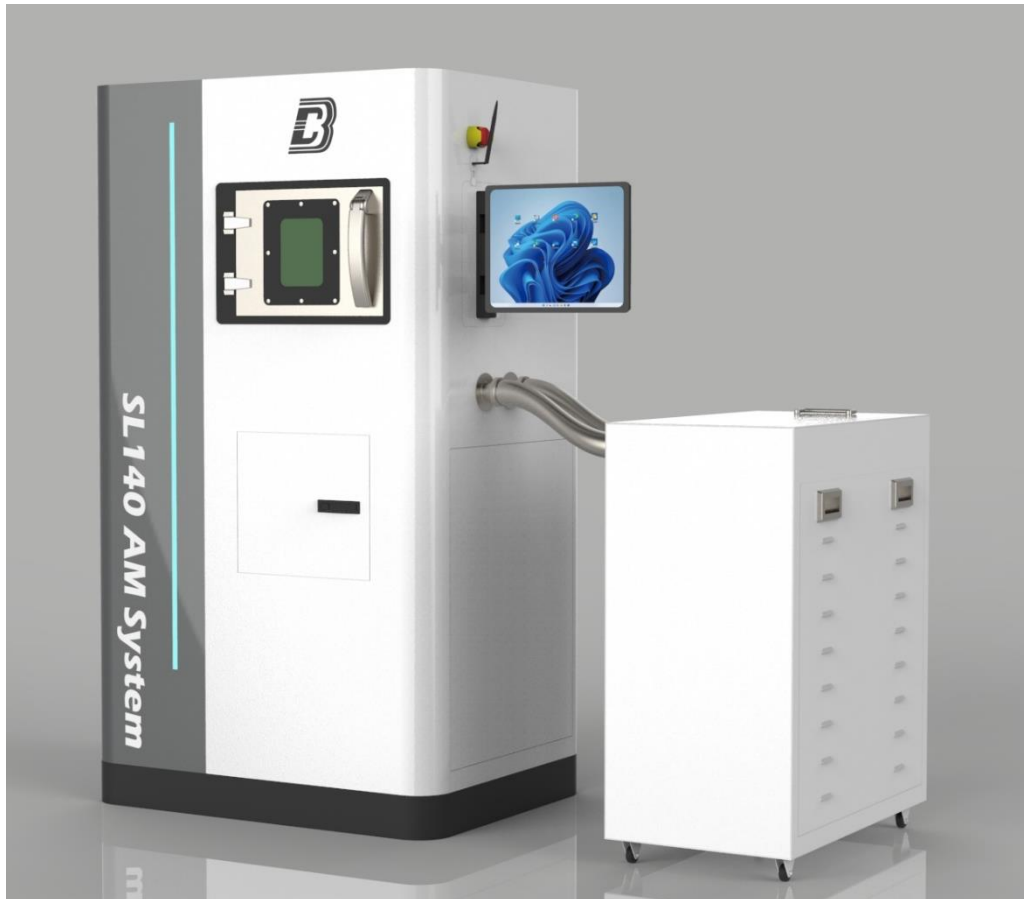


SL140/180

High-End Metal 3D printer (SLM)

**Key Feature**

- Single high power 500W Fiber lasers
- More metal powder materials supported
- 50-120um dynamic focus spot with high speed monochromator
- 20-100um slicing layer thickness
- Max print part size: 140*140*140mm(including substrate)
180*180*180mm(including substrate)
- Manual powder-feeding system
- Uni-directional powder spreading, improve printing efficiency
- Using Argon, Nitrogen to avoid oxidation, auto adjust fan speed
- Best choice of Medical/healthcare/military/aerospace applications

| Technology | | Powder bed fusion + Laser sintering |
|--------------------------|--|-----------------------------------------------------|
| Laser Qty/power/type | | Single 500W fiber laser |
| Laser wavelength | | 1064 nm |
| Max print part size (mm) | | 140(L) x 140(W) x 140(H) / 180(L) x 180(W) x 100(H) |
| Max resolution (3-axis) | | XY: 0.05mm; Z: 0.08mm |
| Max build rate | | 15 cm ³ /h |
| Slicing Layer thickness | | 20um ~ 100um |
| Scan mirror | | 50-120um focus spot with high speed monochromator |
| Materials feeding | | Manual powder feeding system |
| Air flow/Anti-oxidation | | Argon, Nitrogen, 6-8bar, auto fan speed adjustment |

Supported Metal powder materials

| | |
|------------------------------------------------------------------------------|------------------------------------------------------------------|
| Al6061, 7075, AlF357, AlSi10Mg | Magnesium, gold, cobalt chrome MP1, CoCr28Mo6 |
| Cu, CuCrZr, GRCo-42 | Inconel IN625,718, 686,939, |
| Nickel Hastelloy C22 /X, Sterling silver 925 | Titanium TA5/Ti64, Pure Tungsten, Tungsten carbide cobalt |
| Stainless steel: 17-4PH / 316L / M789 | Tool steel: 1.2709 / CX / M300 / MS1 |
| Customized: Strengthening Aluminum(self-patent), user specified metal powder | |

Power

| | |
|-------------------|----------------------------------|
| Power supply | AC 380V±10% three-phase @50/60Hz |
| Power consumption | 7KW |

Environment

| | |
|-----------------------|---------|
| Operation temperature | <23°C |
| Operation humidity | <45% RH |

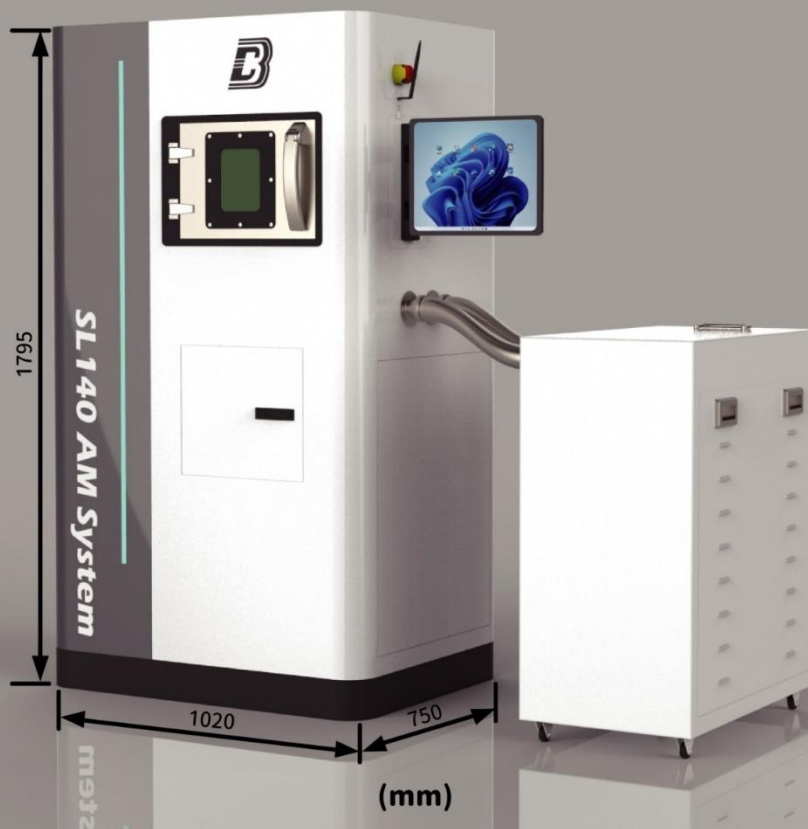
Physical

| | |
|---------------------------|----------------------------------|
| Printer outline Dimension | 1020 (L) x 750 (W) x 1795 (H) mm |
| Printer Weight | 700-750 kgs |

Outline Dimension Drawing



Comfort Beauty Advanced Technology CO., LTD.



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No.20, Aly60, 88Ln., Chunshang Rd., Luzhu Dist, Kaohsiung City, Taiwan (ROC) (Headquarter)

山東省德州市陵城區加州錦城H-2(大陸廠)

H-2, Jincheng, California, Lingcheng Dist, Dezhou City, Shandong, China

(規劃遷廠至崑山廠 Planning to move the factory to Kunshan factory)



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