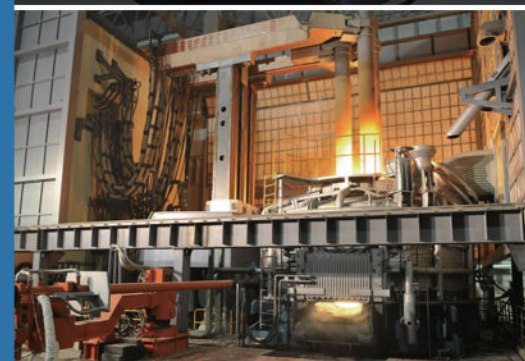




FastForm 3 D Technology Co., Ltd.



High Technology Expertise



Contact us

ADD: No. 9 Weixin Road, Industrial Park,
Suzhou City, Jiangsu Province, China

Phone: 86-13524325881

Email: info@fastform3d.com

Website: www.3dfastform.com



facebook



YouTube

Let metal 3D printing become
Tools for industrial mass production and manufacturing

Let 3D printing Directly enter industrial production

Multi lasers industrial grade metal 3D printer



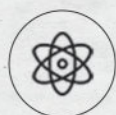
Medical field



Mold industry



3C application



scientific research



Aerospace



CONTENT

COMPANY INTRODUCTION 01

COMPANY PHILOSOPHY 02

DEVELOPMENT HISTORY 03

PRODUCTS 05

FASTLAYER 13

PATENT CERTIFICATE 14

APPLICATIONS 15

FastForm 3 D Technology Co., Ltd.

Fastform 3D Technology Co., Ltd. is referred to as "FastForm" in English, and its core founders are all from well-known scientific research institutions of 3D printing. The company has been committed to the market-oriented application of 3D printing equipment, providing efficient and affordable 3D printing comprehensive solutions for industrial enterprises, scientific research and education. Customers are widely spread in aerospace, automobile industry, medical care, education and other fields. All the equipments have completed CE certification, and the products are exported at domestic and abroad.

Company Philosophy

Since its establishment, the company has been sincerely treating every customer with the service tenet of "Sincerity, Intention and Intimacy", carefully completing every project, caring about every detail, winning the "trust" of customers with a pragmatic work style, and striving to provide customers with all-round and whole-process consulting services. The world is changing rapidly and policies are changing constantly. We have always adhered to the spirit of "innovation, timeliness, professionalism and preciseness", constantly enhancing our comprehensive innovation ability and technical strength, creating value for customers, realizing value for employees and showing value for society.

Development history

2016.04

The company was established, and the team building received 5 million angel investment.



2016.11

Won the seventh batch of "Hai Chuang Future Star" special reputation.

2016.10

The first domestic M500 with double laser and double vibrating mirror was successfully developed, breaking the foreign monopoly.

2017.09

3D printing of high temperature resistant materials was successfully developed and patented in February 2018.

2017.10

FastLayer was successfully developed and patented.



2018.11

It was rated as a high-tech enterprise.

2019.05

Exported to India and South Korea for the first time.

2020.07

M800 equipment contract signing (the largest forming volume equipment in China at present)

2021.09

The establishment of Jiangsu Company has opened a new road to development.

2022.06

The double laser dental special machine was successfully released and became one of the most efficient dental special equipment in the market at that time.

2023.05

The economical FF-M140C equipment was released, which caused a sensation in the market and redefined the single laser metal 3D printing.



2023.11

A round of financing landed, and yueda Fund and South China University of Technology Laser jointly led the investment.



2023.12

Released multi-beam FF-M420Q for shoe models and consumer electronics, leading a new era of metal 3D printing industrial production.



Quality advantage

- Stabilized optical system
- Self-developed software for one-button automatic typesetting, specially customized for dentistry.

Efficiency advantage

- 150 crowns / 5 hours. 15 frameworks / 6 hours
- Permanent filter, high powder utilization rate.
- The crown veneer can complete typesetting and data processing in 5 minutes at the earliest.

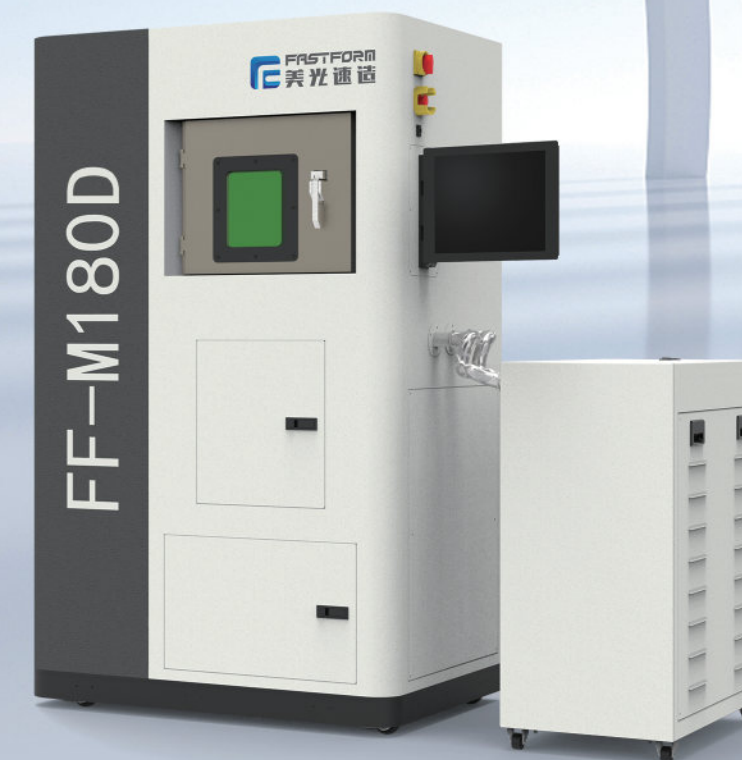
Security advantage

- > 5 years of verification, has formed an independent and perfect safety production process.
- Bring your own camera, support remote monitoring and operation, and monitor the production status anytime and anywhere.
- Integrated welding structure, strong stability and convenient installation.

Product Model	FASTFORM FF-M140C		
Build Volume Height inclusive of build plate	Φ140 X H100mm	Printer Dimensions	1050×870×1750mm (L×W×H)
Printer Weight	450kg	Layer Thickness	20-100um
Beam Spot Size	50-80um (Adjustable)	Laser Source	Single fiber laser
Recoater Type	Soft blade recoater	Input Voltage	220V AC
Laser Power	500W	Protective Gas	N2, Ar
Average Power Consumption	1.5KW	Cooling Type	Water-cooled
Min. Oxygen Content	0.1%	Powder Feeding and Recoating Type	Upper powder feeding &One-way recoating
Build Plate Fixing Type	Magnetic fixed	Printing Accuracy	±50um
Max. Scanning Speed	10m/s	Max. Powder Volume	2.5L
Typesetting Mode	Automatic typesetting path planning	Power Failure Resume	Yes
Printable Material	CoCr .Titanium. Stainless steel Aluminum, Etc	Filtration System	Permanent filter lifetime ≥30K hours

Special for dentistry Metal 3D printer

One-click typesetting
and data processing within 5 minutes



Product Model	FASTFORM FF-M180D		
Build Volume Height inclusive of build plate	Φ180 X H100	Printer Dimensions	1140×800×1900mm (L×W×H)
Printer Weight	600kg	Layer Thickness	0.02-0.05mm
Beam Spot Size	50-80um	Laser Source	Doal lasers
Recoater Type	Soft blade recoater	Input Voltage	Three-phase 380V
Laser Power	2×500W	Protective Gas	N2, Ar
Average Power Consumption	3KW	Cooling Type	Water-cooled
Min. Oxygen Content	0.01%	Powder Feeding and Recoating Type	Upper powder feeding &One-way recoating
Build Plate Fixing Type	Magnetic fixed	Printing Accuracy	±50um
Max. Scanning Speed	0~7m/s	Max. Powder Volume	6L
Typesetting Mode	Automatic typesetting path planning	Power Failure Resume	Yes
Printable Material	CoCr .Titanium. Stainless steel Aluminum, Etc	Filtration System	Permanent filter lifetime ≥30K hours

Dentistry/Industry
Multi-purpose metal 3D printer

Dual lasers



One-click



300 Crowns
5 hours



30 Frameworks
6 hours



Bidirectional
Powder Recoating



Product Model	FASTFORM FF-M220		
Build Volume Height inclusive of build plate	140×220×100/200mm (L×W×H)	Printer Dimensions	1150×750×1800mm (L×W×H)
Printer Weight	500kg	Layer Thickness	20-100um
Beam Spot Size	50-80um (Adjustable)	Laser Source	Dual lasers
Recoater Type	Soft blade recoater	Input Voltage	220V AC
Laser Power	2×500W	Protective Gas	N2, Ar
Average Power Consumption	2.5KW	Cooling Type	Water-cooled
Min. Oxygen Content	0.1%	Powder Feeding and Recoating Type	Upper powder feeding &Bidirectional recoating
Build Plate Fixing Type	Magnetic fixed	Printing Accuracy	±50um
Max. Scanning Speed	10m/s	Max. Powder Volume	6L
Typesetting Mode	Automatic typesetting path planning	Power Failure Resume	Yes
Printable Material	CoCr .Titanium. Stainless steel Aluminum, Etc	Filtration System	Permanent filter lifetime ≥30K hours

Powder circulation system helps mass production

Exclusive Tools for prototype model and industry mold

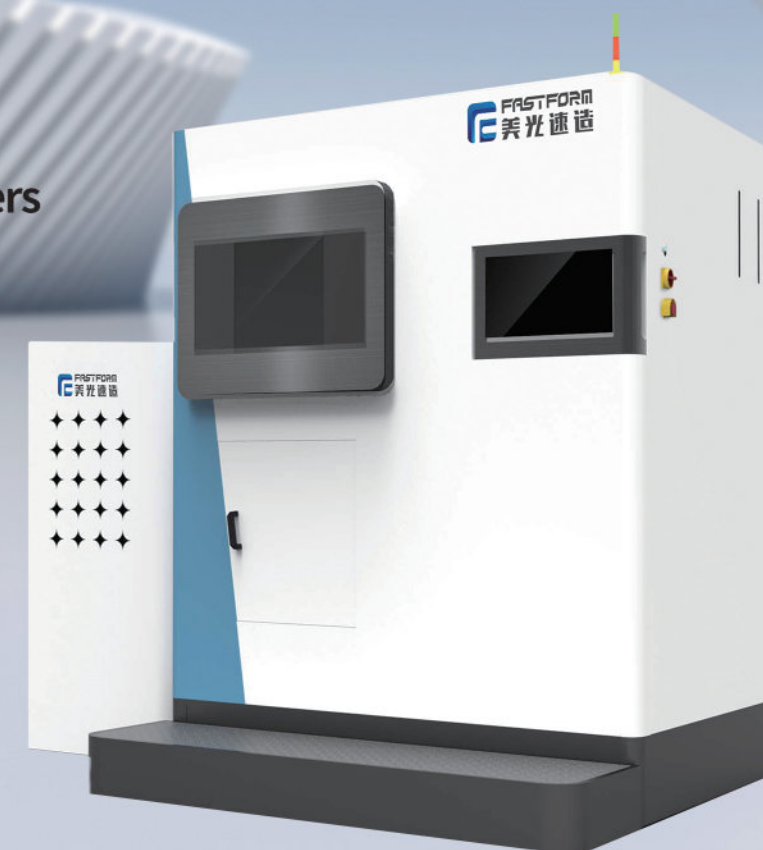


Product Model	FASTFORM FF-M300		
Build Volume Height inclusive of build plate	300×300×400mm (L×W×H)	Printer Dimensions	2705×990×2100mm (L×W×H)
Printer Weight	1200kg	Powder Feeding and Recoating Type	Upper powder feeding &Bidirectional recoating
Preheat Temperature	0-200°C	Laser Type	Fiber laser
Maximum Power	10KW	Laser Source	Dual lasers
Input Voltage	Three-phase 380V	Beam Spot Size	50-200um (Adjustable)
Vibrating Mirror Type	Grating type high-precision digital coding lens	Protective Gas	N2, Ar
Scanning Speed	0-10m/s	Layer Thickness	20-150um
Circulatory System	0-2m³/min multi-layer air curtain protection.	Z Axis Resolution	1um
Filter System	The filtration efficiency of particle larger than 0.5 micron is 99.9%. (Upgradeable permanent filter)	Scanning Mode	Checkerboard grid, honeycomb hexagonal grid, octagonal grid, strips, parallel lines, etc.
Control Software	FastFab, with operation authority to control process guidance and online monitoring.	Printable Material	Stainless steel, cobalt-chromium alloy, titanium alloy, pure titanium die steel, aluminum alloy and other metal materials.
Scanning Accuracy	The scanning repetitive positioning accuracy is ≤ 2 μ rad; The linearity is 99.9% and the range is 20%.Proportional drift: 8PPM/°C		



Product Model	FASTFORM FF-M400		
Build Volume Height inclusive of build plate	400×350×350mm (L×W×H)	Printer Dimensions	3013×1140×2010mm (L×W×H)
Printer Weight	1700kg	Powder Spreading Method	Upper powder feeding &Bidirectional recoating
Preheat Temperature	0-200°C	Laser Type	Fiber laser
Maximum Power	15KW	Number of Lasers	4 、 8
Power Supply Type	Three-phase 380V	Beam Spot Size	50-200um (Adjustable)
Vibrating Mirror Type	Grating type high-precision digital coding lens	Protective Gas	N2, Ar
Scanning Speed	0-7m/s	Layer Thickness	20-150um
Circulatory System	0-5m ³ /min multi-layer air curtain protection.	Z Axis Resolution	1um
Filter System	The filtration efficiency of particle larger than 0.5 micron is 99.9%. (Upgradeable permanent filter)	Scanning Mode	Checkerboard grid, honeycomb hexagonal grid, octagonal grid, strips, parallel lines, etc.
Control Software	FastFab, with operation authority to control process guidance and online monitoring.	Printable Material	Stainless steel, cobalt-chromium alloy, titanium alloy, pure titanium die steel, aluminum alloy and other metal materials.
Scanning Accuracy	The scanning repetitive positioning accuracy is ≤ 2 μ rad; The linearity is 99.9% and the range is 20%.Proportional drift: 8PPM/°C		

- Dual lasers and galvanometers
- Bidirectional variable speed powder feeding technology
- Z-axis closed-loop system
- Efficient air control system



Product Model	FASTFORM FF-M500		
Build Volume Height inclusive of build plate	300×500×400mm (L×W×H)	Preheat Temperature	0-200°C
Printer Weight	1600kg	Powder Spreading Method	Upper powder feeding &Bidirectional recoating
Layer Thickness	20-150um	Laser Type	Fiber laser
Maximum Power	15KW	Number of Lasers	4 、 8
Power Supply Type	Three-phase 380V	Beam Spot Size	50-200um (Adjustable)
Vibrating Mirror Type	Grating type high-precision digital coding lens	Protective Gas	N2, Ar
Scanning Speed	0-10m/s	Layer Thickness	20-150um
Circulatory System	0-5m ³ /min multi-layer air curtain protection	Z Axis Resolution	1um
Filter System	The filtration efficiency of particle larger than 0.5 micron is 99.9%. (Upgradeable permanent filter)	Scanning Mode	Checkerboard grid, honeycomb hexagonal grid, octagonal grid, strips, parallel lines, etc.
Control Software	FastFab, with operation authority to control process guidance and online monitoring	Printable Material	Stainless steel, cobalt-chromium alloy, titanium alloy, pure titanium die steel, aluminum alloy and other metal materials.
Scanning Accuracy	The scanning repetitive positioning accuracy is ≤ 2 μ rad; The linearity is 99.9% and the range is 20%.Proportional drift: 8PPM/°C		

Intelligent multi-core acceleration Ultra-large scale slicing model processing

FastForm FF-M800

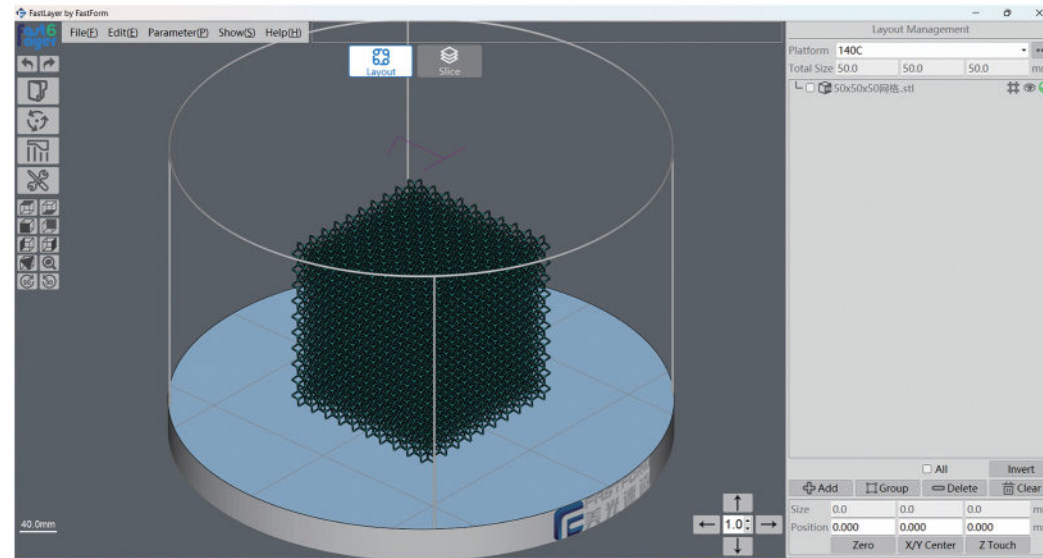
More than 100 slicing parameters
Focusing on aerospace parts production

Product Model	FASTFORM FF-M800		
Build Volume Height inclusive of build plate	650×650×800mm (L×W×H)	Preheat Temperature	0-150°C
Printer Weight	6000kg	Powder Spreading Method	Upper powder feeding &Bidirectional recoating
Layer Thickness	20-150um	Laser Type	Fiber laser
Maximum Power	25KW	Number of Lasers	4 、 6 、 8
Power Supply Type	Three-phase 380V	Beam Spot Size	50-200um (Adjustable)
Vibrating Mirror Type	Grating type high-precision digital coding lens	Protective Gas	N2, Ar
Scanning Speed	0-10m/s	Layer Thickness	20-150um
Circulatory System	0-5m³/min multi-layer air curtain protection	Z Axis Resolution	1um
Filter System	The filtration efficiency of particle larger than 0.5 micron is 99.9% (Upgradeable permanent filter)	Scanning Mode	Checkerboard grid, honeycomb hexagonal grid, octagonal grid, strips, parallel lines, etc.
Control Software	FastFab, with operation authority to control process guidance and online monitoring	Printable Material	Stainless steel, cobalt-chromium alloy, titanium alloy, pure titanium die steel, aluminum alloy and other metal materials
Scanning Accuracy	The scanning repetitive positioning accuracy is ≤ 2 μ rad; The linearity is 99.9% and the range is 20%.Proportional drift: 8PPM/°C		

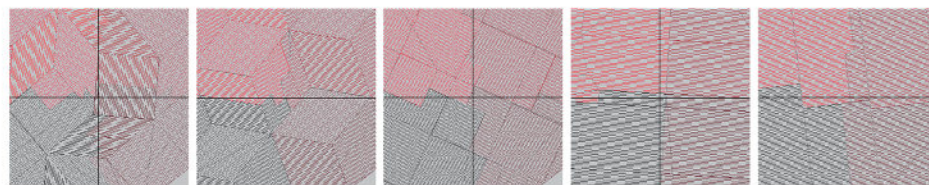


FastLayer

Software introduction



- Layout management and slicing processing of complex models
- Up to more than 70 slicing parameters are set to fully meet the personalized slicing requirements
- Different models use different slicing parameters, and all slicing processes are completed with one key
- Intelligent multi-core acceleration, and supports slicing processing of any super-large complex model (binary slicing data amount > 10G)
- Intelligent slice repair, even if the model is seriously wrong, will not significantly affect the print quality of the model
- A variety of multi-laser stitching modes (up to 36 galvanometer stitching) significantly improve the printing size and keep the printed model away from stress concentration



Checkerboard grid Cellular network Octagonal shape Equal length lines Strip



High Technology Expertise

18 patents 30 software copyrights

CE certification

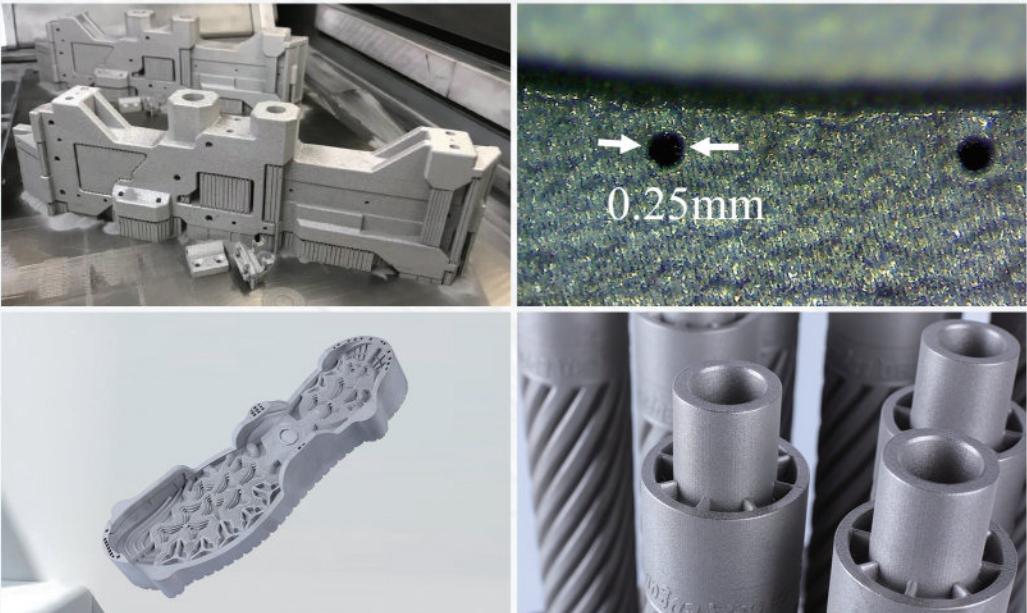


Application Display

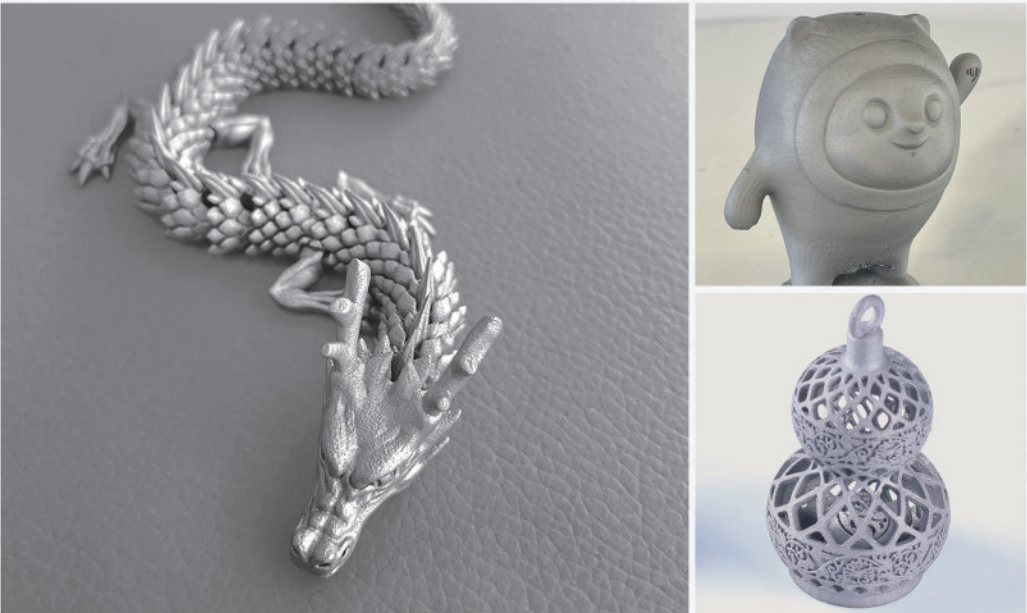
Dental



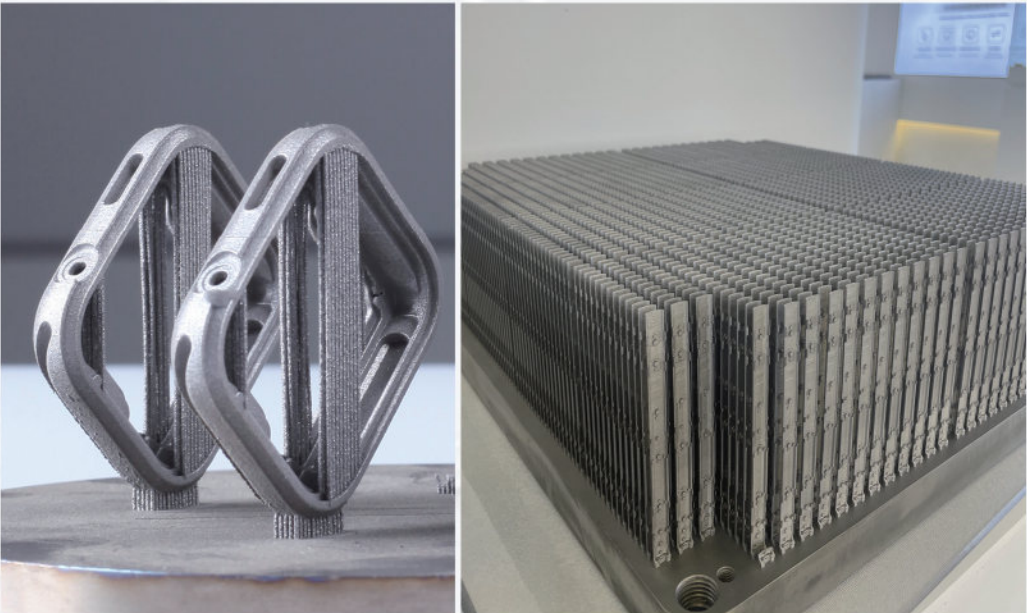
Industrial Mold



Artwork



Consumer Technology



Aerospace

