

# Pumping and mixing solutions for the edible oils and fats industry

Edible oils and fats have a wide range of applications in the food, biochemicals and energy markets. Main processes include oil extraction from various fruits and seeds (soybean, rapeseed, coconut, sunflower, palm, etc.), physical or chemical refining of crude oil, refined oil modification and production of basic oleochemicals (fatty acids, fatty alcohols, methyl esters, glycerin, etc.). The equipment used can be exposed to high temperatures and pressures, chemical attacks or liquids with changing viscosities. For these challenging conditions, Sulzer offers you a broad selection of advanced pumping and mixing solutions. We support our customers with the constant development of new and environmentally friendly technologies.

## Proven expertise

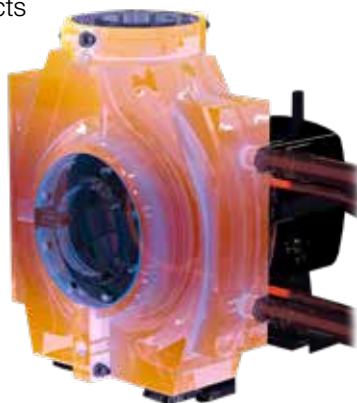
We have core competences based on close partnerships with key OEMs and end users.

By working with Sulzer, you benefit from:

- Superior application knowledge with long experience
- High product reliability and quality
- Custom-engineered solutions to meet specific needs

## Products that fit

- State-of-the-art equipment for reliable operation in difficult environments
- Full choice of centrifugal and positive displacement pumps, agitators, submersible pumps and mixers, aerators and compressors
- Energy-efficient products with low life cycle costs and a smaller environmental footprint
- New process pumps with heating jackets for optimal thermal maintenance



## Service at your doorstep

Wherever you are, Sulzer is close by to bring personal, knowledgeable support and qualified services for the entire product life cycle, day and night. You can trust us to serve your installed base with our original Ensival Moret and Sulzer spare parts.

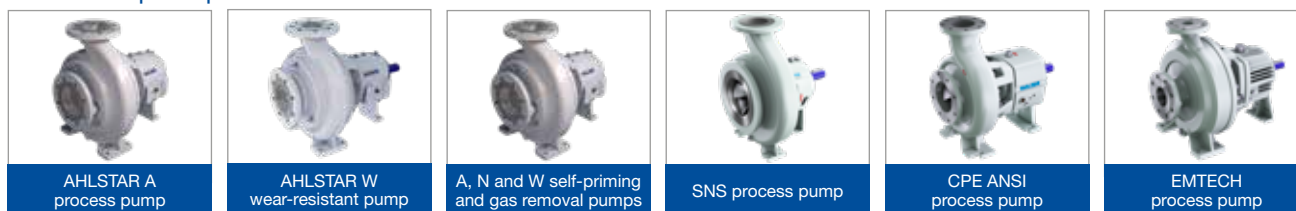
Process	P	M
Milling, pressing and solvents extraction	✓	
Degumming and bleaching	✓	✓
Neutralization	✓	✓
Deodorization	✓	
Splitting, hydrolysis	✓	
Transesterification	✓	✓
Evaporation and crystallization	✓	
Distillation	✓	
Hydrogenation	✓	✓
Final products storage	✓	✓
Auxiliaries (power, cooling, CIP, etc.)	✓	✓
Water and wastewater treatment and re-use	✓	✓

P = pumping, M = mixing

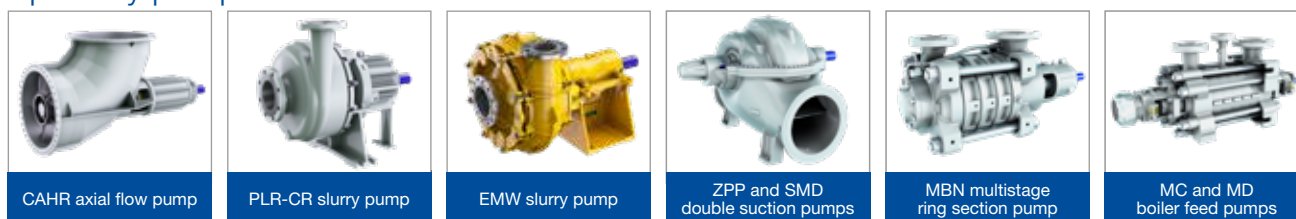
# Extensive product coverage

Our wide portfolio enables the most optimal pumping, mixing and aeration solutions. Our high-efficiency products with several material options (cast iron, ductile iron, duplex, corrosion-resistant and/or high-hardness alloys, etc.) improve the performance, reliability and sustainability of your vegetable oils and fats plants. We also offer a complete range of mechanical seals, including our own Sulzer models, dynamic seals, as well as heating/cooling jackets and degassing systems to ensure a reliable process and long service life.

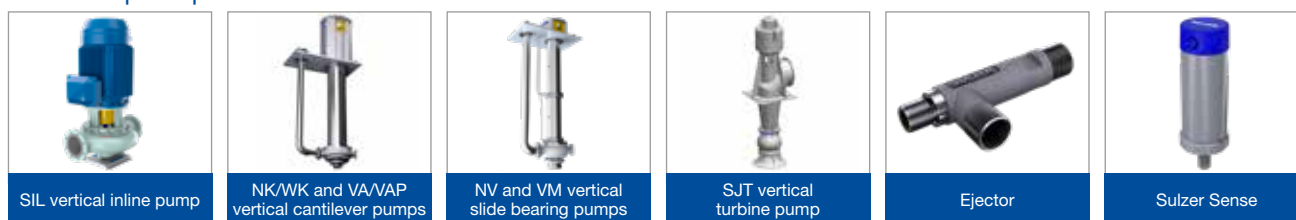
## Process pumps



## Specialty pumps



## Vertical pumps



## Accessories

## PD pumps



## Agitators

## Submersible pumps and mixers



## Aerators and compressors



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