

cts AMR - datasheet

medium payload

Autonomous mobile robot

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LD250 RGTLA

Robot-Type	Mobile Robot
mobile Platform	LD250
Payload	up to 150 kg, dependent on used options/customizing and Safe Transfer with contact- and wireless safety
Conveyor type	2-level Frontloader roller
Dimensions L x W/D x H (ca.)	980 x 825 x 1800 mm
Max. overall weight	350 kg
Possible Dimension on transportation goods	Each Level: 800 x 600mm / 2x 600 x 400mm With options up to 1 Palette (1200x800mm)
Areas of Application	Perfect for feeding assembly lines with KLT-Box/Trays/Blister/low weight palette while receiving empty container at the same time - and vice versa at the supermarket
Transfer / handover height	Standard: 600 / 1000 mm (Customizable)
Height adjustability	Optional (another fixed height)
Lift capability	No
Lifting speed	No
Interface conveyor to vehicle	Digital I/O, Ethernet
HMI	omron onboard HMI
Wifi	2.4 Ghz/ 5Ghz; 802.11 a/b/g
Battery	24 VDC Life P04, 72 Ah, 2000 recharges
Maximum speed	up to 1,2 m/s
Navigation / orientation	via Lidar
Class	IP20
Environment: Humidity	Moisture 5 to 95%, non-condensing
Environment: Temperature	5-40°C
Max. gap traversal	max. 15mm
Climb grade	up to 1:33 (payload dependent)
Floor conditions	Clean, swept hall and dry floor
Minimum floor flatness	surface-ready and smooth floor according to FEM 9.831 / 9832, maximum +/- 3mm over the entire mounting surface
Environment	not intended for use in hazardous environments (explosive Gas, water, dust, oil mist)
Drive unit	2 wheel driven with 4 helper-caster-wheels
Turn radius	0 mm
Occupation sensor detect if unloading place is free	Yes
Full ESD conformity	Optional
Conveyor speed adjustable	Yes
Adjustable side guide rails	Yes
Sensor for load detection	Yes
Optical and accoustical signal unit	Yes
Emergency and acknowledge buttons	Yes
Detection of vertical obstacles above Lidar height	Yes, via side lasers
Opposite station available sensor	Yes
Material moved sensor	Yes

