

TruPrint 3000

Flexible solution
for industrial
3D printing

05

Innovative service solutions and international support

For a focused and fast support

01

Large build volume Ø 300 x H 400 mm

For a high part flexibility

02

Quickly exchangeable build and supply cylinders

For an optimal machine utilization

03

External part and powder management

For work done parallel to production

04

Industrial software and monitoring solutions

For a continuous data chain and a better
overview



Laser Metal Fusion for industrial production.

The TruPrint 3000 is an universal medium-format machine with external part and powder management for the industrial production of complex metal parts using the laser metal fusion process.

Because of its large build volume, it offers great flexibility in terms of size, part number and geometry of the respective application.

01

Large build volume Ø 300 x H 400 mm

With its large build volume, the TruPrint 3000 enables high part flexibility. The machine has two supply cylinders and therefore a large internal powder store. So that even when the full build volume is used, no powder refilling is necessary during the LMF process. Thanks to the tilting recoater component with X-profile a robust and equal powder recoating is ensured.

02

Quickly exchangeable build and supply cylinders

Thanks to its interchangeable cylinder principle, setup times are shorter, and the productivity and machine utilization rate are increased. The setup wizard guarantees, the easy and correct installation of the cylinders. The operator is guided actively and visually step by step.

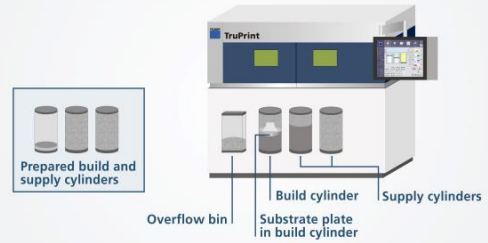
03

External part and powder management

The TruPrint 3000 is supplemented with an industrial part and powder management system consisting of a sieving station, unpacking station and powder silo. It is possible to work parallel to production, the setup process is optimized, productivity is increased and a high degree of safety is ensured as workers avoid contact with powder. For maximizing utilization the components can be used to service several TruPrint machines of the series at the same time.



The interchangeable cylinder principle



04

Industrial software and monitoring solutions

With TruTops Print and the Siemens NX software package, you receive the comprehensive software solution for the whole CAD/CAM/CAE process chain. Thanks to intelligent monitoring solutions, the building process and machine condition can be monitored, analyzed and remotely controlled. With TruTops Monitor you can keep an eye on all of your machinery - live on your desktop or mobile via tablet PC.

05

Innovative service solutions and international support

With the Visual Online Support (VOS) app, you can exchange image, audio and video files safe and in real time. Using this we can provide more focused support, making your machine available again quickly. Benefit from our worldwide trained service technician network and our 24/7 hour spare parts service.

TruPrint 3000

Build volume (cylinder)	mm x mm	Ø 300 x H 400
Processible materials ^[1]		Weldable metals in powder form, such as: stainless steels, tool steels, aluminum, nickel-based, copper, or titanium alloys
Build rate ^[2]	cm ³ /h	5 - 60
Layer thickness ^[3]	µm	20 - 150
Laser source (TRUMPF fiber laser)	W	500 (max. laser power at the workpiece: 450)
Beam diameter ^[3]	µm	100 - 500
O ₂ concentration	ppm	Up to 100 (0,01%)
Scan speed (powder bed)	m/s	Max. 3
Preheating	°C	Up to 200
Shielding gas		Nitrogen, argon
Power supply	V / A / Hz	400/460 – 32 – 50/60
Dimensions (incl. filter)	mm	3385 x 1750 x 2070
Weight (incl. filter, powder)	kg	4300

^[1] Current material and parameter availability upon request

^[2] Actual build rate consisting of exposure and recoating. Dependent on system configuration, process parameters, material and degree of filling.

^[3] Individually adjustable

Subject to modifications. Only specifications in our offer and order confirmation are binding.