



TruPrint 1000

Technical data

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| BUILD VOLUME (CYLINDER) | Diameter 100 mm x 100 mm 100 mm Height ² |
| EFFECTIVE BUILD VOLUME (STANDARD) | Diameter 98 mm x 100 mm Height |
| PROCESSABLE RAW 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. Current availability of materials and their parameters available on request. [1] Only with glove box option + option oxygen sensor (high resolution). ^{3 4} |
| MINIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBER LASER) | Fiber laser 30 W |
| MAXIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBER LASER) | Fiber laser 200 W |
| BEAM DIAMETER (STANDARD) | 55 µm |
| BEAM DIAMETER (OPTION) | 30 µm |
| LAYER THICKNESS | 10 - 50 µm ⁷ |
| BUILD RATE | 2 - 18 cm ³ /h ⁸ |
| MINIMUM MEASURABLE OXYGEN LEVEL (STANDARD) | Up to 3000 ppm |
| MINIMUM MEASURABLE OXYGEN LEVEL (OPTION) | Up to 100 ppm |
| CONNECTION AND CONSUMPTION | |
| ELECTRICAL CONNECTION (VOLTAGE) | 230 V |
| ELECTRICAL CONNECTION (CURRENT INTENSITY) | 7 A |
| ELECTRICAL CONNECTION (FREQUENCY) | 50/60 Hz |
| SHIELDING GAS | Nitrogen, argon |
| STRUCTURAL DESIGN | |
| DIMENSIONS (INCLUDING FILTER) (W X H X D) | 1445 mm x 1680 mm x 730 mm |
| WEIGHT (INCLUDING FILTER, POWDER) | 650 kg |

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

Footnotes

1 — Other optics configurations are available on request.

2 — Optional: smaller build volume

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

4 — Available with optional packages

5 — Optional: Multilaser 2 x 200 W

6 — Optional: 30 μm

7 — Individually adjustable

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