

AM- ε^3 150C-HT

Ideal for research and development of new materials

A compact AM System with a proven track record of research and development of new materials

Material development
for PBF AM System

High-definition
modeling

Many research
achievements

Active in universities and research institutes

The small build area and small amount of material required make it ideal for research and development of new materials.

Fine shapes can be reproduced

It is now possible to narrow the beam diameter of a CO2 laser to $\Phi 0.28$ mm, enabling even higher-resolution printing of fine parts for mobile phones, electronic devices, and other devices.

Material development support

At our Technical Center, you can carry out modeling experiments using materials brought in by you. Our staff will provide full support from the experiment to reporting the results.

All our genuine materials can be used

Materials can be easily changed using cartridges, so a wide variety of models can be created with a single device, from general-purpose resins to super engineering plastics.



Specification

Machine (mm) *1	W1300 × D900 × H1610
Machine weight	600kg
Chiller	43kg × 2 units
Power supply	3 phase AC200V ± 10% 30A 50/60Hz
Power consumption	9kVA
Environment	Room temperature 18~24°C(within ± 2°C range during machine operation) Humidity under 70%
Application software	Original software
Data format	STL Data format
Accessories	●Chiller x 2 units
Ancillary equipment	●N2 supply device ●Deodorizing device ●Blaster ●Material mixer ●Shifter ●Air compressor ●Dust collector ●Explosion proof vacuum cleaner ● Oxygen concentration alarm
Optional	●Thermal image sensor ●Automatic material recycling equipment ●Touch Pannel
Possible parts placement range	134mm × 134mm × 195mm
Actual parts size(XYZ)	130mm × 130mm × 190mm
Laser beam	CO2 Laser 100W Φ0.28mm
Laser beam scanning	Digital Galvanometer mirror method / Selectable for scanning pattern
Maximum scanning speed	5m/sec
Maximum process temperature	280°C

*1 Do not include PC ・ Signal light ・ N2 piping.



Material

ASPEX-PPS	ASPEX-PPS+GB	ASPEX-PPS+CF	ASPEX-PPS+GF
○	○	○	○
ASPHIA-PA6 + GF	ASPEX-PFA		
○	○		
ASPEX-PA	ASPEX-PA2Neo	ASPEX-GB	ASPEX-GB2Neo
○	○	○	○
ASPEX-PA2FR	ASPEX-FPA	ASPEX-PBT	ASPHIA-PP
○	○	○	○
ASPEX-POM			
○			