LUBETOOL Micro – Lubrication & Cooling

Cooling Systems for Metal Cutting Operations & General Lubricating Applications

Micro output vegetable oil lubrication cooling system replaces messy flood coolant systems and water soluble coolant spray systems: LUBETOOL produces finer machining finishes as well as extended tool life for reduced maintenance in the metal cutting process. Systems also deliver controlled oil feeds for improved lubrication situations.

LUBETOOL's individual positive displacement injector's discharge closely controlled fluid for atomization at jet tips for pinpoint delivery. Single and multiple outlet models are available.

LUBETOOL totally enclosed cabinet model with 6 injector outlets

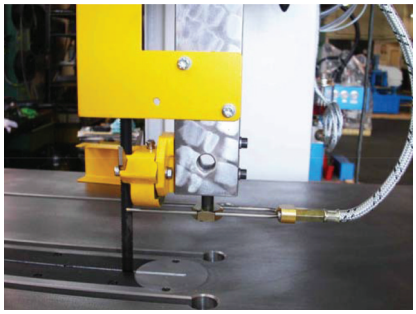
CNC Automatic Vertical and Horizontal Machining Centers with Loc-Line flexible nozzle

Vertical Milling Machine with single and/or double jets

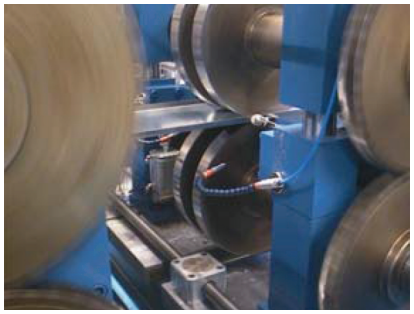
Punching Operation and Strip Lubrication

Circular Saw with special saddle spray adapter

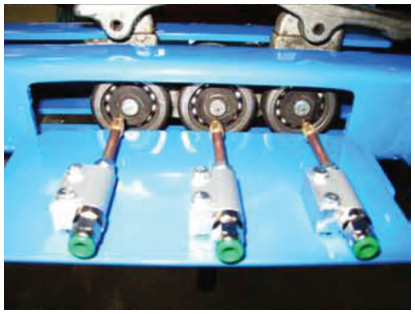
Horizontal Saw and special saddle spray adapter



Vertical Band Saw with saddle spray blade adapter



Rolling Operation with dual Loc-Line flexible jets



Mono-rails and Conveyors programmed deliveries from injectors

Chain Lubrication single or multiple strands

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LUBETOOL Micro – Lubrication Systems

The **LUBETOOL** assembly comprises an adjustable pneumatically operated pumping element (0mm³ to 41mm³ with 23 distinct settings). A pneumatic timer (frequency generator with wide control range (0 to 60 strokes per minute). Durable reservoirs in various sizes. Co-axial air/tubing with nozzles and special applicators.

Optional on some models: Air filter regulator, operational Solenoid valve, low level switch

Features

- Non pressurized reservoir
- Positive displacement outputs
- Hundreds of combinations available

Advantages

- Operational Safety
- Accurate deliveries
- Broad application range

Benefits

- Versatile applications
- No Mess
- Problem Solver

• Metal Cutting Operations with LUBETOOL and Eco-Friendly Vegetable Oil Natural 77 offers these advantages:

Improves Surface finish
Extends Tool Life
Eliminates Flood Cooling Cleaner Working environment
Eliminates Oil Residue
Eliminates Clean-up Expenses for milling, drilling, boring, tapping broaching, metal forming, shearing and punching operations

Self-contained LUBETOOL assembly

• Natural-77 Vegetable Oil Lubricant/Coolant

Improves working conditions and cutting tool performance of mineral oil traditional coolants. Comprised of synthetic esters derived from natural origins. Odorless, light colored wholly biodegradable and non-toxic with high lubricity and EP (extreme pressure) characteristics reduces smoking and seize-up. ***Supplied in 5 liter containers.***

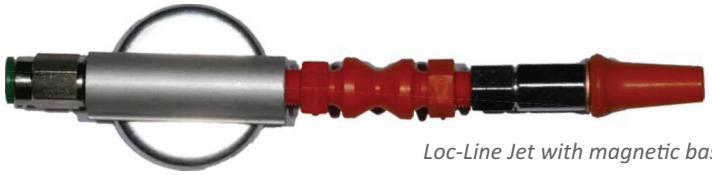
Pinpoint control of Micro-Droplets eliminates hazardous misting

• Chain Lubrication/General Industry

Ideal for chain lubrication and industrial wetting applications, **LUBETOOL** adapts to many varied applications, including roller chains, mono and bi-rail conveyors, tube forming equipment, and stock lubrication

Milling Application

Learn more about **LUBETOOL** by downloading their catalog now



Loc-Line Jet with magnetic base

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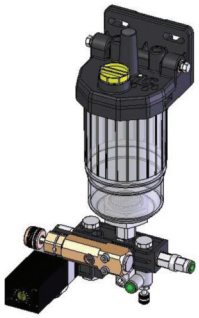
LUBETOOL
Metal Cutting Operations, Near Dry Machining with Vegetable Oil (Green Machining)



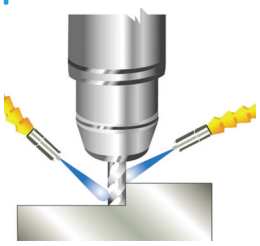
LUBETOOL Assembly, 0.5 liter reservoir with one injector and frequency generator

• Minimum Quality Lubrication (MQL) Application Data and Techniques:

Direct small controlled oil amounts to the tool work-piece interface.

- Typical inlet air operating pressures: 5 to 10 bar,
- Adjustable Injector Output/Stroke: 0 to 40 mm3
- Injector operating frequency: 3 seconds to 1cycle per minute

LUBETOOL air carrier accurately delivers vegetable oil in spray micro mist droplets right to the tool cutting edge for extended tool life, improved finishes and faster operations.

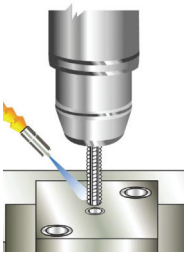


Milling Operation

TOOL FROM 1 MM TO 12 MM	1 NOZZLE
TOOL FROM 13 MM TO 40 MM	2 NOZZLE
TOOL FROM 41 MM TO 100 MM	3 NOZZLE
TOOL FROM 101 MM TO 240 MM	4 NOZZLE

• Metal Machining Operations

Locate cone jet nozzle close to the contact point between work and the tool. Note: Only a small amount of vegetable oil is required for successful results.



1 - Tapping

2 - Drilling-Boring

1

TOOL FROM 3 MM TO 10 MM	1 NOZZLE
TOOL FROM 11 MM TO 20 MM	2 NOZZLE
TOOL FROM 21 MM TO 40 MM	3 NOZZLE
TOOL FROM 41 MM TO 60 MM	4 NOZZLE

2

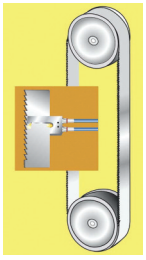
TOOL FROM 1 MM TO 12 MM	1 NOZZLE
TOOL FROM 13 MM TO 24 MM	2 NOZZLE
TOOL FROM 25 MM TO 48 MM	3 NOZZLE
TOOL FROM 49 MM TO 60 MM	4 NOZZLE

• Cutting/ Sawing Operations

Always direct nozzle lubrication discharge nozzle into the clearance crevice

Notes:

- Number of nozzles used in set up depends on materials and processing speeds- use tables as a guide only.
- Increasing delivery amounts does not improve results – small discharges are better – **use drops not liters!**
- Rigid and flexible LUBETOOL jets for stationary and flexible mounting (magnetic jet holder) are available.
- A selection of nozzles are offered: flat discharge nozzles for lower speeds and cone shaped nozzles for high speed operations



1 - Band Saw

2 -Circular Saw

1

BLADE FROM 6 MM TO 34 MM	1 INLET – 3 OUTLETS
BLADE FROM 41 MM TO 80 MM	2 INLETS – 5 OUTLETS

2

DISK FROM 175 MM TO 225 MM	1 INLET – 3 OUTLETS
DISK FROM 250 MM TO 400 MM	2 INLETS – 5 OUTLETS

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