

AM- ε^3 550C-HT

Largest work size of *AM- ε^3*
550 × 550 × 540mm

Can be placed parts over a wide range due to precise temperature control

Maximum process
temperature
280°C

Largest
work size

Maximum laser
scanning speed
20m/sec

Capable for Super Engineering Plastics

八十島 10/5発

- Maximum process temperature is up to 280°C
- Capable with 3D printing for high melting materials, such as PPS and PFA

Laser Beam Diameter $\Phi 0.48\text{mm}$

Fine shape can be printed with large machine size, by $\Phi 0.48\text{mm}$ laser beam diameter of high resolution.

Can be printed over a wide range of areas

Can be placed parts over a wide range due to precise temperature control and stable temperature distribution

Significantly improve for productivity

Can be significantly reduced cool-down time in machine chamber by using optional cooling box unit which bring production efficiency



Specification

Machine size (mm) *1	W2300 × D1730 × H2490
Machine weight	2.5 ton
Chiller	43kg × 2 units
Power voltage	3 phase AC200V ± 10% 100A 50/60Hz
Power Consumption	24kVA
Environment	Room temperature 18~24°C(within ± 2°C rage during machine operation) Humidity under 70%
Application software	Original software
Data format	STL data format
Accessories	●BOS(Breakout station) ●Lifter ●Feed cartridge ●Chiller × 2 units ●Part cartridge
Ancillary equipment	●N2 supply device ●Deodorizing device ●Blaster ●Material mixer ●Shifter ●Air compressor ●Explosion proof vacuum cleaner ●Dust collector ●Oxygen Concentration alarm
Optional	●Thermal image sensor ●Automatic material recycling equipment ●Semi-automatic breakout equipment ●Cooling Box unit ●Feed cartridge ●Part cartridge
Possible parts placement range	500mm × 500mm × 510mm
Actual parts size(XYZ)	480mm × 480mm × 500mm
Laser beam	CO2 Laser 100W Φ0.48mm
Laser beam scanning	Digital Galvanometer mirror method/ Selectable for scanning pattern
Maximum scanning speed	20m/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			
○			