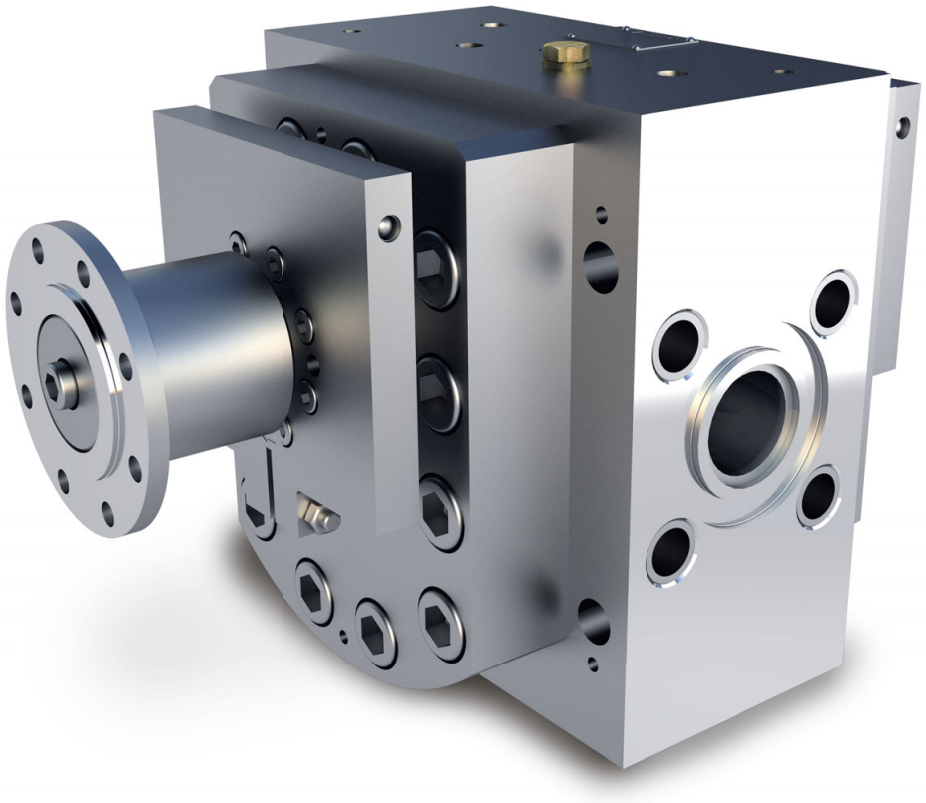
maag
Part of Pump Solutions Group

maag
pump
systems

trudex®

High-pressure gear pump for thermoplastic applications



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
- Polycrabonates
- Styrenic polymers
- Expandable polystyrene
- ABS/SAN
- Fluoropolymers
- TPE
- Others upon request

Accessories

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

Options

- Melt pressure and melt temperature sensors
- Application-specific material selection
- Cooling for shaft seal
- Flow discharge

Technical data:	
Housing, cover:	Alloyed steel
Gear shafts:	Tool steel
Bearing:	Tool steel
Shaft seals:	Alloyed steel

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

trudex®	
Size:	36 to 140
Specific volume in cm³/U:	11 to 690
Capacity in kg/h:	60 to 4,205
Heating:	■ Electrical with heating cartridges ■ Electric and liquid for thermo-sensitive thermoplastics

Mechanical limits, application limits may be different.

Theoretical conveying capacity

Applications		Polypropylene		Polyethylene		Polyester	
Density [g/cm³]		0.73		0.75		1.15	
trudex® size	**Specific volume**	**Max. capacity in kg/h at viscosities of sizes**					
	[cm³/U]	200 Pas	5,000 Pas	200 Pas	5,000 Pas	150 Pas	1,500 Pas
36/22	11.2	131	69	135	60	178	90
45/28	22.2	279	146	281	126	366	185
56/36	44.3	436	229	430	192	554	280
70/45	87.2	757	398	729	326	931	469
90/56	177.0	1,244	654	1,172	524	1,480	746
112/70	345.0	2,228	1,170	2,047	915	2,551	1,286
140/90	690.0	3,784	1,988	3,408	1,524	4,205	2,120

maag pump systems

Global contacts, see **www.maag.com**
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