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TOTALLY DRY CUTTING

BY DryLube[®]

An automated, totally dry lubrication process has been developed for use in the cutting of non-ferrous materials.

A specially formulated wax cartridge is charged into the steel barrel via a quick change nut assembly providing more than 12 hours of production time through a single cartridge.

In all cases, the resultant cut product is completely dry with no airborne mist particles being generated during the cutting process. The chips are easier to extract and overall cleanliness of the total system is vastly improved resulting in less maintenance and more uptime.

The initial application is for band saw technology related cutting systems typically t-bars, slabs and billets. In the future we will develop the technology for circular saw applications such as billet and plate cutting as well as a smaller version of the DryLube system for the cutting of finished extrusions with circular saws.

The DryLube system consists of a mini extrusion press being driven through a variable speed dc motor and multi-directional speed reducer, torque multiplier to a non-rotating acme screw piston assembly.

The specially formulated wax is contained in a polycarbonate cartridge which slips into the steel barrel via the quick change nut assembly.

The micro plc and inputs/outputs are contained within the DryLube system and the touch panel for the operation of the unit.

The distribution head which is unique to the different cutting technologies has an integral pneumatic electronic ball valve which controls the flow of wax.

DryLube[®] cost per cut is typically 30% to 70% less than that of mist lubrication systems

Specifcations:

Input Voltage: 220 VAC, 50/60 Hz

PLC: Toshiba T1 (others at additional cost)

Interface: Toshiba OIS10 (others at additional cost)

AIR PSI: 50 psi min (3.5 bar)

