

Xaloy[®] V-Mixer[™] Screw

The Xaloy V-Mixer[™] screw offers a proprietary “pump-through” mixing design that generates localized high and low shear areas with low mixer pressure drop. Its unique geometry generates mixing forces in two directions. A squeezing action forces the melt stream towards the barrel wall (up and down) and between the flights (side to side) concurrently. The adjustable channel depth varies the levels of dispersive versus distributive mixing.



Features and Benefits

Rating

When compared to a single stage, general purpose screw of comparative root geometry, the Xaloy V-Mixer[™] screw delivers a mixing quality that is 4-5 times better.

Advantages

- Processes a variety of materials
- Comparatively lower melt temperatures
- Less back pressure required
- Quick color changeability
- No marbling or streaking

Benefits

- Wide application and processing window
- Lower scrap rates
- Controlled geometry enables use with shearsensitive resins
- Excellent part quality and surface finish
- “Pump-Through” design gives higher throughput than other dispersive mixers
- Quick color changes

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