

TERRAWORKS

Metal Additive Manufacturing Solutions

**PRECISION.
INNOVATION.
PERFORMANCE.**

The New Standard in Metal 3D Printing in Korea.
TERRAWORKS delivers a total solution from equipment development to production services.

TERRA 250P

TERRA 270P

TERRA 270P X2

🌐 www.terraworks.co.kr

COMPANY OVERVIEW

TERRAWORKS is a specialist in Metal Additive Manufacturing.

Backed by the in-house TERRA series Powder Bed Fusion (PBF) systems and proven production experience, we provide high-quality metal 3D printing solutions deployable directly in industrial environments.

Beyond equipment manufacturing, we help customers drive manufacturing innovation through real process know-how gained from production.

2020

Since (Founded)

800K+

Cumulative Sipe Deliveries

AS9100

Aeroscpae Certification

ISO9001

Quality Management

CORE BUSINESS



Metal 3D Printer Development

In-house Design and manufacturing of TERRA series. High-performances PBF equipment for industrial applications



Additive Manufacturing Services

Volume-production servies for precision parts: tire molds, aerospace, semiconductor, and dental



Alloy Powder Development

Tailored metal powder development and materials optimized research



Government-funded R&D

Advanced R&D projects supported by MOTIE, MST, and national programs.

WHY TERRAWORKS?



In-house Equipment Development

100% proprietary PBF systems built for field requirements — reducing dependence on imported & external equipment.



Proven Production Experience

Process know-how validated through actual component production, not just equipment sales.



Precision Sipe Expertise

Thin-wall technology proven byt 800,000+ tire-mold sipe deliveries



intergrated Manufacturing

One-stop support: design, build, heat treatment, polishing, cleaning, and machining

PRODUCT LINEUP

TERRAWORKS' PBF systems are designed for the highest precision and



Technical Specification Comparison

Specification	TERRA 250P	TERRA 270P	TERRA 270P X2
Build Volume	Ø250 × 200mm	Ø270 × 200mm	Ø270 × 200mm
Layer Thickness	20 ~ 50 µm	20 ~ 50 µm	20 ~ 50 µm
Laser Type	Yb-fiber 200W / 300W	Yb-fiber 300W / 400W	Dual Yb-fiber 300W × 2
Scanner	intelliSCAN IV 20	intelliSCAN IV 20	excelliSCAN 20
Atmosphere	N ₂ / Ar	N ₂ / Ar (1 Port)	N ₂ / Ar (1 Port)
Software	Magics / Netfabb	Magics / Netfabb	Magics / Netfabb
Control	Self-developed SW	Self-developed SW	Self-developed SW

Common Features

All TERRA systems featrues an integrated filter system for process stability, with in-house developed

PRODUCTION CAPABILITY



Metal PBF (Core)

Min. wall thickness

0.2mm

Relative density

> 98%

Dimensional Accuracy

±0.1mm

Materials

MS1 / SUS316L / IN718

Build Size

Ø270×200mm

Tire mold sipe, Aerospace parts,
Dental copings



FDM / SLA

Materials

Engineering Polymers

Applications

Prototypes / housings

Post-processing

Sanding / Painting / Marking

Mock-up

High-precision prototypes

Prototype fabrication and functional-verification mock-up support



Post-Processing

CNC

Precision machining

Heat treatment

Age hardening / annealing

Surface

Electrochemical polishing

Cleaning

Ultrasonic cleaning

Inspection

CMM 3D measurement

Full one-stop support— through to final delivery

Engineering Polymers

APPLICATIONS & SERVICES

 Dental Coping Crown Bridge Framework	 Automotive Engine Die-casting Insert Cooling Channel
 Tire Mold (Core) Tread Mold Sector Mold 3D Sipe	 Precision Parts Thermal Mgmt Lattice Structure
 Semiconductor Parts ALD Guide Rings ALD Showerhead Helical Ribbon Impeller Thruster Head Mock-up	

HISTORY

● 2020

Aug- TERRAWORKS founded

Sep- MOTIE project awarded

● 2021

Mar- TERRA 250P launched

May- Sipe Delivery to Hankook Tire

June- MST project awarded (\$ 2.1 million)

● 2022

Oct- Reached 200,000+ sipe deliveries

Dec- TERRA 270P development completed

● 2023

July- 3D Printing Convergence Technology Center operation with Hankook Precision Works

● 2024

July- Reached 800,000+ sipe deliveries

Aug- Independent 3D Printing Technology Center has been established

Sep- Aeroscape component delivery to Sungjin Techwin

● 2025

Sep- TERRA 270P X2 delivered to Pukyong National University

Nov- AS9100D & ISO9001 Certifications obtained

Nov- Laser glass-cutting software delivered to Hanhwa Technology

CERTIFICATIONS

AS 9100D & ISO 9001

Certificate No: C806583

Valid Until: 2028. 10. 22

Scope: Manufacturing of Metal & Plastic Components for Defense & Aerospace

DNV GL

PARTNERS

Research & Gov

KAIST

KAERI

KFE

KIOS

Industry (Tire/Auto)

HANKOOK Tire

NEXEN

Samkee

Dynamic Design

Aerospace & Defense

Hanwha Aerospace

Sungjin Techwin

TERRAWORKS

Creating the New Standard in Metal Additive Manufacturing

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