



Automated Guided Vehicle FL1200S

TECHNICAL DATA | FL1200S



The Automated Guided Vehicle (AGV) Grenzebach FL1200S is mainly used in our Automated Goods Transport solution and is specialized in handling pallets. It directly moves the pallets without additional lifting devices.

Pallets open or closed boarded, mesh boxes, steel crates and other transport containers with basic dimensions of 1,200 x 800 mm to 1,200 x 1,200 mm can be transported.

Due to the integrated people safety sensor technology, the vehicle can be used in all production environments interacting with lifting trucks and forklifts. The FL1200S transports loads with a total weight of up to 1.2 tons - and is capable of turning on the spot which saves space. Due to the free contour navigation there is no need to establish safe zones. This saves space and facilitates the integration into existing environments.



| | |
|-----------------------------|--|
| Length | 1,355 mm |
| Width | 693 mm |
| Height (lifting plate down) | 600 mm (fork surface), 660 mm (incl. stop) |
| Lifting height | 60 mm (electrical) |
| Payload | 1,200 kg |
| Speed (unloaded) | Up to 1 m/s |
| Up to | Bis zu 1 m/s |
| Ascents | Up to 5 % |
| Turning radius | Pivot in stationary location or ≥ 1 m |
| Navigation | Contour navigation (safety scanner detects surrounding and compares with internal map) |
| Drive mode | Forward and reverse |
| Positioning accuracy | ± 15 mm |
| Safety | 2 certified safety laser scanners (front + back) |
| Operating voltage | 48 V DC |
| Battery | Lithium iron phosphate |
| Battery charging system | Fixed contact, up to 80 A charge rate |

| | |
|----------------------|--|
| Charging time | 15 - 80 % SOC approx. 30 min. |
| Travel time | 80 - 15 % SOC with 1,000 kg load approx. 6 h |
| Operating time | 24 hours, 7 days |
| Total weight | 405 kg |
| IP certification | IP21 |
| Temperature range | +10 to +40 °C |
| Humidity | Max. 80 % non-condensing |
| Sound pressure level | < 69 dB (A) |

Options:

| | |
|-----------------|---|
| Area monitoring | ✓ |
| Blue Light | ✓ |

Grenzebach Maschinenbau GmbH
 Albanusstraße 1
 86663 Asbach-Bäumenheim Hamlar, Germany
 Phone: +49 906 982-2000
 E-mail: logistics@grenzebach.com

Grenzebach Corporation
 10 Herring Road
 Newnan, Georgia 302658, USA
 Phone: +1 770 254-4980
 E-mail: info.gn@grenzebach.com

Version 01|2022