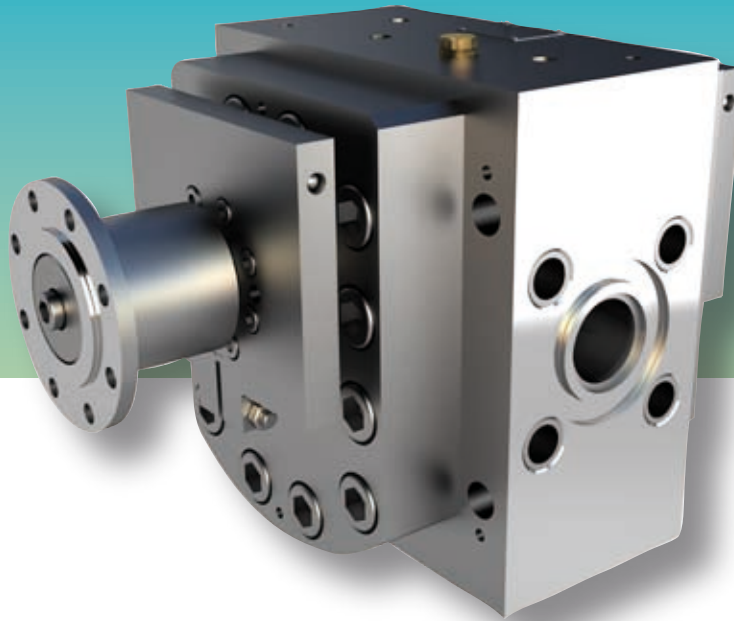


# trudex®



## A range of typical pumping media:

- Acrylonitrile-butadiene-styrene
- Cellulose acetate
- Ethylene vinylacetate
- HD/HMW polyethylene
- LD/LLD polyethylene
- Polyamide 6/66
- Polybutene
- Polybutylene Terephthalate
- Polycarbonate
- Polyetherketone
- Polyethylene Terephthalate
- Polyisobutylene
- Polymethylmethacrylate
- Polypropylene
- Polystyrene and HIPS
- Thermoplastic elastomers
- Various bonding agents
- Other polymers upon request

## The gear pump for maximum output

Maag gear pumps ensure constant delivery in extrusion lines - and thus guarantee the highest product quality and long service life. Depending upon the application and requirements, other specific demands must be met. As a reaction to the growing interest in a gear pump for the high pressure range, Maag developed the trudex® further and has produced it in an optimised form.

The robust construction of the new trudex® high pressure gear pump permits operation in applications where existing gear pumps approach their limits. Short service life, leaks and cost-intensive downtimes are therefore things of the past. The trudex®, in its optimised form, copes with the most varied of demands and thus opens up completely new application possibilities for our customers. Various different options facilitate perfect matching to any imaginable application, which results in the highest level of flexibility.

The trudex® gear pump is made from the best materials: specially heat-treated, straight-cut gear shafts guarantee excellent efficiency levels. The innovative bearing design permits higher speeds and thus higher throughput rates.

The most important benefits in brief:

- Deployment in high pressure applications, up to 700 bar
- Flexible application possibilities as a result of simple retro-fitting
- High levels of efficiency thanks to premier gear and plain bearing technologies
- Robust and compact construction

**trudex®**

<b>Pump Size</b>	36 to 140
<b>Specific volume in cm<sup>3</sup>/rev</b>	11 to 690
<b>Throughput range in kg/h</b>	60 to 4205
<b>Heating</b>	<ul style="list-style-type: none"> <li>• electric, with heating-cartridge execution - trudex® EL version</li> <li>• Electric and fluid for thermally sensitive thermoplastics - trudex® FL version</li> </ul>

design values, application range may differ depending on product

**Options:**

- Melt pressure sensor bores in housing
- Cooling for shaft seals
- Foot-mounted version

**Accessories:**

- Support structure and base frame
- Adapter flanges
- Sensors (pressure and temperature)
- Controllers
- Drives and gearboxes

**Application limits:**

<b>Viscosity:</b>	up to 30,000 Pas
<b>Temperature:</b>	up to 350 °C
<b>Inlet pressure:</b>	up to 200 bar
<b>Discharge pressure:</b>	up to 700 bar
<b>Differential pressure:</b>	up to 500 bar

**Technical specifications:**

<b>Housing &amp; cover:</b>	alloy steel
<b>Gear shafts:</b>	tool steel
<b>Bearings:</b>	tool steel
<b>Shaft seals:</b>	alloy steel
<b>Pump heating:</b>	electric and liquid / electric

**Theoretical conveying capacities:**

Applications	Polypropylene		Polyethylene		Polyester		
<b>Density [g/cm<sup>3</sup>]</b>	0.73		0.75		1.15		
trudex® Pump size	Specific volume [cm <sup>3</sup> /rev]	Maximum capacity in kg/h at viscosities of					
		200 Pas	5,000 Pas	200 Pas	5,000 Pas	150 Pas	1,500 Pas
<b>36/22</b>	11.2	131	69	135	60	178	90
<b>45/28</b>	22.2	279	146	281	126	366	185
<b>56/36</b>	44.3	436	229	430	192	554	280
<b>70/45</b>	87.2	757	398	729	326	931	469
<b>90/56</b>	177.0	1,244	654	1,172	524	1,480	746
<b>112/70</b>	345.0	2,228	1,170	2,047	915	2,551	1,286
<b>140/90</b>	690.0	3,784	1,988	3,408	1,524	4,205	2,120

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