



# Uniflo Mixer (USM)

PSI Uniflo Mixers allow continuous mixing and blending for a variety of materials by dividing the melt stream continually. The principal of operation is a helical mixing element, containing alternating elements or fins, which provide complete radial and axial blending for any combination of liquids, gases, and polymers.

PSI Uniflo Mixers can be custom designed according to specific applications. Mixer housings include bolt through, threaded, weld-prep, or flanged ends for easy installation.



## Features

- Leak-free operation to 10,000 psi
- Compact / Low profile design
- All parts manufactured to ISO-9002 standards
- Removable mixing element
- Electric or jacketed for heating and/or cooling
- Process temperatures to 850° F
- Bolt-through, threaded, weld-prep, or flanged ends available

## Benefits

- Allows complete mixing and blending of most liquids, gases, polymers, and powders
- Removable mixing element ensures minimal maintenance and quick material change
- Reduces thermal degradation by eliminating temperature gradients
- Can be used for low or high viscosity applications
- Can process highly corrosive materials
- Short, uniform residence time
- Compact, round design permits easy adaptation and flexible installation
- Quick delivery time

## Applications

- Mixing and blending
- Foam Extrusion
- Extrusion of Color and Additives
- Polymerization
- Temperature uniformity
- Laminar and turbulent blending
- Corrosive materials

## Industries

- Food preparation/packaging
- Polymer extrusion and processing
- Gas, powder, color, and liquid
- Textiles (fibers and nonwovens)
- Injection molding
- Degradable materials
- Specialty films