

TruPrint 1000

Compact and
robust 3D printing

05

**Innovative service solutions
and international support**

For detailed and fast support

01

**Easy and intuitive
handling**

For a quick mastering of the technology

02

**High processing speed thanks
to the innovative recoating
system**

For rapid build part production

03

**Mobile operation
monitoring**

For an optimal machine overview

04

Maximum productivity

For up to 80% more parts per unit time with the
multilaser option



Pictures are to be understood as an example and may show machine options as well.

Laser metal fusion for complex metallic components.

The TruPrint 1000 prints parts of almost any geometrical shape –in the best quality. Use the TruPrint 1000 for metallic 3D printing of small industrial parts and series. Adapt the compact and robust 3D printer to your industry and application using our industry-specific optional packages. Dental laboratories benefit from innovations such as Multiplate and 3D printing of single abutments on preforms or from the digital connection to milling machines.

01

Easy and intuitive to operate

Because of its small size, the TruPrint1000 is easy to operate. Thanks to the intuitive touch screen and the setup wizard operation is very simple.

02

High processing speed thanks to the innovative recoating system

The TruPrint1000 coordinates powder coating and laser exposure parallel to the components. This reduces downtime to a minimum, enabling higher processing speeds. The tilting recoater component with X-profile enables a robust and equal powder recoating.

03

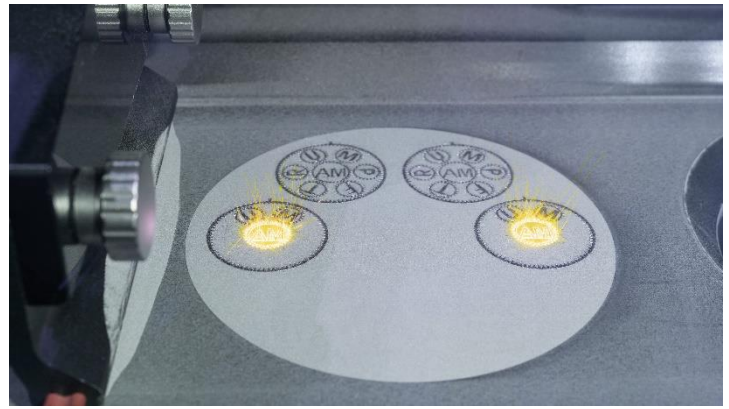
Mobile operation and monitoring

With the Powder Bed Monitoring option, you can monitor part quality layer by layer. Our monitoring solutions also provide you a comprehensive monitoring of your machine conditions and a full transparency of your machine productivity, also mobile via app.

04

Maximum productivity

The **multilaser** option offers a **productivity boost of up to 80%** compared to the standard machine. At the same utilization rate, the option with 2 x 200 W TRUMPF fiber laser yields a higher part output. The reduced processing time per build job makes a variety of business models possible and enables a quicker part availability. Compensate for order peaks with the **multiplate** option: Benefit **from longer machine running times** without operator intervention and thus produce up to four build jobs in a row.



Maximum productivity with the multilaser option –2 x 200 W TRUMPF fiber lasers simultaneously scan the build area.

05

Innovative service solutions and international support

Remote support from TRUMPF provides a direct connection between our service engineers and your TruPrint 1000. Using the **app for Visual Assistance** you can also exchange picture, sound and video files safe and in real time. 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		
Build volume (cylinder)	mm x mm	Ø 100 x H 100 Optional: Smaller build volume
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]	cm ³ /h	2-18
Layer thickness ^[4]	µm	10-50
Max. laser power at the workpiece (TRUMPF fiber laser)	W	200 Optional multilaser: 2 x 200
Beam diameter	µm	55 Optional: 30
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

^[1] Current material and parameter availability upon request

^[2] Available with option packages

^[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.