TruPrint 1000

Basic Edition

Metal 3D printing made easy: affordable and robust

Ideal for **dental labs** and **education**

06

Immediate and worldwide support

24/7 spare parts availability, remote support and highly qualified service technicians

05

Condition and Performance Monitoring

Due to live analyses and machine reports

01

Easy and intuitive handling

For a quick mastering of the technology

02

High processing speed

For rapid build part production

03

Robust and reliable 3D printing

Machine concept proven over many years

04

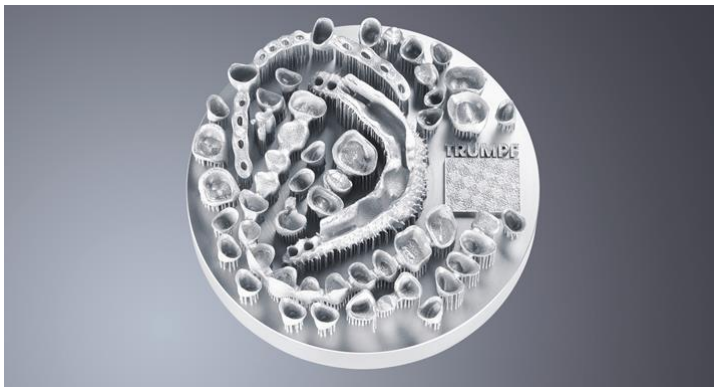
Contact free and inert powder handling

With glove box and low oxygen content sensor

TRUMPF

Metal 3D printing made easy: affordable and robust

TruPrint 1000 Basic Edition is based on a tried and trusted machine concept. It has a 98.5 mm build platform for the production of up to 100 units (crowns and bridges). The machine is affordable and robust, intuitively operable and reliable, while capable of processing in high speed.



01

Easy and intuitive handling

Benefit from a quick entry into additive manufacturing. The TruPrint 1000 Basic Edition is easy to get started with its small size and simple standard connection. Operation is very simple thanks to the intuitive touchscreen and the step-by-step guided procedure by the Setup Wizard.

02

High processing speed

The TruPrint 1000 Basic Edition p

03

Robust and reliable 3D printing

Benefit from the machine concept that has been proven over many years in the production of dental parts. The consistency in data creation is the ideal basis for hybrid serial production for telescopic technology and implant-supported dentures. This enables easy post-processing of the 3D-printed parts by using milling.
The TruPrint 1000 Basic Edition is also ideally suited for education and research.

04

Contact free and inert powder handling

Optionally, the 3D printer may be equipped with a glovebox and a high precision analog sensor for the monitoring of the required very low oxygen level in the building chamber. This is extremely important for work with reacting materials like titanium.

05

Condition and Performance Monitoring

Our monitoring solutions also provide you a comprehensive monitoring of your machine conditions and a full transparency of your machine productivity.

06

Immediate and worldwide support

Remote support from TRUMPF provides a direct connection between our service engineers and your TruPrint 1000. Benefit from high machine availability due to our worldwide trained service technicians and our 24/7 spare parts service.
We are happy to support you with a customized financing solution.

TruPrint 1000 Basic Edition		
Build volume (cylinder)	mm x mm	Ø 98.5 x H 100
Processable materials[1]		Weldable metals in powder form, such as: Stainless steels, tool steels, aluminum[2], nickel-based, cobalt-chrome, copper, titanium[2] or precious metal[2] alloys, amorphous metals
Build rate[3]	cm³/h	2-18
Layer thickness[4]	µm	10-50
Max. laser power at the workpiece (TRUMPF fiber laser)	W	200
Beam diameter	µm	55
O_2 concentration	ppm	Down to 3000 (0.3%) Optional: down to 100 (0.01%)
Scan speed (powder bed)	m/s	Max. 3
Shielding gas		Nitrogen, argon
Power supply	V / A / Hz	230 – 7 – 50/60
Dimensions	mm	1445 x 730 x 1680
Weight (incl. powder)	kg	650
Operating System		IPC equipped with Windows 10

[1] Current material and parameter availability upon request
[2] Available with options
[3] Dependent on system configuration, process parameters, material and degree of filling
[4] Individually adjustable
Subject to alteration. Only specifications in our offer and order confirmation are binding.

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