

# Melt Channel Screw



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BE Melt Channel Screws deliver the extrusion performance you need. For consistent quality, low melt temperature and minimal pressure fluctuation use BE Melt Channel Screws. These screws provide low shear rate, uniform solids/melt transition, efficient melting and consistent pumping.

## **Method of Operation**

BE Melt Channel Screws are designed for operation with smooth bore extruders but can be modified to work with grooved feed throat machines. With the resin in the screw, the material is augured forward by the rotating screw until it is compacted and conveyed forward by frictional forces. The deep feed section accommodates a wide range of bulk densities for enhanced scrap recycling. The screw tapers to a shallow exit section.

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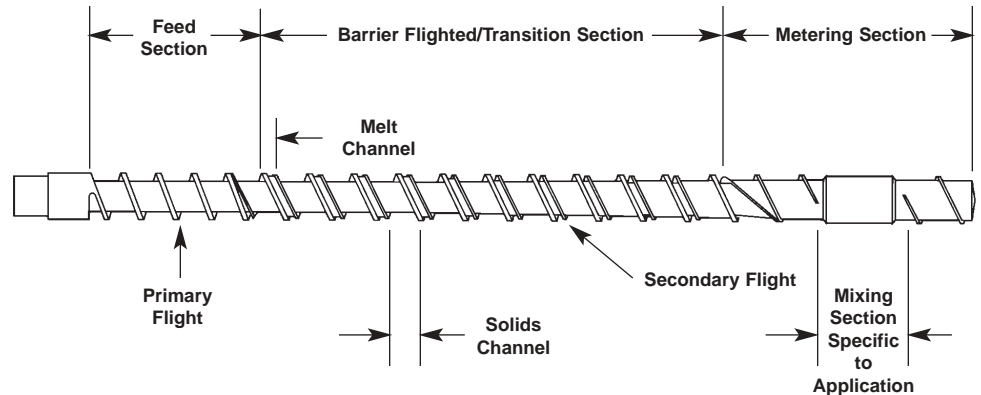
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## Distinguishing Features

Low melt temperature increases system throughput rate and provides less thermal degradation. BE Melt Channel Screws provide balanced feed and melting rates. The melt channels are sized to flush easily. Users can deliver high throughput without increase in energy consumption for lower operating costs. Improved dispersive and distributive mixing permits a wide blending range. Streamlined, chrome-plated screws facilitate easy cleaning and long life. Operators will realize consistent quality with the low melt temperatures and minimal pressure fluctuations. Spiral Maddock mixer is also available.

## Standard Features

- Colmonoy 56 inlay on screw flights for wear resistance
- chrome-plated root for corrosion resistance and easier cleaning
- polished and ground (4140) for durability.



Extrusion Screw Performance Specifications							
Screw size mm (in)	L/D	Recommended configuration hp/max rpm	Specific output*				
			1 MI LLDPE		1 MI LDPE		
			kg/hr/rpm	lb/hr/rpm	kg/hr/rpm	lb/hr/rpm	
65 (2.5)	30	60/125	1.1-1.3	2.4-2.8	0.9-1.1	2.0-2.4	
90 (3.5)	30	125/100	4.1-4.5	9.0-10.0	3.6-4.1	8.0-9.0	
120 (4.5)	30	250/100	6.4-7.7	14.0-17.0	5.7-7.0	12.6-15.3	
150 (6.0)	30	400/80	10.9-12.7	24.0-28.0	10.0-11.8	22.0-26.0	

\* These are typical observed values. Output may be higher or lower depending on material, system pressure, rpm or other specific requirements. For 24:1 subtract 10-15%