



Cost-effective solutions for hygienic applications

The complete Alfa Laval OptiLobe rotary pump range



Consumer safety – guaranteed

Alfa Laval's advanced hygienic design



Gentle, hygienic product treatment

Alfa Laval OptiLobe's high-precision rotors and low-shear operation ensure gentle handling of delicate products. With full cleanability and drainability, Alfa Laval OptiLobe also complies with the world's leading hygienic standards.

Designed for cleanability

Seal faces in the Alfa Laval OptiLobe have direct contact with high-velocity product media. This ensures a fast and secure cleaning-in-place (CIP) process, reducing both maintenance downtime and contamination risk.

100% stainless steel

Alfa Laval OptiLobe is a paint-free, corrosion-resistant pump with an all-stainless-steel exterior that is easier to clean, helping to ensure a more sterile environment and prevent the risk of contamination.



- Conforms to CE directives and EHEDG, 3-A and FDA hygienic standards
- Defined compression elastomers ensure high product quality
- Cusps cut back to allow full drainability and product recovery
- Optimized seal face location
- Supports full cleaning-in-place and sterilization-in-place processes

Simplicity meets quality

Your ideal pump for standard hygienic duties

The Alfa Laval OptiLobe is a rotary lobe pump that is optimized for reliable, cost-effective performance in applications with low flow rates (up to 77 m³/h) and pressures as high as 8 bar. Alfa Laval OptiLobe combines high hygiene and consumer safety standards with improved yield and production sustainability, all within an easy-to-service design. With a complete range that includes ten models and five different frame sizes, there are options for very low as well as very high production capacities and everything in between.

Our experts have engineered Alfa Laval OptiLobe to meet the demands of general duties within the dairy, food, beverage, home and personal care industries. The option of heating or cooling covers, available upon delivery or as a retrofit, further creates possibilities to use Alfa Laval OptiLobe in a wide array of applications.

Alfa Laval OptiLobe is an ideal choice for applications where cleanliness is paramount, and it is certified according to European Hygienic Equipment Design Group (EHEDG) protocols for full cleanability. The range also conforms to 3-A sanitary standards and all relevant components are FDA-compliant.

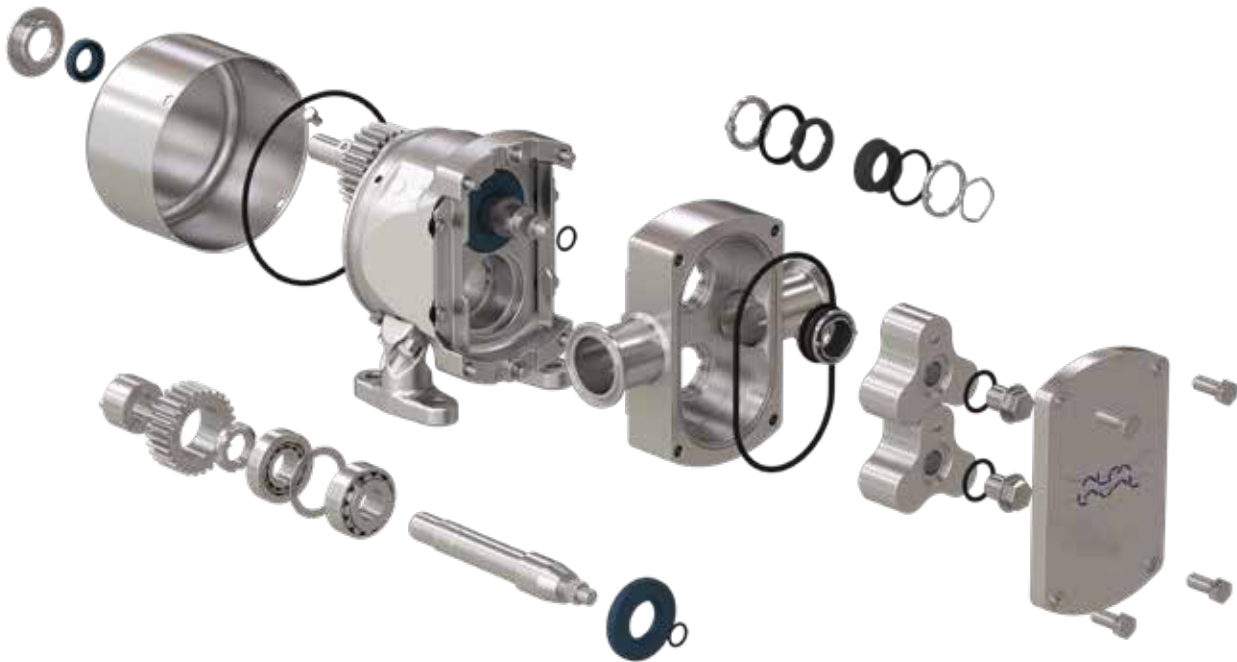
All models in the range ensure high process flexibility with dependable fluid transfer and gentle product handling, along with low pulsation, shear and noise characteristics. Alfa Laval's EasyFit front-loading seal eliminates the need for pipework disassembly, allowing for quick inspection or parts replacement.

The product range



Improved system sustainability

Engineered for higher efficiency and higher yield



Efficient, quiet operation

Alfa Laval OptiLobe is engineered with a wide performance envelope and an advanced rotor case that incorporates cusps. In addition to maximizing pump efficiency, these design features reduce noise emissions and the possibility of product damage.

Easy to find the right Alfa Laval OptiLobe

Thanks to Alfa Laval's smart selection software, it is simple to find the right pump to meet your process and capacity demands from our complete range of pumps.

- Get optimal efficiency from sizing selection with gradual volumetric displacement
- Advanced rotor shape reduces product damage and increases yield
- Rotor cases cusps reduce energy losses for improved system sustainability
- Design with close clearances maximizes efficiency and reduces internal product recirculation

Reliable performance and product quality

Simplified service for trouble-free operation and more uptime



Advanced seal design

With Alfa Laval OptiLobe pumps, you can easily change the self-setting, front-loading mechanical seals without needing to remove the pump from the process line. Setting rings or measurements are also not required.

Easy maintenance

Factory-set shimming simplifies maintenance by making the process of changing the rotor go quickly and smoothly, with no further adjustments needed. Alfa Laval's high-precision components also allow for full interchangeability of spare parts.

Robust construction

OptiLobe models feature a shaft support consisting of a rigid one-piece bearing housing, which contributes to stable shaft retention and more balanced loading. As a result, there is reduced risk of pump-head contact and subsequent maintenance requirements, along with increased uptime.



- Easy-fit, front-loading mechanical seals
- Heavy-duty, L10 taper roller bearings last for up to 20,000 hours of operation
- 100% stainless steel exterior reduces cleaning needs and related costs
- Straight-cut timing gear ensures easy timing
- Optimal lubrication with grease fill from factory
- The shaft's involute rotor spline line increases drive area
- Complete spare part interchangeability

Alfa Laval in brief

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuff, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.

