



TruPrint 3000

Technical data

TruPrint 3000

BUILD VOLUME (CYLINDER)	Diameter 300 mm x 400 mm Height
PROCESSABLE RAW MATERIALS	Metal powders for welding, such as stainless steels, tool steels, and aluminum alloys, nickel-based alloys, or titanium alloys. Current availability of materials and their parameters available on request. ¹
PREHEATING	Up to 200 °C
MINIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBER LASER)	Fiber laser 50 W
MAXIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBER LASER)	Fiber laser 500 W
BEAM DIAMETER (INDIVIDUALLY ADJUSTABLE)	100 - 500 μm^2
LAYER THICKNESS	20 - 150 μm^2
BUILD RATE	5 - 60 cm^3/h^3
MINIMUM MEASURABLE OXYGEN LEVEL	Down to 100 ppm
CONNECTION AND CONSUMPTION	
ELECTRICAL CONNECTION (VOLTAGE)	400/460 V
ELECTRICAL CONNECTION (CURRENT INTENSITY)	32 A
ELECTRICAL CONNECTION (FREQUENCY)	50/60 Hz
SHIELDING GAS	Nitrogen, argon
STRUCTURAL DESIGN	
DIMENSIONS (INCLUDING FILTER) (W X H X D)	3385 mm x 2070 mm x 1750 mm
WEIGHT (INCLUDING FILTER, POWDER)	4300 kg

Subject to changes. The information in our offer and our order confirmation is definitive.

Footnotes

1 — Current availability of materials and their parameters available on request

2 — Individually adjustable

3 — The actual build rate consisting of exposure and coating. Dependent on the configuration of the system, the process parameters, material and fill level.