

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 <small>*Accuracy may vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.</small> | L < 100 mm: ±0.2 mm L ≥ 100 mm: ±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 × 1952 × 2395 mm |
| Laser | Solid-state frequency tripled Nd: YVO ₄ |
| 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



**19 bis av René Duguay Trouin
78960 Voisins le Bretonneux**

**Tel: + 33 (0)1 30 60 03 33
Email: info@3dsolutions.fr
www.3dsolutions.fr**