

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!

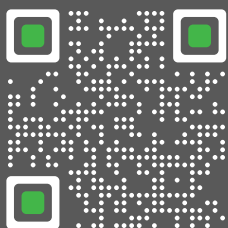
1361 Wardingley Avenue  
Columbiana, Ohio 44408

Ph: 330-482-5100

Fax: 330-482-5211

mdplastics.com

info@mdplastics.com



mdplastics.com

**Md PLASTICS**

## Custom Designed Extrusion Screws



The Posi~Melt™ patent# 7,652,528 Feedscrew is a high performance multipurpose screw that can be optimized for many different polymer materials.



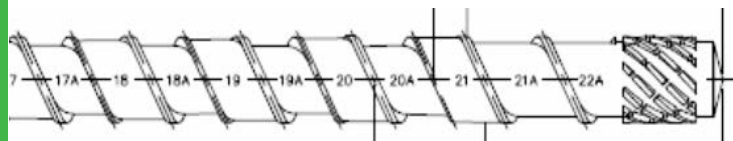
The XLA mixer disrupts the melt stream, adds extensional strain, relaxation, and cross-flow for distributive mixing. The mixer land clearance is adjusted for added dispersion when required.



The MB~XLA™ is a barrier mixer screw using the Posi~Melt™ and MB~XLA™ geometries. The screw utilizes a unique barrier section with the barrier starting on the trailing edge of the primary flight and catching up to the same flight downstream on the leading edge. The MB barrier forces the polymer between the barrier flight and the barrel ID for added extensional strain to complete melting.

### EXTRUSION SCREW TECHNOLOGY

#### MAXIMUM THROUGHPUT & MELT QUALITY



### Custom Designed Polymer and Application Specific Barrier and Mixer Geometries

High performance barrier designs may be coupled with the "XLA" Maddock, Dulmage, Saxton, Spiral UCC or other mixer designs for processing a variety of plastic groups including PP, HDPE, LDPE, PS, PET, ABS and others.

#### FEATURES

- Tested and Proven Designs
- Custom Designed for Specific Polymers and Applications
- 100% Pressurized Channel Through Flighted Length
- Radii design prevents Low Velocity and Maximizes Pump Rate
- High Performance Barrier and Mixer Flight Geometries
- Metallurgical Options for Abrasion and Corrosion Wear
- Size Range 14 MM to 240MM Diameter

#### BENEFITS

- Consistent Conveying, Compaction, Melting and Pumping
- Delivers a Uniform Better Melt Quality
- Advanced Technology at an Affordable Cost
- Helps to Eliminate Surging
- Reduces Process Issues
- Maximum Throughput
- Long Wear Life

