Prima Additive

Print Genius 250

POWDER BED FUSION

DUAL LASER MACHINE FOR HIGH PRODUCTIVITY PRINTING

Print Genius 250 is a machine for additive manufacturing with a build volume of 262x262x350 mm for the fabrication of medium sized components.

It is the ideal solution for high productive metal printing applications thanks to its dual 500W laser and intelligent control and operating software for quick part orientation and machine functions definition.

Complete material change capability in less than 2 hours due to modular and easily removable components.

PRODUCTIVE
The two lasers work simultaneously to improve the production time. Possibility to work with single laser printing mode. Small parts could be printed in the same job using just one laser.

USER FRIENDLY
A total new HMI, intuitive, easy to use also for a non expert operator with the possibility to check and report the key printing parameters.

EFFICIENT
Improved gas recirculation system to reduce the purge time to fill the chamber to 25 minutes and reduce gas consumption during the process.

SAFE
Equipped with two line of 1+1 filter solution that increases the filter lifetime, decrease the frequency of changing cartridges, and allow to change the filter during the process thanks to the removable cylinder.

Technical Specifications

Print Genius 250

DIMENSIONS (LxWxH)	3500 (L) - 1250 (W) - 2240 (H)
WEIGHT	2500 kg.
POWER SUPPLY	380 V / 50 Hz / 10 kW
LASER IR	Laser Yb (Itterbio) IR single mode
LASER POWER	2 x 500 W
LASER FOCUS DIAMETER	70 – 100 μm
BEAM WAVELENGTH	1060 - 1080 nm
BUILDING VOLUME	262 * 262 * 350 mm
BEAM DEFLECTION SPEED (DUAL SCANNER)	2 * 8 m/s
POSITIONING SPEED	10 m/s
BUILD RATE *	25 - 50 cm³/h
LAYER THICKNESS	0.02 mm - 0.1 mm
LAYER WIDTH	0.1 mm (single line width)
BUILDING PLATFORM Z-AXIS	Travel: 350 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)	6 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

*Dependent on process parameters and material used

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