For companies scaling their metal AM production and requiring limited operator exposure to powder. High throughput, highly repeatable metal AM system that generates precision quality parts from a broad range of alloys with high quality material management for maximum powder usage. Integrated metal 3D printing solution with DMP production metal printer, 3DXpert® software, thoroughly qualified LaserForm® materials and expert application support.

HIGH QUALITY POWDER & PROCESS MANAGEMENT
- Integrated powder handling, including sieving
- Significantly limited operator exposure to powder
- Consistent, low O₂ environment (<25 ppm)
- High powder recyclability – improved powder usability lifetime

DESIGNED FOR SCALING METAL AM PRODUCTION
- Small footprint for reduction of overall required floor space
- Automated workflow steps
- Material-type dedicated
- Real-time process monitoring with DMP Monitoring

HIGH REPEATABILITY FOR HIGH QUALITY PARTS
- Purest atmosphere during printing, consistent, low O₂ environment (<25 ppm)
- Excellent microstructure, very high density
- Repeatable, stable mechanical properties
- Consistent accuracy - part to part - machine to machine
- Thoroughly developed and tested print settings

HIGH THROUGHPUT METAL 3D PRINTING
- Fast bidirectional material deposition
- Short change-over time - high printer utilization
- Optimized scan strategies for maximum productivity

LOW TOTAL COST OF OPERATION (TCO) FOR AFFORDABLE PER PART COSTS
- Automated processes
- High powder recyclability
- Low usage of consumables
- Small footprint
**DMP Flex 350**

**Robust, flexible Metal Additive Manufacturing for 24/7 part production**

Flexible, high throughput, highly repeatable metal AM system that generates high quality precision parts from a broad range of alloys with a build volume of 275 x 275 x 420 mm. Integrated metal 3D printing solution with DMP production metal printer, 3DXpert software, thoroughly qualified LaserForm materials and expert application support.

**Built on the proven architecture of ProX DMP 320 since 2008 with:**
- High repeatability for high quality parts
- Low TCO for affordable per part costs
- High throughput metal 3D printing

**Flexible application use**
- Ideal for application development, production and R&D
- Easily scalable, due to consistent machine to machine performance

<table>
<thead>
<tr>
<th>Specifications</th>
<th>DMP Flex 350</th>
<th>DMP Factory 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser power type</td>
<td>500 W/Fiber laser¹</td>
<td>500 W/Fiber laser¹</td>
</tr>
<tr>
<td>Build volume (X x Y x Z) Height inclusive of build plate</td>
<td>275 x 275 x 420 mm (10.82 x 10.82 x 16.54 in)</td>
<td>275 x 275 x 420 mm (10.82 x 10.82 x 16.54 in)</td>
</tr>
<tr>
<td>Layer thickness</td>
<td>Adjustable, min. 5 µm, typical: 30, 60, 90 µm</td>
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</tr>
<tr>
<td>Repeatability</td>
<td>x=20 µm, y=20 µm, z=20 µm</td>
<td>x=20 µm, y=20 µm, z=20 µm</td>
</tr>
<tr>
<td>Minimum feature size</td>
<td>100 µm</td>
<td>100 µm</td>
</tr>
<tr>
<td>Typical accuracy</td>
<td>± 0.1-0.2% with ± 50 µm minimum</td>
<td>± 0.1-0.2% with ± 50 µm minimum</td>
</tr>
</tbody>
</table>

**Quality Control**
- DMP Monitoring
- Optional Included

**Control System and Software Suite**
- Software tool
  - 3DXpert all-in-one software for Metal AM
- Control Software
  - DMP software suite
  - DMP software suite

**Powder Management**
- Powder management
  - Optional external
  - LaserForm Ti Gr1 (A)²
  - LaserForm Ti Gr5 (A)²
  - LaserForm Ti Gr23 (A)²
  - LaserForm AlSi10Mg (A)³
  - LaserForm AlSi7Mg0.6 (A)³
  - LaserForm Ni625 (A)³
  - LaserForm Ni718 (A)³
  - LaserForm 316L (A)³
  - LaserForm Maraging Steel (A)³
  - LaserForm CoCrF75 (A)³
- Integrated
  - LaserForm Ti Gr1 (A)²
  - LaserForm Ti Gr5 (A)²
  - LaserForm Ti Gr23 (A)²
  - LaserForm AlSi10Mg (A)³
  - LaserForm AlSi7Mg0.6 (A)³
  - LaserForm Ni625 (A)³
  - LaserForm Ni718 (A)³
  - LaserForm 316L (A)³
  - Further materials under development

¹Maximum laser power at powder layer is typical 450W for 500W lasers
²Set up A
³Set up B

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