



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

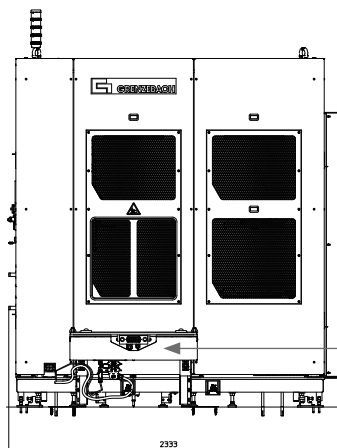
The Exchange P 500/4 includes following features:

- » 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
- » 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 (7") or fully automated via MES
- » Horizontal process and safety communication to EOS P 500
- » Vertical OPC-UA communication to MES possible

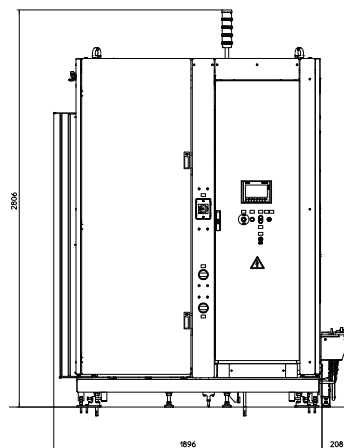
Optional:

- » Inertization of finished build jobs to decrease powder ageing while cooling down
- » 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
- » The basic version can be modularly expanded to include up to 4 additional buffer positions

Layout:



Front view
(includes an optional docking frame)



Side view with HMI
(includes an optional docking frame)

Dimensions & weight:

Length	Approx. 1,896 mm
Width	Approx. 2,2333 mm
Height	Approx. 2,806 mm
Weight	Approx. 2,500 kg

Recommended installation space:

Length	Approx. 3,920 mm
Width	Approx. 4,430 mm
Height	Approx. 2,950 mm

Floor load: 0,7 N/mm²

Control: Siemens S7-1500
7" Touch Panel

Emissions:

Sound pressure level	< 70 dB(A)
Max. temperature exchange frame	250 °C

Safety: CE compliant
UL possible

Consumption:

Compressed air	Approx. 0.2 m ³ /h
Gas consumption	N.a. / depends on customer process
Power	1.5 kW
Protection by fuses	16 A
Feeder cable	5x 2.5 mm ²
Voltage	400 V
Electrical cabinet	Integrated in machine frame

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

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