Print Sharp 250

POWDER BED FUSION

PRECISE PRINTING OF COMPLEX GEOMETRIES

Print Sharp 250 is a competitive solution to guarantee reliability and quality of your printed components in your chosen materials. Equipped with easy to use control software, a fiber laser, a recirculating system and a modular scanning system the machine can meet the customer specific needs.

FLEXIBLE

Suitable for a wide range of materials including reflective metals. An “open” system for process and machine parameter configuration.

RELIABLE

Able to work continuously up to 200 consecutive hours ensuring the repeatability and the quality of the process.

PROFITABLE

Low cost of ownership along with a wide network of suppliers for materials and consumables.

USER FRIENDLY

Simple operating process, intuitive software interface as well as easy maintenance and set up activities.

Technical Specifications

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DIMENSIONS (LXWXH)	3,500 (L) - 1,100 (W) - 2,450 (H)
WEIGHT	2,000 kg
POWER SUPPLY	380 V / 50 Hz / 8 kW
TYPE OF LASER	Yb (Ytterbium) Fiber laser
LASER POWER	200 W / 500 W (Optional)
LASER FOCUS DIAMETER	70 - 100 µm
BEAM WAVELENGTH	1,060 - 1,080 nm
BUILDING VOLUME	250 x 250 x 300 mm
BEAM DEFLECTION SPEED	8 m/s
POSITIONING SPEED	10 m/s
BUILD RATE	12 - 30 cm^3/h
LAYER THICKNESS	0.02 mm - 0.1 mm
LAYER WIDTH	0.1 mm (single line width)
RECOATER SPECS	Travel: 650 mm
BUILDING PLATFORM Z-AXIS	Travel: 300 mm / Speed: max 6 mm/s / Res: 0.01 mm
HEATING PLATFORM	up to 200°C
MONITORING OF O2 LEVEL	Below 100 ppm (0.01%)
PERMISSIBLE ROOM TEMPERATURES	15 - 30°C
GAS (Consumption - running / filling)	7 l/min (running)
SYSTEM FILL CONSUMPTION	20 l/min (up to filling)
CAM SOFTWARE	Materialise Magics
CONTROL & OTHER SOFTWARE	Eplus control software (EPC)
INDUSTRIAL INTERFACES	Ethernet

Size & Power
Laser
Machine and additive process details
Peripheral & auxiliaries - Software