

## RSPro 1400

This innovative dual laser-dual scanning additive manufacturing system is perfectly suited for the industrial production of large, high quality finished parts as well as mass part production.



- Automatic calibration set-up ensures accuracy.
- High precision parts with no visible joint lines.
- Carbon fiber reinforced recoater system ensures non-deformation across 1400 mm length.
- Granite recoater frame enhances stability.
- Open design for freedom of choice of materials and software.

# Technical Data

\* Specifications are subject to change;  
consult with your sales representative for confirmation of current offering.

|  | RSPro 1400  |
|--|---|
| Build Envelope Capacity  | 55.1x27.6x19.7 in (1400x700x500 mm)   |
| Maximum Part Weight  | 396.8 lb (180 kg)   |
| Accuracy<br><small>*Accuracy may vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.</small> | L < 100 mm: $\pm 0.2$ mm<br>L $\geq 100$ mm: $\pm 0.2\%$ x L  |
| Beam Size  | Nominal 0.005 – 0.008 in (0.12 – 0.2 mm)  |
| Layer Thickness  | 0.1-0.25 mm   |
| Weight   | 2840 kg (with 940 kg initial fill inside)   |
| Machine Size (WxDxH)   | 2882 x 1952 x 2395 mm   |
| Laser  | Solid-state frequency tripled Nd: YVO <sub>4</sub>  |
| Wavelength   | 355 nm  |
| Controller   | UnionTech™ RSCON  |
| Part Preparation   | Materialise Magics  |
| Operating Systems  | Windows 7, Windows 10*  |
| Input Data File Format   | STL   |
| Network Type and Protocol  | Ethernet, IEEE 802.3 using TCP/IP and NFS   |
| Electrical Requirements  | 200-240 VAC, 50/60 Hz, single phase   |
| Laser Warranty   | 18 months   |
| Recoater Frame   | Granite   |
| Systems Control  | Closed-loop   |
| Power (nominal)  | Typically 300 ~800mW (@100kHz) on the target surface of the material under nominal optical path condition |

## Operating Environment:

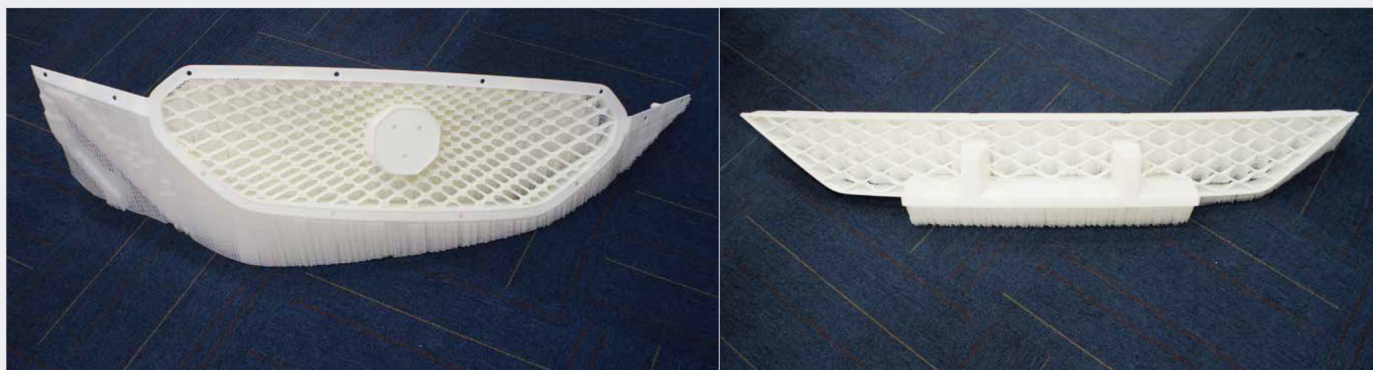
|                     |                       |
|---------------------|-----------------------|
| Temperature Range   | 72–79 °F (22–26 °C)   |
| Maximum Change Rate | 1 °C/hour             |
| Relative Humidity   | < 40 % non-condensing |

## Accessories :

|                          |   |
|--------------------------|---|
| Platform Change Carts    | Manual offload cart (optional)                                      |
| Processing and Finishing | Post-Curing Unit (optional)   |
| System Warranty          | One-year warranty (under UnionTech's Purchase Terms and Conditions) |

Prototype Size: 53.4×10.1×10.8 in (1356×257×275 mm)

Prototype Size: 46×6.6×5.7 in (1169×167×146 mm)



UnionTech



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