TruPrint 1000 Basic Edition

Metal 3D printing made easy: affordable and robust

01 Easy and intuitive handling
For a quick mastering of the technology

02 High processing speed
For rapid build part production

03 Robust and reliable 3D printing
Machine concept proven over many years

04 Contact free and inert powder handling
With glove box and low oxygen content sensor

05 Condition and Performance Monitoring
Due to live analyses and machine reports

06 Immediate and worldwide support
24/7 spare parts availability, remote support and highly qualified service technicians

Ideal for dental labs and education

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TruPrint 1000 Basic Edition is based on a tried and trusted machine concept. It has a 98.5 mm build platform for the production of up to 100 units (crowns and bridges). The machine is affordable and robust, intuitively operable and reliable, while capable of processing in high speed.

01 Easy and intuitive handling

Benefit from a quick entry into additive manufacturing. The TruPrint 1000 Basic Edition is easy to get started with its small size and simple standard connection. Operation is very simple thanks to the intuitive touchscreen and the step-by-step guided procedure by the Setup Wizard.

02 High processing speed

The TruPrint 1000 Basic Edition prepares the powder for the next layer while the laser is exposing. This reduces downtime to a minimum, enabling higher processing speeds for rapid build part production.

03 Robust and reliable 3D printing

Benefit from the machine concept that has been proven over many years in the production of dental parts. The consistency in data creation is the ideal basis for hybrid serial production for telescopic technology and implant-supported dentures. This enables easy post-processing of the 3D-printed parts by using milling. The TruPrint 1000 Basic Edition is also ideally suited for education and research.

04 Contact free and inert powder handling

Optionally, the 3D printer may be equipped with a glovebox and a high precision analog sensor for the monitoring of the required very low oxygen level in the building chamber. This is extremely important for work with reacting materials like titanium.

05 Condition and Performance Monitoring

Our monitoring solutions also provide you a comprehensive monitoring of your machine conditions and a full transparency of your machine productivity.

06 Immediate and worldwide support

Remote support from TRUMPF provides a direct connection between our service engineers and your TruPrint 1000. Benefit from high machine availability due to our worldwide trained service technicians and our 24/7 spare parts service. We are happy to support you with a customized financing solution.

### TruPrint 1000 Basic Edition

<table>
<thead>
<tr>
<th>Specification</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build volume (cylinder)</td>
<td>mm x mm</td>
<td>Ø 98.5 x H 100</td>
</tr>
<tr>
<td>Processable materials[^1]</td>
<td></td>
<td>Weldable metals in powder form, such as: Stainless steels, tool steels, aluminum[^2], nickel-based, cobalt-chrome, copper, titanium[^2] or precious metal alloys, amorphous metals</td>
</tr>
<tr>
<td>Build rate[^3]</td>
<td>cm³/h</td>
<td>2-18</td>
</tr>
<tr>
<td>Layer thickness[^4]</td>
<td>μm</td>
<td>10-50</td>
</tr>
<tr>
<td>Max. laser power at the workpiece (TRUMPF fiber laser)</td>
<td>W</td>
<td>200</td>
</tr>
<tr>
<td>Beam diameter</td>
<td>μm</td>
<td>55</td>
</tr>
<tr>
<td>O₂ concentration[^5]</td>
<td>ppm</td>
<td>Down to 3000 (0.3%) optional: down to 100 (0.01%)</td>
</tr>
<tr>
<td>Scan speed (powder bed)</td>
<td>m/s</td>
<td>Max. 3</td>
</tr>
<tr>
<td>Shielding gas</td>
<td></td>
<td>Nitrogen, argon</td>
</tr>
<tr>
<td>Power supply</td>
<td>V / A / Hz</td>
<td>230 – 7 – 50/60</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>1445 x 730 x 1680</td>
</tr>
<tr>
<td>Weight (incl. powder)</td>
<td>kg</td>
<td>650</td>
</tr>
</tbody>
</table>

[^1]: Current material and parameter availability upon request
[^2]: Available with options
[^3]: Dependent on system configuration, process parameters, material and degree of filling
[^4]: Individually adjustable
[^5]: Subject to alteration. Only specifications in our offer and order confirmation are binding.