Build the future with the RPS NEO800

The NEO800 has been developed and built in the UK by RPS engineers. It has a large build envelope of 800 x 800 x 600 and is an open resin system, allowing freedom of material selection. Carefully engineered throughout using high quality components the NEO800 produces superior part quality and is highly reliable. Proven in a manufacturing environment for 12 months, the NEO800 has been built by engineers for engineers.

WHY CHOOSE THE RPS NEO800

- Build platform of 800 x 800 x 600
- Open resin system
- Scanning resolution to within 1 micron
- Excellent part sidewall quality
- Intuitive software
- Variable beam size
- Built-in camera
- Progress reports via email
- Removable, easily cleaned recoater blade
- Inbuilt UPS system

www.rpsupport.co.uk
### Printing Technology

Stereolithography.

### Build Printing Capacity (X Y Z)

<table>
<thead>
<tr>
<th>Vat Type</th>
<th>Dimensions (mm)</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Vat</td>
<td>800 x 800 x 600</td>
<td>627 Kg</td>
</tr>
<tr>
<td>Half Vat</td>
<td>800 x 800 x 300</td>
<td>333 Kg</td>
</tr>
<tr>
<td>Short Vat</td>
<td>800 x 800 x 120</td>
<td>192 Kg</td>
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### Material Compatibility

Open resin system, compatible with 355 nm stereolithography resins.

### Vat Fill Capacities *

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*Based on a typical unfilled material of density 1.12 Kg/ltr

### Accuracy

±0.15%

Accuracy will vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.

### Laser

2 Watt, 355 nm, Solid-state frequency tripled Nd: YVO₄

### Beam Size

Dynamic Focusing: 200 ~ 600 μm

### Scanning Speed

10 m/s

### Layer Resolution

100 μm

### In Build features

- Ability to change recoating build styles mid build
- Ability to change part build styles mid build
- Built-in camera

### System Software

- Input File format: SLC
- Control Software: Titanium
- Operating System: Windows 7

### Electrical Requirements

230 Volts, 50 Hz single phase supply at 7 amps 1.8 Kw.

### UPS

Approximately 10min of system up-time.

### Network Connectivity

- Ethernet: Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Wireless Adaptor: Fully compliant with IEEE 802.11 b/g/n

### Environmental Requirements

Temperature range: 20 – 23 °C

Max Temp Rate Change: ±1 C degree / hour

Relative humidity: 20 – 50 % non-condensing

### Machine Dimensions

- Size (mm): 1350W x 1630D x 2300H
- Weight: 800 Kg

### Vat Dimensions

- Size (mm): 910W x 1170D x 855H
- Weight: 237 Kg

### Accessories

- Manual Offload Trolley
- Post Cure Oven

### System Warranty

12 months, as per RPS Conditions of Sale.

### Laser Warranty

10,000 hours or 18 months (whichever the sooner) replacement at <800 mW.

For further information visit www.rpsupport.co.uk