

## ZB-H high pressure extruder pump

### ZB-H high temperature & high pressure extruder pump applications:

ZB-H high temperature & high pressure extruder pump is applicable for engineering plastic or blown film technique. This series of high temperature melt pump is suitable for high temperature and high pressure conditions, and used for transportation, pressurization or the metering of the high temperature and high viscosity polymer melt.

High pressure extruder pump have a unique positive displacement design which provides consistent, accurate polymer delivery under varying extruder output conditions of pressure, temperature and viscosity. With [melt pump](#) providing the pressure between the extruder and the die, extruder parameters can be configured to provide a homogeneous melt at increased throughput and tighter gauge tolerances.



### Application of High temperature melt pump:

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

### Technical Parameter of High pressure extruder pump:

- ◆ Material for [Gear Pumps](#) Body: CPM Tool Steel or Titanium Tantalum Alloy
- ◆ Material for Gear: CPM tool steel, titanium tantalum alloy, special materials or abrasion resistant coating
- ◆ Material for Sliding Bearing: CPM tool steel, titanium tantalum alloy, special materials or abrasion resistant coating
- ◆ Shaft Sealing: Spiral Sealing
- ◆ Heating System: Electrical Heating



**Operating Parameter of High temperature melt pump:**

- ◆ Theory: Positive Displacement Gear Pump
- ◆ Structure: Gear Pump
- ◆ Usage: Plastic, Rubber Pump and Fiber
- ◆ Power: Electric or Oil
- ◆ Fuel: No Need
- ◆ Volume Range: 5CC - 3200CC
- ◆ Viscosity: ≤20000 Pas
- ◆ Working Temperature: ≤510°C(950°F)
- ◆ Cleaning Temperature: ≤590°C(1100°F)
- ◆ Inlet Pressure: ≤20MPa
- ◆ Outlet Pressure: ≤70Mpa
- ◆ Differential Pressure: ≤50Mpa
- ◆ Model/Flow Range: 5CC - 2500CC, 5cm<sup>3</sup>/rev - 2500cm<sup>3</sup>/rev

Pump Model	Pump Volume (CC)	Capacity (L/H)	Driven Power (kw)	Heating Power (kw)	Working Temperature	Working Pressure
ZB-0.1	0.1	0.05-0.2	0.2	1	≤400°C (750°F)	Outlet Pressure: ≤ 350Mpa  Outlet Differential Pressure: ≤ 275bar
ZB-0.5	0.5	0.25-1	0.37	1		
ZB-1	1	0.5-2	0.55	1		
ZB-2	2	1-4	0.75	1		
ZB-5	5	2.5-10	1.1	2		
ZB-10	10	5-20	1.5	2		
ZB-20	20	10-40	2.2	2		
ZB-31.5	32	16-60	3	2		
ZB-50	50	25-100	4	3		
ZB-100	100	50-200	5.5	4		
ZB-150	150	75-300	7.5	5		
ZB-90/90	200	100-400	11	6		
ZB-100/100	250	125-500	15	8		
ZB-100/100	315	150-300	18.5	8		
ZB-115/115	500	200-1000	22	12		
ZB-130/130	800	400-1600	30	15		
ZB-160/160	1200	600-2400	37	20		
ZB-180/160	2500	1250-5000	55	20		
ZB-180/180	3200	1600-6400	55	24		
ZB-224/224	6000	3000-6000	75	30		

## Batte Main Products

### Melt Pump Series:

- ★ [ZB-B standard extrusion melt pump](#)
- ★ [ZB-C reinforced melt pump for extrusion](#)
- ★ [ZB-D gear pumps for pipeline](#)
- ★ [ZB-E pressurized melt pump](#)
- ★ [ZB-F melt pump for reactor](#)
- ★ [ZB-H high pressure extruder pump](#)
- ★ [ZB-K polymer discharge gear pump](#)
- ★ [ZB-R extrusion rubber pump](#)

- ★ [RS double shaft rubber gear pump](#)
- ★ [ZB-U spinning pump](#)
- ★ [ZB-W chemical metering melt pump](#)
- ★ [ZB-X gear metering chemical pump](#)
- ★ [New type melt pump](#)
- ★ [Melt pump spare parts](#)
- ★ [PID control system for extruder](#)
- ★ [PLC control system for extrusion line](#)
- ★ [PDF download](#)

### Screen Changer Series:

- ★ [Manual screen changer](#)
- ★ [Slide plate screen changer](#)
- ★ [Continuous piston screen changer](#)
- ★ [Continuous backflush screen changer](#)
- ★ [Automatic belt screen changer](#)
- ★ [Pelletizer filter without wire mesh](#)
- ★ [Screen changer spare parts](#)
- ★ [PDF download](#)

### Loss in Weight Feeder Series:

(For granule, sheet, powder, liquid, etc.)

- ★ [Loss in weight screw feeder](#)
- ★ [Volumetric screw feeder](#)
- ★ [Liquid polymer feed system](#)
- ★ [Multi-component gravimetric feeders](#)
- ★ [Gravimetric feeder control system](#)
- ★ [Feeding system](#)
- ★ [PDF download](#)

