maag gear pumps guarantee constant conveying in extrusion lines and thus highest product quality. With its robust construction, the new trudex® high-pressure gear pump enables operation in pressure ranges up to 700 bar which is the upper limit for conventional gear pumps. The advanced trudex® pump is rounding off maag’s gear pump product program and with its usual quality, does justice to the ever-increasing demand for high-pressure pumps for applications in extrusion lines.

**Your benefits**
- Operation in the high-pressure range up to 700 bar
- High overall level of efficiency due to cutting-edge gear and slide bearing technology
- Flexible use due to simple retro-fitting
- Robust and compact construction
- Low-pulsation conveying even at high-pressure differentials
trudex®

High-pressure gear pump for thermoplastic applications

A selection of typical conveying media
- Polyolefines
- Polyester
- Polyamides
- Polycarbonates
- Styrenic polymers
- Expandable polystyrene
- ABS/SAN
- Fluoropolymers
- TPE
- Others upon request

Technical data:

<table>
<thead>
<tr>
<th>Housing, cover:</th>
<th>Alloyed steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear shafts:</td>
<td>Tool steel</td>
</tr>
<tr>
<td>Bearing:</td>
<td>Tool steel</td>
</tr>
<tr>
<td>Shaft seals:</td>
<td>Alloyed steel</td>
</tr>
</tbody>
</table>

Application limits:

- **Viscosity:** Up to 30,000 Pas
- **Temperature:** Up to 350 °C
- **Inlet pressure:** Up to 200 bar
- **Discharge pressure:** Up to 700 bar
- **Pressure differential:** Up to 500 bar

Options
- Melt pressure and melt temperature sensors
- Application-specific material selection
- Cooling for shaft seal
- Foot mounting

Accessories
- Pedestal and base frame
- Adapter flanges
- Sensors
- Controls, expac® total solutions
- Drives

Application limits:

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- **Inlet pressure:** Up to 200 bar
- **Discharge pressure:** Up to 700 bar
- **Pressure differential:** Up to 500 bar

<table>
<thead>
<tr>
<th>Size: 36 to 140</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specific volume in cm³/U:</strong> 11 to 690</td>
</tr>
<tr>
<td><strong>Capacity in kg/h:</strong> 60 to 4,205</td>
</tr>
</tbody>
</table>

Heating:
- Electrical with heating cartridges
- Electric and liquid for thermo-sensitive thermoplastics

Mechanical limits, application limits may be different.

Theoretical conveying capacity

<table>
<thead>
<tr>
<th>Applications</th>
<th>Polypropylene</th>
<th>Polyethylene</th>
<th>Polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density [g/cm³]</td>
<td>0.73</td>
<td>0.75</td>
<td>1.15</td>
</tr>
<tr>
<td><strong>trudex® size</strong></td>
<td><strong>Specific volume</strong></td>
<td><strong>Max. capacity in kg/h at viscosities of sizes</strong></td>
<td></td>
</tr>
<tr>
<td>[cm³/U]</td>
<td>200 Pas</td>
<td>5,000 Pas</td>
<td>200 Pas</td>
</tr>
<tr>
<td>36/22</td>
<td>11.2</td>
<td>131</td>
<td>69</td>
</tr>
<tr>
<td>45/28</td>
<td>22.2</td>
<td>279</td>
<td>146</td>
</tr>
<tr>
<td>56/36</td>
<td>44.3</td>
<td>436</td>
<td>229</td>
</tr>
<tr>
<td>70/45</td>
<td>87.2</td>
<td>757</td>
<td>398</td>
</tr>
<tr>
<td>90/56</td>
<td>177.0</td>
<td>1,244</td>
<td>654</td>
</tr>
<tr>
<td>112/70</td>
<td>345.0</td>
<td>2,228</td>
<td>1,170</td>
</tr>
<tr>
<td>140/90</td>
<td>690.0</td>
<td>3,784</td>
<td>1,988</td>
</tr>
</tbody>
</table>

*The data and illustrations refer to the date of printing. Necessary changes can be made at any time without special notice. maag's products and processes are protected by IP rights.*