



Automated guided vehicle

L1200S

TECHNICAL DATA | L1200S



The L1200S is the next generation of our automated guided vehicle systems. Highest performance values in combination with our intelligent software solutions take in-house transportation to the next level.

Due to its flat design, the L1200S can drive under a number of different goods carriers (tables, trolleys, racks, shelves). The AGV can transport up to 1.2 tons, lengthwise or crosswise. The integrated personnel safety laser scanners allow the use of the L1200S in all in-house environments.

The free contour navigation enables an easy integration into complete intralogistics solutions. Space is saved as there is no need for safety areas. Optionally, in addition to different hardware and software modules, the Grenzebach drive range monitoring as well as the autonomous load carrier detection are available for different logistics processes.



Performance data, dimensions and weight

Length	1,263 mm
Width	695 mm
Height (lifting plate down)	330 mm (13 in) tip pickup mandrel, 312 mm (12.28 in) contact surface
Lifting height	Approx. 60 mm (electrically)
Total weight	Approx. 325 kg
Payload	1,200 kg
Speed (unloaded)	Up to 2 m/s
Speed (loaded)	Up to 2 m/s
Slope travel	Up to 5 % limited to max. 10 m length
Navigation	Contour navigation (safety scanner detects surrounding and compares with internal map)
Drive mode	Forward and reverse
Positioning accuracy	Approx. ±15 mm (typical)
Safety	2 certified safety laser scanners Galvanic isolation as per DIN EN 1175 (VDE0117)

Operating voltage	48 V DC
Battery	Lithium iron phosphate
Battery charging system	Fixed contact, up to 44 A charge rate
Charging time	15 - 80 % SOC approx. 21 min.
Travel time	80 - 15 % SOC approx. 3 h (Depending on loading state)
Operating time	24 hours, 7 days
IP certification	IP32
Temperature range	+10 to +35 °C (0 °C - 40 °C on request)
Humidity	Max. 80 % non-condensing
Sound pressure level	<70 dB (A)

Options:

Autonomous load carrier detection	✓
Drive range monitoring	✓
Blue light	✓
Brush strip	✓

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