

FENIX[®] ROTARY VACUUM DRUM FILTER

Advanced Solid-Liquid Separation Technology by Fenix Process Technologies

The Fenix Rotary Vacuum Drum Filter (RVDF) is a proven, continuous vacuum filtration system that has been the industry standard. Fenix delivers reliable, efficient solid-liquid separation for high-volume slurry processing with minimal operator attention and low operational costs.

FENIX offers RVDF supply, along with your existing RVDF (any make) Refurbishment services and Spares supply.

Integrated Solution — Filtration, washing, drying, and discharge all in one unit



Fenix Rotary Vacuum Drum Filter with Open Hood Design

Material Options:

- Carbon Steel
- Stainless Steel
- Titanium
- & Specialty Plastics
- Reduced Waste
- Wastewater Treatment
- Resource Recovery

Filter Capacity

Available: From 25 m²
to 110 m²

APPLICATIONS

The rotary vacuum drum filter is the preferred technology across diverse industries:

- Solvent Dewaxing — Separation of wax crystals from lubricating oils and distillate oils using chilled solvent; efficient filtration and washing of wax cakes with cold solvent; improved wax recovery and oil purity
- Pulp & Paper — Pulp washing, lime slurry recovery, sediment filtration, green liquor clarification
- Biofuels — Feedstock preparation and product separation
- Pharmaceuticals, Chemicals & Minerals
- Food & Beverage
- Wastewater Treatment



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FENIX®

SCRAPED SURFACE HEAT EXCHANGERS (SSHE)

Fenix scraped surface exchangers combine advanced mechanical design with proven operational reliability.

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- Operational Stability - Engineered for 24/7 industrial operation
- Service Life - Extended maintenance intervals (50,000 + hours)
- Thermal Performance - Optimized heat transfer even with problematic products
- Ease of Installation - Pre-assembled, minimizing field labor
- Custom Capability - Available in sizes from 6" to 12" inner diameter with unlimited custom options



Fenix SCRAPED SURFACE HEAT EXCHANGERS (SSHE)

APPLICATIONS

- Lube Oil Dewaxing - Separation of wax components from lubricating oils through controlled crystallization.
- Paraxylene & Chemical Crystallization - Separation of desired product components through selective crystallization.
- High-Viscosity Product Handling - Products with viscosity >10,000 cP or severe fouling tendencies cannot be processed in conventional heat exchangers.
- De-oiling of Wax Products - Removal of residual oils from wax through cooling and mechanical separation.
- Continuous Mixing Under Heating/Cooling - Intensive mixing combined with precise thermal control. Ideal for: Fatty acid processing, Cellulose acetate flake production, Specialty chemical blending, Semi-solid product formulation



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