APAC Headquarters

Eplus3D Tech Co., Ltd.

No. 118 Yanshankong Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, China, 311258

+86-571-83819589

info@eplus3d.com

www.eplus3d.com

EMEA Region

Eplus3D Tech GmbH

Pflugfelder Str. 23, 71636 Ludwigsburg, Germany

+49-7141-3888118

info@eplus3d.com

www.eplus3d.com

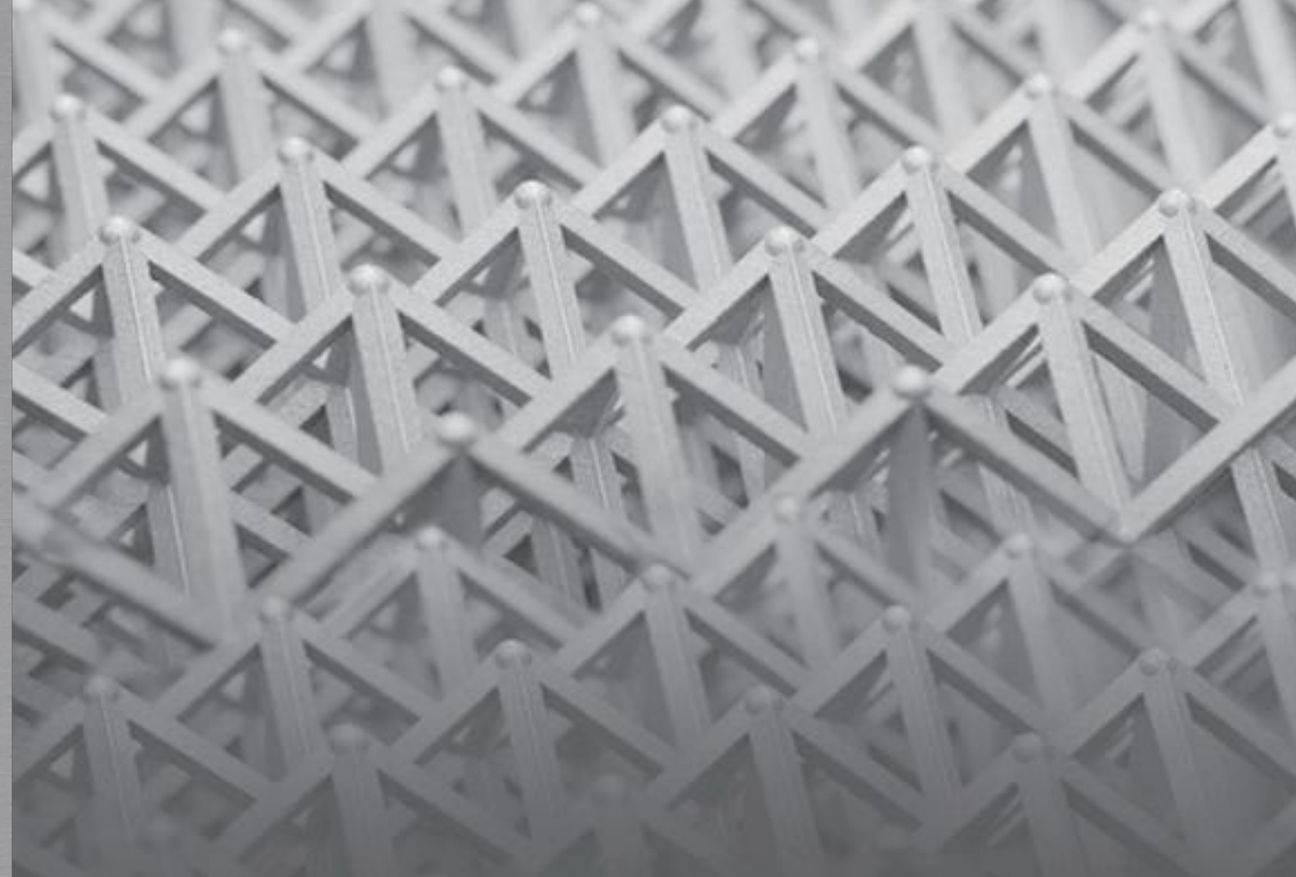
Americas Region

EPLUS 3D TECH INC

12425 W Airport Blvd, unit 201, Sugar Land, TX, 77478

info@eplus3d.com

www.eplus3d.com



POWER TO ADDITIVE INDUSTRY

We provide Additive Manufacturing Machines, the related Materials, Software Solutions and Consultation.

E-Plus-3D

CONTENT

OVERVIEW

Our Additive Manufacturing systems are installed all over the world. This includes more than 40 countires and regions such as Europe, Americas, Japan, South Korea and Southeast Asia.

Eplus3D has four facilities in Beijing, Hangzhou, Stuttgart and Houston, with an annual scientific research investment of more than 20% of the revenue with comprehensive invention patents, utility model patents, software copyrights as well as appearance patents. It has made great achievements in the design-, process-, software-, materials- and post-processing development for additive manufacturing.

Since founding the first SLS machine in China in 1993, Eplus3D has more than 30 years of AM technology experience and is engaged in research and development of industrial-grade Additive Manufacturing systems and application technologies using with MPBF™ (Metal Powder Bed Fusion) 3D printing technology.

Eplus3D provides professional application solutions for the fields of aerospace & aviation, energy, oil & gas, automotive, tooling, healthcare, consumer goods and precision manufacturing.

Eplus3D strives to bring you long-term success, from a professional start in industrial 3D Printing solutions to qualified system maintenance and globally available support. With power to additive industry, we aim to innovate the additive manufacturing from prototyping to direct production.

02 | EPLUS3D'S STRENGTHS

STRONG R&D BACKGROUND

Eplus3D has applied over 120 patents and has successfully passed the quality management system certification of ISO 9001: 2015, environmental management system certification of ISO 14001:2015 and the occupational health and safety management system certification of ISO 45001:2018.

Eplus3D’ s Intellectual Properties

33
Invention Patents

28
Utility Patents

14
Local Trademarks

29
Software Copyrights

15
Design Patents

9
International Trademarks

* until April 30, 2023

Certificate


Certificate of Management System Certification
This is to certify the quality management system of
EPLUS3D TECH (HANGZHOU) CO., LTD.
Is in conformity with
GB/T 19001-2016 / ISO 9001:2015
This certificate covers the following area
THE DESIGN, R&D (RESEARCH), PRODUCTION AND SALES SERVICE OF ADDITIVE MANUFACTURING EQUIPMENT(INCLUDES 3D (3 DIMENTION) DIGITALIZE AND 3D TECHNOLOGY)
Beijing Dahuangxing Quality Certification Center Co., Ltd.


Certificate of Management System Certification
This is to certify the environmental management system of
EPLUS3D TECH (HANGZHOU) CO., LTD.
Is in conformity with
GB/T 24001-2016 / ISO 14001:2015
This certificate covers the following area
THE DESIGN, R&D (RESEARCH), PRODUCTION AND SALES SERVICE OF ADDITIVE MANUFACTURING EQUIPMENT(INCLUDES 3D (3 DIMENTION) DIGITALIZE AND 3D TECHNOLOGY)
Beijing Dahuangxing Quality Certification Center Co., Ltd.


Certificate of Management System Certification
This is to certify the occupational health and safety management system of
EPLUS3D TECH (HANGZHOU) CO., LTD.
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This certificate covers the following area
THE DESIGN, R&D (RESEARCH), PRODUCTION AND SALES SERVICE OF ADDITIVE MANUFACTURING EQUIPMENT(INCLUDES 3D (3 DIMENTION) DIGITALIZE AND 3D TECHNOLOGY)
Beijing Dahuangxing Quality Certification Center Co., Ltd.

CORE TECHNOLOGY

With 30+ years of experience accumulation in additive manufacturing, Eplus3D’ s core technical team has been engaged in manufacturing and process research and development of AM systems. Eplus3D’ s professional AM solutions have been widely applied in aerospace & aviation, energy, oil & gas, automotive, tooling, healthcare, consumer goods and precision manufacturing.

The combination you need:

Multiple Core Technologies of Metal 3D Printing

Eplus3D has developed multiple core technologies of metal 3D printing, covering laser scanning path planning, protective gas control, its rapid purification with two-stage filtration system, gas saving, efficient powder spreading, precise positioning of substrates, precise temperature control, diagnosis and processing of manufacturing process, etc.

Manufacturing Technology of High-performance Metal Part

With consistency of multi-laser beam path and power, special design of wind field, mechanical performance fluctuation control and parameter matching, Eplus3D metal AM machines can realize splicing accuracy and high quality performance.

Defect Prediction and Control of Large-scale Complex Components

Eplus3D establishs a multi-scale prediction model of internal residual stress of components based on thermal-mechanical coupling and develops control methods for deformation and cracking of components with research on temperature field, velocity field, molten pool and analysis of internal microstructure and metallurgical defect formation mechanism and control methods.

Process Integration and Optimization of Material-Design-Performance

Combining AM technology, generative design, simulation analysis and empirical mechanical performance, Eplus3D realizes high-quality manufacturing of high-performance complex metal parts, engineering plastic parts and shock-absorbing elastic products.

Automation and Intellectualization of AM Machines

Based on quality control requirements and industry application scenarios, Eplus3D develops software and hardware supported by sensors, controllers and intelligent algorithms to achieve smooth interaction, efficient processing, safety and reliability.

Material Development and Delivery Standardization

Eplus3D develops appropriate material database, technological parameter and technical development path based on additive manufacturing technology and machine performance, provides users with mature material parameter packages to quickly form reliable production capacity and achieve unified delivery standards.

INDEPENDENT SOFTWARE

From data preparation and printing control to monitoring, Eplus3D printing software covers every process step and quality assurance for additive manufacturing. Eplus3D printing software solution ensures more productive and efficient when using additve manufacturing.

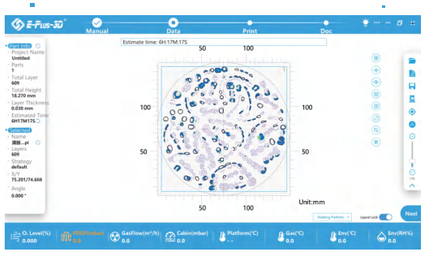
01 Data Preparation

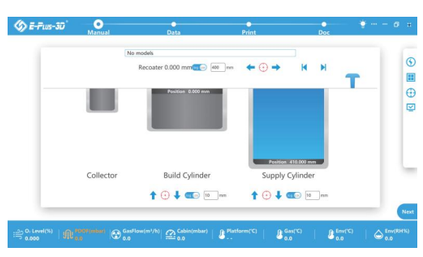
With Eplus3D printing software solution data preparation, you can make your first steps in additive manufacturing as efficient as possible. The software enables you to assign and optimize process parameters for industrial 3D printing on Eplus3D additive manufacturing machines effectively. We have our own developed EPHatch software for path planning but also have integration in the softwares as seen below.

VOXELDANCE · SIEMENS Ingenuity for life · materialise · CADS Additive Print better. · OQTON

02 Printing Control Software

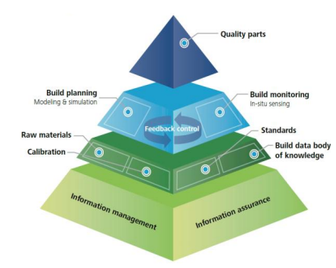
Every AM machine manufactured by Eplus3D will be equipped with Eplus3D Control Software independently developed. New UI design with a touchable screen and easy operation.





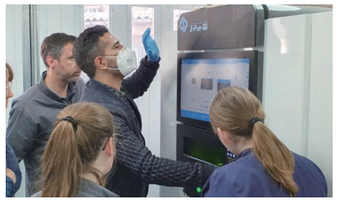
03 Monitoring & Quality Assurance

For real-time monitoring of the laser-based metal powder bed fusion process, Eplus3D provides users with quality control solutions driven by process data.



VALUE-ADDED SERVICE

Eplus3D provides one-stop service from AM machines, materials, softwares and value-added services, covering technical service, training service and aftersale service.

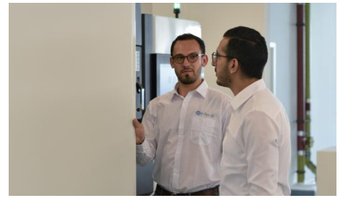


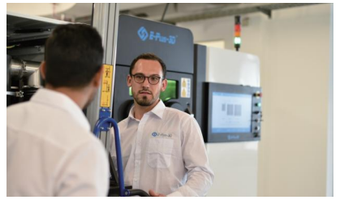
Technical Service

Eplus3D provides commissioning system performance, covering on-site installation, machine calibration, printing process monitoring and printed parts testing.

Training Service

Eplus3D provides on-site and remote training service to transfer know-how to our customers, covering system operation training, quality control service, basic & advanced level training, software training and application training. After each training, you will be entitled to fully operate our AM machines with a training certificate from Eplus3D.





After-sale Service

Eplus3D provides a complete after-sale service for the customers to ensure stability and maintenance, covering troubleshooting & maintenance, remote service, online support, local spare parts supply, AM technology consulting and application consulting.

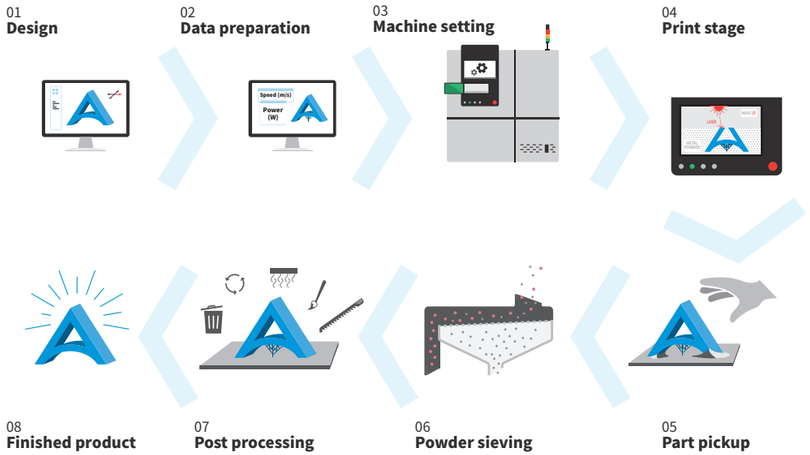
03 | PRODUCTS & SERVICE

METAL POWDER BED FUSION MACHINES

Eplus3D provides advanced metal additive manufacturing solutions to bring higher productivity, product quality and working efficiency for enterprises as well as small businesses, including aerospace, automotive, tooling, healthcare, dental, consumer products, education, and others.

Metal Powder Bed Fusion (MPBF™)

EP-M150 Dental	EP-M150	EP-M150 Pro	EP-M260
EP-M300	EP-M400	EP-M450	EP-M450H
EP-M650	EP-M650H	EP-M825	EP-M1250



EP-M150 Dental

Compact & Entry System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	Φ 150 x 100 mm (Φ 5.91 x 3.94 in) (height incl. build plate)
Optical System	Fiber Laser, 200 W (single or dual-laser optional)
Spot Size	40 - 60 μm
Max Scan Speed	8 m/s
Building Speed	Single laser : 5~20 cm^3/h Dual laser : 8~35 cm^3/h
Layer Thickness	20 μm - 50 μm
Material	Titanium Alloy, Cobalt Chrome
Power Supply	220 V, 2.5 KW, 14 A, 50 ~ 60 Hz （Dual Laser: 3.5 KW, 19 A）
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	1750 x 810 x 2190 mm
Weigh	900 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Industrial, Healthcare, Education, Dental, Scientific Research

Metal 3D Printer

EP-M150

Compact & Entry System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	Φ 150 x 140 mm (Φ 5.91 x 5.51 in) (height incl. build plate)
Optical System	Fiber Laser, 200 W / 500 W (single or dual-laser optional)
Spot Size	40 - 60 μm
Max Scan Speed	8 m/s
Building Speed	Single laser : 5~20 cm^3/h Dual laser : 8~35 cm^3/h
Layer Thickness	200 W laser : 20 μm -50 μm, 500 W laser : 20 μm -100 μm
Material	Titanium Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	220 V, 3 KW, 14 A, 50~60 Hz (Dual laser : 5.8 KW, 19 A)
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	1750 x 799 x 1828 mm
Weigh	900 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Industrial, Healthcare, Education, Dental, Scientific Research

EP-M150Pro

Industrial Production System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

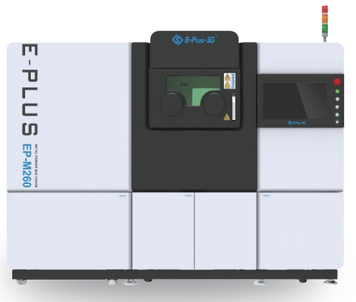
FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	Φ 150 x 225 mm (Φ 5.91 x 8.86 in) (height incl. build plate)
Optical System	Fiber Laser, 500 W (single or dual-laser optional)
Spot Size	70 µm
Max Scan Speed	8 m/s
Building Speed	Single laser : 5~20 cm^3/h, Dual laser : 8~35 cm^3/h
Layer Thickness	20 µm -100 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 3P / N / PE, 12 KW, 23 A, 50 ~ 60 Hz (Dual Laser : 13.5 KW，28 A)
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	1750 x 810 x 2190mm^3
Weight	1500 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Industrial, Healthcare, Education, Dental, Scientific Research



EP-M260

Flexible Production System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	260 x 260 x 390 mm (10.24 x 10.24 x 15.35 in) (height incl. build plate)
Optical System	Fiber Laser, 500 W / 700 W (single or dual-laser optional)
Spot Size	70 - 100 µm
Max Scan Speed	8 m/s
Building Speed	Single Laser: 15 ~ 35 cm^3/h, Dual Laser: 25 ~ 55 cm^3/h
Layer Thickness	20 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 8.5 KW, 24 A , 50 / 60 Hz（Dual Laser: 12 KW, 30 A ）
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	2800 x 1315 x 2408 mm
Weight	2300 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Healthcare

EP-M300

Highly Productive System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

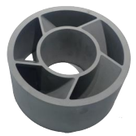
FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	300 x 300 x 450 mm (11.81 x 11.81 x 17.72 in) (height incl. build plate)
Optical System	Fiber Laser, 500 W / 1000 W (single or dual-laser optional)
Spot Size	71 - 120 µm
Max Scan Speed	8 m/s
Building Speed	Single Laser : 15 ~ 35 cm^3/h, Dual Laser : 25 ~ 63 cm^3/h
Layer Thickness	20 µm - 120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 10kW, 28 A, 50 / 60 Hz（Dual Laser: 8 KW, 31 A）
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	2984 x 1300 x 2624 mm
Weight	2900 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Mold, Healthcare


EP-M400

Large Size & High Speed & Cost-Effective System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	400 x 400 x 450 mm (15.75 x 15.75 x 17.72 in) (height incl. build plate)
Optical System	Fiber Laser 500 W / 2 x 500 W / 4 x 500 W
Spot Size	71 - 120 µm
Max Scan Speed	8 m/s
Building Speed	15 ~ 35 cm^3/h
Layer Thickness	200 W laser : 20 µm -50 µm, 500 W laser : 20 µm -100 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 38 A, 13.9 kW, 50 / 60 Hz
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	4300 x 3945 x 3785 mm
Weight	5000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Healthcare



EP-M450

Highly Stable & Productive System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	450 x 450 x 550 mm (17.72 x 17.72 x 21.65 in) (height incl. build plate)
Optical System	Fiber Laser 500 W / 2 x 500 W / 4 x 500 W (700 W and 1000 W are optional)
Spot Size	71 - 130 µm
Max Scan Speed	8 m/s
Building Speed	15~35 cm^3/h
Layer Thickness	20 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 45 A, 10 kW, 50 / 60 Hz
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	5410 x 3210 x 3090 mm
Weight	10000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Healthcare

EP-M450H

Large Format Production System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	450 x 450 x 1080 mm (17.72 x 17.72 x 42.52 in) (height incl. build plate)
Optical System	Fiber Laser 500 W / 2 x 500 W / 4 x 500 W (700 W and 1000 W are optional)
Spot Size	71 - 130 µm
Max Scan Speed	8 m/s
Building Speed	15~35 cm^3/h
Layer Thickness	20 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 15 kW, 52 A, 50 / 60 Hz
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	5820 x 4685 x 4850 mm
Weight	15000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Mold, Healthcare

EP-M650

Quad Laser Metal AM System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	650 x 650 x 800 mm (25.59 x 25.59 x 31.49 in) (height incl. build plate)
Optical System	Fiber Laser 4 x 500 W / 4 x 700 W / 4 x 1000 W
Spot Size	71 - 120 µm
Max Scan Speed	8 m/s
Building Speed	120 cm^3/h
Layer Thickness	80 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V, 64 A, 31 kW, 50 / 60 Hz
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	5738 x 2998 x 3816 mm
Weight	15000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Mold

EP-M650H

Quad Laser Large Size Metal AM System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

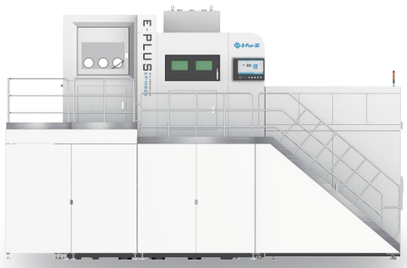
FDA Laser safety registration

Parameter

Build Volume (X x Y x Z)	650 x 650 x 1080 mm (25.59 x 25.59 x 42.52 in) (height incl. build plate)
Optical System	Fiber Laser 4 x 500 W / 4 x 700 W / 4 x 1000 W
Spot Size	71 - 120 µm
Max Scan Speed	8 m/s
Building Speed	Up to 120cm^3/h
Layer Thickness	20 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc.
Power Supply	380 V，70 A, 20 kW，50 / 60 Hz
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	7200 x 3950 x 4900 mm
Weight	20000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Mold



EP-M825

Ten Laser Large Format Metal AM System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

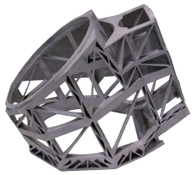
FDA Laser safety registration

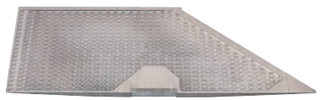
Parameter

Build Volume (X x Y x Z)	833 x 833 x 1100 mm (32.8 x 32.8 x 43.3 in) (height incl. build plate)
Optical System	Fiber Laser 4 x 500 W / 6 x 500 W / 8 x 500 W / 10 x 500 W
Spot Size	71 - 120 µm
Max Scan Speed	8 m/s
Building Speed	up to 250 cm^3/h
Layer Thickness	20 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, etc
Power Supply	380 V, 50 / 60 Hz, 25~38 kW
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	8215 x 4680 x 5850 mm
Weight	35000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Mold





EP-M1250

Nine Laser & Largest Metal AM System

GB/T 45001-2020 / ISO 45001:2018
GB/T 24001-2016 / ISO 14001:2015
GB/T 19001-2016 / ISO 9001:2015

Machinery Directive Certification
Electro Magnetic Compatibility

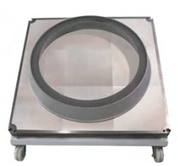
FDA Laser safety registration

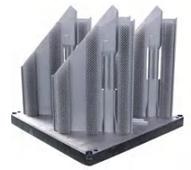
Parameter

Build Volume (X x Y x Z)	1250 x 1250 x 1350 mm (49.21 x 49.21 x 53.15 in) (height incl. build plate)
Optical System	Fiber Laser 9 x 500 W / 700 W / 1000 W
Spot Size	71 - 120 µm
Max Scan Speed	8 m/s
Building Speed	240 cm^3/h
Layer Thickness	20 µm -120 µm
Material	Titanium Alloy, Aluminum Alloy, Nickel Alloy, Maraging Steel, Stainless Steel, Cobalt Chrome, Copper Alloy, etc
Power Supply	380 V，100 A, 40 kW，50 / 60 Hz
Gas Supply	Ar / N_2
Oxygen Content	⩽100 ppm
Dimension (W x D x H)	9000 x 4800 x 6300 mm
Weight	50000 kg
Software	EP Control, EP-Hatch
Input Data Format	STL or other Convertible File

Application Area

Aerospace, Tooling, Automotive, Engine, Electronics, Mold





MPBF ACCESSORIES

• Powder Dry Oven

The powder may gain moisture when the storage condition is of high humidity, this may affect the powder flowability then lead to the degradation of printing quality. The powder dry oven is used to dry the metal powder in a small vacuum.

• Nitrogen Generator

The nitrogen generator is for producing nitrogen gas in order to inert the atmosphere in the metal printer.

• Vacuum Cleaner

The vacuum cleaner is used for cleaning the build chamber as well as any dust and waste powder. The vacuum cleaner works as a wet separator and is ATEX approved.

• Powder Conveyor

The powder collecting machine is used to collect the metal powder from the printing platform as well as from the powder collecting tank of the metal printer.

• Sieving Machine EP-MS400

The sieving machine is used for powder sieving. After sieving, the metal powder can be reused in the next printing job.

• Sieving Machine EP-MS500

The sieving machine is used for powder sieving. After sieving, the metal powder can be reused in the next printing job. This sieving system offers the automatic extraction of large particles into a separate bin. Therefore, continuous sieving without interruption is guaranteed. The machine uses oscillating movement of the sieve as well as ultrasonic for the best sieving speed.

• Ultrasonic Sieving Machine EP-MS600

This product is mainly used for sieving all metal powder, the sieving process will filter out the big particles like weld splatters and fumes generated in the printing process, the powder can be reused after sieving.

• Automatic Powder Feeding System

It is mainly used for automatic powder feeding for large-size metal 3d printer.

• Closed Loop Sieving Tower

It is used to collect, sieve and feed the powder to realize the closed loop.

• Powder Cleaning Station

The parts that are still fixed on the buildplate after removing them from the machine can be cleaned in this equipment. It is usually used for parts from large size machinery.

METAL MATERIALS

Eplus3D metal printers are available from entry-level models to muti-laser machines for additive production at industrial grades. We also provide advanced processes industrial metal 3D printing with the most various metal material compatible, including aluminum ally, titanium alloys, cobalt chrome, nickel based alloys, stainless steel, tool steels, copper alloy, and other micro grade metal powders.

Select from our quality controlled 3D materials from our material expertise. We are happy to support you in finding the right material that helps you achieve your design, development and industrial production targets.

·Nickel Alloys

HX/2.4665			
Typical Part Properties			
Tensile Strength	XY:930MPa; Z:677±5MPa	Elongation @ Break	XY:29±2%; Z:45.5±0.5%
Yield strength	XY:732±5MPa; Z:547±5MPa		

IN625/2.4856			
Typical Part Properties			
Density	8.4 (g/cm^3)	Elongation @ Break	22±2%
Tensile Strength	XY:1080±30MPa; Z:970±30MPa	Hardness	32±3HRC
Yield strength	XY:880±20MPa; Z:790±20MPa		

IN718/2.4668			
Typical Part Properties			
Density	8.1 (g/cm^3)	Elongation @ Break	25±3%
Tensile Strength	XY:1060±30MPa; Z:990±30MPa	Hardness	27±2HRC
Yield strength	XY:750±50MPa; Z:720±50MPa		

· Aluminum

AlSi10Mg/3.2382			
Typical Part Properties			
Density	2.65 (g/cm^3)	Elongation @ Break	8±2%
Tensile Strength	XY:460±20MPa; Z:460±20MPa	Hardness	55±5HRB
Yield strength	XY:300±20MPa; Z:280±20MPa		

AlSi7Mg			
Typical Part Properties			
Tensile Strength	423±5MPa; Z:499MPa	Elongation @ Break	12.5±0.5%
Yield strength	270±5MPa; Z:287MPa		

·Stainless Steel

316L/1.4404			
Typical Part Properties			
Density	7.85 (g/cm^3)	Elongation @ Break	30±5%
Tensile Strength	XY:720±40MPa; Z:690±30MPa	Hardness	87±3HRB
Yield strength	XY:670±30MPa; Z:670±50MPa		

17-4PH/1.4542			
Typical Part Properties			
Density	7.8 (g/cm^3)	Elongation @ Break	21±3%
Tensile Strength	XY:960±30MPa; Z:860±30MPa	Hardness	35±3HRB
Yield strength	XY:910±30MPa; Z:830±30MPa		

·Maraging Steel

13Ni400			
Typical Part Properties			
Density	8.9 (g/cm^3)	Elongation @ Break	XY:13.75±1.75%; Z:11.25±1.25%
Tensile Strength	XY:1397±27MPa; Z:1249.5±39.5MPa	Hardness	44.25±0.25HRB
Yield strength	XY:1252.5±27.5MPa; Z:1117.5±84.5MPa		

·Cobalt Chrome

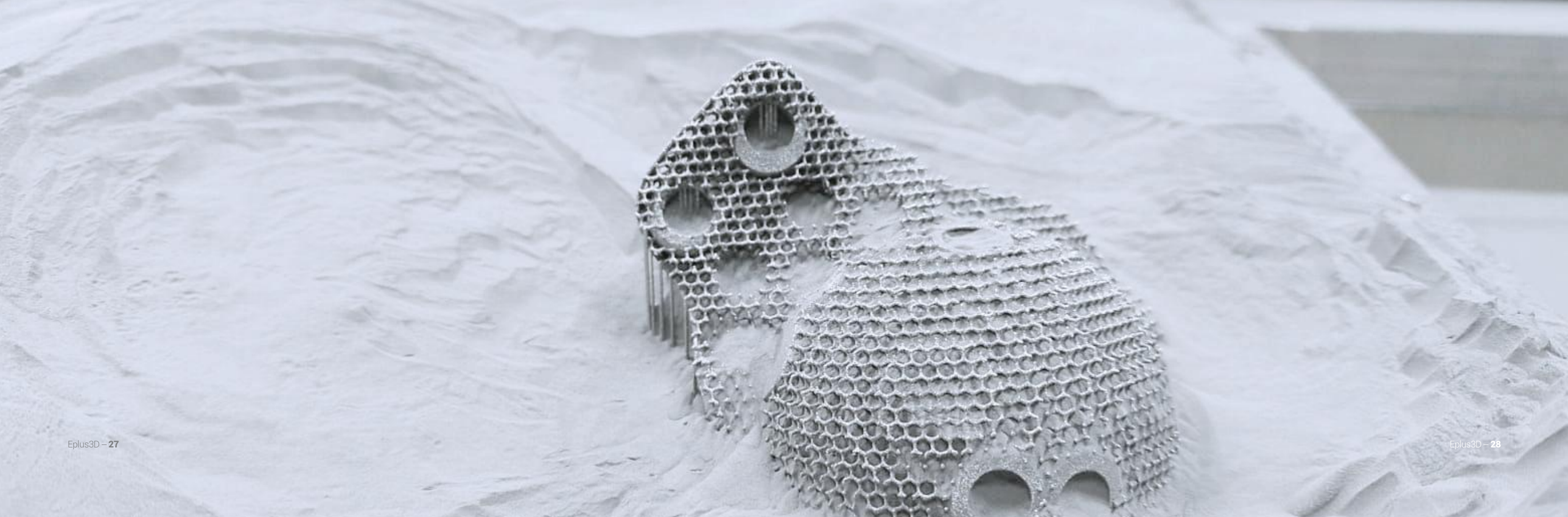
F75 / 2.4979			
Typical Part Properties			
Density	8.3 (g/cm^3)	Elongation @ Break	6±2%
Tensile Strength	XY:1310±20MPa; Z:1010±30MPa	Hardness	38±5HRC
Yield strength	XY:1030±20MPa; Z:790±30MPa		

·Titanium

Ti6Al4V/3.7165			
Typical Part Properties			
Density	4.4 (g/cm^3)	Elongation @ Break	12±2%
Tensile Strength	XY:1230±50MPa; Z:1190±50MPa	Hardness	36±4HRC
Yield strength	XY:1080±50MPa; Z:1070±80MPa		

·Copper

CuSn			
Typical Part Properties			
Density	8.5 (g/cm^3)	Elongation @ Break	17±4%
Tensile Strength	XY:490±30MPa; Z:380±20MPa	Hardness	74±4HRC
Yield strength	XY:400±40MPa; Z:340±30MPa		



04 | ENTERPRISE BACKGROUND

ENTERPRISE HISTORY

2014

Eplus3D Tech Co., Ltd. is established.

2017

Eplus3D passed the test and acceptance of development and sales of 3d printing sole technology, 3d printing tooling technology and 3d printing medical rigid organ technology as well as non-metallic equipment.

2021

Eplus3D established a new subsidiary in Stuttgart, Germany, to better serve European customers and partners.

2023

Eplus3D established a new subsidiary in Houston, USA

1993

First SLS Machine in China

2016

Eplus3D established a production center in Beijing and took the lead in undertaking national project of “R&D of Large-size Powder Bed SLM Additive Manufacturing Technology and Equipment”.

2019

Eplus3D successfully launched first Quad Laser Large Size Metal Additive Manufacturing System EP-M650.

2022

Eplus3D moved into new headquarter to accommodate business growth on metal 3D printing.

TECHNOLOGIES & BUSINESS SCOPE

Eplus3D is a professional additive manufacturing equipment manufacturer and application solution provider, especially in the field of metal 3D printers. We have a comprehensive leading industrial 3D printing technology and the advantage of coste ffectiveness.

Eplus3D provides one-stop service solution to our partners. We focus on Additive Manufacturing Machines, Material, Software and Service.

One-stop Solution

Additive Manufacturing Machines	Additive Manufacturing Material
Software Solution	3D Consultation Service

GLOBAL OFFICES

Houston, USA (AMERICAS)

- Showroom with small and mid-size systems
- Application development
- Warehouse with all consumables and spare parts

Ludwigsburg, Germany (EMEA)

- Located in Ludwigsburg
- Over 600 m² in the city center
- Sales & Technical service center in Europe

Hangzhou, China (HQ & APAC)

- Located in Hangzhou
- Workshop & office Space
- Over 23000 m²
- No. 118 Yanshankong Road, Xiaoshan District, Hangzhou

Beijing, China (Domestic Sales Center)

- Located in Beijing City Center
- Sales & Technical service center

FOOTPRINT

Eplus3D services have been chosen and recognized by 3000+ global clients and its AM machines have been exported to more than 40 territories, covering Europe, America, Japan, South Korea and Southeast Asia, etc.

3000+ Clients

40+ territories

800+ Machines

50+ Agents

GET FREE TECHNICAL CONSULTATION NOW!

1. Tell our expert engineer your thought of application.

2. Choose the additive manufacturing system and material.

3. We will analyze your 3d models, and you'll get application case study or white paper to meet your needs.

4. Keep paying attention to Eplus3D and never miss a chance to get a benchmark.