ANDRITZ centrifugal pump
ISO series
Maximum economy, easy maintenance

For over 100 years ANDRITZ has been a byword for competence and innovation in designing and building centrifugal pumps.

As suppliers of complete production systems for the pulp and paper industry, we have acquired broad expertise of the related process technologies—the basis for our successful development of components for conveying paper stock and pulp.

ANDRITZ centrifugal pumps, ISO series, fulfil high customer expectations in terms of efficiency, life cycle, maintenance friendliness and economic efficiency.

All pump parts are manufactured according to the highest quality standards in our ISO certified workshops. The superior quality of our products originates from compliance with these stringent requirements.

**The facts**

- Flow rates up to 300 m³/h
- Heads up to 160 m
- Casing pressure PN16
- Temperatures up to 140°C
- Consistencies up to 1% bone dry
- ISO 2858 and 5199
- Simple maintenance
- Low energy consumption

**Fields of application**

- Process water supply in
  - the pulp and paper industry
  - the steel industry
  - the food industry
  - the sugar industry
  - power plants
- Drinking water supply
- Waste water treatment
- Chemical industry
- Bioethanol

**Technology to convince you**

The high standard of ANDRITZ centrifugal pumps, ISO series, is based on decades of experience in designing hydraulic machines and on extensive process know-how.
**Well-proven design**

An innovative product policy and continuous advancement of essential design features make this pump a powerful, yet economical standard unit with a broad range of applications.

---

**Spiral casing**
- Standard connection sizes (ISO)
- Flange bore holes (PN 10, PN 16)
- Bore hole for pressure gauge in the suction and delivery flanges

**Impeller**
- Closed design
- High efficiency

**Shaft**
- Conical impeller seat provides ease of installation

**Wear rings**
- Replaceable wear rings
- Axial thrust compensation

**Shaft seals**
- Single mechanical seal
- Double mechanical seal
- Cartridge seal

**Bearing assembly**
- Only three bearing support sizes for the entire series
- Oil or grease lubrication
High research and development capabilities

Our affiliate ASTRÖ enjoys international renown for its hydraulic developments and investigations. The high efficiency of the ISO pump series is ensured by Computational Fluid Dynamic (CFD) calculations and extensive testing carried out in our company owned laboratory.

Installed ANDRITZ pumps
ISO series
Material combinations

<table>
<thead>
<tr>
<th>ISO series</th>
<th>EN-GJL 250</th>
<th>1.4408</th>
<th>1.4021</th>
<th>1.4404</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impeller</td>
<td></td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Volute casing</td>
<td></td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Bearing housing</td>
<td></td>
<td>■</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Casing cover</td>
<td></td>
<td>■</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaft</td>
<td></td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
</tbody>
</table>

**European standard**

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Grade</th>
<th>US standard</th>
<th>UNS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN-JL1040</td>
<td>EN-GJL 250</td>
<td>Class 40B</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>1.4408</td>
<td>GX5CrNiMo19-11-2</td>
<td>CF8M</td>
<td>J92900</td>
<td></td>
</tr>
<tr>
<td>1.4021</td>
<td>X20Cr13</td>
<td>420</td>
<td>S42000</td>
<td></td>
</tr>
<tr>
<td>1.4462</td>
<td>X2CrNiMoN22-5-3</td>
<td>2205</td>
<td>S31803, S32205</td>
<td></td>
</tr>
</tbody>
</table>