

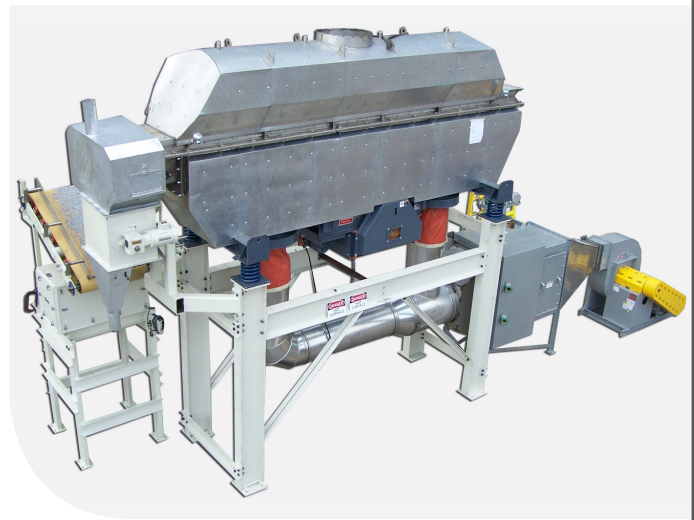
# JET BED DRYER

## LOW TEMPERATURE ALUMINIUM CHIP DRYING SYSTEM

The Pyrotek jet bed dryer is designed to dry and remove water-based lubricants from aluminium chips. The dryer steam cleans chips using high velocity process air and is capable of accepting waste heat from a furnace or another dedicated combustion system. The system is also self-cleaning and requires limited maintenance.

The dryer has an operating temperature of 315°C (600°F). Chips passing through the dryer are vibrated and mixed on a perforated plate, and dried by the process air. The drying process takes approximately three minutes. Any exhaust gases generated by the system are processed by a cyclone to remove fines, and then routed to an afterburner for volatile organic compounds (VOC) removal.

Pyrotek jet bed dryer sizes are based on processing requirements and the moisture content of the chips. For example, a dryer processing 1.5 metric tonnes per hour (3307 pounds per hour) would have a footprint of approximately 2.8 by 8.5 metres (9.19 by 28 feet). Chips with a 2 percent moisture content would require 500 BTU per pound for drying.



### BENEFITS

- Chips are steam cleaned by high velocity air jets
- Drying is done in an inert environment and does not generate oxidation or VOC burning
- Removing baked-on residue from dried chips eliminates melt loss
- Accepts waste heat from a melting furnace or other processes
- No significant mechanical maintenance required
- System is self-cleaning
- The low operating temperature does not oxidize aluminium chips

