



Exchange P 500/4

Increased productivity solution for Laser Sintering systems

TECHNICAL DATA | EXCHANGE P 500/4

Buffering, loading, and storing exchange frames from and to an EOS P 500 Laser Sintering system for several automated build jobs in a row.

Compatible with: EOS P 500, GRENZEBACH Transport P 500

The Exchange P 500/4 includes following features:

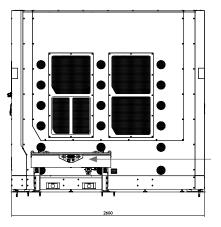
- Fully automated loading and unloading of the EOS P 500 with an integrated conveyor system and shuttle
- » Four buffer positions for exchange frames, three with an automatically placed cover to completely close the top
- » Passive cool-down of finished build jobs in a buffer position with max. temperature of 250 °C (482 °F)
- » Full maintenance accessibility to the EOS P 500 system possible
- » Load and unload of exchange frames to/from the Exchange P 500/4 with a manual or electric lifter
- » Temperature monitoring of exchange frames at buffer positions
- » Control via Touch Panel (17") or fully automated via MES
- » Horizontal process and safety communication to EOS P 500
- » Vertical OPC-UA communication to MES possible

Optional:

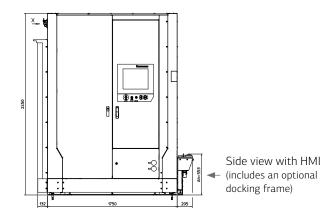
- » Inertization of finished build jobs to decrease powder ageing while cooling down
- » Controlled furnace module to speed build job preparation and enable a homogeneous active cool-down of finished build jobs (under development)
- » Docking frame for GRENZEBACH Transport P 500 to load and unload exchange frames to/from the Exchange P 500/4 manually or fully automated via AGV

Dimensions & weight:	
Length	Approx. 1,882 mm (74.09 in)
Width	Approx. 2,600 mm (102.36 in)
Height	Approx. 2,450 mm (96.46 in)
Weight	Approx. 2,500 kg
Recommended installation	space:
Length	Approx. 4,200 mm (165.35 in)
Width	Approx. 5,400 mm (212.60 in)
Height	Approx. 2,950 mm (116.14 in)
Floor load:	0,5 N/mm²
Control:	Siemens S7-1500 17" Touch Panel
Emissions:	
Sound pressure level	< 70 dB(A)
Max. temperature exchange frame	250 °C (482 °F)
Safety:	CE compliant UL possible
Consumption:	
Compressed air	Approx. 0.2 m ³ /h (7.06 ft ³ /h)
Gas consumption	N.a. / depends on customer process
Power	1.5 kW
Protection by fuses	16 A
Feeder cable	3x 2.5 mm² (0.0039 in²)
Voltage	400 V
Electrical cabinet	Integrated in machine frame

Layout:



Front view (includes an optional docking frame)



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