



## **Transport P 500**

Safe and automated transport solution for  
Laser Sintering process chains

# TECHNICAL DATA | TRANSPORT P 500

Easy and fast loading, unloading and transport of exchange frames between different manufacturing stations, e.g. EOS P 500 Laser Sintering system, furnace and unpacking or depowdering stations.

Compatible with: GRENZEBACH Exchange P 500, adapted (periphery) systems with Docking Frame.

## The Transport P 500 includes following features:

- » Fully automated loading and unloading of the exchange frame to an EOS P 500 via GRENZEBACH Exchange P 500 and further compatible systems
- » Docking Frame (DOF) with a multi coupling unit and mechanical as well as electronic interface for a precise and easy docking on every implemented (periphery) system along the process chain
- » Integrated and fully automatic gripper unit to load and unload systems with and without self-driven conveyor systems
- » Manual or fully automated transportation with a pallet truck or a GRENZEBACH L1200S Automated Guided Vehicle (AGV)
- » Fully automatic sliding door for a safe work environment when transporting hot exchange frames
- » Integrated cover for the exchange frame to avoid powder contamination and dust exposure
- » Control via HMI (12.1") or fully automated via MES
- » Horizontal process and safety communication to peripheral equipment
- » Vertical OPC-UA communication to MES possible

## Optional:

- » Driven conveyor rolls instead of gripper unit for process chains with self-driven conveyor systems

## Dimensions & weight:

Length	Approx. 1,566 mm (61.65 in)
Width	Approx. 1,102 mm (43.39 in)
Height	Approx. 1,550 mm (61.02 in)
Weight	Approx. 580 kg

## Consumption:

Power	Max. 480 W (by battery)
Protection by fuses	16 A
Feeder cable	3 x 1,5 mm <sup>2</sup>
Power supply	100-240 V, 16 A (via DOF or emergency power supply)
Electrical cabinet	Integrated in machine frame

## Emissions:

Sound pressure level	< 70 dB(A)
Max. temperature Exchange Frame	160 °C (320 °F)

<b>Safety:</b>	CE compliant UL possible
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<b>Battery:</b>	Lead-AGM
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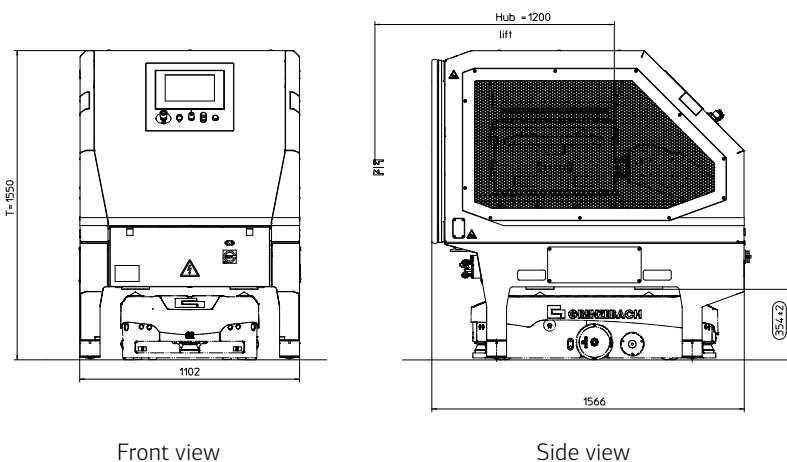
Battery charging system	Up to 40 A charge rate
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Operating time	24 hours, 7 days
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Temperature range	0 to 40 °C (32 to 104 °F)
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Humidity	Max. 95%
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## Layout:



## Docking Frame:



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Version 09|2022