

Service Information

Thrust bearing modernization

Model(s)	SB-150, SB-170, S-3000
Machine	ANDRITZ Single Disc Refiner
Machine group	HC-Refiner
<p>The challenge</p> 	<p> Greater energy efficiency, greater loading capacity</p> <p>The limiting factor for greater axial loading capacity, and thus higher throughput, is the thrust bearing, a hydrodynamic slide bearing. Since the specific power drops at higher throughput, the axial loading capacity of the refiner is an important factor for the entire energy efficiency of the refining system. In addition, energy efficiency is an important topic for slide bearings due to the high oil flow rate and the resulting cooling required.</p> 
<p>The ANDRITZ solution</p> 	<p> Optimized thrust bearing design</p> <p>ANDRITZ has developed a new bearing concept in order to permit higher axial loading of the refiner. Modernization only requires a rebuild of the thrust face of the axial bearing, the bearing pressure plate, the sensor equipment for monitoring the thrust bearing, and the bearing housing if need be. Due to the low friction energy, the new thrust bearing design allows lower oil flow rates, reduced cooling requirement, and less energy dissipation. The rebuild is performed without any major changes to the machine and can be completed on site within 48 hours.</p> 

Thrust bearing modernization

Benefits and features



More efficiency

- ▶ Less specific power
- ▶ Reduced energy dissipation
- ▶ Lower lubricating oil requirement
- ▶ Reduced cooling duty

Higher reliability

- ▶ OEM quality
- ▶ Proven technology
- ▶ Online status monitoring

Better maintenance

- ▶ Easy bearing change due to optimized design
- ▶ Brief changing times

Higher productivity

- ▶ Higher throughput
- ▶ Improved energy efficiency

Contact:
ANDRITZ AG, Graz, Austria
Tel.: +43 (316) 6902
pulppaper-service@andritz.com

