



# 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,<br>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<br>Galvanic isolation as per DIN EN 1175 (VDE0117)   |

|                         |   |
|-------------------------|---|
| Operating voltage       | 48 V DC   |
| Battery                 | Lithium iron phosphate                                    |
| Battery charging system | Fixed contact, up to 50 A charge rate                     |
| Charging time           | 15 - 80 % SOC approx. 30 min.                             |
| Travel time             | 80 - 15 % SOC approx. 4 h<br>(Depending on loading state) |
| Operating time          | 24 hours, 7 days  |
| IP certification        | IP32  |
| Temperature range       | +10 to +35 °C<br>(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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