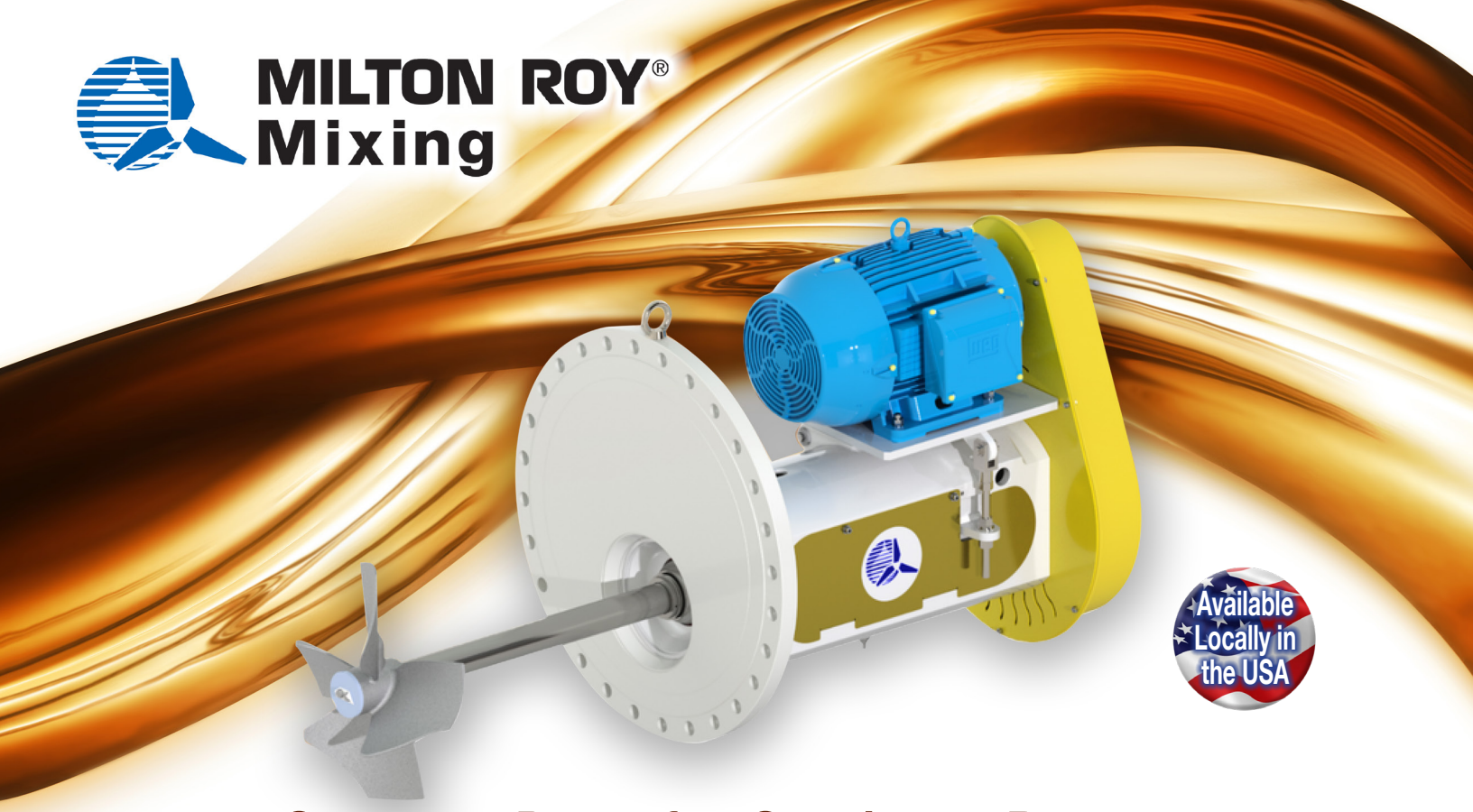
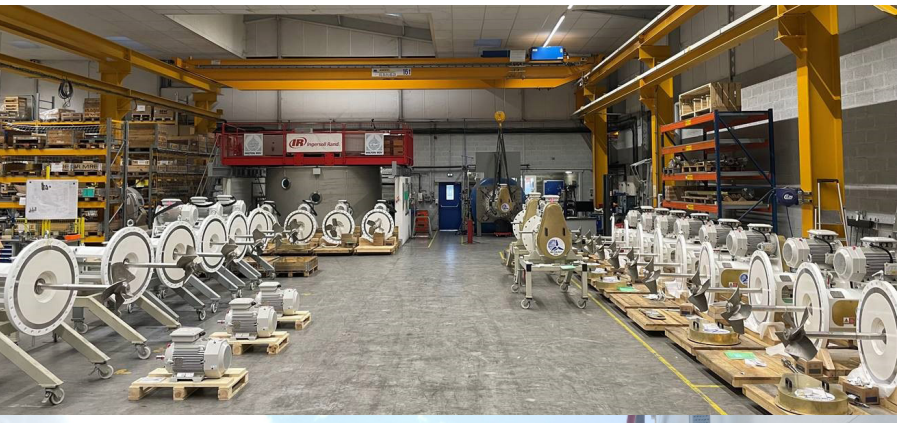
MILTON ROY®
Mixing



Compact. Powerful. Consistent Results.

Milton Roy Mixing's high-performance side-entry mixers are designed for large-capacity storage tanks and critical applications, ensuring rapid blending, homogenization, BS&W management, and precise temperature control. The advanced Sabre® four-blade impeller delivers high flow and velocity for optimal mixing efficiency while enabling fast installation and consistent, reliable results. An exclusive static sealing system minimizes maintenance, eliminating downtime and the need to drain the tank—ensuring seamless operation tailored to your tank's design.





Main Applications

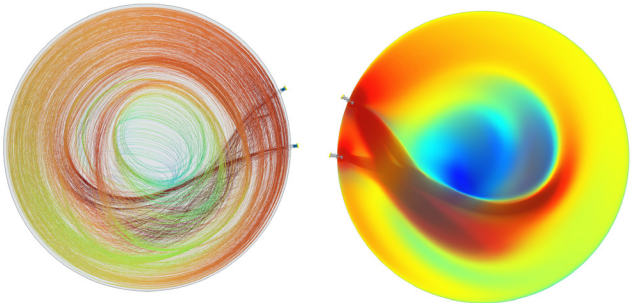
- BS&W Control
- Blending
- Homogeneity
- Temperature Uniformity
- Crude Finishing

Products

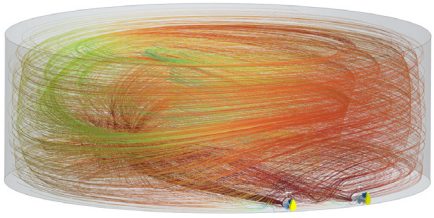
- Crude oil and condensates
- Refined by-products
  - Gasoline
  - Fuel oil
  - Diesel
  - Napthalene
  - Kerosene
- Bitumen & Asphalts
- Sustainable Aviation Fuel (SAF)
- Bioethanol and Biodiesel
- Lubricant, Oil and Solvents
- Effluent/Water

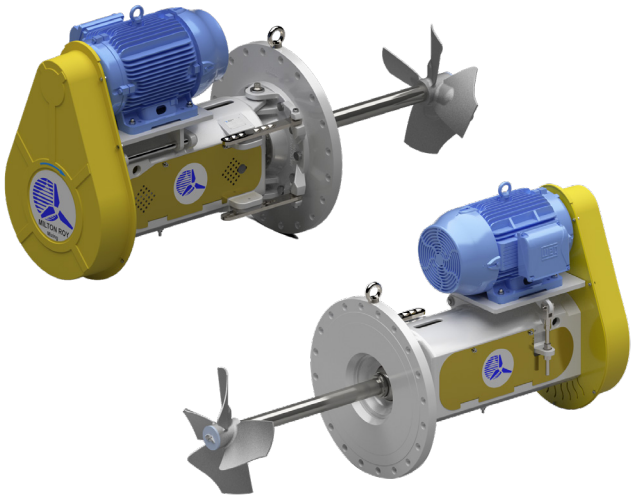
Side Entry Mixers

Flow Pathways



Velocity Distribution





Design Excellence

- Belt driven
- Easy installation and maintenance
- High powered 4-blade Sabre® impeller for greater flow/velocity
- Powergrip® GT4 Carbon or Eagle PD1® Drive - High quality belts
- Consistent agitation performance
- CFD (Computational Fluid Dynamics) analysis ensures the best mixing results
- Operating temperatures up to 480 °F
- Modular design
- Easy belt tensioning

Optional Features

- Dual mechanical seal for leak prevention and emission control
- 316L S.S. Sabre® Propeller

Standards of Excellence

- ISO 9001:2015
- OHSAS
- ATEX / UL Compliance

Electrical Features

- Power from 10 to 75 HP
- NEMA standard motors
- 50/60 Hz
- TEFC, Ex-Proof, IEEE-841 available

Competitive Advantages

- Easy installation and maintenance
- Shorter blend times
- Sabre® impeller designed for larger tank volumes
- Turret design housing allows for ease of maintenance
- Specifically designed for increased reliability and improved MTBF
- Short delivery lead-times
- Energy savings

Main Features

- From 629 to 1.3 MM Barrels
- Rapid shut off device with lockout verification and positive lockout
- 316L S.S. transmission parts
- Single cartridge mechanical seal
- Carbon steel impeller
- Swivel or fixed angle

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