

At **Md Plastics Inc.**,
"Inventing Better" is
more than just a tagline

Since 1999, Md Plastics Inc. has been in the business of helping injection molders be more profitable by designing and manufacturing better plasticating components as well as developing entirely new technologies. We have the technical knowledge, decades of experience and disciplined mindset to provide you with the right solutions!

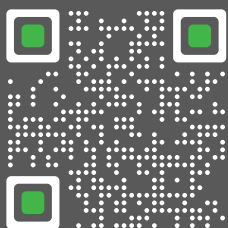
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MD PLASTICS

POSI~MELT™

Multipurpose Injection Molding Screw

Patent# 7,652,528



The Posi~Melt™ patented feed screw is a core change to the geometry of the antiquated general purpose "GP" screw technology developed in 1950s.

The Posi~Melts™ unique flight design alters the flight pitch and root of the screw through the melting section making them un-tangential with each other disrupting laminar flow. The geometry increases plastic exposure to the barrel wall by up to 60% delivering a uniform homogenized melt. The Posi~Melt™ is the most versatile screw technology available in the industry today for delivering a high-quality melt at a low manufacturing cost. The design has succeeded processing resins from LCP to PC and Rigid PVC with diameters from 14mm through 240mm.

MAXIMIZE YIELD AND PROFITS

BETTER MELT PREPARATION

FEATURES

- Tested and Proven Process History
- High Melting Efficiency
- Easily Designed for Specific Applications
- Lower Reliance on Back Pressure for Melt Quality
- 100% Pressurized Channel Through Flighted Length
- Radii design prevents Low Velocity and Maximizes Pump Rate
- Can be Coupled with the XLA Mixer and the MB Barrier Designs
- Metallurgical Options for Abrasion and Corrosion Wear
- Size Range 14 MM to 240MM Diameter
- Applicable to Standard OEM L/D Ratios

BENEFITS

- Delivers a Uniform High-Quality Melt
- Increased Production Yield
- Decreased Scrap Rate
- Consistent Residence time per Cycle
- Lower Consistent Melt Temperature
- Advanced Technology at an Affordable Cost
- Consistent Conveying, Compaction, Melting and Pumping
- Decreased Start Up Time with a Wider Process Window
- Increased Throughput and Self Cleaning
- Reduction in Molding Issues
- Quicker Screw Recovery
- Multi-Purpose Use
- Long Wear Life

