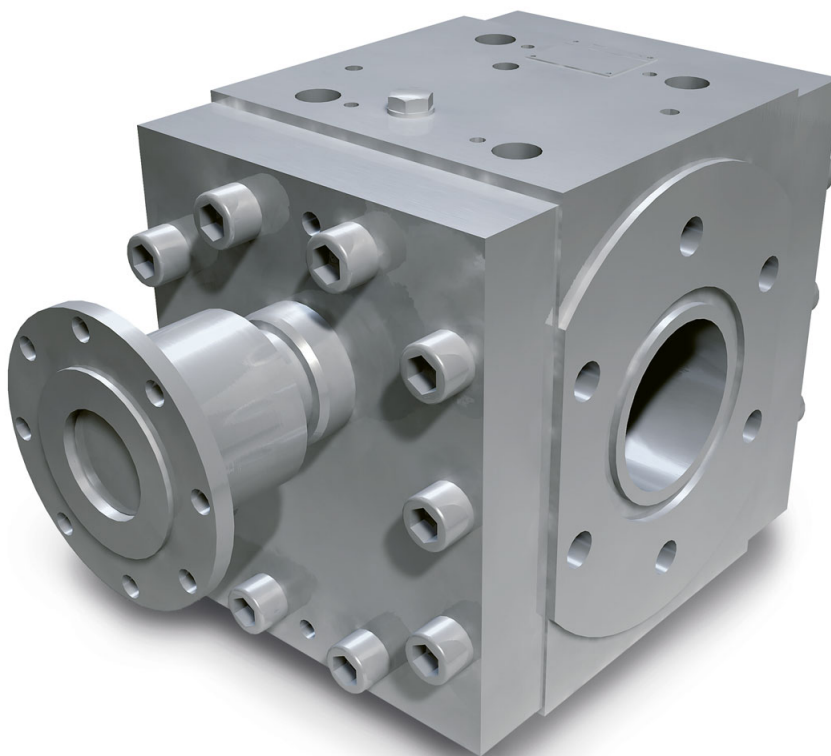




extrex[®] GP/HP/HV

Gear pumps for extrusion of thermoplastics



Extrusion plants need extremely reliable units with high pumping consistency and a configuration to suit each application. The modular design of extrex[®] gear pumps makes light work of meeting diverse requirements.

Three types are available: extrex[®] GP for a wide application range with moderate system pressures, extrex[®] HP for applications with high system pressures and extrex[®] HV having a 25% higher specific conveying capacity for pelletizing processes requiring low speeds.

Your benefits

- High overall efficiency and minimized friction thanks to pioneering gear and bearing technology
- High reliability and long service life
- Optimized flow channels
- Short residence times
- Compact design
- Excellent self-cleaning properties

extrex® GP/HP/HV

Gear pumps for extrusion of thermoplastics

A range of typical pumping media

- Polyolefines
- Polyesters
- Polyamides
- Polycarbonates
- Styrene polymers
- Expandable polystyrene
- ABS/SAN
- Fluoro polymers
- TPE
- Other polymers upon request

Accessories

- Base and base frame
- Adapter flange
- Sensors
- Controllers, expac® complete solutions
- Drives

Application limits:

Viscosity:	To 30,000 Pas
Temperature:	To 350 °C
Inlet pressure:	To 120 bar

Technical specifications:

Housing, cover:	Alloy steel
Gear shafts:	Tool steel
Bearing:	Tool steel
Shaft seals:	Alloy steel
Pump heating:	Electric/liquid

Options

- Defined tolerance classes
- Wired heating cartridge fully attached to connector
- Liquid heating with interconnecting holes
- Fusing pressure/temperature sensor holes in housing
- Choice of materials for every application
- Cooler for shaft seals
- Special seal types

	extrex® GP	extrex® HP	extrex® HV
Discharge pressure in bar:	To max. 350	To max. 500	To max. 300
Differential pressure in bar:	To max. 250	To max. 400	To max. 200
Pump sizes:	20 to 180	36 to 140	45 to 90
Specific volume in cm³/rev:	10.2 to 3,324	15.6 to 959	57.6 to 453
Throughput range in kg/h:	4 to 15,000	10 to 6,000	80 to 4,000

Design values, application range may differ depending on product.

Theoretical conveying capacities:

Applications	Polypropylene	Polyethylene	Polyester
Density [g/cm³]	0.73	0.75	1.15

extrex® GP	Specific volume [cm³/rev]	Maximum capacity in kg/h at viscosities of					
		200 Pas	5,000 Pas	200 Pas	5,000 Pas	150 Pas	1,500 Pas
28	10.2	131	69	135	60	178	90
36	25.6	279	146	281	126	366	185
45	46.3	436	229	430	192	554	280
56	92.6	757	398	729	326	931	469
70	176.0	1,244	654	1,172	524	1,480	746
90	371.0	2,228	1,170	2,047	915	2,551	1,286
110	718.0	3,784	1,988	3,408	1,524	4,205	2,120
140	1,493.0	6,727	3,534	5,914	2,645	7,210	3,635
180	3,224.0	12,338	6,481	10,577	4,730	12,733	6,420

extrex® HP	Specific volume [cm³/rev]	Maximum capacity in kg/h at viscosities of					
		200 Pas	5,000 Pas	200 Pas	5,000 Pas	150 Pas	1,500 Pas
36	15.6	170	89	171	77	223	113
45	28.8	271	143	267	120	345	174
56	59.5	486	255	469	210	598	302
70	113.0	779	420	753	337	950	479
90	231.0	1,387	729	1,275	570	1,588	801
110	457.0	2,409	1,265	2,165	970	2,676	1,350
140	959.0	4,321	2,270	3,799	1,699	4,631	2,335

extrex® HV	Specific volume [cm³/rev]	Maximum capacity in kg/h at viscosities of					
		200 Pas	5,000 Pas	200 Pas	5,000 Pas	150 Pas	1,500 Pas
45	57.6	691	363	556	249	690	348
56	116.0	948	498	914	409	1,166	588
70	227.0	1,605	843	1,512	676	1,909	962
90	453.0	2,720	1,429	2,499	1,118	3,115	1,571