

Procedure

A sample material is placed in a cooled hopper where it falls onto the heated surface of a cylindrical rotor. As the rotor turns, the material drags against the inclined surface of the stationary scroll. This motion begins transport toward the outlet die. As the material collects in the radial gap it is compressed by the converging space between the scroll surface and end of the header case. The material then moves to the axial gap where it is rotationally sheared between the end of the rotor and inside of the case. This motion induces a centripetal pumping effect, enabling the material to flow to the outlet die and exit through the orifice.

Recommended Features

LME TAKE UP SYSTEM

The Take Up System is a multi-purpose variable drive machine. It can draw and wind very small diameter extrudate fibers from the LME onto a spindle or draw larger rods through a pair of nip rollers. The nip rollers can also be used with the optional ribbon header. In all cases, the speed of the system can be adjusted to match the rate of extrusion and provide the desired fiber/rod diameter or tape/ribbon width. The nip rollers are also used to guide the extrudate rod to the Chopper (pelletizer) system.

LME CHOPPER

The Chopper pelletizes the extrudate from the Take Up System. Extrudate feeds into the chopper inlet from the nip roller of the Take Up System. The size of the pellets is determined by the feed speed to the chopper.

USES AND APPLICATIONS

- Plastics and rubbers
- Pelletizing
- Shape extrusions
- Polymer blends
- Film extrusions
- Fiber spinning
- Wire coating
- Melt spinning

COMPOUNDING OF:

- Stabilizers
- Fillers
- Plasticizers
- Flame retardants
- Pigments
- Antioxidants
- Pharmaceuticals
- Additives

Specifications	
Dimensions:	19"W x 24"D x 9"H (49cm x 61cm x 23cm)
Standard Header Included:	1/8 (0.312cm) diam. orifice (replaceable) rod extrusion
Weight:	120 lbs. (54.5kg)
Cooling Water Feed Hopper:	1 gal/hr tap water (3.785/hr)
Electrical:	230V, 50Hz/120V, 60Hz



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Refer to www.dynisco.com for access to Operator Manual and other support documentation.
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