



# TruPrint 5000

Technical data



## TruPrint 5000

<b>BUILD VOLUME (CYLINDER)</b>	Diameter 300 mm x 400 mm Height
<b>EFFECTIVE BUILD VOLUME (WHEN PREHEATING &gt; 200 °C)</b>	Diameter 290 mm x 400 mm Height
<b>PROCESSABLE MATERIALS</b>	Metal powders for welding, such as stainless steels, tool steels, and aluminum alloys, nickel-based alloys, titanium alloys. Current availability of materials and their parameters available on request.
<b>PREHEATING (STANDARD)</b>	Up to 200 °C
<b>PREHEATING (OPTION)</b>	Up to 500 °C
<b>MAXIMUM LASER POWER AT THE WORKPIECE (TRUMPF FIBER LASER)</b>	500 W
<b>BEAM DIAMETER (STANDARD)</b>	80 µm
<b>LAYER THICKNESS</b>	30 - 150 µm
<b>BUILD RATE</b>	5 - 180 cm <sup>3</sup> /h <sup>1</sup>
<b>MINIMUM MEASURABLE OXYGEN LEVEL</b>	Up to 100 ppm
<b>CONNECTION AND CONSUMPTION</b>	
ELECTRICAL CONNECTION (VOLTAGE)	400 V
ELECTRICAL CONNECTION (CURRENT INTENSITY)	32 A
ELECTRICAL CONNECTION (FREQUENCY)	50 Hz
SHIELDING GAS	Nitrogen, argon
<b>STRUCTURAL DESIGN</b>	
WEIGHT (INCLUDING FILTER, ELECTRICAL CABINET, POWDER)	7085 kg
DIMENSIONS (INCLUDING FILTER, ELECTRICAL CABINET) (W X H X D)	4616 mm x 1645 mm x 2038 mm
DIMENSIONS (INCLUDING FILTER, ELECTRICAL CABINET) (W X D X H) WITH 500 °C PREHEATING OPTION	5266 mm x 1645 mm x 2038 mm

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

## Footnotes

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