ILC Lubrication Systems

45 YEARS 1976-2016
Lubrication Technologies, Inc.
AN UNCOMMON TECHNICAL RESOURCE
www.LubeTechnologies.com

AUTOMATIC LUBRICATION SYSTEMS
MONO + BIRAIL CONVEYORS

2023

45 YEARS 1976–2021

LUBRICATION Technologies, Inc.

AN UNCOMMON TECHNICAL RESOURCE

SEPARATING SURFACES SINCE '76

LubeTool Minimum Quantity Lubrication aka 'MQL'

These systems are designed to lubricate the conveyor roller bearings while they are in operation. A metered amount of lubricant is delivered out to the bearing via a small diameter capillary tube which is inside the air delivery hose. This air and oil droplet mixture is sprayed out the nozzle head at precisely the right time and quantity needed. Each conveyor will require one nozzle unit for the right side and one for the left side of the bearing. Sequencing can be timed for every roller or every other roller. The number of rollers, conveyor speed and the distance between the rollers are needed to properly set up the system.

NOZZLE (1 of 3)

MICRO PUMP ADJUSTMENT

AIR DRAIN

OIL OUTLET

AIR INLET

OIL INLET

AIR

OIL
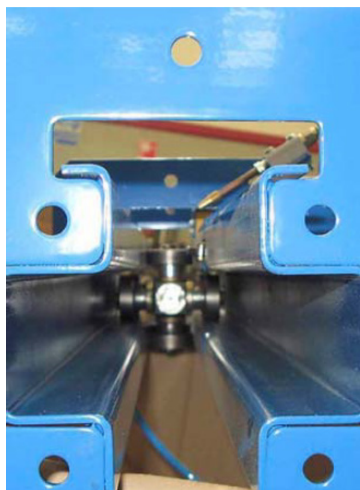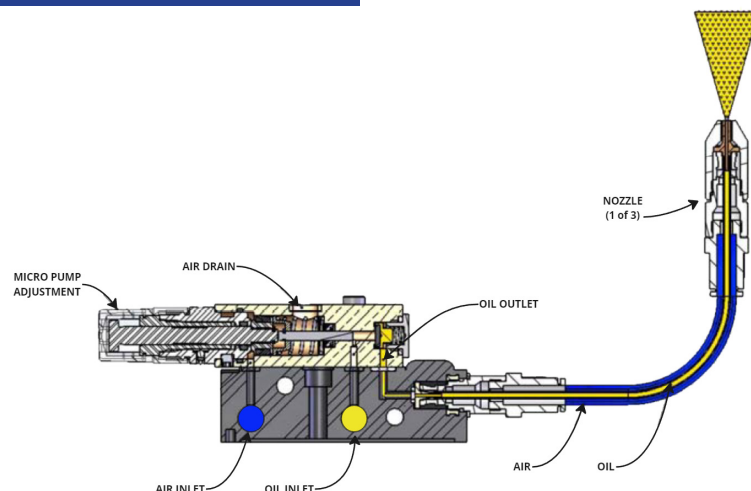
Benefits

Typical Monorail System

• **Fully programable**: adjust air and lubricant separately to pinpoint accuracy at each nozzle
• **No lost production time:** The lubricant is applied while the conveyor is in motion
• **No Mess:** A minimum quantity of lubricant is sprayed directly into the race of the bearings *(no dripping or mess to clean)*
• **Customizable:** Up to 8 spray nozzles can be operated from one tank *(16' lines included with each kit)*
• **Environmentally Friendly:** Natural 77 is a vegetable based ester that's non-toxic, oderless, food safe and biodegaradeable.

Function

A gravity fed reservoir sends the lubricant to each chamber of the micropumps. Air is sent to these pumps through the adjustable frequency generator.   Up to 8 micropumps can installed into an impact resistant locking plastic cabinet. Inductive sensors are placed along the conveyor path to activate the pumps on and off dispensing the lubricate for the desired duration. Choose from three different nozzle options to deliver the minimum quantity of lubricant necessary. This "near dry lubrication" eliminates the need for cleanup of unused oil buildup common with other lubrication systems.

Typical Bi-Rail System

SEPARATING SURFACES SINCE '76
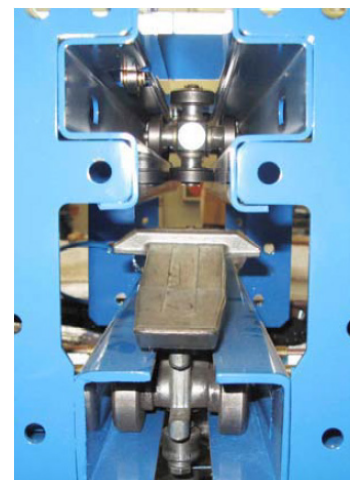
Legend

1. Liquid Reservoir
2. Low Level Switch
3. Filler Cup
4. Air Supply
5. Air Regulator
6. Frequency Generator
7. Pneumatic Pump
8. Oil Flow Adjustment
9. Box
10. Coaxial Feeding Line
11. Positionable Tubing with Magnetic Base
12. Steel Fixed Base Nozzle
13. Decabon Nozzle with Magnetic Base + Push-In Fitting
14. Air Drain: *To purge air from the oil system*
15. Pressure Reducer with Gauge
16. Cable Gland