

In Mill EMO III™ Oscillator Rebuild & Shower Inspection

Proper installation and preventative maintenance of EMO III oscillators and showers are essential for achieving the most significant return on investment. The Kadant Solutions field service team prides itself on conducting safe, quality, and timely onsite EMO III oscillator rebuilds and shower inspections.

EMO III oscillator rebuilds are available at our Auburn, Mass. repair center; however, that does not allow the service technician the opportunity to inspect the shower attached to the EMO III oscillator. Occasionally, the repair center receives an EMO III oscillator that is in good working order but appears to be non-functional due to a shower, control, or related component issue at the mill. The in-mill program is conducted by a trained field service technician allowing inspection of the complete system while there for the EMO III oscillator rebuild.

Typically, the field service technician can rebuild and inspect two EMO III oscillators and showers during a standard eight hour shift. Comprehensive maintenance programs during annual shutdowns to perform scheduled repairs on all showers and oscillators at one time are available and encouraged.





Verify oscillation stroke matches machine speed



Oscillator not aligned properly



Connections in poor condition

Overview



EMO III Oscillator Rebuild & Inspection

- Rebuild EMO III oscillator (same service as shipping to our repair center)
- Check oscillator mounting and alignment
- Check oscillator connection to the shower
- Verify the oscillation stroke matches the machine speed for optimum cleaning
- Inspect wiring condition and connections
- Ensure Kadant Solutions genuine parts are used



Common Issues

- Worn bearings lead to extra oscillator torque and shorter life
- Worn oscillator connection components lead to failure
- Worn nozzles cost more and perform poorly
- Speed/stroke timing not in sync will leave areas of uncleaned fabric
- Worn internal brushes will not clear debris from the nozzles, which impacts shower performance
- Shower spray angles that are too shallow perform poorly



Shower Inspection

- Bearings
- Shower feed hoses for condition and side torque
- Alignment and proper shower location in relation to the fabric
- Shower nozzle wear
- Internal brush wear
- Shower spray angle



Benefits of In Mill Service

- Extend life of the system
- Improved uptime
- Cost savings due to heating, treating, and pumping less water through worn nozzles
- Improved cleaning by coordinating the timing of the oscillation with the machine speed
- Improved performance and reliability
- Service completed together versus during multiple outages
- Ensure Kadant Solutions genuine parts are used