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 Micro – Lubrication Systems

The LUBETOOL assembly comprises an adjustable pneumatically operated pumping element (0 mm³ to 41 mm³ 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

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Non pressurized reservoir</td>
<td>• Operational Safety</td>
<td>• Versatile applications</td>
</tr>
<tr>
<td>• Positive displacement outputs</td>
<td>• Accurate deliveries</td>
<td>• No Mess</td>
</tr>
<tr>
<td>• Hundreds of combinations available</td>
<td>• Broad application range</td>
<td>• Problem Solver</td>
</tr>
</tbody>
</table>

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

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.

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

Learn more about LUBETOOL by downloading their catalog now
LUBETOOL
Metal Cutting Operations, Near Dry Machining with Vegetable Oil
(Green Machining)

• 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 1 cycle 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.

• 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.

• 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

Metal Machining Operations

Cutting/ Sawing Operations

1 - Tapping
2 - Drilling-Boring

1 - Band Saw
2 - Circular Saw

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