IAMG

ADDITIVE LASER TECHNOLOGY

Compact and precise machine for metal 3D printing

ALFA-150D

- Integrated user-friendly interface
- Build envelope 150 x 150 x 180 mm
- Build plate heating up to 200°C
- Compact machine dimensions
- Advanced process monitoring system
- Build rate up to 25 cm^3/hour
- Printing accuracy up to 50 µm
- Integrated inert gas filter regeneration system
- Open platform for unlimited development
- Low maintenance costs

International Additive Manufacturing Group

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ADDITIVE LASER TECHNOLOGY

3D PRINTER ALFA-150D

Build envelope (W x D x H)	150 x 150 x 180 mm
3D optics configuration	single
Laser system	air-cooled ytterbium fiber laser
Laser power	200 W
Laser spot size	45 µm
Laser wavelength	1070±2 nm
Layer thickness	20 - 100 µm
Maximum scan speed	10 m/s
Positioning accuracy	0,15 µm
Inert gas consumption	≤ 3 l/min
Power supply	~230 V 50 Hz
Power consumption	2,2 kW
Dimensions (W x D x H)	730 x 700 x 1818 mm
Net weight	450 kg

AUXILIARY EQUIPMENT

Vacuum Powder Removal Unit APR-041

Productivity	50 - 150 kg/h
Average compressed air consumption	180 l/min
Compressed air operating pressure	6 bar
Power supply	~230 B, 50 Hz
Power consumption	20 W
Dimensions (W x D x H)	450 x 370 x 1100 mm
Net weight	18,5 kg

The unit is used for collection of non-reactive metal powder from the build chamber of 3D printer.

Automated Powder Sieving Unit APS-051

Mode of operation	ultrasonics
Productivity	≤ 20 kg/h
Power supply	~230 V, 50 Hz
Power consumption	200 W
Dimensions (W x D x H)	435 x 500 x 1330 mm
Net weight	35 kg

The unit is used for sieving, mixing and homogenizing of metal powder for reuse.

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