Pumping and mixing solutions for the cane and beet sugar industry

Sugar cane and sugar beet production present processing challenges all the way from the raw material to the finished end product. The equipment used is exposed to fibrous materials, entrained gases, chemical attacks, increased temperatures and high-viscosity liquids. Having the optimum pumps and agitators is therefore critical, especially if no stand-by units are available. Sulzer offers the superior solution for all your applications. With thousands of installations around the world, our products have stood the test of time.

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
By combining Sulzer and Ensival Moret portfolios, we bring you:
- State-of-the-art equipment for reliable operation in harsh 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

Material competence
We are the specialist in most erosive and corrosive applications, with numerous field references. We offer various materials for demanding processes, from duplex steel or other corrosion-resistant alloys to special materials with high hardness levels.

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.

<table>
<thead>
<tr>
<th>Process</th>
<th>P</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washing or affination</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Extraction, diffusion and/or milling</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Purification and filtration</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Decolorization</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Evaporation</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Crystallization</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Auxiliaries (power, cooling, lime kiln, etc.)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Water and wastewater treatment and re-use</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

P = pumping, M = mixing
Extensive product coverage

Through a wide portfolio, we propose you the most adapted pumping, mixing and aeration solutions. Our high-efficiency products with numerous options (dynamic seals, degassing systems, etc.) improve the performance, reliability and sustainability of your sugar plants.

### Process 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 and PLR-CR slurry pumps
- ZPP and SMD double suction pumps
- MBN multistage ring section pump
- MC and MD boiler feed pumps
- SCP pumping system

### Vertical pumps
- SIL vertical inline pump
- NK/WK and VA/VAP vertical cantilever pumps
- NV and VM vertical slide bearing pumps
- SJT vertical turbine pump
- Ejector
- Sulzer Sense

### PD pumps
- Herold pump
- PC transfer pump
- PC cake pump
- PC dosing pump

### Agitators
- Scaba and SALOMIX top-mounted agitators
- Scaba and AGISTAR side-mounted agitators

### 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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This brochure is a general product presentation. It does not provide any warranty or guarantee of any kind. Please, contact us for a description of the warranties and guarantees offered with our products. Directions for use and safety will be given separately. All information herein is subject to change without notice.