The new design for polymer pumps
Advanced technology
The new AT-Design

More efficiency

The demands on plants, processes and equipment are constantly increasing. So to live up to the demand for greater efficiency, higher throughput and lower reject rates, we have completely overhauled our entire range of polymer pumps.

All core components have been redesigned: friction bearings, housings and gears have all been modified. The result: a more compact pump with improved efficiency.

AT versus classic

AT pumps offer customers multiple advantages over conventional pumps. For example, AT pumps achieve significantly higher throughput than pumps in classic design with the same footprint. Thanks to optimised gears and the adapted housing geometry, this increase in throughput can be achieved without changing the installation size.

Advantages:

- Lower bearing temperature, leading to lower stress on the polymer
- Optimised inlet geometry, leading to minimal pressure loss and therefore minimal dwell times of the polymer in the reactor
- Three different flange types each (EN 1092-1 or ANSI B16.5)
- Three different pressure versions (200 bar, 250 bar, 320 bar)
- Larger viscosity range
- Simplified handling thanks to lower weight

Features

AT versus classic

- Installation space: -25 %
- Increased throughput: +40 %
- Reduction NPSH value: -41 %
- Differential pressure: +28 %
- Volumetric efficiency: +6 %

Available sizes for POLY-AT and BOOSTER-AT series

<table>
<thead>
<tr>
<th>Sz</th>
<th>Q</th>
<th>611-100-100</th>
<th>1210-125-125</th>
<th>2460-160-160</th>
<th>4890-200-200</th>
<th>6860-224-224</th>
<th>9550-250-250</th>
<th>13400-280-280</th>
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<tbody>
<tr>
<td>7,100 kg/h</td>
<td>977-100-160</td>
<td>1930-125-200</td>
<td>3850-160-250</td>
<td>7820-200-320</td>
<td>11000-224-360</td>
<td>15300-250-400</td>
<td>21500-280-450</td>
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<tr>
<td>13,700 kg/h</td>
<td>5,700 kg/h</td>
<td>8,900 kg/h</td>
<td>13,700 kg/h</td>
<td>22,300 kg/h</td>
<td>27,600 kg/h</td>
<td>34,100 kg/h</td>
<td>43,500 kg/h</td>
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Maximum flexibility

The AT-Design offers exceptional flexibility when it comes to installations beneath the polymer melting reactor. Customers can choose from three different flange geometries to ensure they are always benefiting from the best combination of reactors and pump flanges from both a technical and economical perspective.

SX version:
- Flange geometry integrated in the housing
- Minimal installation space

MX version:
- Blind holes in flange
- Largest possible cross section
- Minimal pressure loss
- Ideally suited for highly viscous polymers

LX version:
- Flange with through holes
- Maximum flexibility for the installation
- Very low pressure loss
The new matrix for your success!