

TECHNICAL DATASHEET

RI RILOG14001600 Handling Logistic Robot

Compact Pallet Stacker · Payload: up to 1,400 kg · Lifting: up to 1,600 mm



Compact autonomous pallet handling for narrow logistics spaces

The RI RILOG14001600 is a compact autonomous pallet stacker for open pallets and material racks. It handles payloads up to 1,400 kg and lifts up to 1,600 mm, combining 2D/3D LiDAR SLAM navigation, single steering-wheel drive and automatic or manual operation for precise indoor logistics.

Up to 1,400 kg

PAYLOAD

Up to 1,600 mm

LIFTING HEIGHT

1.3 m/s

OPERATING SPEED

±10 mm

NAVIGATION ACCURACY

DIMENSIONS & HANDLING

Dimensions (L x W x H)	1,740 x 970 x 1,925 mm	Weight	920 kg ± 5%
Fork size (L/W/T)	1,165 / 180 / 60 mm	Turning diameter (unloaded)	2,312 mm
Aisle width, pallet 1200x1000	2,413 mm	Aisle width, pallet 1200x800	2,359 mm
Minimum passage width	1,370 mm	Pallet type	Open pallet / Material rack

PERFORMANCE & CONTROL

Navigation	2D / 3D LiDAR SLAM	Drive type	Single steering wheel
Driving mode	Automatic / Manual	Operating speed	1.3 m/s
Climbing ability	5%	Obstacle clearance / passage gap	10 / 30 mm
Navigation / angle accuracy	±10 mm / ±1°	Communication	2.4 / 5.8 GHz Wi-Fi

BATTERY & ESSENTIAL SAFETY

Battery	24 V / 200 Ah LiFePO4	Battery life	1,500 cycles
Runtime unloaded / full load	10-12 h / 8-10 h	Charging	2 h, manual / automatic
Safety sensing	3 LiDAR sensors	Emergency protection	E-stop, touch edge, voice alarm
Load handling safety	Pallet & fork detection	Human-machine interface	10-inch industrial touchscreen