

ZB-E Series Pressurized melt pump for extruder

Introduction of Pressurized melt pump

ZB-E series pressurized melt pump for extruder is mainly used for extruder or pressurization, stabilizing flow and transportation of medium or high viscosity polymer. This series of melt pump primarily adopts electrical heating, and applies to PS, PET, PVC, PC, PA, PMMA, HDPE, LDPE, LLDPE, PP, etc.



Technical Parameter of Pressurized gear pump

- ◆ Melt Pump Body: High Temperature Tool Steel or Chromium-nickel Steel
- ◆ Gear: Stainless Steel, Nitrided Steel, or Customization
- ◆ Tooth profile: Straight tooth, Helical tooth, Herringbone tooth
- ◆ Sliding Bearing: High Temperature Tool Steel, special material and wear-resistant coating
- ◆ Shaft Sealing: Screw sealing, Packing seal, Screw sealing+Packing seal, the other combined sealing
- ◆ Heating System: Conduction oil heating

Operating Parameter of Pressurized pump

- ◆ Volume Range: 0.5CC - 2500CC
- ◆ Viscosity: ≤ 40000 Pas
- ◆ Working Temperature: $\leq 400^\circ$ C
- ◆ Cleaning Temperature: $\leq 450^\circ$ C
- ◆ Outlet Pressure: ≤ 12 MPa

Main Product: [melt pumps](#), gear pumps, metering pump; [loss-in-weight feeders](#), weight feeder, liquid feeder, gravimetric feeder, volumetric feeders; [screen changer](#), polymer filter, melt filtration equipment.

◆ Differential Pressure: $\leq 25\text{Mpa}$

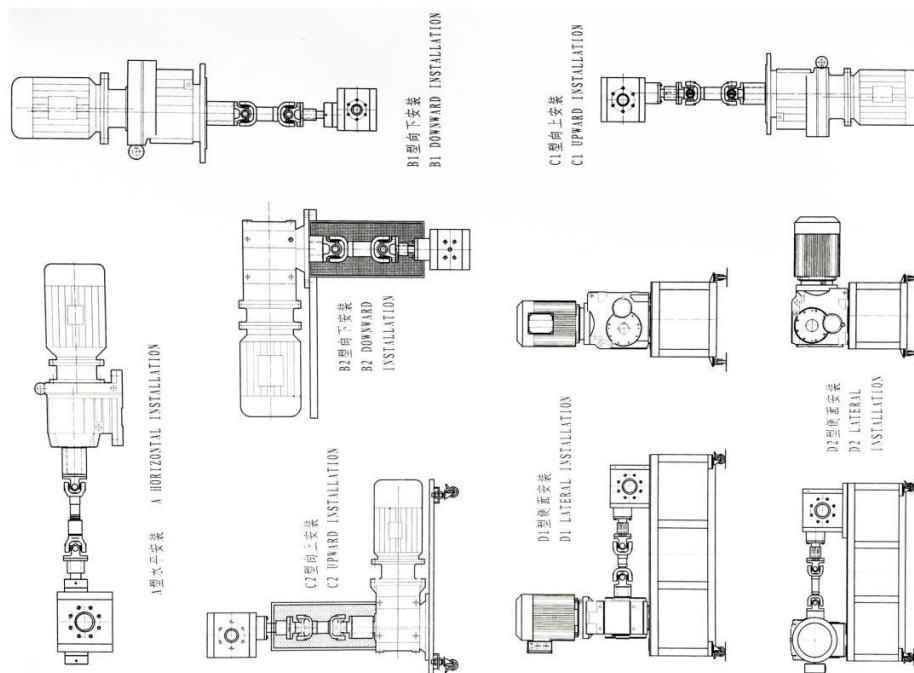
Features of Gear pressurized pump

- ◆ Stable output pressure, can effectively reduce the extrusion parameters caused by the unstable output of material and pressure pulsation.
- ◆ Improve the quality of the product dimensions and tolerances -- will minimize the extrusion products, reduce waste and scrap rate. Common extrusion machine can produce high precision products.
- ◆ Increase the output, reduce the pressure of the screw, the screw to die pressing, to melt pump to the die head pressure, the screw can be high speed extrusion, and can adjust the pressure to reduce the extruder, melt residence time in screw cylinder, stable plasticizing process, reduce the melting temperature, improve the yield and quality of products.
- ◆ Reduce unit energy consumption, data showed that the same granulation to twin screw extruder and melt pump combination, the mixing quality and yield is greatly improved than the twin-screw granulator unit separate. Energy consumption per kilogram of materials processing can be reduced by about 1/4.

Application of Gear pressurized pumps

- ◆ Polymer extrusion molding, such as granulation, film, pipe, plate, sheet, etc;
- ◆ High-viscosity materials :PS, PET, PVC, PC, PA, PMMA, HDPE, LDPE, LLDPE, PP, etc;
- ◆ Rubber, asphalt, paint, adhesives, coatings, lubricants, polyalcohol, non-particulate impurities;
- ◆ Polyester for cotton-fiber, polypropylene and other chemical fiber melt.

Installation of Pressurized pumps



Parameters of Pressurized gear pumps

Type	CC/Rev	Capacity (L/H)	Heating power (kw)	Dirven system (kw)	Pressure	Temperature
ZB-0.2	0.2	0.2-0.6	0.5	0.37	Inlet pressure: ≥0Mpa Exit pressure: ≤35Mpa	Operating temperature: ≤350℃ Clearing temperature: ≤450℃
ZB-1	1	1-3	1	0.5		
ZB-2	2	2-6	1	0.75		
ZB-5	5	5-15	1	1.1		
ZB-10	10	10-30	1	1.5		
ZB-20	20	20-60	2	2.2		
ZB-31.5	31.5	30-90	2	3		
ZB-50	50	50-150	2	4		
ZB-100	100	100-300	3	5.5		
ZB-150	150	150-450	4	7.5		
ZB-200	200	200-600	4	11		
ZB-250	250	250-750	5	15		
ZB-315	315	300-900	6	18.5		
ZB-400	400	400-1200	8	22		
ZB-500	500	500-1500	10	30		
ZB-630	630	600-1800	12	37		
ZB-800	800	800-2400	15	45		
ZB-1000	1000	1000-3000	18	55		
ZB-1500	1500	1200-4500	20	75		

The other Products



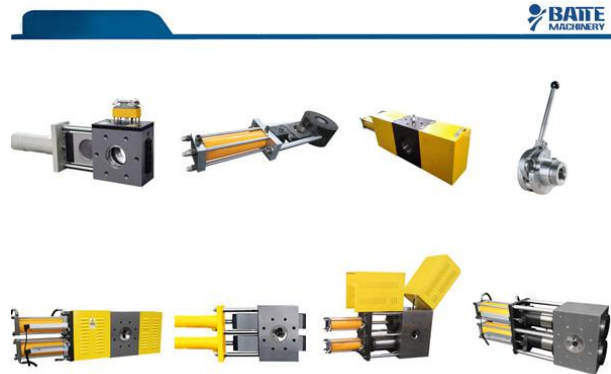
- [ZB-B Gear melt pump](#)
- [ZB-C Extruder melt pump](#)
- [ZB-D Extruding pump for polymer](#)
- [ZB-E Pressurized melt pump](#)
- [ZB-F Melt pump for reaction kettle](#)
- [ZB-H High temperature and high pressure melt pump](#)
- [ZB-K Polymer melt pump](#)
- [ZB-R Gear pump for rubber extruder](#)
- [ZB-U Spinning gear metering pump](#)
- [ZB-X Chemical transporting and dosing pump](#)

Skype: [Battemachinery](https://www.batte.com)

info@battemachinery.com
sale@meltump.com

Main Product: [melt pumps](#), gear pumps, metering pump; [loss-in-weight feeders](#), weight feeder, liquid feeder, gravimetric feeder, volumetric feeders; [screen changer](#), polymer filter, melt filtration equipment.

- [Double plate hydraulic screen changer](#)
- [Manual control screen changer](#)
- [Double piston four screen cavities screen changer](#)
- [Automatic mesh belt continuous screen changer](#)
- [Single piston screen changer](#)
- [Single plate screen changer](#)
- [Double piston double screen cavities screen changer](#)
- [Four screen cavities backflash screen changer](#)



Skype: Battemachinery

info@battemachinery.com
sale@meltump.com



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info@battemachinery.com
sale@meltump.com

- [Single screw gravimetric dosing feeder](#)
- [Single screw gravimetric feeder](#)
- [Twin screw loss in weight metering feeder](#)
- [Twin screw loss in weight feeder](#)
- [Volume feeding machine \(single screw,twin screw\)](#)
- [Micro loss in weight metering feeder](#)
- [Micro loss in weight feeder](#)
- [Liquid loss in weight feeder](#)
- [Multi-component loss in weight feeder](#)