A PREMIUM LASER SINTERING SOLUTION
HIGH PERFORMANCE, PRECISION AND HIGH-TEMPERATURE CAPABILITIES

HIGH PRODUCTIVITY FOR REDUCED OPERATING COST
The ProMaker P4500 series meets industrial needs by offering impressive build rates, made possible by its advanced, high-speed digital scanning system and large effective build platform.

BEST-IN-CLASS THERMAL STABILITY FOR OPTIMIZED MECHANICAL PROPERTIES
The ProMaker P4500 series offers best-in-class thermal stability with an eight-zone heater system and intelligent temperature control technology, providing superior mechanical properties and accuracy for all your parts.

HIGH TEMPERATURE CAPABILITIES TO PROCESS ADVANCED MATERIALS
The high-temperature-capable configuration of the ProMaker P4500 HT enables users to process a wide variety of high-performance materials such as PA6, opening up new possibilities for advanced research and direct-use applications.

OPEN MATERIAL STRATEGY
The ProMaker P4500 series offers open material platforms, supporting customer innovation and the development of new direct manufacturing applications.
# ProMaker P4500 SERIES TECHNICAL SPECIFICATIONS

By choosing one of our ProMaker machines, you’re also accessing our vast technical knowledge and a wide range of available services to help optimize production and maximize profitability.

**TRAINING • MAINTENANCE • HOTLINE AND ON-SITE ASSISTANCE • SPECIFIC DEVELOPMENT**

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<table>
<thead>
<tr>
<th>Model</th>
<th>Max Build Envelope (LxWxH)</th>
<th>Volume Build Rate* @ 0.12 mm layer thickness</th>
<th>Scanning Speed</th>
<th>Layer thickness (typical)</th>
<th>Scanner Type</th>
<th>Laser Type</th>
<th>Powder Feed Mode</th>
<th>Max. Chamber Temperature</th>
<th>Heating Element</th>
<th>Thermal Field Control</th>
<th>Temperature Regulation</th>
<th>Key Software Features</th>
<th>Data File Format</th>
<th>Printer size</th>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4500 SD</td>
<td>400 x 400 x 450 mm (15.75 x 15.75 x 17.72 in)</td>
<td>1.5 l/hr 164 in³/h</td>
<td>7.6 m/s 275 in/s</td>
<td>0.06-0.3 mm (0.12 mm) 0.002-0.011 in (0.004 in)</td>
<td>High precision galvo scanning system</td>
<td>30W CO²</td>
<td>Bi-directional powder feed system with single feed cylinder</td>
<td>190°C (374 °F)</td>
<td>Golden infrared heater</td>
<td>Eight-zone heater &amp; intelligent temperature control systems</td>
<td>Continuous real-time build surface temperature monitoring &amp; optimization</td>
<td>Manual and automatic control modes, real-time build parameter modification, three-dimensional visualization, diagnostic functions</td>
<td>.STL</td>
<td>2550 x 1550 x 2150 mm (100.4 x 61 x 84.6 in)</td>
<td>380 VAC - 50/60 Hz - 15 KW Three-phase Five-wire</td>
</tr>
<tr>
<td>P4500 HS</td>
<td></td>
<td>2.7 l/hr 244 in³/h</td>
<td>10 m/s 393 in/s</td>
<td>0.01-0.3 mm (0.02-0.011 in)</td>
<td></td>
<td>60W CO²</td>
<td></td>
<td>220°C (428°F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.STL</td>
<td>2550 x 1550 x 2150 mm (100.4 x 61 x 84.6 in)</td>
<td>380 VAC - 50/60 Hz - 15 KW Three-phase Five-wire</td>
</tr>
<tr>
<td>P4500 X</td>
<td></td>
<td>4.0 l/hr 244 in³/h</td>
<td>15.2 m/s 590 in/s</td>
<td></td>
<td></td>
<td>100W CO²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.STL</td>
<td>2550 x 1550 x 2150 mm (100.4 x 61 x 84.6 in)</td>
<td>380 VAC - 50/60 Hz - 15 KW Three-phase Five-wire</td>
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<tr>
<td>P4500 HT</td>
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<td>4.0 l/hr 244 in³/h</td>
<td>15.2 m/s 590 in/s</td>
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<td>100W CO²</td>
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* material dependent