



TruPrint 1000

Technical data

TruPrint 1000

BUILD VOLUME (CYLINDER) Diameter 100 mm x 100 mm 100 mm Height ¹

EFFECTIVE BUILD VOLUME (STANDARD) Diameter 98 mm x 100 mm Height

EFFECTIVE BUILD VOLUME (OPTION: PREPARATION FOR INTERCHANGEABLE CYLINDER)
Diameter 98 mm x 80 mm Height
Diameter 61.5 mm x 80 mm Height
Diameter 32.5 mm x 80 mm Height

PROCESSABLE MATERIALS

Metal powders for welding, such as stainless steels, tool steels, and aluminum [1], nickel basis, cobalt-chrome, copper, titanium [1] or precious metal alloys, amorphous metals. Current availability of materials and their parameters available on request.
[1] Only with option glove box + oxygen sensor, high resolution.

MAXIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBER LASER) 200 W

BEAM DIAMETER (STANDARD) 55 µm

BEAM DIAMETER (OPTION) 30 µm

LAYER THICKNESS 10 - 50 µm

BUILD RATE 2 - 18 cm³/h ²

CONNECTION AND CONSUMPTION

ELECTRICAL CONNECTION (VOLTAGE) 230 V

ELECTRICAL CONNECTION (CURRENT INTENSITY) 7 A

ELECTRICAL CONNECTION (CURRENT INTENSITY - MULTILASER OPTION) 9 A

ELECTRICAL CONNECTION (FREQUENCY) 50/60 Hz

SHIELDING GAS Nitrogen, argon

STRUCTURAL DESIGN

DIMENSIONS (W X H X D) 1445 mm x 1680 mm x 730 mm

WEIGHT (INCLUDING POWDER) 650 kg

DESIGN (MULTILASER OPTION)

DIMENSIONS (INCLUDING FILTER) (W X H X D) 1455 mm x 1680 mm x 950 mm

WEIGHT (INCLUDING POWDER) 750 kg

Subject to changes. The details in our offer and order confirmation are definitive.

Footnotes

1 — Optional: smaller build volume

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