

RI RILOG 2000-4500C-IN Counterbalanced Logistic Robot

Counterbalanced Stacker Forklift Robot · Rated capacity: 2,000 kg · Navigation: 2D/3D LiDAR SLAM



Counterbalanced automation for high-bay logistics

The RI RILOG 2000-4500C-IN is a counterbalanced stacker forklift robot built for automated pallet handling in demanding warehouse and logistics environments. Guided by 2D/3D LiDAR SLAM navigation and a single steer-wheel drive, it lifts loads up to 2,000 kg to heights of 4,500 mm, combining the reach of a counterbalanced mast with the precision and repeatability of autonomous operation.

2,000 kg

RATED CAPACITY

4,500 mm

LIFTING HEIGHT

8 km/h

MAX TRAVEL SPEED

±10 mm

POSITION ACCURACY

DIMENSIONS & CAPACITY

Rated capacity	2,000 kg	Body size (L x W x H)	2,100 x 1,105 x 2,825 mm
Lifting height	4,500 mm	Mast extended height	5,070 mm
Load center	600 mm	Wheelbase	1,390 mm
Turning radius	1,655 mm	Fork size (l/w/t)	1,150 / 190 / 56 mm
Aisle width (1200x1000)	2,820 mm	Total weight (w/ battery)	1,450 kg

PERFORMANCE

Navigation	2D/3D LiDAR SLAM	Drive mode	Single steer wheel
Operation mode	Auto / Manual	Pallet type	Single-sided
Travel speed (load/unload)	6 / 8 km/h	Lift speed (load/unload)	65 / 115 mm/s
Max gradeability (l/u)	6 / 8 %	Obstacle climbing	10 mm
Position / angle accuracy	±10 mm / ±1°	Brake type	Electromagnetic

BATTERY & POWER

Battery voltage / capacity	24 V / 200 Ah	Battery life	1,500 cycles
Battery weight	55 kg	Runtime (unloaded)	8 - 10 h
Runtime (loaded)	6 - 8 h	Standby time	24 h
Charging time	2 h	Charging method	Manual / Auto
Battery replacement	Built-in	Drive / lift motor power	1.5 / 2 kW