

Extrusion Screws

Extrusion Screws enable you to maximize extrusion throughput, product quality and component life.

The Fusion™ Screw delivers higher throughput at lower melt temperatures than earlier barrier designs and has proven its benefits in processing polyolefins, PET, and PLA in various extrusion and blow molding processes.

The Efficient™ Screw. This barrier design has proven its value with over 30 years of application in all extrusion processes utilizing a variety of thermoplastic resins.

The Stratablend® II Mixer is a low-shear distributive mixer produces a melt of uniform temperature. It is highly suitable for processing shear-sensitive engineering resins such as polycarbonate or ABS as well as polyolefins and materials containing high levels of colorants, fillers or glass fibers.

The Nano™ Mixer breaks up and disperses color and filler agglomerates, including nanoclays. Ideal for processing sheartolerant materials.

Features and Benefits

L/D retrofits

- can modify any extruder to extend or shorten its L/D ratio to cope with changed process requirements. We engineer and deliver complete retrofit packages including a compatible screw and barrel suitable for your process plus heater bands, cover modifications and front barrel support modifications, as required.

L/D retrofits

- For more information, a recommendation for the screw best suited for your requirement or a quotation, contact your representative today. For additional contact information outside the U.S., visit www.polymerprocessing.com on the Web.

Related Services

Optimizing performance

- Ask us to analyze the performance of your current screw design. Chances are good that we can improve on its output, melt quality and/or melt temperature profile with one of our proprietary high-performance designs custom-tailored to your materials and process. And we can prove that it works at our Technology Center in New



is the industry leader in plasticizing screw, mixing, injection molding component, and materials technologies, holding over 20 patents on innovative plasticizing component design and wear resistant material solutions that have made a difference in the plastics industry.

Built for your process

- We build screws to your requirements using a range of base materials and hardsurfacing alloys.

Full-length coatings and other treatments can afford additional protection against corrosion and abrasion. Available treatments include nitriding, chrome plating, and X-8000™ metallurgically bonded encapsulation for protection of root and flank surfaces as well as flight tops.

OEM replacements

- You can count on for precise reproduction of geometry, materials and finish of the original components that came with your machine.