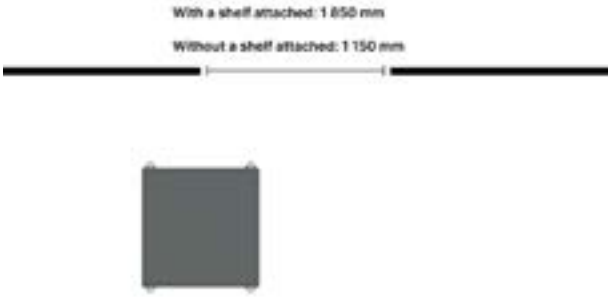
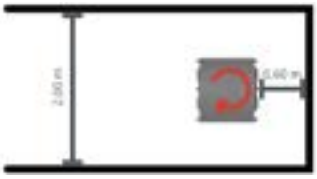
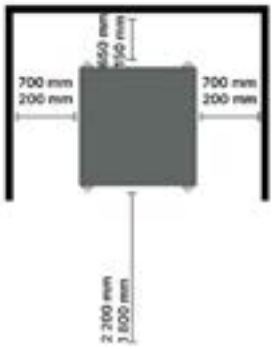
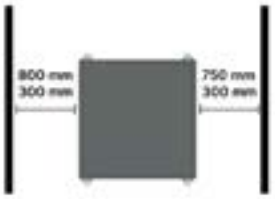
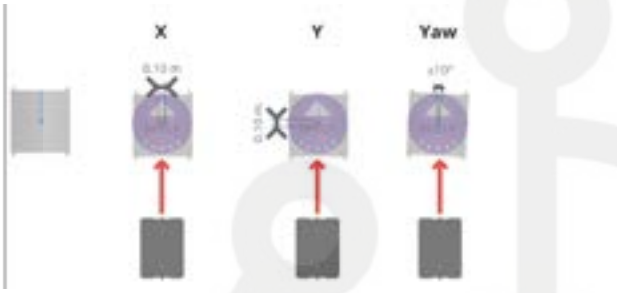
Operational doorway width	With a shelf attached: 1 850 mm | 72.8 in Without a shelf attached: 1 150 mm | 45.3 in 
Operational corridor width for pivoting	2 000 mm | 78.7 in 

Space needed for placing and picking up a shelf	Default setup: Behind the shelf: 650 mm | 25.6 in To the sides of the shelf: 700 mm | 27.6 in In front of the shelf: 2 200 mm | 86.6 in With muted protective fields and minimized footprint: Behind the shelf: 150 mm | 5.9 in To the sides of the shelf: 200 mm | 7.8 in In front of the shelf: 1 800 mm | 70.9 in ⓘ



	Default setup: 750 mm | 29.5 in to the right of the shelf, 800 mm | 31.5 in to the left of the shelf With muted protective fields and minimized footprint: 300 mm | 11.8 in to both sides of the shelf
Space needed for placing and picking up a shelf	
Minimum distance between shelves	Default setup: 600 mm | 23.6 in With muted protective fields and minimized footprint: 200 mm | 7.9 in
Tolerances of a shelf on a Shelf position for a successful pick-up	+/- 10 cm | 3.9 in on X-axis +/- 10 cm | 3.9 in on Y-axis +/- 10° yaw 
Maximum incline/decline	Not supported while carrying a shelf

Environment

Humidity	20–95% non-condensing

IP class	IP 21

Safety

Safe load position	Triggered if the speed exceeds 0.3 m/s 1 | ft/s while the lift/carrier is being lowered or raised

Compliance

CE	Yes—you can find the certificate on MiR Support Portal under Documentation > Documentation type > Certificates
EMC	EN 61000-6-1, EN 61000-6-4
Designed to meet safety standards for industrial vehicles	EN 1525 (except Clause 6.2 and Annex A), EN ISO 12100, ISO 13849-1, ISO 13850