

## Pumping and mixing solutions for the biofuels industry

Process	P	M
Biomass pretreatment	●	●
Hydrolysis and saccharification	●	●
Fermentation	●	●
Distillation	●	
Residue handling	●	●
Dehydration	●	
Oil extraction and transesterification	●	●
Hydrotreatment and isomerization	●	●
Final products storage	●	●
Auxiliaries (power, cooling, CIP, etc.)	●	●
Water and wastewater treatment	●	●

P = pumping, M = mixing

Biofuels from renewable sources show great potential as sustainable transportation fuels. Based on our experience in demanding processes, we offer you advanced pumping and mixing solutions for the production of bioethanol, biodiesel and biogas. We support our customers with the development of environmentally-friendly technologies for pilot, demonstration and commercial plants. Sulzer is a recognized and trusted supplier in the first and second generation biofuels market. With thousands of installations around the world, our products have stood the test of time.

### Proven expertise

We have core competencies 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 match

- State-of-the-art equipment for reliable operation in challenging conditions
- Wide 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
- Complete pumping systems for hot, abrasive and corrosive liquids with up to 18% dry solids content

### 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.

### Extensive product coverage

Through a wide portfolio, we propose you the most adapted pumping, mixing and aeration solutions. Our high-efficiency products with various materials (duplex, corrosion-resistant and/or high hardness alloys, etc.) and numerous options (dynamic seals, degassing systems, etc.) improve the performance, reliability and sustainability of your bioethanol and biodiesel plants.



# Extensive product coverage

## Single-stage pumps

AHLSTAR A process pump



AHLSTAR N non-clogging pump



AHLSTAR W wear-resistant pump



A, N and W self-priming and gas removal pumps



SNS process pump



CPE ANSI process pump



## Specialty pumps

CAHR axial flow pump



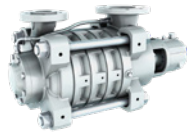
EMW slurry pump



ZPP and SMD double suction pumps



MBN multistage ring section pump



MC and MD boiler feed pumps



MCE™ pumping system



## Vertical pumps

SIL vertical inline pump



VA vertical cantilever pumps



VM vertical side bearing pump



SJT vertical turbine pump



## Accessories

Ejector



Sulzer Sense



## PD pumps

Herold pump



PC transfer pump



PC dosing pump



## Agitators

Scaba and SALOMIX top-mounted agitators



SALOMIX SSF side-mounted agitator



SALOMIX SSA side-mounted agitator



## Submersible pumps and mixers

AS submersible pump



Piranha submersible grinder pump



XFP submersible heavy duty pump



VUPX submersible propeller pump



RW and XRW submersible mixers



SB and XSB flow boosters



## Aerators and compressors

OKI submersible aerator mixer



Venturi Jet submersible aerator



XTA and XTAK submersible aerators



DDS disc diffuser system



HST™ turbocompressor



HSR turbocompressor



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