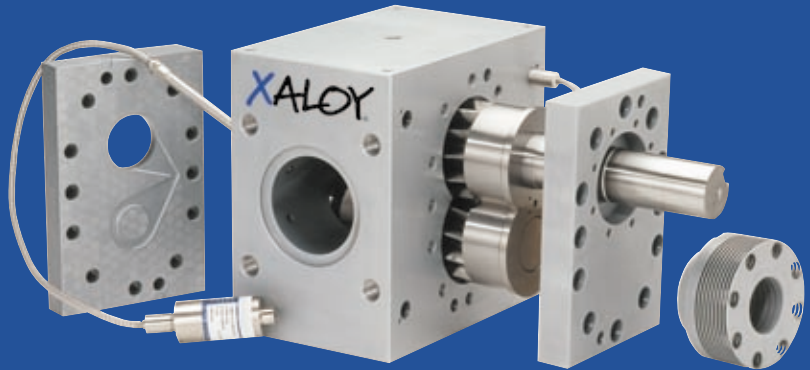


# High Pressure Melt Pumps (MHDP)

- Significant Material Savings
- Higher Product Quality
- Less Scrap and Runs Re grind
- Reduce Load on Your Extruder



The additional control of a Xaloy Melt Pump installation also provides you with more production line flexibility, first by shortening start-up times on difficult materials and second, by processing multiple polymers with the same screw. The Xaloy EMPAC Control closes the loop from pump inlet pressure to extruder drive while monitoring downstream pressure to eliminate any problems due to downstream line stoppage.

## Benefits

- Material Savings
- Increased Output
- Increased Extruder Life
- Faster Start Ups
- Lower Processing Temperature
- More Accurate Gauge Control
- Reduced Scrap
- Lower Shear Stress
- Process Recycled Materials
- Fast Paybacks
- Sizes Available for all Products/Extruders

**Extrusion Line Synchronization Made Easy.** With an Xaloy pump between your extruder and die you can directly dial in gauge control, eliminating extruder surge and screw beat at the die. Extruder screws efficiently melt, mix and convey polymer, but are not as efficient at providing a consistent pressure and volume to the die. A melt pump, while not a mixing or melting device, is extremely efficient at building pressure and metering the polymer output.

**The Xaloy Melt Pump is a positive displacement device which provides a linear output over a wide range of operating conditions.**

A closed-loop drive control varies extruder screw speed to assure an adequate amount of polymer to the pump regardless of inlet pressure variations due to extruder surge and screw beat. Precise construction makes Xaloy Melt

Pumps extremely accurate volumetric metering devices. Each gear tooth "bucket" carries a precise, repeatable amount of polymer melt to the output side of the pump.

## Integrate the Systems

Put an Xaloy Screen Changer in front of the Xaloy Melt Pump and further increase the productivity of the extrusion line all from one company.

## Melt Pump Options

- Adaptors
- Controls
- Drive Systems
- Stands
- Internal Fluid Channels (Heat/Cool)
- Manual Screen Changers
- Hydraulic Screen Changers
- Continuous Screen Changers
- Static Mixers
- Divert Valves

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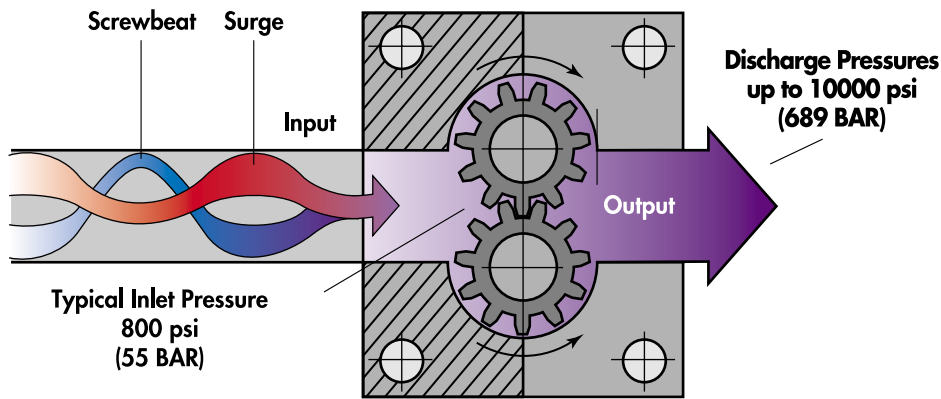
# High Pressure Melt Pumps (MHDP)

## Specifications

	MODEL MHDP 110/043	MHDP 155/080	MHDP 183/100	MHDP 240/120	MHDP 275/175	MHDP 300/200	MHDP 350/230	MHDP 430/300	MHDP 550/350	MHDP 600/300	MHDP 600/400
CC/REV	3.9	16.7	31.1	56.5	112.3	186.1	246.5	494.9	731	1103	1471
LBS/HR/RPM @ S.G. = 1.0	0.519	2.21	4.11	7.46	14.85	24.60	32.57	65.41	96.6	146	194
KG/HR/RPM @ S.G. = 1.0	0.236	1.00	1.87	3.38	6.73	11.16	14.77	29.66	43.8	66	88
Thruput/min. 1.0 S.G. @5 rpm (lbs/hr)	2.6	11	21	37	74	123	163	327	483	729	972
Thruput/min. 1.0 S.G. @5 rpm (kg/hr)	1.2	5	9	17	34	56	74	148	219	331	441
Thruput/min. 1.0 S.G. @50 rpm (lbs/hr)	26	110	206	373	742	1230	1629	3271	4830	7288	9720
Thruput/min. 1.0 S.G. @50 rpm (kg/hr)	12	50	93	169	337	558	739	1483	2190	3305	4408
Heater KW Required	0.6	1	1.6	3	4	4	4	9	12	16	N/A
Pump Weight LBS	22	49	66	135	188	199	312	706	1260	1500	1625
Pump Weight KG	10	22	30	61	85	90	141	320	572	680	737

Process and Material Dependent  
 Maximum Operating Pressure: 10,000 psig (689 BAR)  
 Maximum Differential Pressure: 7,500 psig (517 BAR)  
 Maximum Temperature: 650 F (343 C)  
 Transducer Ports: 4 locations in body for 155 size and larger pumps

Note: The MJHDP model is an option. The pump body has internal channels to accept a heat/cool fluid media. The MJHDP option is utilized for heat sensitive polymers when very accurate temperature regulation is required.



Our worldwide presence includes sales and service offices located in the United States, Europe, Thailand, Japan, China and India and a global network of agents geographically positioned to serve customers throughout the world.

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