E-Plus-3D

EP-P280

SELECTIVE LASER SINTERING POLYMER 3D PRINTER

EP-P280

EP-P280 adopts polymer powder bed fusion (PPBF) technology, with max up to 280 x 280 x 350 mm^3 building cylinder, EP-P280 ensures you the capability to print small & medium size parts for customized products and small batch production. Thanks to its innovative software and hardware, the EP-P280 is well designed user-friendly and cost-effective.

High Performance

· Optimized temperature real-time management system, temperature filed fluctuation ⩽ ±1.0 °C.
· Advanced optical scanning path strategy, ensures superior details and surface quality of final parts.
· Up to 220 °C building temperature, the machine is allowed to print more types of polymers.
· Discrete variation of mechanical properties for full-scale printing parts is less than 5%.
· High material reuse rate, fresh powder drops to 30% of refreshment rate.

High Efficiency

· With 55 w laser power, the machine has higher printing speed.
· Detachable optical protective windows, makes daily maintenance easy.
· Open printing parameters, enables the development of new material.
· Distinctive scanning strategy, saves the scanning time.
· Unique no-remaining material design, improves the utilization rate of powder.
· Large volume powder dispenser, one time feeding to meet the whole cylinder printing.

User-Friendly & Intelligent

· One-click scanning path generation.
· Capability to print with one-click.
· Printing report automatic generation, the printing process can be tracked.
· Malfunction automatically process, avoids damage to the equipment.

Auxiliary Equipment Optional

Powder clean platform, sand blaster, powder mixer, fork truck, vacuum cleaner.

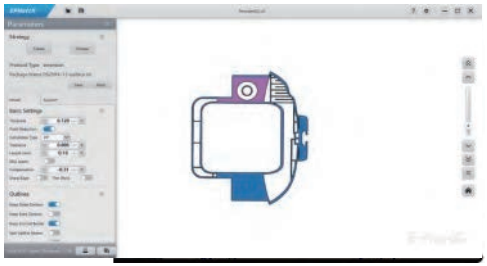
Other Optional Accessories

Detachable forming cylinder, detachable optical protective windows.

Eplus3D Software Solutions

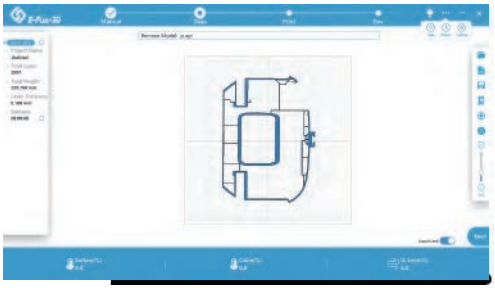
EP-Hatch Printing Process Planning Software

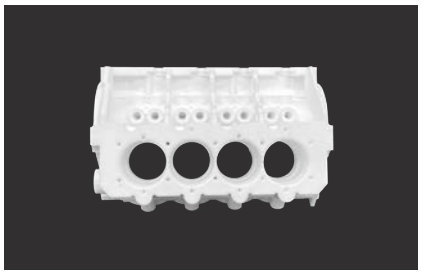
EP-Hatch is a process planning software independently developed by Eplus3D for its additive manufacturing systems. It can optimize the printing path based on the data that has been sliced and output, and set the scanning path separately for contour, interior, upper and lower surface of the part. In addition, EP-Hatch comes standard with a variety of advanced scanning strategies like long straight lines, short straight lines and checkerboards for the user, enables an optimal process setting for specific materials.

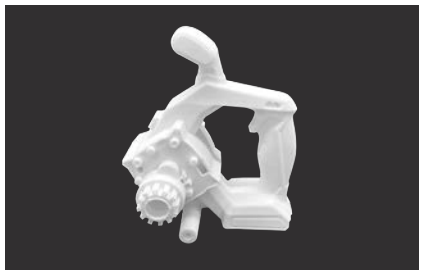


EPlus3D Control Software

Eplus3D control software is a powerful control system independently developed by Eplus3D for its additive manufacturing systems, with open and friendly interface, it enables our users to manage their digital files easily from build preparation and parts positioning all the way to in build monitoring and reports generation. It is a powerful control and operating system for mature materials printing, as well as new materials development.







EP-P280 PARAMETER

Machine Model	EP-P280
Building Chamber Size	280 x 280 x 350 mm^3 (L×W×H)
Dimension	1830 x 1277 x 2116 mm^3 (L×W×H)
Material	PS, TUP, PA11, PA12 and its composites
Machine Weight	1600 kg
Scanning Speed	Max. 10 m/s
Max. Chamber Temperature	220 °C
Power Supply	AC 380 V, 63 A, 11.5 KW, 50/60 Hz
Layer Thickness	0.06 - 0.3 mm
Laser Power	CO_2 laser，55 W
Building Speed	1500 ml/h
Gas Supply	N_2
Thermal Field Control	Independent four-zone temperature control system
Temperature Regulation	Continuous real-time building surface temperature monitoring
Control Software	Eplus3D Printing Software
Output Data Format	STL, OBJ, STEP or other convertible file

Notice：Eplus3D reserves the right to explain any alteration of the specifications and pictures.