

EMO III SP

Electro-mechanical Oscillator

The safest, most dependable oscillators

The Kadant AES EMO III series electro-mechanical oscillators feature major advances in safety, reliability and ease of maintenance. Backed by AES's commitment to on-going applications support, they provide process advantages unattainable with any other oscillation system.

While the EMO III offers a feature-packed operator interface, the EMO III SP (*"Special Purpose"*) is ideal for paper machine applications where multi-function oscillation is not required.

Economical oscillation for special purpose applications

For cylinder roll, suction roll or grooved roll cleaning and for fan shower oscillation, the infinite speed control and stroke length adjustment capabilities of the EMO III offer no specific benefit. For special purpose applications such as these, the EMO III SP is the answer. Its simplified control interface provides an economical alternative while maintaining the rugged reliability and quality for which the EMO III is known.

The EMO III SP is ideal for:

- *Cylinder Roll Cleaning*
- *Suction Roll Cleaning*
- *Grooved Roll Cleaning*
- *Fan Shower Oscillation*

Simplified control for special purpose applications

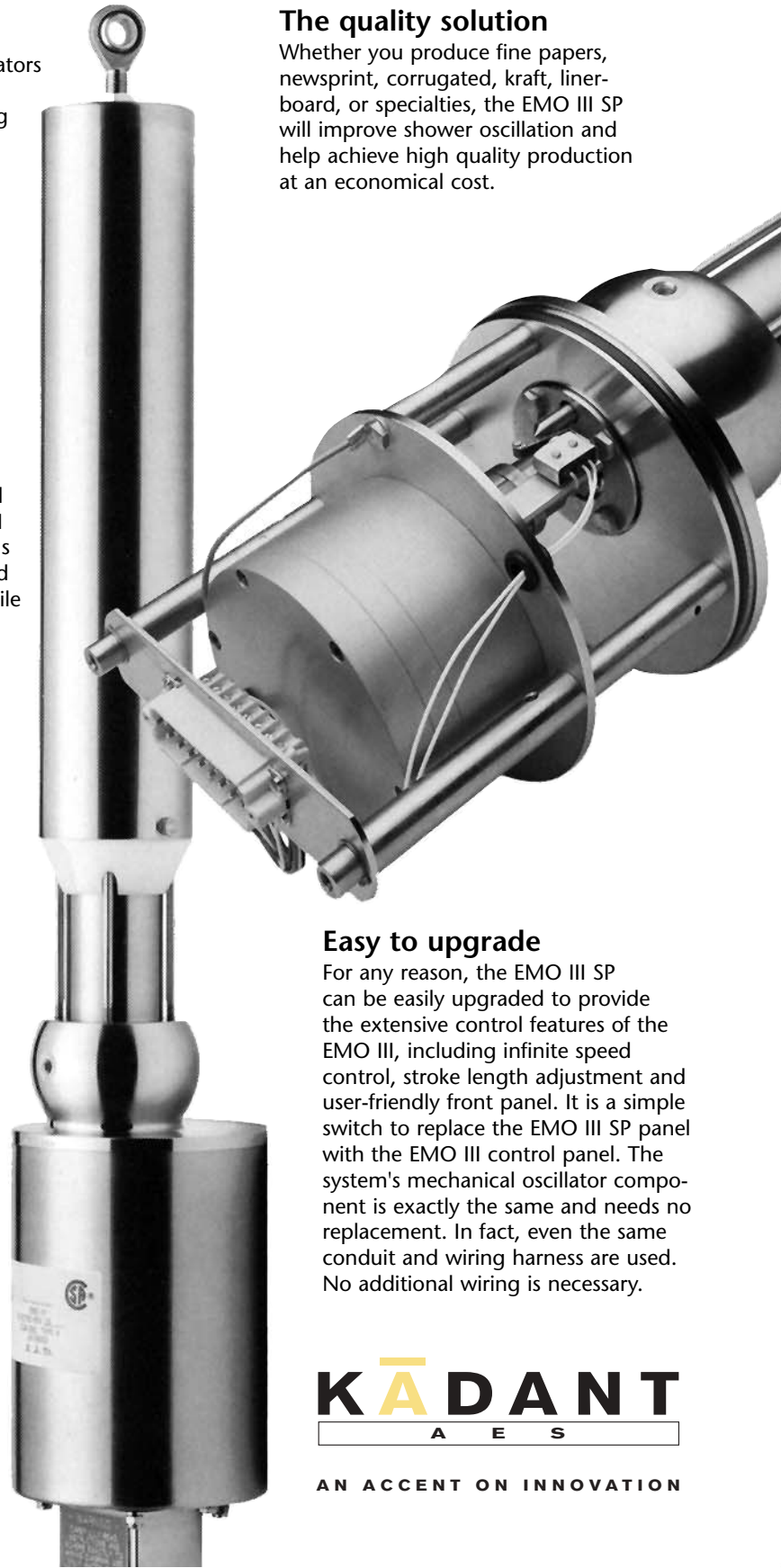
Like the EMO III, the EMO III SP control panel is fabricated from impact resistant Fiberglass Reinforced Plastic. It conforms to NEMA 4X and European Standard IP.65. An on/off switch is located on the panel's front door.

A multi-tap unit, the power transformer contained within the panel provides the flexibility of voltage applications between 100 and 240 Volts AC. The panel's printed circuit control card is a simple, one-piece unit, easily removed if necessary.

The EMO III SP's oscillator stroke and the oscillator speed are factory preset to match specific applications. (6" and 12" North American market—125mm and 250mm Foreign market.)

The quality solution

Whether you produce fine papers, newsprint, corrugated, kraft, liner-board, or specialties, the EMO III SP will improve shower oscillation and help achieve high quality production at an economical cost.



Easy to upgrade

For any reason, the EMO III SP can be easily upgraded to provide the extensive control features of the EMO III, including infinite speed control, stroke length adjustment and user-friendly front panel. It is a simple switch to replace the EMO III SP panel with the EMO III control panel. The system's mechanical oscillator component is exactly the same and needs no replacement. In fact, even the same conduit and wiring harness are used. No additional wiring is necessary.

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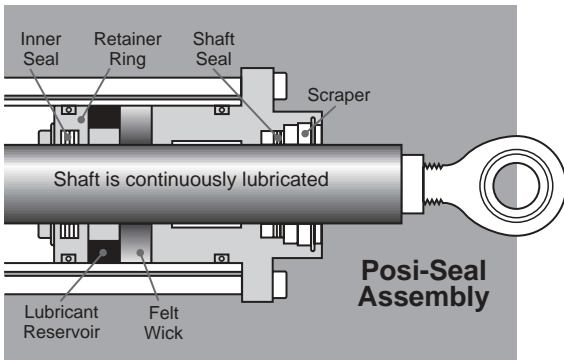
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Secure, dependable operation

Built with uncompromising quality, Kadant AES oscillators are the most dependable units available. All wetted parts are manufactured from 316L stainless steel. The integral gear reducer houses single-piece gears riding in ball bearings, not sleeves. Posi-Seal, a front nose double seal assembly, protects components from contaminant and moisture ingress. Its two seals are separated by a lubricant cavity, continuously lubricating each seal and ensuring maximum seal life.



Easy preventive maintenance

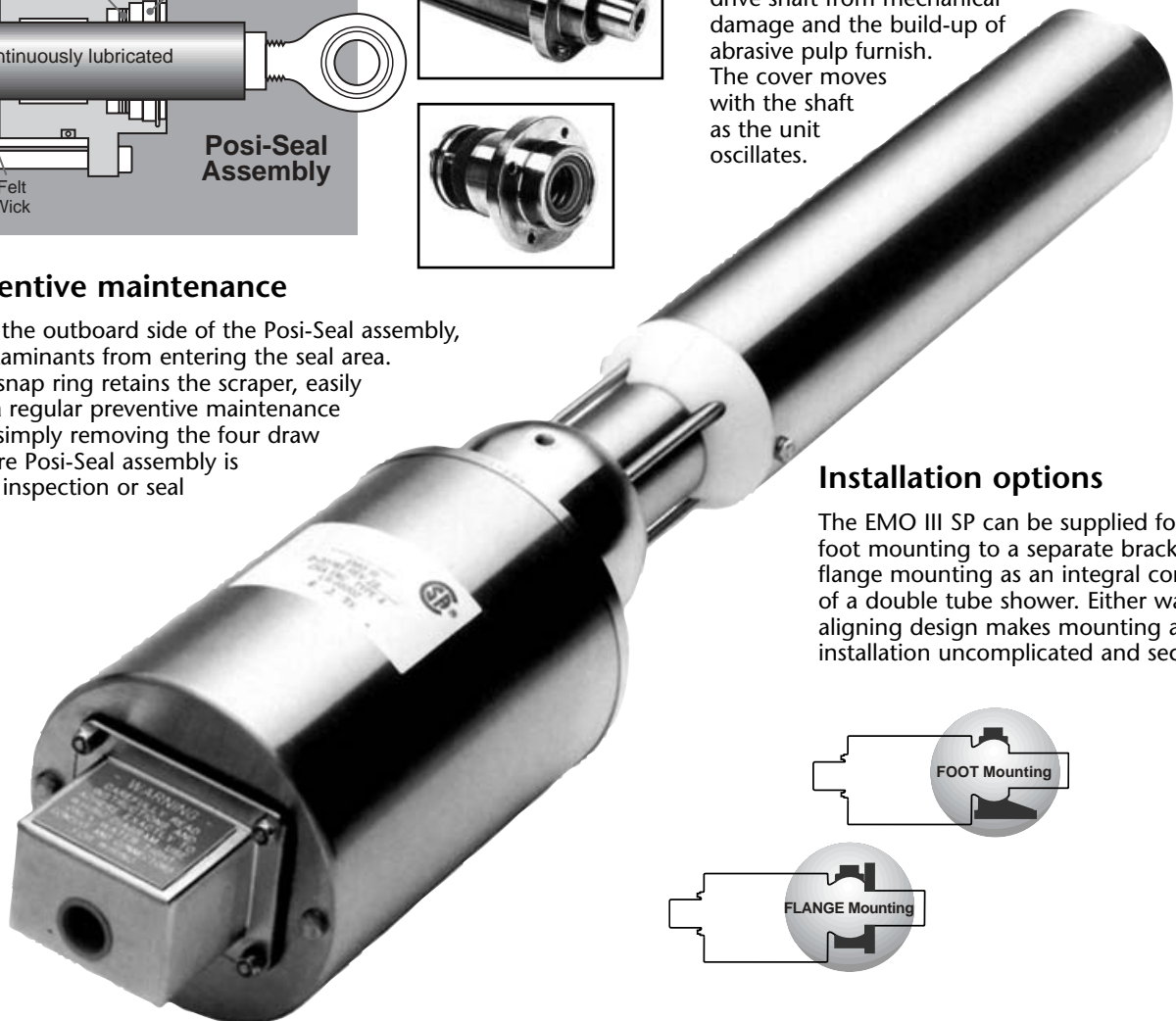
A scraper, on the outboard side of the Posi-Seal assembly, prevents contaminants from entering the seal area. A removable snap ring retains the scraper, easily changed on a regular preventive maintenance schedule. By simply removing the four draw rods, the entire Posi-Seal assembly is accessible for inspection or seal replacement.

Enhanced operator safety

Ensuring the safety of your operators, the AES EMO III and EMO III SP oscillators operate with a maximum of 24 volts DC. This essential feature protects your personnel from the hazard of "electrical shock"—an important issue relative to the wet environment typical to papermaking.

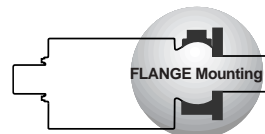
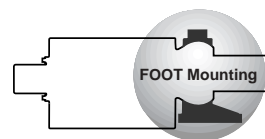
Improved protection

Drive shafts are smoothly burnished to further increase seal life. This process makes the shaft more score-resistant and less abrasive to the individual seals. A 316L stainless steel cover protects the drive shaft from mechanical damage and the build-up of abrasive pulp furnish. The cover moves with the shaft as the unit oscillates.



Installation options

The EMO III SP can be supplied for either foot mounting to a separate bracket, or flange mounting as an integral component of a double tube shower. Either way, self-aligning design makes mounting and installation uncomplicated and secure.



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