

3D PRINTERS

Features

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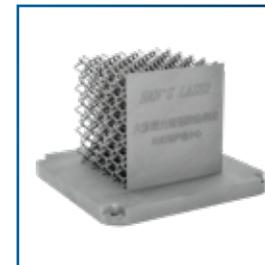
Fully open process technology data pack.

Flexible or rigid covering system. Cloud service: remote control, dedicated smartphone app. Perfect for the scientific research of high-performance materials.

Suitable for cooling molds, hydraulic parts, automotive, aerospace and other high-tech industries.

TECHNICAL DATA	M-100	M-160	M-260
Dimensions	1090x1030x2164 mm ³	2000x1200x2000 mm ³	2100x1250x2165 mm ³
Maximum print size	100x100x200 mm ³	150x150x200 mm ³	250x250x300 mm ³
Printing accuracy	±0.05mm	±0.05mm	±0.05mm
Powder feeding mode	powder cylinder feeding	bidirectional powder	powder cylinder feeding
Spot layer thickness	20-60 μm	20-100 μm	20-100 μm
Spot diameter	45 μm	45 μm	60 μm
Laser power	200 W	300 W / 500 W	500 W
Scanning speed	≤7m/s	≤7m/s	≤7m/s
Oxygen concentration	≤100 ppm	≤100 ppm	≤100 ppm
Shielding gas	N ₂ /Ar	N ₂ /Ar	N ₂ /Ar
Software	Hans MCS, Magics + BP, 3DXpert, Hans M Slice + Path	Hans MCS, Magics + BP, 3DXpert, Hans M Slice + Path	Hans MCS, Magics + BP, 3DXpert, Hans M Slice + Path
Usable materials	Iron alloy, cobalt alloy, titanium alloy, aluminum alloy, etc.	Iron alloy, cobalt alloy, titanium alloy, aluminum alloy, etc.	Iron alloy, cobalt alloy, titanium alloy, aluminum alloy, etc.

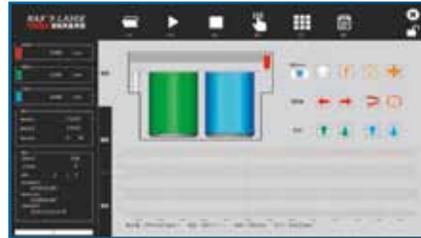
Notes: All data are for reference only, technical solution prevails



REMOTE CONTROL AND MONITORING SOFTWARE

INTERNAL CONTROL SOFTWARE HAN'S LASER - MCS

- Simple and practical user interface.
- Visual monitor and model preview.
- Real-time monitoring of oxygen concentration, pressure, temperature and humidity.
- Change of power, speed and cancellation of moving parts during the operation.
- Fault and log alarm.

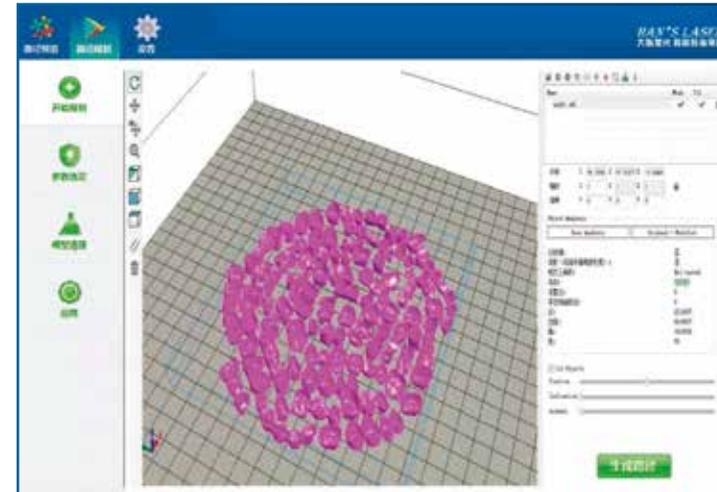


REMOTE MONITORING SOFTWARE BASED ON INTERNAL CLOUD PLATFORM, HAN'S LASER CLOUD SERVICES

- Remote condition monitoring (oxygen concentration, pressure, temperature and humidity, processing time, number of print layers, etc.).
- Remote control of the process (powder feed, pause, continuous, emergency stop, etc.).
- Remote video monitoring (real-time monitoring of the printing process).
- Remote fault alarm.

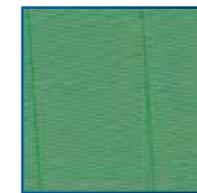


PATH PLANNING SOFTWARE

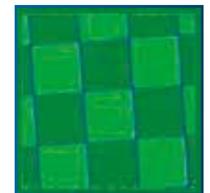


INTERNAL PATH PLANNING SOFTWARE, HAN'S LASER - PATH

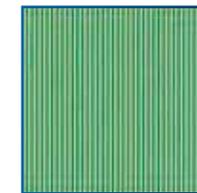
- Simple and practical user interface.
- Customization of the scanning path to modify the parameters.
- Multiple scanning patterns (stripe, checkerboard, orthogonal rotation, outline only).
- Preview laser path and print time.
- Path optimization scheme based on an "ant colony" algorithm



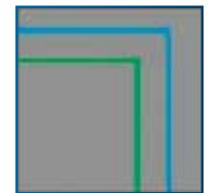
Strip



Chess



Orthogonal rotation



Control only