

TERRAWORKS

TERRA

270Px2

PBF(Powder Bed Fusion) Type
Dual-Metal 3D Printer

Precision · Repeatability · Industrial Reliability
Engineered for advanced metal manufacturing.

Ø270×200

300W

7 m/s

Build Envelope (mm)

Yb-Fiber Laser

Max Scan Speed



Precision Metal AM Specialist

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The TERRA270Px2 **Delivers**

Optimized workflow for precision metal component manufacturing.



BUILD ENVELOPE

Ø270 × 200 mm

Circular platform optimized for complex metal geometries.



LASER SOURCE

300W Yb-Fiber

Continuous wave, high-density sintering power for dense parts.



LAYER RESOLUTION

20 – 50 µm

Fine-tunable for precision vs. throughput balance.



MAX SCAN SPEED

7 m/s

High-speed galvo scanning for rapid production cycles.

TECHNICAL

SPECIFICATIONS

CATEGORY	SPECIFICATION
Build Envelope	Ø270 mm × 200 mm
Layer Thickness	20 µm – 50 µm
Laser Type	Yb-Fiber Laser 300W
Laser Wavelength	1075 – 1085 nm
Max. Scan Speed	7 m/s
Inert Gas Supply	Nitrogen or Argon (1 connection)
Electrical Supply	220V 30A
Power Consumption	6.6 kW
Machine Dimensions (mm)	1533W × 938D × 1930H
Weight	880 kg
Filter System	Integrated
Software	Magics / Netfabb (Prusa) Compatible + In-house AM S/W

Key Components

Laser

300W Yb-Fiber
1075–1085nm CW
M² < 1.2, Air Cooled

Scanner

Digital SL2-100
1064–1085nm
Max ±0.41 rad

Recoater

Blade type with
adjustable leveling

Sensors

Pressure, Moisture,
Oxygen monitoring
Inert atmosphere

DIMENSIONS & FOOTPRINT

Compact footprint
engineered for
facility-friendly
integration.

1533 mm

WIDTH

938 mm

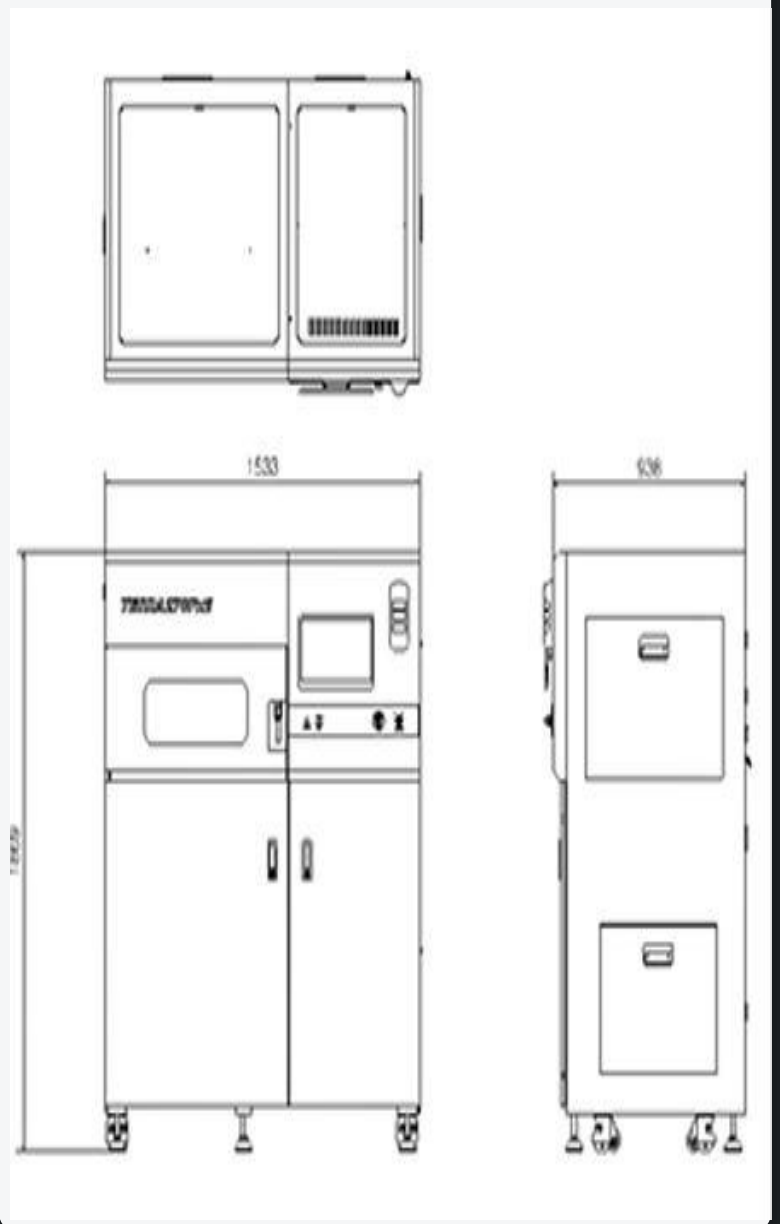
DEPTH

1930 mm

HEIGHT

880 kg

**WEIGHT
(NET)**



Top / Front / Side Views • All dimensions in mm

Precision Process Control

Multi-parameter monitoring for consistent, repeatable builds.



Atmosphere Control

- ✓ Oxygen Sensor: 0-1/10/100 ppm
- ✓ Moisture Sensor: 1–1,000 ppm
- ✓ Pressure Sensor: 0–100 mbar
- ✓ N₂ / Ar inert gas support



Recoating System

- ✓ Blade-type recoater (PE-86L/PE-60L)
- ✓ Adjustable blade leveling
- ✓ DC24V motor drive
- ✓ Powder outlet integrated



Software & Interface

- ✓ In-house AM control S/W
- ✓ Magics / Netfabb / Prusa slicer
- ✓ Touch screen HMI
- ✓ LAN / USB connectivity

Partner with TERRAWORKS

Metal additive manufacturing, built in Korea.
Customized equipment development available.

L-PBF Specialist

Customizable OEM

In-house S/W

Aerospace Ready

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