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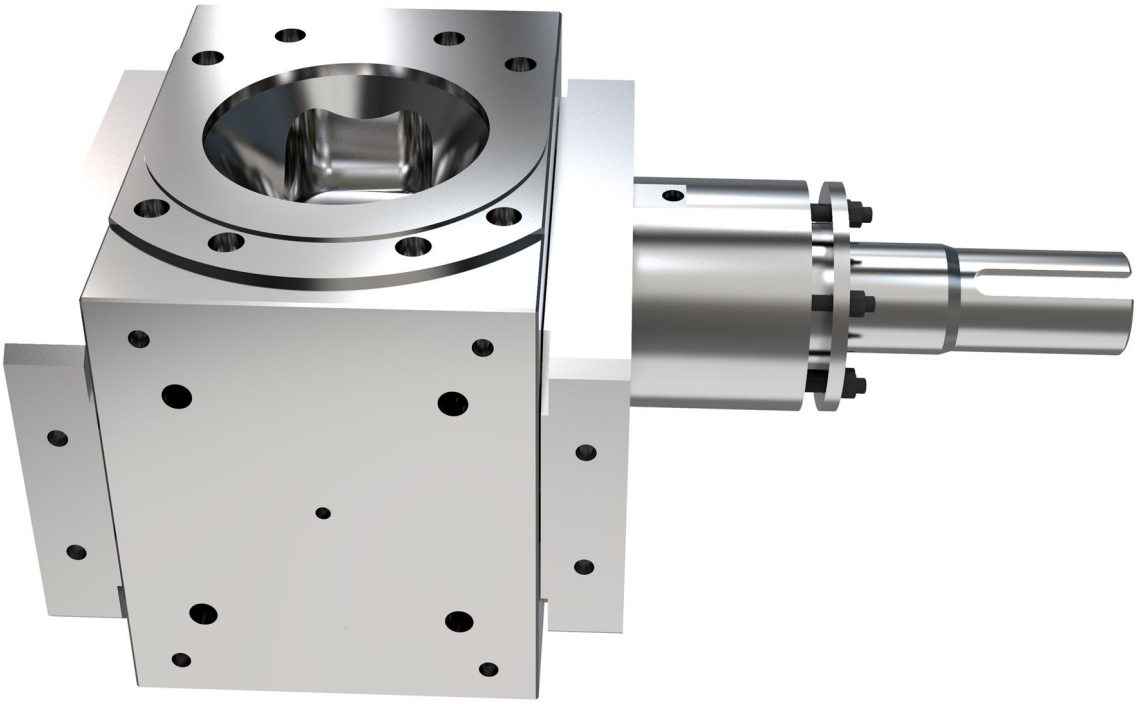
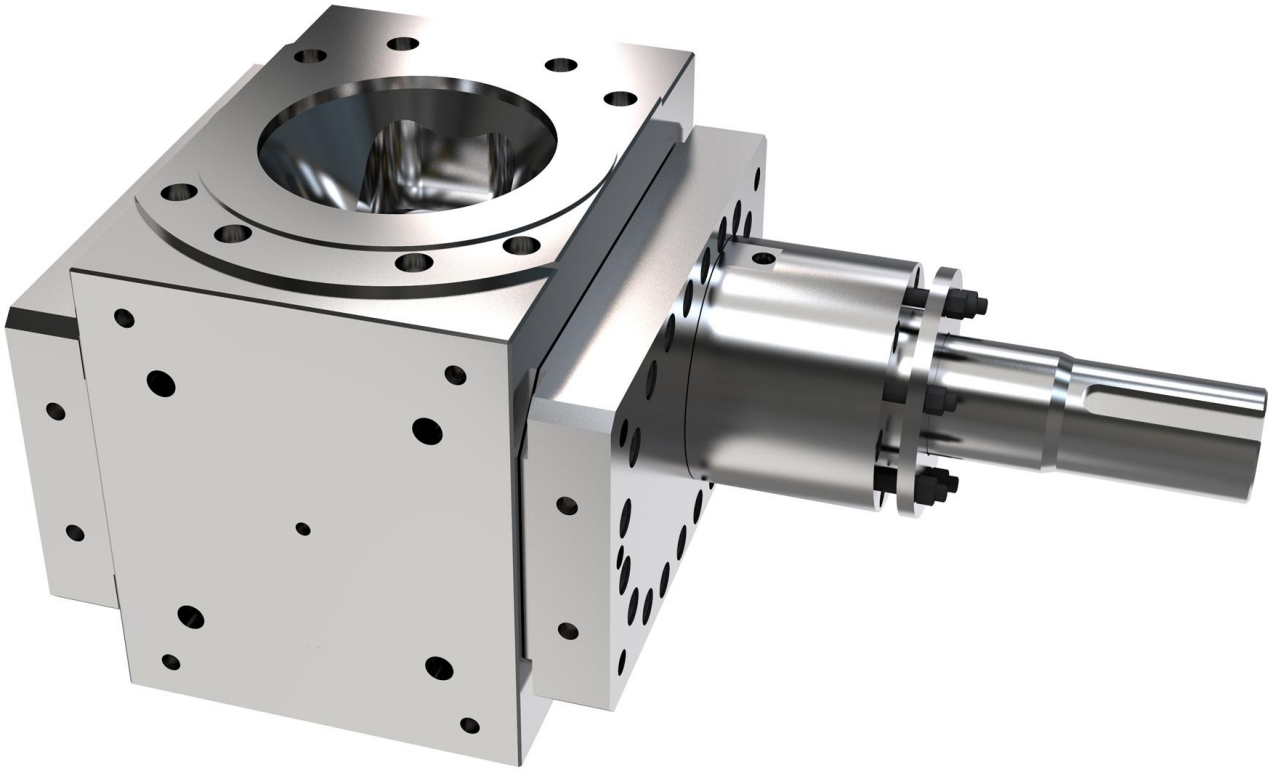




Vacuum Reactor Discharge Pump—— High Pressure, Electric Heating

EHK Series Polymer Melts Gear Pump

The EHK series melt gear pump is especially suitable for the reaction and transportation of high-temperature and high-viscosity polymer melts that require high output pressure, such as resin, chemical fiber and other industries. It is generally installed in the lower part of the reactor and used as a feed pump. This series of melt gear pumps have good self-priming performance and can be used for conveying and pressurizing polymer materials under vacuum reaction conditions.

The main materials that can be conveyed by the melt gear pump are:

Polymer melt
PET PBT PTT
PA6 PA66 PA12
PE LDPE LLDPE HDPE HMWPE
PP EVA PB
PB PS HIPS ABS SAN
PC PEK PMMA POM
TPU PLA PBS
Other stock solutions, solutions, glues, oligomers, prepolymers, etc. in the polymer material industry;
It can also be used to transport hot melt adhesives, asphalt, paints, adhesives, pharmaceuticals, food, grease, fuels, oils, dyes, coatings, lubricants, polyols and other

materials that do not contain particulate impurities.

Technical data:

Viscosity ： 1～30，000Pa•s （1,000～30,000,000cP）

Suction side pressure ： Vacuum（-0.05～-0.09MPa）～4MPa

Discharge side pressure ： 0～35MPa

Differential pressure ： 25MPa

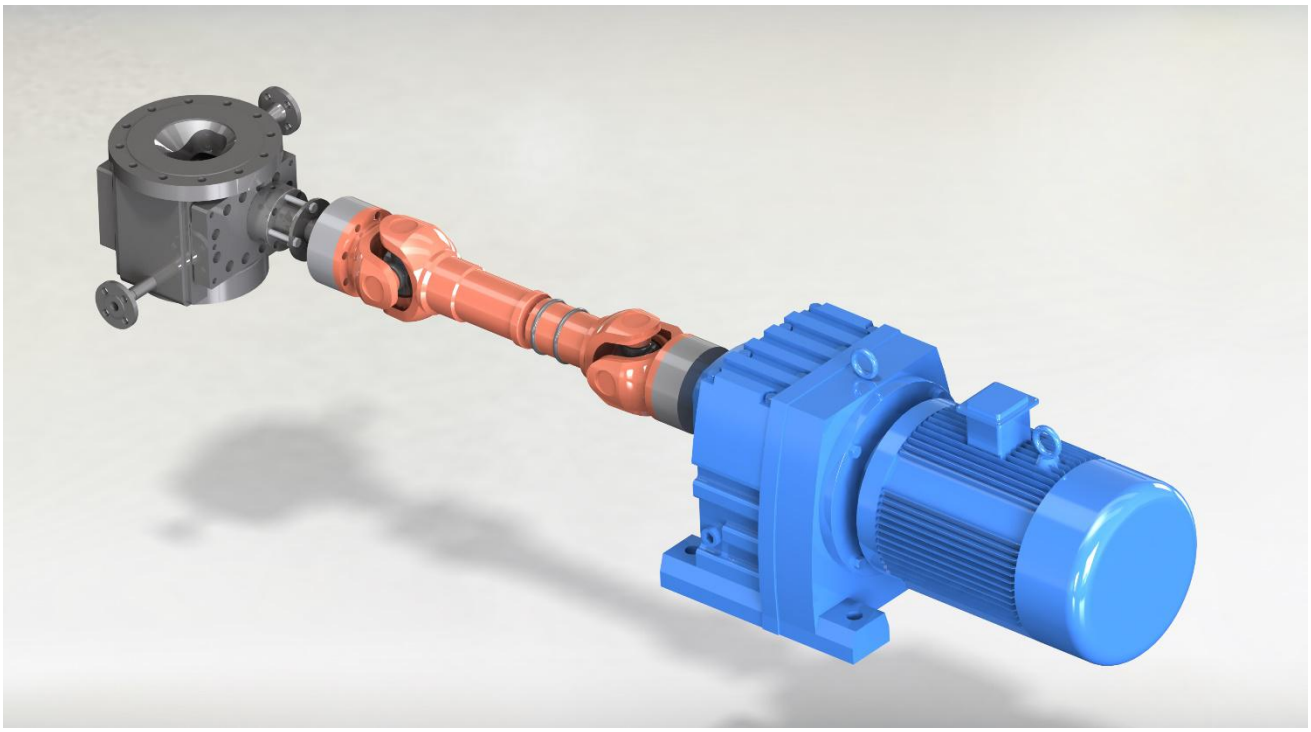
Temperature ： ≤350℃

Heating method ： Fully Jacketed

HTM pressure ： ≤1.6MPa

Installation method

The EHK series melt gear pump is generally installed at the bottom of the reactor and is driven by a motor + reducer + universal coupling. The melt gear pump is a positive displacement forced delivery pump. The pump output flow can be adjusted by adjusting the pump speed. It is recommended Using frequency conversion speed regulation, can realize the nearly linear flow output of the gear pump.



Main structure of gear pump:

Rotor type: helical or spur gear
Heating method: Heat medium heating

Sealing structure:

- Dynamic melt seal + packing seal
- Mechanical seal
- Dynamic seal with cooling melt
- High temperature resistant packing seal

Main structural materials of melt gear pump:

Pump casing: stainless steel/alloy steel/corrosion-resistant alloy
Gear: Nitrided steel/tool steel/stainless steel + coating/corrosion resistant alloy
Bearing: tool steel/copper alloy/stainless steel + coating/corrosion resistant alloy

Pump size and Technical data

Model	cc/r	Inlet pres. Mpa	Outlet pres. MPa	Max. flow rate m^3/h				Temp	
				Low viscosity material	Medium viscosity material	High viscosity material	Ultra high viscosity material		
				＜50Pa.s	50～200Pa.s	200～2000Pa.s	＞2000Pa.s		
EHK-5	5	Vacuum -0.09～4.0	≤35.0	0.041	0.027	0.019	0.012	≤350℃	
EHK-10	10			0.081	0.054	0.038	0.024		
EHK-20	20			0.162	0.108	0.076	0.049		
EHK-32	32			0.259	0.173	0.121	0.078		
EHK-50	50			0.405	0.270	0.189	0.122		
EHK-75	75			0.527	0.365	0.243	0.162		
EHK-100	100			0.702	0.486	0.324	0.216		
EHK-160	160			1.123	0.778	0.518	0.346		
EHK-200	200			1.404	0.972	0.648	0.432		
EHK-250	250			1.620	1.080	0.675	0.473		
EHK-355	355			2.3	1.5	0.9	0.7		
EHK-500	500			3.2	2.2	1.2	0.9		
EHK-750	750			4.9	3.2	1.8	1.4		
EHK-1000	1000			5.4	3.8	2.2	1.9		
EHK-1200	1200			6.5	4.5	2.6	2.3		
EHK-1600	1600			8.6	6.0	3.5	3.0		
EHK-2000	2000			10.8	7.6	4.3	3.8		
EHK-2500	2500			10.8	8.1	4.7	4.1		
EHK-3150	3150			13.6	10.2	6.0	5.1		
EHK-4000	4000			13.0	10.8	7.6	6.5		
EHK-6300	6300			20	17	10	9		
EHK-8000	8000			22	17	13	12		
EHK-9000	9000			24	19	15	13		

EHK-12000	12000			32	26	18	16		
EHK-18000	18000			49	39	27	24		
EHK-25000	25000			68	54	38	34		
EHK-38000	38000			103	82	57	51		
EHK-54000	54000			146	117	82	73		
EHK-80000	80000			216	173	121	108		
Please consult the manufacturer for larger or smaller specifications									