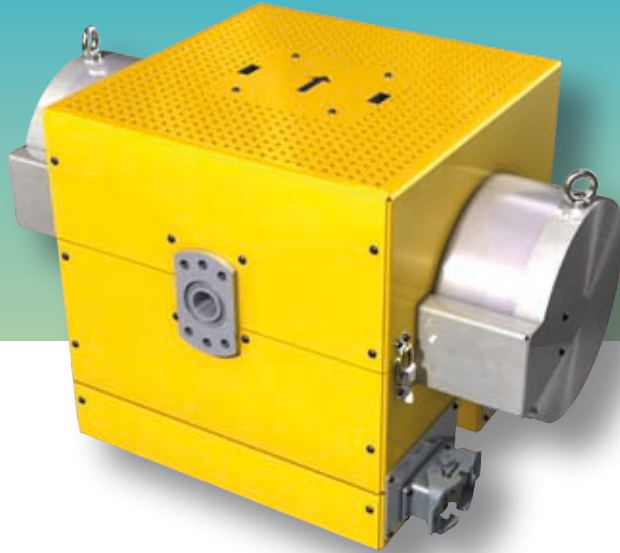


extrex[®] synchro



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

Gear pump for highest precision

Direct-driven synchronised shafts permit the use of this new gear pump in the extrusion of high-precision products. In the extrex[®] synchro, the gear flank clearance can be adjusted. This is checked in the works and calibrated if required. This prevents abrasion, thus considerably increasing the service life. The influences of high levels of shear forces and the elevated squeeze pressures are thus continuously monitored and reduced. The results are: material is conveyed with the highest level of accuracy at the lowest possible temperature input.

The thermally-optimised enclosure provides balanced temperature distribution and facilitates precise heating zone regulation. The transmission of torque eliminates frictional heating and the energy balance is considerably improved - savings of 30 % are possible.

The extrex[®] synchro is the first gear pump in the world to provide absolutely pulsation-free operation. The highest levels of precision and the tightest tolerances permit extrusion processes at a quality level not so far achieved.

The most important benefits in brief:

- No wear on the gear flanks
- Pulsation-free operation
- Plug and Play thanks to its compact design

extrex® synchro	
Discharge pressure in bar	to max. 400
Differential pressure in bar	to max. 300
Pump size	36/22 to 90/56
Specific volume in cm ³ /U	15.6 to 231
Throughput range in kg/h	77 to 1,588

design values, application range may differ depending on product

Accessories:

- Support base from size 56 upwards
- Standard control systems, «Teethcontrol»

Options:

- «Pulsafree» control
- Cooling units for all sizes

Application limits:

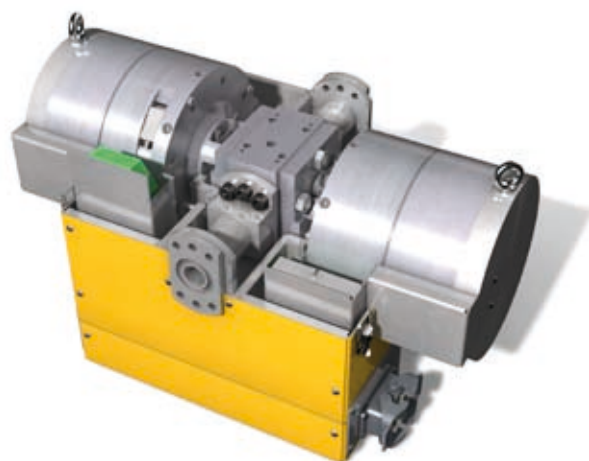
Viscosity:	up to 30,000 Pas
Temperature:	up to 350 °C
Inlet pressure:	up to 120 bar

Technical specifications:

Housing & cover:	alloy steel
Gear shafts:	tool steel
Bearing:	tool steel
Shaft seals:	alloy steel
Pump heating:	electric
Drive and flange cooling:	fluid medium/water

Theoretical conveying capacities:

Applications	Polypropylene		Polyethylene		Polyester		
Density [g/cm ³]	0,73		0,75		1,15		
extrex® synchro pump size	Specific volume [cm ³ /rev]	Maximum capacity in kg/h at viscosities					
		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	776	420	753	337	950	479
90	231.0	1,387	729	1,275	570	1,588	801



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