

MECO EAS

SPLIT SEALS

FOR PULP AND PAPER APPLICATIONS

MECO's patented EAS seal is available for a variety of applications in pulp and paper mills, particularly pulpers, stock chest agitators, and repulper and chip screws.

The EAS accommodates severe shaft runout and lends itself well to applications where mechanical packings and traditional mechanical seals fail to function. The seals are manufactured fully-split, in most cases permitting installation and rebuilding without removal or modification of the existing stuffing box, bearing, or drive.

WHAT'S INSIDE...

The EAS's external adjustment feature permits field calibration of the seal without disassembly. As seal faces wear, the EAS can be adjusted to compensate, before significant leakage occurs. Monitoring the extent of adjustments permits planned maintenance, without catastrophic seal failures.

The EAS is an unbalanced, double mechanical seal. The patented design places two rotating seal faces against a central driving elastomer. The elastomer turns with the shaft, and the two rotors turn with the elastomer. The elastomer provides both a static seal against the shaft and motive force for the rotors, and serves as the load spring for the seal.

Wide radius faces permit the seal to accommodate anywhere from a standard 1/4" to 3/8" or more of total shaft runout. Split stationary faces are replaceable, making rebuilds simple and inexpensive.

A water flush trickles into the top of the seal cavity and out a vent at the bottom, (or side-to-side in vertical applications), providing cooling and expelling any stray fiber which might make its way past the primary seal face. While mechanical packing requires water leakage across the seal interface, the EAS does not, and flush water is confined to the area between the two seal rotors. Since the flush runs at zero pressure, no water leaks past the seal faces, and stock dilution cannot occur.



Above:

Below: EAS Seals are fully-split for installation without bearing or drive removal.



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APPLICATIONS

The EAS is an outstanding seal for pulpers, providing the runout tolerance necessary to resist tub deflection from heavy bales and slabs. Rugged stainless steel housings and rotors combine with high-performance bearing plastics to form an exceptionally-durable seal. Unlike delicate, hardfaced mechanical seals, EAS components can be freely handled, and even dropped without damage.

EAS seals are effective on horizontal stock chest agitators – on cantilevered shafts and on older through shafts and midfeather agitator designs. The fully-split design allows installation and rebuilding without pulling the agitator drive. The EX-PAC variant combines all the versatility of the EAS, while also permitting live-loading of the seal faces, making it perfect for the most demanding abrasive stock and coating applications.

MECO seals were originally developed for screw conveyors, and they still excel on stock washer repulper screws and on TMP chip conveyors. In addition to the EAS and EX-PAC series, MECO's AH and MD-series seals have a variety of applications in the pulp & paper industry, as does the Static Seal for stock chest agitator shafts and the MECO-DR for Moyno[®] brand progressing cavity pumps.

MECO EAS seals:

- tolerate shaft runout and shock loads
- keep fiber in your process machinery, and out of your fiber recovery system
- won't dilute stock or coatings
- use less flush water than packed glands
- reduced friction can reduce agitator drive current drain
- Fully-split design speeds installation and rebuild
- Custom tailoring eliminates equipment modifications

MECO custom shaft seals, manufactured by



WOODDEX BEARING COMPANY, INC.

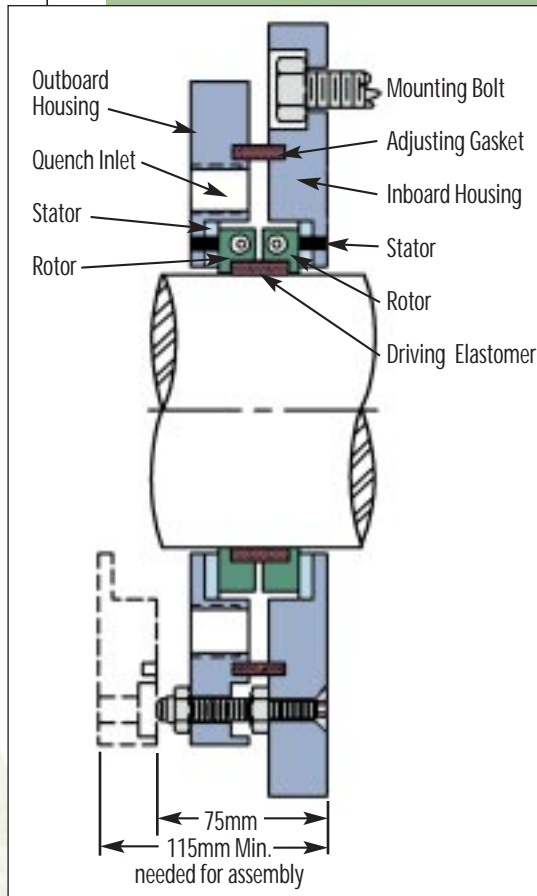
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Above: EAS Seal Components

Below: 4 1/2" EAS seal mounted on black liquor agitator

