TruPrint 5000

Technical data

TRUMPF

TruPrint 5000

BUILD VOLUME (CYLINDER)	Durchmesser 300 mm x 400 mm Höhe
EFFECTIVE BUILD VOLUME (WHEN PREHEATING > 200 °C)	Durchmesser 290 mm x 400 mm 400 mm Höhe
PROCESSABLE RAW MATERIALS	Schweißbare Metalle in Pulverform, wie z.B.: Edelstähle, Werkzeugstähle, Aluminium-, Nickelbasis-, Titan-Legierungen. Aktuelle Werkstoff- und Parameterverfügbarkeit auf Anfrage.
PREHEATING (STANDARD)	Bis zu 200 °C
PREHEATING (OPTION)	Bis zu 500 °C
LASER SOURCE	Fibre lasers 3 x 500 W
LASER POWER AT THE WORKPIECE	480 W Maximal
BEAM DIAMETER (INDIVIDUALLY ADJUSTABLE)	100 - 500 µm
LAYER THICKNESS	30 - 150 µm
BUILD RATE	5 - 180 cm^3/h [2]
MINIMUM MEASURABLE OXYGEN LEVEL	Bis zu 100 ppm
CONNECTION AND CONSUMPTION	
ELECTRICAL CONNECTION (VOLTAGE)	400 V
ELECTRICAL CONNECTION (CURRENT INTENSITY)	32 A
ELECTRICAL CONNECTION (FREQUENCY)	50 Hz
SHIELDING GAS	Nitrogen, argon
STRUCTURAL DESIGN	
DIMENSIONS (INCLUDING FILTER, ELECTRICAL CABINET) (W X H X D)	4586 mm x 2026 mm x 1628 mm
WEIGHT (INCLUDING FILTER, ELECTRICAL CABINET, POWDER)	7085 kg

Footnotes

1 — Other optics configurations are available on request.

2 — The actual build-up rate consisting of illumination and coating. Dependent on the configuration of the system, the process parameters, raw material and fill level.