

ZB-C Series Reinforced Plastic melt pump for extruder

Introduction of Plastic melt pump

ZB-C series reinforced melt pump for extruder is mainly used for stabilizing, pressurization and transportation of medium or high viscosity medium from the polymer flow layer. This series of melt pump adopts electrical heating, and applies to PS, PP, PET, PVC, PC, PMMA, PA, etc.



Technical Parameter of Extruder melt pump

- ◆ Melt Pump Body: High Temperature Tool Steel or Stainless Steel
- ◆ Gear: M2 Steel (Optional)
- ◆ Sliding Bearing: High Temperature Tool Steel or Stainless Steel
- ◆ Shaft Sealing: Double Spiral Sealing
- ◆ Heating System: Electrical Heating

Operating Parameter of Plastic melt pump

- ◆ Theory: Positive Displacement Gear Pump
- ◆ Structure: Gear Pump
- ◆ Power: Electric or Oil
- ◆ Fuel: No Need
- ◆ Pressure: High Pressure
- ◆ Volume Range: 0.5CC - 3200CC
- ◆ Viscosity: ≤ 40000 Pas
- ◆ Working Temperature: $\leq 400^{\circ}$ C (750° F)
- ◆ Cleaning Temperature: $\leq 450^{\circ}$ C (850° F)
- ◆ Outlet Pressure: 40MPa(6000psi)
- ◆ Differential Pressure: ≤ 25 Mpa

Features of Extruder gear pump

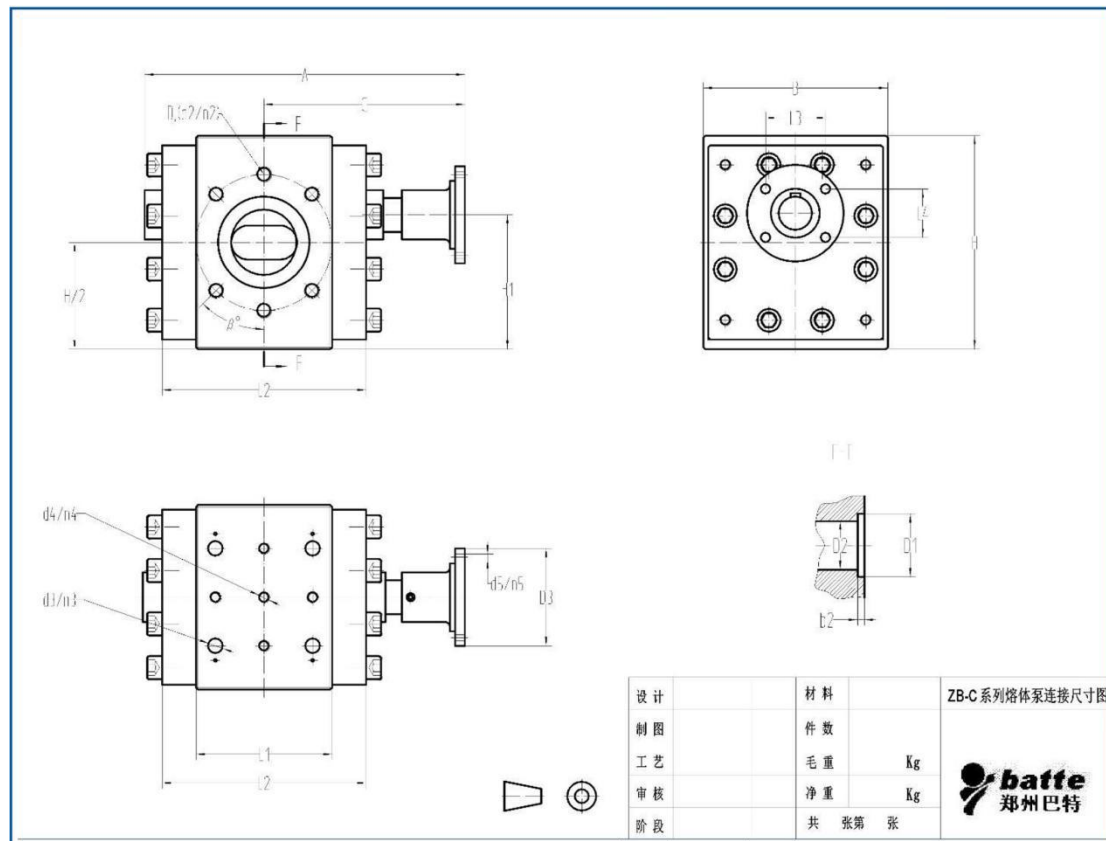
- ◆ The steady export pressure--plastic melt pump can reduce the extruder output instability and pressure fluctuation caused by the extrusion machine parameters.
- ◆ Improve the product quality--extruder melt pump can minimize the dimensional tolerance of the extruded product and reduce the waste and scrape rate. Common extruder can also produce high precision products.

- ◆ Improve the output--melt pump lower the pressure requirements for the screw, change the voltage buildup way, from “screw to die-head” to “melt pump to die-head”. With the characteristic of high speed extrusion and high efficiency, the production line can adjust the extruder back pressure, reduce the staying time of melt within the screw tubes. And it also can make the plasticizing process stable, reduce the melting temperature, improve the output and quality.
- ◆ Lower energy consumption unit--some data also suggests that combine the co-rotating twin-screw extruder and plastic melt pump into mixing extruding production line, its mixing quality and output can be large increased than separate twin-screw granulator. The energy consumption can reduce about 25% generally.
- ◆ Prolong service life--extruder melt pump can reduce the extruder screw cylinder pressure if equipped with the melt pump, it also reduces wear between screw and screw tubes to a minimum and reduce the load of thrust bearing in gear case, accordingly prolong the production line service life. And the overflow of material in production process caused by xtruder venting can be readily solved.

Application of Melt pump

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

Structure of Extrusion melt pump



Parameters of Extruder melt 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

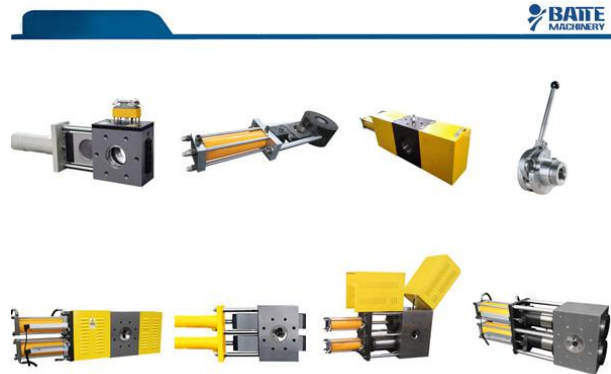


- [ZB-B Gear melt pump](#)
- [ZB-C Extruder melt pump](#)
- [ZB-D Extruding pump for polymer](#)
- [ZB-E Pressurized melt pump](#)
- [ZB-F Melt pump for reaction kettle](#)
- [ZB-H High temperature and high pressure melt pump](#)
- [ZB-K Polymer melt pump](#)
- [ZB-R Gear pump for rubber extruder](#)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

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