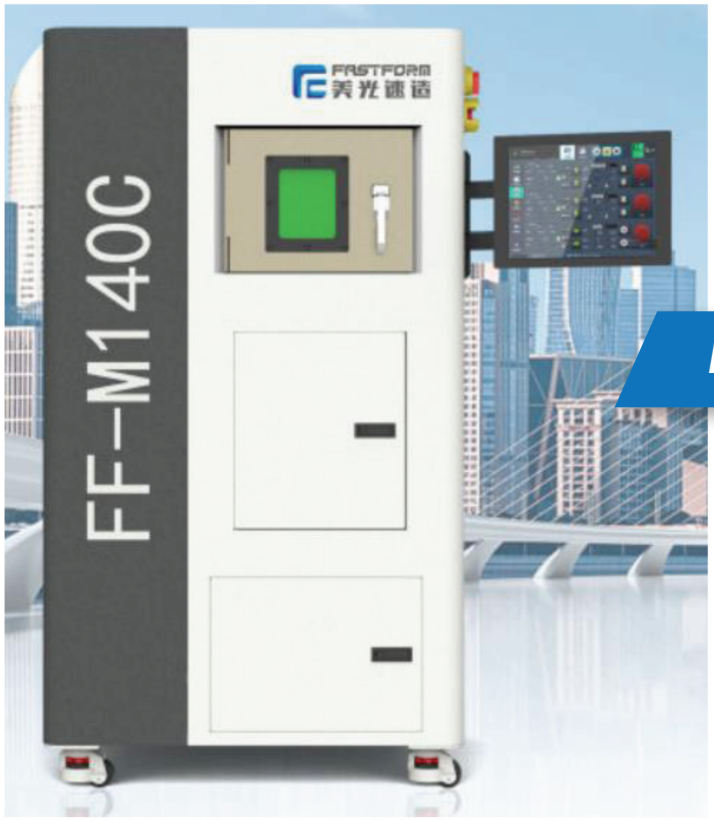
Metal 3D Printing Capacity

Introduction

We specializes in providing high-precision 3D metal printing services to meet the diverse needs of customers. The services we offer includ high-accuracy 3D printing, mold printing, mold repair, and anti-rust treatments. The advanced 3D printers equipped with different capabilities, we ensure that every project, regardless of its complexity or scale, is executed with the utmost precision and efficiency. Whether you require intricate components for equipment, durable molds for manufacturing, or restorative solutions for existing tools, our team is equipped to deliver superior quality and reliability. Our commitment to innovation and customer satisfaction makes us a trusted partner in the realm of manufacturing.

Metal 3D Printing Capacity



Metal 3D Printing

Product Model	FastForm FF-M140C		
Print size	diameter 140mm height 100mm	Machine size	1050 x 870 x 1750mm(L x W x H)
Machine weight	450kg	Powder spreading layer thickness	0.02-0.15mm
Spot size	50-80um	Munber of lasers	single laser
Scraper type	elexible scraper	Power supply type	single phase 220V
Laser power	500W	Gas shield	nitrogen, argon
Average power consumption	1.5KW	Cooling mode	water-cooling
Minimum oxygen content	0.1%	Powder spreading method	powder feeding and unidirectional powder spreading
Substrate fixing mode	quick mounting substarte	Dimensional accuracy	±0.05mm
Scanning speed of galvanometer	0~10m/s	Maximum single power addition	2.5L
Typesetting mode	automatic typesetrting and path planning	Whether to support continuous print after power failure	yes
Printable material	C0-Cralloy, titanium alloy, pure titanium, etc.	Filter element life	permanent filter.service life not less than 30,000 hours

Metal 3D Printing Capacity

Metal 3D Printing

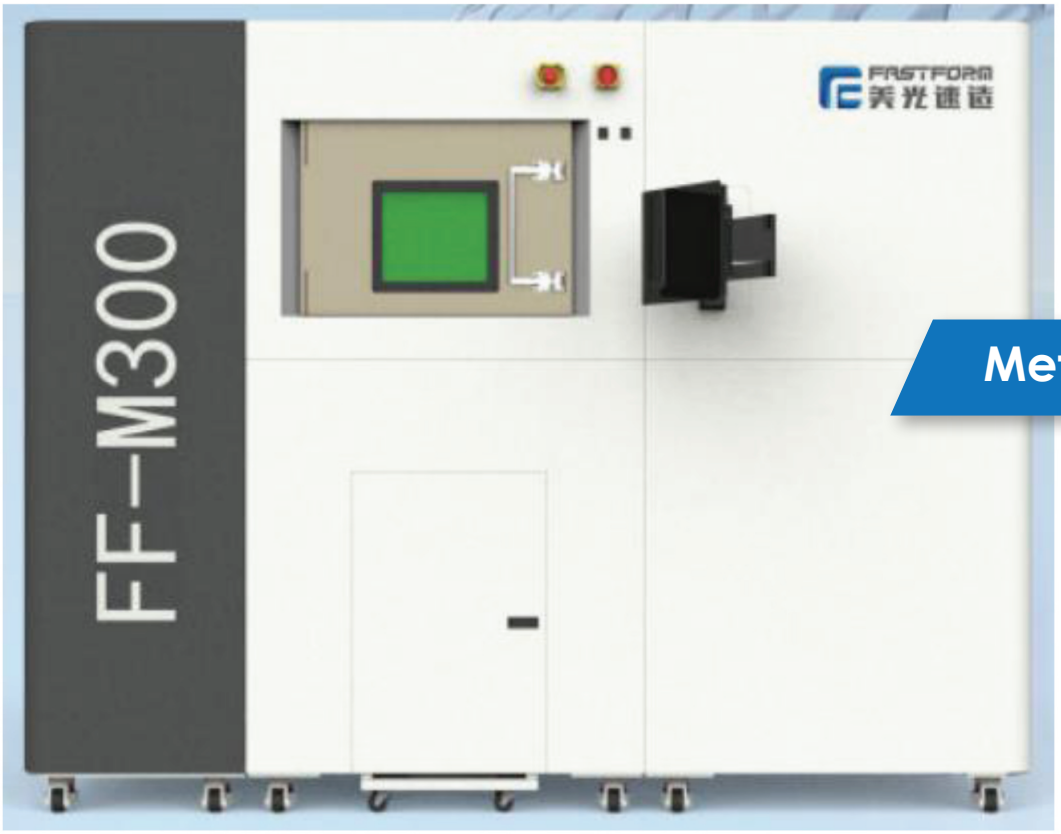
Product Model	FastForm FF-M180D		
Print size	diameter 180mm height 100mm	Machine size	1140 x 800 x 1900mm(L x W x H)
Machine weight	600kg	Powder spreading layer thickness	0.02-0.05mm
Spot size	50-80um	Munber of lasers	double laser / single laser
Scraper type	elexible scraper	Power supply type	three-phase 380V
Laser power	2 x 500W	Gas shield	nitrogen, argon
Average power consumption	3KW	Cooling mode	water-cooling
Minimum oxygen content	0.01%	Powder spreading method	powder feeding and unidirectional powder spreading
Substrate fixing mode	quick mounting substarte	Dimensional accuracy	±0.05mm
Scanning speed of galvanometer	0~7m/s	Maximum single powder addition	6L
Typesetting mode	automatic typesetrting and path planning	Whether to support continuous print after power failure	yes
Printable material	C0-Cralloy, titanium alloy, pure titanium, etc.	Filter element life	permanent filter.service life not less than 30,000 hours

Metal 3D Printing Capacity

Metal 3D Printing

Product Model	FastForm FF-M220		
Print size	140 x 220 x 100/200mm (LxWxH)	Machine size	1140 x 750 x 1800mm(L x W x H)
Machine weight	500kg	Powder spreading layer thickness	0.02-0.15mm
Spot size	50-80um	Munber of lasers	twin laser
Scraper type	elexible scraper	Power supply type	single phase 220V
Laser power	2 x 500W	Gas shield	nitrogen, argon
Average power consumption	2.5KW	Cooling mode	water-cooling
Minimum oxygen content	0.1%	Powder spreading method	powder feeding and unidirectional powder spreading
Substrate fixing mode	quick mounting substarte	Dimensional accuracy	±0.05mm
Scanning speed of galvanometer	0~10m/s	Maximum single powder addition	2.5L
Typesetting mode	automatic typesetrting and path planning	Whether to support continuous print after power failure	yes
Printable material	C0-Cralloy, titanium alloy, pure titanium, etc.	Filter element life	permanent filter.service life not less than 30,000 hours

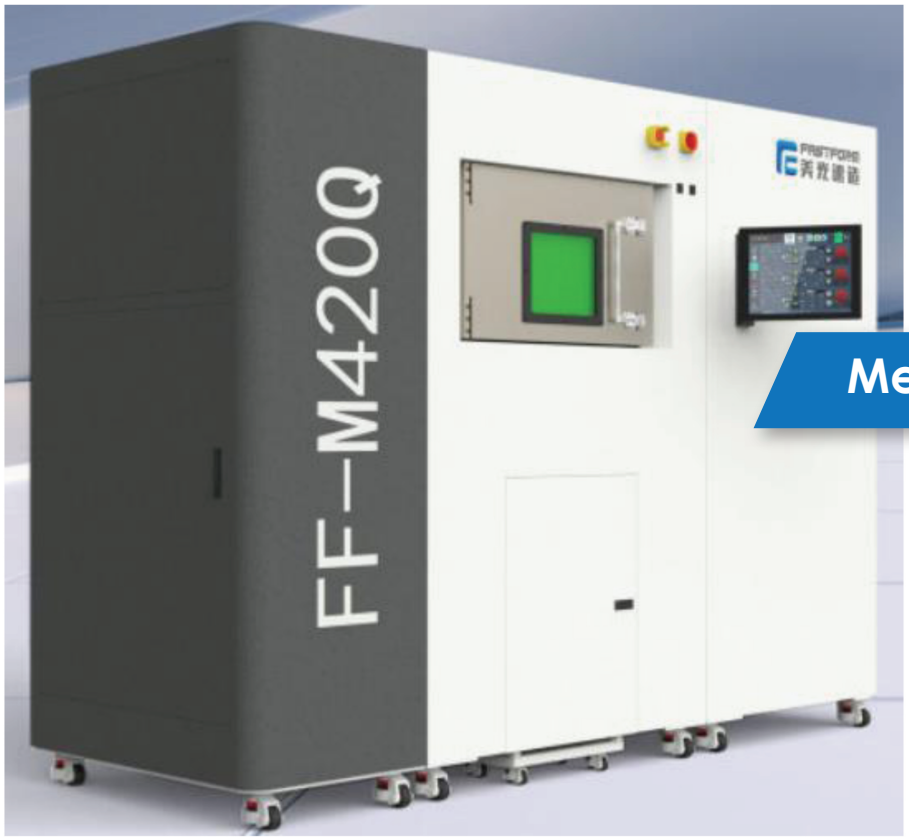
Metal 3D Printing Capacity



Metal 3D Printing

Product Model	FastForm FF-M300		
Print size	300 x 300 x 400mm (L x W x H)	Machine size	2705 x 990 x 2100mm(L x W x H)
Machine weight	120kg	Powder spreading method	powder feeding and two-way powder spreading
Preheat temperature	0-200°C	Laser type	fiber laser
Maximum power	10KW	Number of lasers	Double laser
Power supply type	three-phase 380V	Focused spot	0.05-0.2mm adjustable
Vibrating mirror type	grating type high-precision digital coding lens	Gas shield	argon nitrogen
Scanning speed	0-10m/s	Power spreading layer thickness	0.02-0.15mm
Circulatory system	0-2m³/min multi-layer air curtain protection	Z axis resolution	1μm
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		

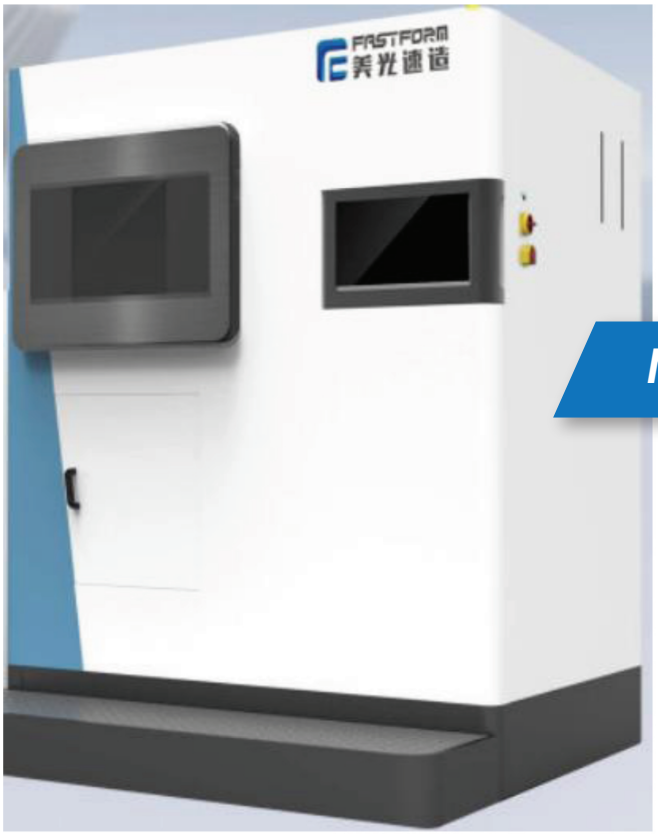
Metal 3D Printing Capacity



Metal 3D Printing

Product Model	FastForm FF-M420Q		
Print size	420 x 380 x 300mm (L x W x H)	Machine size	2780 x 1140 x 2200mm(L x W x H)
Machine weight	1600kg	Powder spreading method	powder feeding and two-way powder spreading
Preheat temperature	0-200°C	Laser type	fiber laser
Maximum power	15KW	Number of lasers	4,6 and 8 lasers are optional
Power supply type	three-phase 380V	Focused spot	0.05-0.2mm adjustable
Vibrating mirror type	grating type high-precision digital coding lens	Gas shield	argon nitrogen
Scanning speed	0-10m/s	Power spreading layer thickness	0.02-0.15mm
Circulatory system	0-5m³/min multi-layer air curtain protection	Z axis resolution	1μm
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		

Metal 3D Printing Capacity



Metal 3D Printing

Product Model	FastForm FF-M500		
Print size	300 x 500 x 400mm (L x W x H)	Preheat temperatire	0-200°C
Machine weight	1600kg	Powder spreading method	powder feeding and two-way powder spreading
powder spreading layer thickness	0.02-0.15mm	Laser type	fiber laser
Maximum power	15KW	Number of lasers	4,6 and 8 lasers are optional
Power supply type	three-phase 380V	Focused spot	0.05-0.2mm adjustable
Vibrating mirror type	grating type high-precision digital coding lens	Gas shield	argon nitrogen
Scanning speed	0-10m/s	Power spreading layer thickness	0.02-0.15mm
Circulatory system	0-5m^3/min multi-layer air curtain protection	Z axis resolution	1μm
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		

Metal 3D Printing Capacity

Metal 3D Printing

Product Model	FastForm FF-M500		
Print size	650 x 650 x 800mm (L x W x H)	Preheat temperatire	0-150°C
Machine weight	6000kg	Powder spreading method	powder feeding and two-way powder spreading
powder spreading layer thickness	0.02-0.15mm	Laser type	fiber laser
Maximum power	25KW	Number of lasers	4,6 and 8 lasers are optional
Power supply type	three-phase 380V	Focused spot	0.05-0.2mm adjustable
Vibrating mirror type	grating type high-precision digital coding lens	Gas shield	argon nitrogen
Scanning speed	0-10m/s	Power spreading layer thickness	0.02-0.15mm
Circulatory system	0-5m^3/min multi-layer air curtain protection	Z axis resolution	1μm
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		