



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 aluminium alloys, nickel-based alloys, or titanium alloys. Current availability of materials and their parameters available on request.

PREHEATING (STANDARD)

Down to 200 °C

MAXIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBRE LASER)

500 W

BEAM DIAMETER (INDIVIDUALLY ADJUSTABLE)

100 - 500 µm

LAYER THICKNESS

20 - 150 µm

BUILD RATE

5 - 60 cm³/h¹

MINIMUM MEASURABLE OXYGEN LEVEL

Up 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 POWDER)

4300 kg

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

Footnotes

1 — 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.

2 — in conjunction with vacuum conveyor