

Large Size PBF AM System

AM- ε^3 550C

Utilized in the several industrial application fields

Large parts can be built in one piece.

Fine shapes can be achieved by narrowing down the beam diameter.

Large parts
one-piece
modeling

Improved
productivity

Stable printing
environment

Work size that allows even large parts to be built in one-piece

Possible to handle one-piece built of large parts and mass production of small parts with 550mm × 550mm × 520mm work size.

Compatible with various materials With one machine

Since materials can be easily changed using cartridges, it is possible to print various Materials with one machine.

Improve machine utilization rate with cooling box equipment

The cooling process can be moved to an optional cooling box equipment, improve machine utilization rate.

Equipped with a dedicated optical system

Although it is a large size machine, the beam Diameter is $\Phi 0.48\text{mm}$.

It is possible to narrow down and achieve even minute shapes.



Specification

Machine size (mm) *1	W2120 × D1560 × H2380
Machine weight	2 Ton
Chiller	43kg x 1 unit
Power voltage	3 phase AC200V ± 10% 50A 50/60Hz
Power consumption	15kVA
Environment	Room temperature 18~24°C(within ± 2°C range during machine operation) Humidity under 70%
Application Software	Original software
Data formant	STL data format
Accessories	●BOS(Breakout station) ●Lifter ●Feed cartridge ●Chiller × 1 unit ●Part cartridge
Ancillary equipment	●N2 supply device ●Blaster ●Material mixer ●Shifter ●Air compressor ●Explosion proof vacuum cleaner ●Dust collector ●Oxygen Concentration alarm
Optional	●Automatic material recycling equipment ●Semi-automatic breakout equipment ●Cooling Box unit ●Feed cartridge ●Part cartridge
Possible parts placement range	500mm × 500mm × 490mm
Actual parts size(XYZ)	480mm × 480mm × 480mm
Laser beam	CO2 Laser 100W Φ0.48mm
Laser beam scanning	Digital Galvanometer mirror method/ Selectable for scanning pattern
Maximum scanning speed	20m/sec

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



Material

<i>ASPEX</i> -PPS	<i>ASPEX</i> -PPS+GB	<i>ASPEX</i> -PPS+CF	<i>ASPEX</i> -PPS+GF
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ASPHIA-PA6 + GF	<i>ASPEX</i> -PFA		
—	—		
<i>ASPEX</i> -PA	<i>ASPEX</i> -PA2Neo	<i>ASPEX</i> -GB	<i>ASPEX</i> -GB2Neo
○	○	○	○
<i>ASPEX</i> -PA2FR	<i>ASPEX</i> -FPA	<i>ASPEX</i> -PBT	ASPHIA-PP
○	○	○	○
<i>ASPEX</i> -POM			
○			