

Industrial Additive Technologies

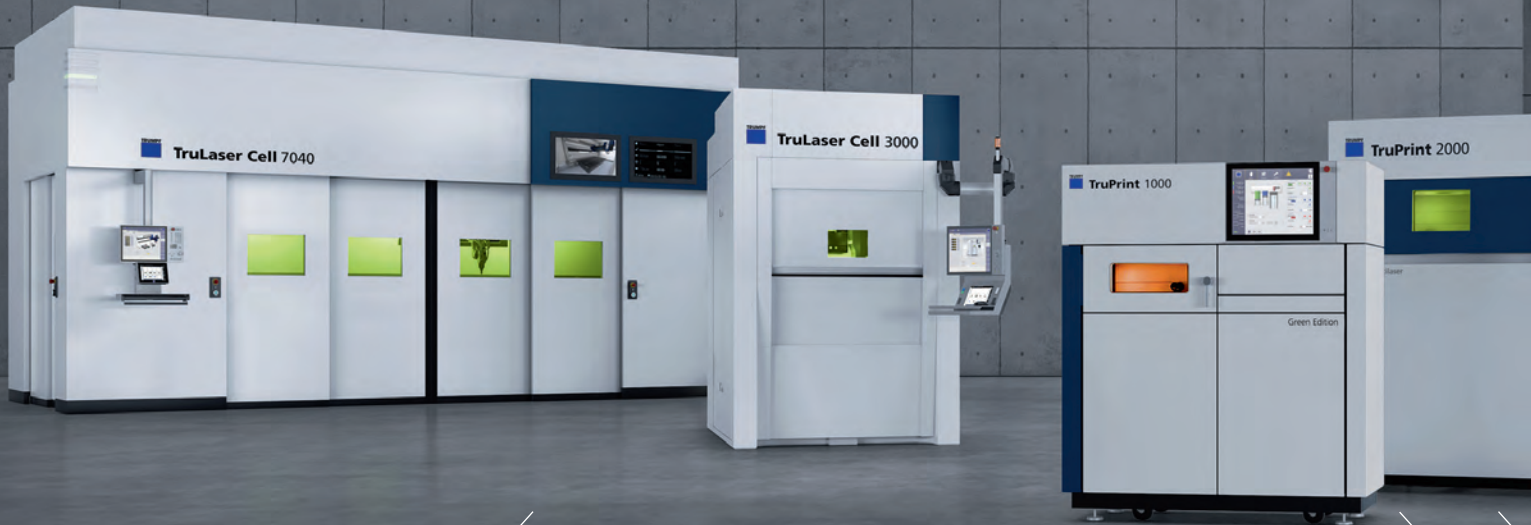
The right solution for every metal AM application



Our additive technologies
for your application:
**Laser Metal Fusion (LMF / LPBF) &
Laser Metal Deposition (LMD)**

TRUMPF

The right solution for every metal AM application



Laser Metal Deposition

The all-rounder among additive systems

- From coating to repair through to additive manufacturing
- The right beam source and powder feeder for every application

➤ High-speed laser metal deposition for rotationally symmetric components

TruPrint 1000

The most productive machine in its class

- Option multilaser: up to 80% more parts at the same time
- Easy and intuitive handling
- Multiplate option to compensate for order peaks

➤ **NEW:** Dental Preform option for 3D printing of individual single abutments

TruPrint 1000 Green Edition

3D printing of pure copper and precious metals

- Highest quality and productivity through green laser with a wave length of 515 nm
- Outstanding thermal properties and electrical conductivities



TruServices

- <30 min response time for urgent service requests
- 85% service cases solved without on-site assignment
- 24/7 spare parts order
- TRUMPF Bank for flexible financing solutions



TruPrint 2000

Economical 3D printing in premium quality

- Premium part quality with 55 µm beam diameter
- Highly productive due to fullfield multilaser option
- Low part costs due to perfectly tailored machine concept
- Highest quality standards through Melt Pool Monitoring
- Inert, closed powder cycle

TruPrint 3000

Flexible solution for industrial 3D printing

- Maximum productivity through fullfield multilaser 2 x 500 W
- Flexible production setup
- Ensuring high quality standards with Melt Pool Monitoring
- Inert, closed powder cycle

> NEW: High process reliability due to newly developed gas flux

TruPrint 5000

Highly productive and semi-automated 3D printing system

- Fullfield multilaser 3 x 500 W
- Preheating up to 500°C (optional)
- Automatic process start
- Inert, closed powder cycle
- External part and powder management compatible for TruPrint 3000 & TruPrint 5000
- Intuitive HMI Touchpoint Print

Overview of Additive Manufacturing systems for metal powders

Industrial production solutions for your metal application

From prototyping to industrial series production. As a pioneer in additive technologies and laser specialist since 1979, we offer the right technology for every application requirement: Laser Metal Fusion (or Laser Powder Bed Fusion) or Laser Metal Deposition. Benefit from complete industrial solutions with intelligent monitoring and smart services from a leading high-tech mechanical engineering company worldwide. Are you looking for an application that you would like to produce additively? Talk to our AM Consulting.



TruPrint 1000

Build volume (cylinder):

Ø 100 × H 100 mm

Maximum laser power at the workpiece (TRUMPF fiber laser):

1 × 200 W

Multilaser option: 2 × 200 W

Beam diameter: 30/55 µm**Unpacking:** Internal

TruPrint 1000 Green Edition

Build volume (cylinder):

Ø 97 × H 100 mm

Maximum laser power at the workpiece (TruDisk Laser 1020):

1 × 500 W

Beam diameter: 200 µm**Unpacking:** Internal

TruPrint 2000

Build volume (cylinder):

Ø 200 × H 200 mm

Maximum laser power at the workpiece (TRUMPF fiber laser):

1 × 300 W

Fullfield multilaser option:

2 × 300 W

Beam diameter: 55 µm**Preheating:** Up to 200 °C**Unpacking:** Internal under shielding gas**Periphery:** Powder preparation station

TruPrint 3000

Build volume (cylinder):

Ø 300 × H 400 mm

Maximum laser power at the workpiece (TRUMPF fiber laser):

1 × 500 W

Fullfield multilaser option:

2 × 500 W

Beam diameter: 80 µm**Preheating:** Up to 200 °C**Unpacking:** Internal under shielding gas or external with interchangeable cylinder in depowdering station (optional under shielding gas) or with unpacking station**Periphery:** Industrial part and powder management

TruPrint 5000

Build volume (cylinder):

Ø 300 × H 400 mm

Maximum laser power at the workpiece (TRUMPF fiber laser):

3 × 500 W fullfield multilaser

Beam diameter: 100–500 µm**Preheating:**

Up to 200 °C (basic machine), up to 500 °C (optional)

Automatic process start: Yes
Unpacking: External with interchangeable cylinder in depowdering station (optional under shielding gas) or with unpacking station**Periphery:** Industrial part and powder management

Laser Metal Deposition

From coating to repair through to additive manufacturing
DepositionLine technology package for LMD:

Configurable solution from beam source, powder feeder, optics, and nozzle

Compatible systems:
TruLaser Cell 3000,
TruLaser Cell 7040,
individual integration into your OEM solution

Visit our AM showroom – live oder online! www.trumpf.info/am-showroom

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