



Automated Guided Vehicle

FF1200S

TECHNICAL DATA | FF1200S



The FF1200S Automated Guided Vehicle (AGV) from Grenzebach is mainly used in our automated parts transport solution.

Here, it transports pallets and similar transport goods with a lifting height of maximum 1,200 mm. The payload for the AGV is up to 1.2 t and, upon request, up to 1.5 t. The free contour navigation enables an easy integration into overall intralogistics solutions. The simple commissioning process means that users can integrate the FF1200S into their existing logistics processes themselves with very little integration effort, saving time and money.

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.



Length	Approx. 1,725 mm
Width	Approx. 800 mm
Height	Approx. 1,950 mm
Lifting height	Up to approx. 1,200 mm
Payload	Up to 1,200 kg and, upon request, up to 1,500 kg
Speed (unloaded)	Up to 2.0 m/s (forwards)
Speed (loaded)	Up to 2.0 m/s (forwards)
Slope travel	Up to 5 % limited to max. 10 m length
Turning radius	Approx. 1,450 mm
Navigation	Contour navigation (Safety scanner scans the environment and compares with previously charted map)
Drive mode	Forward and reverse
Positioning accuracy	± 15 mm (typically)
Safety	Two certified safety laser scanner
Operating voltage	48 V DC
Battery	Lithium iron phosphate

Charging system	Fixed contact, up to 80 A charge rate
Operating time	24 hours, 7 days
IP protection	Standard IP32
Temperature range	+10 to +40 °C (0 °C to 40 °C, upon request)
Air humidity	Max. 80 %, non-condensing
Sound pressure level	< 69 dB (A)
Options:	
Autonomous load carrier detection	✓
Drive range monitoring	✓
Blue Spot	✓
Spare battery available	✓
Communication	5G (default WLAN is always available)

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|2024