




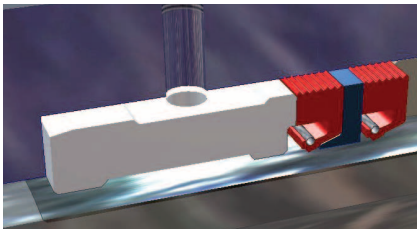


Service Information

ANDRITZ Universal Seal

Model(s)	All rotating units from 5 to 3600 rpm, up to 20 bar
Machine	All machines
Machine group	All rotating shaft units
<p>The challenge</p> 	<p> Old-fashioned stuffing boxes are high-maintenance and high-operating costs and do not adequately protect your equipment.</p> <p>Typically, stuffing boxes require frequent re-tightening of the packing gland, generate high friction losses and shaft sleeve wear, and yet, continue to extensively leak water and sometimes, steam. Equipment is often kept running with leaking packings to extend life between overhauls (required for shaft sleeve replacement – high wear rate from compressed packings). This results in increased water consumption, increased risk for bearing failures, and equipment premature aging.</p> 
<p>The ANDRITZ solution</p> 	<p> ANDRITZ Universal Seal to directly fit into old packing housing. Cut your maintenance and operating costs.</p> <p>The ANDRITZ Universal Seal patented and proven design can be used on any rotating machinery now sealed by a stuffing box, and on most mechanical seal applications. Typical applications: low and high-consistency refiners, pumps, pressurized conveyors, pressure cyclone agitators, disc filters, screw presses, plug screw feeder, side-feeders, preheater agitators, bleaching towers, pulpers, etc.</p> 

ANDRITZ Universal Seal

Benefits and features

More efficiency

- ▶ Water savings 2-3 l/min (all into the process)
- ▶ Reduction of frictional losses and wear
- ▶ Reduced operating costs
- ▶ Reduced maintenance costs
- ▶ ROI is usually less than 2 months

Higher reliability

- ▶ Optimized to your specific application (pressure, speed, process, etc.)
- ▶ Latest developments in sealing technologies

Better maintainability

- ▶ Go from reactive to preventive maintenance mode
- ▶ Easy seal change out, without overhaul (split design)
- ▶ Keeping your equipment and environment clean
- ▶ Shaft sleeve exchange program available
- ▶ Expert assistance available from ANDRITZ

Higher productivity

- ▶ 4 to 6-week delivery possible in most cases
- ▶ Significantly increased MTBPM*

* MTBPM: Mean Time Between Preventive Maintenance

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