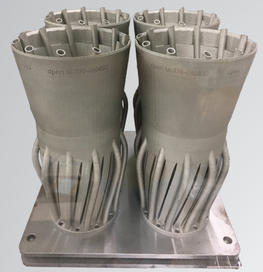
dpert
Additive Manufacturing DAEGUNTECH

DPERT, a leading metal 3D printer created with Korean technology



DPERT is a premier metal 3D printer created entirely with Korean technology. Since the launch of its first model in 2013, dpert, which embodies DaegunTech's accumulated expertise in cable manufacturing and semiconductor equipment, is delivering innovative products to various domestic and international organizations and companies. We custom-tailor from design to manufacturing complex and lightweight parts required in various fields such as automobiles, defense industry, aerospace, and semiconductors.

Unleash your imagination and share all your ideas with us- dpert will turn your creative visions into tangible reality.



▲ Support Multilingual Interface including Korean, English, and More
Cutting-Edge Monitoring and Output-Inspection System

Affordable cost + Quick maintenance + Optimal security + User-friendly interface

Unlock up to 30% in cost savings
with dpert compared to other competitors

Access top-tier remote and on-site service by our skilled engineers
Tailored for excellence in aerospace, defense, automotive, semiconductor, medical, and more.

Other 3D PRINTER	VS	DPERT
Impossible to produce sizes other than those specified by customers	Customizing	Can be customized in various sizes and temperatures according to customer needs
Almost impossible to change material after lamination with one material (In-equipment cleaning by professional engineer is required before change)	Maintenance	Easy cleaning and time-saving with the build-room-replacement method and automatic powder supply device
Choice is limited to high cost designated powders Each flow-rate change for different materials requires additional purchase	Material	A suitable powder is recommended, however products from various manufacturers can be used if desired. As needed, flow rate adjustment technical support will be available for subsequent material change.
Technology transfer often requires an additional option contract other than existing equipment pay-off contract	Technology transfer and training	Technology transfer (operator training) is supported from the contract stage when purchasing equipment. Training can be conducted online and offline at different stages (prior to contract, if needed)
Restrictions on specified software modifications (arbitrary modification of parameters)	Software	Provide software user training (online & offline) Parameters can be easily modified by trained operators
No automatic powder device is offered, or it must be purchased separately as an optional device	Convenience	With automatic powder supply device, there is no need for the operator to directly replace the powder
If additional equipment is required, it may be impossible or incur excessive time and cost	Upgrade	If additional equipment upgrades are required, on-site, in-person response is available

Dpert Website
www.dpert.com

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Inquiry for Prototype Requests & Equipment Purchases

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Metal 3D PRINTER

Shaping Tomorrow, One Layer at a Time
Korea's Premier 3D Printing Enterprise

MG80

World's first innovation!
Safe magnesium output with explosion-proof system



Product specifications

Model name	MG80
Printing type	PBF(Powder Bed Fusion)
Output size(mm)	80 x 80 x 70 mm
Precision	±0.05mm
Thickness	0.02 ~ 0.06 mm
Laser type	fiber laser
Laser power	200w
Material(powder)	Pure magnesium, Stainless steel, Aluminum alloy, Titanium alloy, Zirconium alloy, Nickel alloy, ETC..
Support material	Same as original material
Recommended use	Manufacturing products such as medical and industrial magnesium and zirconium
Equipment size (weight/NET)	1,520(W)x1,220(D)x2,030(H) mm[1,550kg]
Power type	AC 220v 30A
Safety	Double safety door/Explosion proof system
Heated bed optional	–
Automatic powder supply device	–
Software	Magis (Materialise Build Processor for dpert SLM)

Features

1. The world's leading magnesium powder material 3D printer developed using purely domestic technology.
2. Optimized for ultra-light magnesium alloy material
3. Safety feature - Explosion-Proof Structure
4. Enabled additional post-printing process (cutting/designing) within the equipment (Glove box integrated / One Stop function)
5. Equipped with high-performance laser and scanner
6. Self-developed UI for highly syncronized performance
7. Print-related technical support and free operator training support
8. Regular maintenance technical support

Output



PEEK140

Redefining the future of medical technology
Implants and artificial joints using high-performance PEEK material



Product specifications

Model name	PEEK 140
Printing type	PBF(Powder Bed Fusion)
Output size(mm)	60 x 60 x 80 mm
Precision	±0.2mm
Thickness	0.06 ~ 0.12 mm
Laser type	Co2 Laser
Laser power	55w
Material(powder)	PEEK
Support material	Same as original material
Recommended use	Manufacturing medical and industrial PEEK material parts
Equipment size (weight/NET)	1,450(W)x990(D)x1,880(H)mm[750kg]
Power type	AC 220v 30A
Safety	Double safety door
Heated bed optional	–
Automatic powder supply device	–
Software	Magis (Materialise Build Processor for dpert SLS)

Features

1. Korea's top 3D printer using purely domestic technology
2. U.S. Food and Drug Administration (FDA) approved PEEK material, optimal for manufacturing medical artificial joints and implants
3. Equipped with high-performance laser and scanner
4. Self-developed UI for highly syncronized performance
5. Print-related technical support and free operator training support
6. Regular maintenance technical support

Output



M135

A variety of materials can be printed
A model optimized for manufacturing small parts containing pure copper



Product specifications

Model name	DPERT M135 (B / CU)
Printing type	PBF(Powder Bed Fusion)
Output size(mm)	135 x 135 x 150 mm
Precision	±0.1mm
Thickness	0.03 ~ 0.06mm
Laser type	fiber laser
Laser power	200w (optional 400w) / 1kw
Material(powder)	Pure copper(M135 CU) / Stainless steel, Aluminum alloy, Titanium alloy, Inconel alloy, Copper-alloy(M135 CU), cobalt chrome alloy, ETC..
Support material	Same as original material
Recommended use	Optimized for manufacturing small parts, including pure copper
Equipment size (weight/NET)	870(W)x1,180(D)x1,880(H)mm[700kg]
Power type	AC 220v 60A
Safety	Double safety door
Heated bed optional	Heated bed applicable
Automatic powder supply device	–
Software	Magis (Materialise Build Processor for dpert SLM)

Features

1. Korea's top 3D printer using purely domestic technology
2. Ideal for manufacturing cooling systems and industrial products such as small pure copper
3. Equipped with high-performance laser and scanner
4. Self-developed UI for highly syncronized performance
5. Print-related technical support and free operator training support
6. Regular maintenance technical support

Output



M270

Print all materials from Hastelloy X to Inconel!
A new standard for high-rigidity medium-sized parts strength



Product specifications

Model name	DPERT M270B
Printing type	PBF(Powder Bed Fusion)
Output size(mm)	270 x 270 x 300 mm
Precision	±0.1 ~ 0.2mm
Thickness	0.03 ~ 0.1 mm
Laser type	fiber laser
Laser power	500w (optional 1kw)
Material(powder)	Hastelloy alloy, Inconel alloy, Stainless steel, Aluminum alloy, Titanium alloy,Nickel alloy, Maraging alloy, ETC..
Support material	Same as original material
Recommended use	Production of medium-sized parts requiring high rigidity such as medium-sized stainless steel, maraging, and Inconel alloy
Equipment size (weight/NET)	2,100(W)x1,714(D)x2,640(H) mm[2,550kg]
Power type	AC 380v 30A / AC 220v 60A
Safety	Double safety door
Heated bed optional	–
Automatic powder supply device	Equipped with automatic supply unit option(1,500(W)x1,450(D)x2,000(H) mm[1,200kg]
Software	Magis (Materialise Build Processor for dpert SLM)

Features

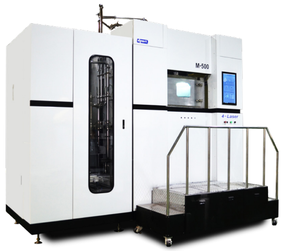
1. Korea's top 3D printer using purely domestic technology
2. Manufacturing parts that require high rigidity such as medium-sized stainless steel, maraging, and Inconel alloy
3. Equipped with high-performance laser and scanner
4. Self-developed UI for highly syncronized performance
5. Print-related technical support and free operator training support
6. Regular maintenance technical support

Output



M500

Push the limits with 4 lasers
Precisely and quickly files medium to large sized parts in all fields



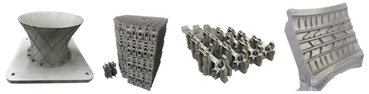
Product specifications

Model name	DPERT M500
Printing type	PBF(Powder Bed Fusion)
Output size(mm)	500 x 500 x 500 mm
Precision	±0.1 ~ 0.2mm
Thickness	0.03 ~ 0.1 mm
Laser type	fiber laser
Laser power	4 * 500w (optional 4 * 1kw)
Material(powder)	Pure Titanium, Titanium alloy, Hastelloy alloy, Inconel alloy(718,625), Stainless steel, Aluminum alloy, Nickel alloy, Maraging alloy, ETC..
Support material	Same as original material
Recommended use	Manufacturing of medium to large lightweight parts (aerospace, defense industry, automobile, UAM, etc.)
Equipment size (weight/NET)	Main body: 1,750(W)x2,400(D)x3,300(H) mm[3,400kg]
Power type	380v max 15kW (bed heating) / average 7kW
Safety	Double safety door
Heated bed optional	–
Automatic powder supply device	Automatic supply unit already installed (1,600(W)x1,600(D)x3,000(H)mm[1,200kg]
Software	Magis (Materialise Build Processor for dpert SLM)

Features

1. A 3D printer made with pure domestic technology that is equipped with four lasers and is 4 times faster and more precise.
2. Optimized for medium to large sized lightweight parts requiring high rigidity such as Hastelloy and Inconel
3. Provides optimized self-developed UI
4. Print-related technical support and free operator training support
5. Regular maintenance technical support

Output



M800

The world's largest size with the world's greatest reliability.
The right choice for large parts in the aviation, space and defense industries



Product specifications

Model name	DPERT M800
Printing type	PBF(Powder Bed Fusion)
Output size(mm)	800 x 800 x 800 mm
Precision	±0.1 ~ 0.2mm
Thickness	0.05 ~ 0.12 mm
Laser type	fiber laser
Laser power	4 * 1kw
Material(powder)	Pure Titanium, Titanium alloy, Hastelloy alloy, Inconel alloy(718,625), Stainless steel, Aluminum alloy, Nickel alloy, Maraging alloy, ETC..
Support material	Same as original material
Recommended use	Manufacturing of large lightweight parts (aerospace, defense industry, automobile, UAM, etc.)
Equipment size (weight/NET)	Main body: 2,700(W)x2,200(D) x4,2000mm[5,400kg]
Power type	AC 380V, 100A / AC single-phase electric power 220V,100A / AC single-phase electric power 220V,40A Automatic powder supply device : AC Three-phase electric power 220V,75A
Safety	Double safety door
Heated bed optional	–
Automatic powder supply device	Automatic supply unit already installed(1,550(W)x1,450(D)x2,900(H) mm[1,200kg]
Software	Magis (Materialise Build Processor for dpert SLM)

Features

1. A 3D printer with purely domestic technology capable of producing the world's largest metal prints.
2. Optimized for large lightweight parts requiring high rigidity such as Hastelloy and Inconel
3. Self-developed UI for highly syncronized performance
4. Print-related technical support and free operator training support
5. Regular maintenance technical support

Output

