Rapidly manufacture end-use plastic parts to demanding manufacturing specifications directly from 3-D CAD data.

FEATURES

- Modular design
- Largest available part size
- Closed-loop thermal control
- Digital scanning system
- Fully integrated powder recycle system
- Counter-rotating powder deposit roller
- Multiple size removable build modules
- Offline thermal station
- Nitrogen generator
- Real-time monitoring software
- Intelligent powder tracking

APPLICATIONS

- Rapid manufacturing and rapid prototyping
- Tool-less plastic part manufacturing
- Form/fit/functional plastic prototypes
- Ideal for Automotive, Motorsports, Aerospace, White Goods/Kitchen Appliances, R&D and others needing small to extra-large plastic parts from 3-D CAD data

BENEFITS

- **Cost-effective.** Directly manufacture customized short production runs.
- **Productive.** Go from 3-D CAD design to finished part in one step.
- **Tool-less.** Eliminate the time and expense of tooling.
- **Design for function.** No limitation on design complexity.
- **Intelligent.** Meet demanding part specifications with advanced process control.
- **Automated.** Seamless process integration from raw material to finished part.
- **Modular.** Easily upgradeable, expandable system.
- **Superior throughput and utilization.** Virtually no time between builds for maximum part building throughput.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Process</th>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Build Volume (XYZ)</strong></td>
<td><strong>Sinterstation Pro SLS system</strong></td>
</tr>
<tr>
<td>Pro 140</td>
<td>208 VAC 3-phase WYE, 50/60 Hz, 48 A/phi</td>
</tr>
<tr>
<td>Pro 230</td>
<td>Integrated Recycling Station 100-240 VAC 1-phase, 50/60 Hz, 3A</td>
</tr>
<tr>
<td>Layer Thickness (DuraForm PA/GF)</td>
<td>Break Out Station 200-240 VAC 1-phase, 50/60 Hz, 6A</td>
</tr>
<tr>
<td>Powder Deposition Method</td>
<td>Offline Thermal Station 200-240 VAC 1-phase, 50/60 Hz, 24A</td>
</tr>
<tr>
<td>Scanning System</td>
<td>Chiller 200-240 VAC 1-phase, 50/60 Hz, 13A</td>
</tr>
<tr>
<td>Laser</td>
<td><strong>Software</strong></td>
</tr>
<tr>
<td><strong>Thermal Control Method</strong></td>
<td>Build Setup and Sinter (included)</td>
</tr>
<tr>
<td><strong>Data Input</strong></td>
<td>SinterScan™ (optional) software provides more uniform properties in X and Y directions and improved surface finish</td>
</tr>
<tr>
<td>CAD interface</td>
<td>RealMonitor™ (optional) software provides advanced monitoring and tracking capabilities</td>
</tr>
<tr>
<td>Ethernet</td>
<td><strong>Warranty</strong></td>
</tr>
</tbody>
</table>

**All specifications are based on tests using 3D Systems’ SLS systems and 3D Systems’ DuraForm materials. For additional specifications and/or installation related information, refer to the Sinterstation Pro SLS System Facility Requirements Guide.**

### TYPICAL ROOM LAYOUT

- **Sinterstation Pro SLS system** - Manufactures the part(s) from 3-D CAD data.
- **Rapid Change Module (RCM)** - Build module mounted on wheels for quick and easy transfer between the Sinterstation, OTS and BOS.
- **Nitrogen Generator** - Delivers a continuous supply of nitrogen to the SLS system.
- **Offline Thermal Station (OTS)** - Pre-heats the RCM before it is loaded into the SLS system and manages the RCM cool-down process after a build has been completed.
- **Break Out Station (BOS)** - In the BOS the parts are removed from the RCM. The non-sintered powder automatically gets sifted and transferred to the IRS.
- **Integrated Recycling Station (IRS)** - The IRS automatically mixes recycled & new powder. The mixed powder is automatically transferred to the SLS system.
- **Intelligent Powder Cartridge (IPC)** - New powder is loaded into the IRS from a returnable powder cartridge. When the IPC is connected to the IRS, electronic material information is automatically transferred to the SLS system.

### Process

<table>
<thead>
<tr>
<th>Layer Thickness</th>
<th>Pro 140</th>
<th>Pro 230</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 mm (.004 in)</td>
<td>550 x 550 x 460 mm (22 x 22 x 18 in) 140 liters</td>
<td>550 x 550 x 750 mm (22 x 22 x 30 in) 230 liters</td>
</tr>
<tr>
<td>0.15 mm (.006 in)</td>
<td>230 liters</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical

- **Sinterstation Pro SLS system**
- **Integrated Recycling Station**
- **Break Out Station**
- **Offline Thermal Station**
- **Chiller**

### Software

- **Build Setup and Sinter (included)**
- **SinterScan™ (optional)**
- **RealMonitor™ (optional)**

### Warranty

- **One-year**

---

**3D Systems Corporation**

26081 Avenue Hall

Valencia, CA 91355 U.S.A.

Toll-free: 888.337.9786

Fax: 661.294.8406

661.295.5600, ext. 2882

www.3dsystems.com

moreinfo@3dsystems.com

Nasdaq: TDSC

PN 70617 Issue Date - 1 June 05

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

© 2005 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. The 3D logo, RealMonitor, SLS and SinterScan are trademarks; and DuraForm, Sinterstation and SLS are registered trademarks of 3D Systems, Inc.