



**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  $1,200 \times 800$  mm to  $1,250 \times 1,250$  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	1,263 mm
Width	695 mm
Height (lifting plate down)	600 mm (fork surface), 660 mm (incl. stop)
Lifting height	Approx. 60 mm (electrical)
Payload	1,200 kg
Speed (unloaded)	Up to 2 m/s
Speed (loaded)	Up to zu 2 m/s
Ascents	Up to 5 % limited to max. 10 m length
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	Approx. ±15 mm (typical)
Safety	2 certified safety laser scanners (front + back)

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 (Depending on loading state)
Operating time	24 hours, 7 days
Total weight	405 kg
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	$\bigcirc$
Drive range monitoring	$\bigcirc$
Blue light	$\bigcirc$
Brush strip	$\bigcirc$

## 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 30265, USA Phone: +1 770 254 4980 E-mail: info.gn@grenzebach.com Version 02|2024

