

cts AMR - datasheet

medium payload

Autonomous mobile robot

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LD250 HVSRA

Robot-Type	Mobile Robot
mobile Platform	LD250
Payload	up to 100 kg, dependent on used options/customizing and Safe Transfer with contact- and wireless safety
Conveyor type	Frontloader roller
Dimensions L x W/D x H (ca.)	980 x 900 x 1800 mm
Max. overall weight	350 kg
Possible Dimension on transportation goods	Standard: 800 x 600mm / 2 x 600 x 400mm With options up to 1200 x 800mm
Areas of Application	KLT-Box, Tray, Blister, low weight palette transport. Ideal to connect machines with different transfer heights. Load and Unload material from Multi-Level-Shelfs.
Transfer / handover height	automatically adjustable 800 - 1500 mm
Height adjustability	Yes, automatically
Lift capability	Yes, 800 - 1500 mm
Lifting speed	30 sec. for full length
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

