



StrataMelt™ Injection Screw

The StrataMelt™ injection molding screw combines the simplicity and economy of a conventional single-stage screw with the benefits of intensive but low-shear mixing. In addition, we optimize the geometry of the feeding, melting and metering zones to the materials you specify.

Mixing action is provided by our patented* StrataBlend® II mixer. Its cut-through melt channels allow back flow to produce intensive chaotic mixing. Yet shear is low, and temperature rise is negligible. The design also produces positive pumping, which promotes self-cleaning performance during color and resin changeover.

What its mixer can do for you

- Improve color uniformity with excellent mixing and dispersion of colorants.
- Enhance effects of additives, fillers and reinforcements on product properties.
- Debundle glass fibers with minimal breakage.
- Homogenize melt temperature.
- Allow faster material/color changeover than some mixing screws because of its self-cleaning action.

What optimized geometry can do for you

- Speed screw recovery
- Reduce short shots
- Improve temperature control

Typical applications

- Molding materials with color and additive concentrates, fiber reinforcements and/or fillers, including nanoclays
- Molding most thermoplastics, including shear-sensitive polymers and engineering resins.

Ready to meet your needs

For a quotation or additional information, contact your Xaloy representative today. To locate a representative in your area or country, visit <http://xaloy.com/sales.html>.

*U.S. patents 4,639,143 and 6,488,399.

Unique screw designs that make MORE money

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