cts AMR - datasheet

medium payload

Autonomous mobile robot

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	LD250 RGMZ
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	Front- and backloader roller
Dimensions L x W/D x H (ca.)	1200 x 825 x 1800 mm
Max. overall weight	350 kg
Possible Dimension on transportation goods	Standard: 2 PCB Magazines of 320 x 355 mm up to 535 x 535 mm
Areas of Application	Ideal for transport of big and heavy PCB-Magazines, Stacks and Trays. Automatic feeding of the SMT-lines, connecting the lines together, transports to inspection/back-end assembly, supply Magazines from/to the warehouse. Frontand Back transfer ensures correct product direction
Transfer / handover height	Standard: 550 mm (Customizable)
Height adjustability	Optional (another fixed height)
Lift capability	No
Lifting speed	-
Interface conveyor to vehicle	Digital I/O, Ethernet
HMI	platform onboard HMI (line based)
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