Spare Parts & Aftermarket Solutions

For hydraulic systems
We are hydraulics!

Fritz Schur Energy has a track record with more than 30 years of designing and supplying reliable hydraulic solutions and components for the wind turbine industry, both on- and offshore.

Our Vision: We deliver on our promises!

This is our foundation for offering you aftermarket solutions that meet your needs and demands:

- OEM Spare parts and supporting systems
- Full hydraulic portfolio
- Single point of contact
- Technical support
- Training
- Preventive and predictive maintenance
- Stocking supplier
- Short response time and fast delivery

Track record:
Fritz Schur Energy has been the primary supplier of hydraulic systems for more than 16,000 of these turbine types:

- Bonus 450-600 kW
- Bonus/SWT-1.0/1.3-CS
- Bonus/SWT-2.0-CS
- Bonus/SWT-2.3-CS
- SWT-2.3-82/93 (MKII)
- SWT-2.3-101/108 (MKIII)
- SWT-3.0-DD
- SWT-3.6-120
- SWT-4.0-120/130
- SWT-6.0/7.0/8.0-DD
Original OEM spare parts for hydraulic systems from proven suppliers

- Cylinders
- Accumulators
- Manifolds
- Hoses
- Electric motors
- Valves
- Pumps
- Rotary unions & Slip rings
- Filters
- Power Packs
- Accessories
- Seal kit & bearings
Your **hydraulic** resource – when you need it

**Technical support**
Collaboration on your technical issues
• Engineers with component and system knowledge
• Solid experience with new and old turbine types
• Inhouse design engineers

**Training**
Your service techs become trouble shooters rather than parts exchangers
• Reduces the need for spare parts - thereby reducing costs
• More efficient diagnoses - thereby reducing downtime
• Better system knowledge
• Higher level of safety and efficiency during O&M

**Customer service and logistics**
• Stocking supplier
• Customer selected spare parts on stock
• Customised spare parts kits
• Short response time and fast delivery
Reliable solutions

- Supply of original OEM spare parts
  - No engineering necessary
- High quality
- Competitive prices
- Preventive maintenance program
  - Ensures steady availability and less downtime
- Consultancy and retrofit solutions
- Value added solutions that meet your needs
- Design and supply of supporting systems - such as:
  - Oil Conditioning Unit - Increasing your uptime
  - N2B Nitrogen Booster - Safe, simple and fast O&M
  - Cylinder exchange tool kit for SWT-2.3
  - Trouble shooting kits for all SWT platforms

Supporting systems

<table>
<thead>
<tr>
<th>Oil Conditioning Unit</th>
<th>N2B Nitrogen Booster</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Oil Conditioning Unit" /></td>
<td><img src="image2" alt="N2B Nitrogen Booster" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cylinder exchange tool kit</th>
<th>Troubleshooting kit</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Cylinder exchange tool kit" /></td>
<td><img src="image4" alt="Troubleshooting kit" /></td>
</tr>
</tbody>
</table>