



### 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

.World Premiere



### TruPrint 1000

**Build volume (cylinder):**  
Ø 100 x H 100 mm

**Maximum laser power at the workpiece (TRUMPF fiber laser):**  
1 x 200 W

Multilaser option: 2 x 200 W

**Beam diameter:** 55/80 µm

**Unpacking:** Internal

**Further options:** Preform, Multiplate, Inert Powder Cycle, Powder Bed Monitoring, Calibration



### TruPrint 2000

**Build volume (cylinder):**  
Ø 200 x H 200 mm

**Maximum laser power at the workpiece (TRUMPF fiber laser):**  
1 x 300 W

Fullfield multilaser option: 2 x 300 W

**Beam diameter:** 55 µm

**Preheating:** Up to 200 °C

**Unpacking:**  
Internal under shielding gas

#### Periphery:

Powder preparation station  
**Further options:** Powder Bed and Melt Pool Monitoring, Calibration



### TruPrint 3000

**Build volume (cylinder):**  
Ø 300 x H 400 mm

**Maximum laser power at the workpiece (TRUMPF fiber laser):**  
1 x 500 W, Fullfield multilaser option:

2 x 500 W or 2 x 700 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

**Further options:** Powder Bed and Melt Pool Monitoring, Calibration



### TruPrint 5000

**Build volume (cylinder):**  
Ø 300 x H 400 mm

**Maximum laser power at the workpiece (TRUMPF fiber laser):**  
3 x 500 W fullfield multilaser

**Beam diameter:** 80 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

**Further options:** Preform, Powder Bed and Melt Pool Monitoring, Calibration

.World Premiere



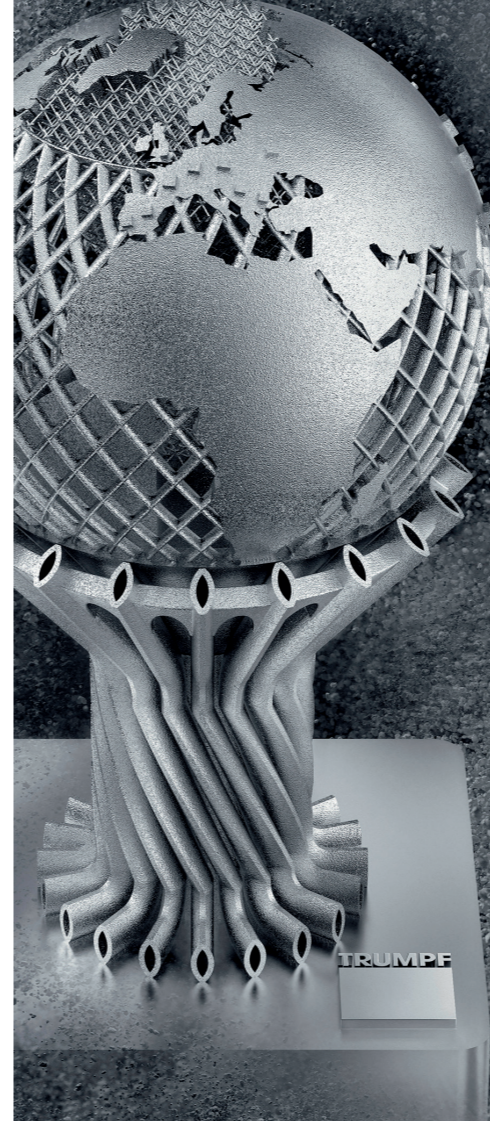
### TruPrint 5000 Green Edition

**Build volume (cylinder):**  
Ø 300 x H 400 mm

**Maximum laser power at the workpiece (TruDisk Laser 1020):**  
800 W, 515 nm

**Beam diameter:** 210 µm

**Preheating:** Up to 200 °C



TRUMPF



Industrial Additive Technologies

The right solution  
for every metal  
AM application

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

TRUMPF



TRUMPF Laser- und Systemtechnik GmbH  
Johann-Maus-Straße 2 · 71254 Ditzingen  
additive.manufacturing@trumpf.com  
www.trumpf.com/s/additivemanufacturing

Visit our AM showroom – live oder online! [www.trumpf.info/am-showroom](http://www.trumpf.info/am-showroom)

202211 – Content subject to change without notice · TRUMPF is certified according to ISO 9001 (Find out more: [www.trumpf.com/s/quality](http://www.trumpf.com/s/quality))

## 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. You are looking for potentials of additive manufacturing in your company? Talk to our experts!

# The right solution for every metal AM application



## 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



## Laser Metal Deposition

The allrounder 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

3D printing in premium quality: highly productive and compact

- Highest build rates and machine run time
- Superior part and surface quality
- Ergonomic contact-free powder handling
- Process flexibility and advanced monitoring
- Best fit for dental applications: Lower part cost due to preform, multiplate and hybrid digital chain

## 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
  - High process reliability due to newly developed gas flux
  - Flexible production setup
  - Ensuring high quality standards with Automatic Multilaser Alignment
  - Inert, closed powder cycle
- **NEW:** 3D printing of aluminum with 2 x 700 W

## TruPrint 5000

Highly productive and semi-automated 3D printing system

- Fullfield multilaser 3 x 500 W with Automatic Multilaser Alignment for high part quality
  - Preheating up to 500 °C (optional)
  - Inert, closed powder cycle
  - External part and powder management compatible for TruPrint 3000 & TruPrint 5000
- **NEW:** Preform option for hybrid manufacturing

## TruPrint 5000 Green Edition

3D printing of copper and copper alloys

- Unique combination of green laser and additive manufacturing system
- Highest quality and productivity through green laser with wavelength of 515 nm
- Outstanding thermal properties and electrical conductivities

World Premiere

World Premiere