

Accu-Lube®



General Purpose • Heavy Duty Machining • Specialized Machining
Hand-Applied Lubricants • Minimum Quantity Lubrication (MQL) Delivery Systems
Accessories • Repair/Replacement Part Kits



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Accu-Lube®

HISTORY OF EXCELLENCE

FOUNDED 1979

Accu-Lube has been the industry leader in manufacturing lubricants and equipment for Minimum Quantity Lubrication (MQL). Today, Accu-Lube continues to be at the forefront of near-dry machining through our dedication to innovation, safety and service.

COMMITTED TO RESPONSIBLE MANUFACTURING

Accu-Lube manufactures a complete line of environmentally safe metalworking lubricants using renewable raw materials. These fluids are specially formulated to provide superior performance and economy while helping to keep the planet safe from industrial contaminants by getting rid of the toxins required in flood coolant and eliminating harmful waste. Our mission is to help customers create cleaner, safer, greener facilities with our non-toxic, biodegradable lubricants that are second to none in performance, quality and value.

QUALITY OVER QUANTITY

“A little lubricant is the big difference between dry machining and Near-Dry Machining”

With dry machining there is no lubricant to protect the part and tool, no barrier to reduce heat build-up, no means to prolong tool life. These problems are eliminated in near-dry machining with minimum quantity lubrication and precision application of lubricant droplets to the tool's cutting edge.

Accu-Lube Minimum Quantity Lubrication applicator systems use advanced technology to focus droplets of lubricant directly onto the tool's cutting edge, providing lubrication and protection precisely where it is needed. Our minimum quantity approach allows manufacturers to conserve fluid and cut down on waste. With a small amount of our premium lubricant, tools last longer and parts come out cleaner. By eliminating flood coolant, shops stay clean and fluid maintenance is a thing of the past.

This is Near-Dry Machining.



#1 PRODUCT

FOR 20 YEARS

LB-2000 General Purpose MQL

FEATURES

- Moderate to heavy-duty
- Vegetable-based, biodegradable lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Clean before heat treating with soap and water

APPLICATIONS

- General machining, sawing and cutting
- Drilling & tapping small holes
- Sawing large diameter solids
- Large diameter tapping
- Broaching & spline rolling

PART NO.

SIZE

LB2000

1 gal. jug (4/case)

LB2055

55 gal. drum

Most light & moderate duty work, including: milling, cutting, tapping & drilling.



LB-3000 General Purpose MQL

FEATURES

- Moderate-duty
- Vegetable-based, biodegradable lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Clean before heat treating with soap and water

APPLICATIONS

- General machining and sawing
- Replacement for "mist" type lubricant and coolant
- Lumber & wood cutting applications

PART NO.

SIZE

LB3000

1 gal. jug (4/case)

LB3055

55 gal. drum



Synthetic II General Purpose MQL

FEATURES

- Moderate-duty near-dry stamping and machining.
- Economical, water-based, synthetic lubricant
- Boron free with superior lubricity, provides excellent corrosion protection
- For ferrous & nonferrous metals and aluminum
- Clean before heat treating with rinse water

APPLICATIONS

- Stamping
- General machining, sawing and cutting

PART NO.

SIZE

LBSY201

1 gal. jug (4/case)

LBSY255

55 gal. drum

GENERAL PURPOSE (NON-STAINING)



LB-6000 Light Viscosity MQL

FEATURES

- Moderate to heavy-duty
- Vegetable-based, biodegradable lubricant
- Non-staining, burns off cleanly in post heat treating
- For ferrous & nonferrous metals, aluminum and titanium

APPLICATIONS

- Moderate-duty machining, cutting and sawing, milling, drilling, tapping and punching
- Replacing “mist” type lubricant and coolant
- Aluminum applications with post-heat treating
- Thru-tool applications

PART NO.

SIZE

LB6000	1 gal. jug (4/case)
LB6055	55 gal. drum

Most light & moderate duty work, including: milling, cutting, tapping & drilling.



LB-4600
Light Viscosity MQL

FEATURES

- Light-duty
- Vegetable-based, biodegradable lubricant
- Non-staining, burns off cleanly in post heat treating
- For ferrous & nonferrous metals, aluminum and titanium

APPLICATIONS

- Light-duty machining, sawing and cutting
- Aluminum extrusion machining and sawing (see LB-8500 on page 4)

PART NO.	SIZE
LB4600	1 gal. jug (4/case)
LB4655	55 gal. drum



LB-5000
Light Viscosity MQL

FEATURES

- Moderate-duty
- Vegetable-based, biodegradable lubricant
- Non-staining, burns off cleanly in post heat treating
- For ferrous & nonferrous metals

APPLICATIONS

- General machining, sawing and cutting
- Post-heat treating aluminum
- Excellent on abrasives

PART NO.	SIZE
LB5000	1 gal. jug (4/case)
LB5055	55 gal. drum



LB-6800
Light Viscosity MQL

FEATURES

- Moderate-duty minimum quantity lubricant
- Vegetable-based, biodegradable lubricant
- Non-staining, burns off cleanly in post heat treating
- For ferrous & nonferrous metals, aluminum and titanium

APPLICATIONS

- General machining, sawing and cutting
- Sawing aluminum castings

PART NO.	SIZE
LB6800	1 gal. jug (4/case)
LB6855	55 gal. drum



LB-1000 Heavy Duty MQL

FEATURES

- Extra heavy-duty
- Vegetable-based, biodegradable lubricant
- 5% chlorinated EP additives, also available with 10 or 30% EP
- For ferrous & nonferrous metals, including aluminum
- Not recommended for titanium
- Clean before heat treating with soap and water

APPLICATIONS

- Heavy-duty machining, sawing and cutting
- Difficult steel & hardened metal operations
- Large diameter tapping
- Deep hole drilling
- High heat operations
- Sawing large diameter solids



LB-1100 Heavy Duty MQL

FEATURES

- Heavy-duty
- Vegetable-based, biodegradable lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Water-washable
- Clean before heat treating with rinse water

APPLICATIONS

- Heavy-duty machining, sawing and cutting
- Exotic and high nickel alloys
- Aerospace industry
- Large diameter tapping
- Deep hole drilling
- Carbide die stamping
- Sawing large diameter solids

PART NO.	SIZE
LB1100	1 gal. jug (4/case)
LB1155	55 gal. drum

Working with denser alloys, thicker metals, higher tool pressure applications.



LB-6100 Light Viscosity MQL

FEATURES

- Heavy-duty
- Vegetable-based, biodegradable lubricant
- Non-staining, burns off cleanly in post heat treating
- For ferrous & nonferrous metals, aluminum and titanium

APPLICATIONS

- Moderate-duty milling, drilling, tapping, stamping and punching
- Heavy-duty machining, sawing and cutting
- Sawing large diameter solids
- Large diameter tapping
- Deep hole drilling
- Operations that generate a lot of heat
- Thru-tool applications

PART NO.	SIZE
LB6100	1 gal. jug (4/case)
LB6155	55 gal. drum



Power Stamp II Light Viscosity MQL

FEATURES

- Heavy-duty
- Vegetable-based, biodegradable lubricant
- Non-staining, burns off cleanly in post heat treating
- For ferrous & nonferrous metals, aluminum and titanium
- Clean with rinse water

APPLICATIONS

- Stamping
- Operations that generate a lot of heat
- Machining aluminum and titanium
- Carbide die stamping

PART NO.	SIZE
LBSTII01	1 gal. jug (4/case)
LBSTII55	55 gal. drum



Power Stamp III Heavy Duty MQL

FEATURES

- Heavy-duty
- Vegetable-based, biodegradable lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Water-washable
- Clean before heat treating with rinse water

APPLICATIONS

- Stamping
- Sawing solids
- Heavy-duty machining, sawing and cutting

PART NO.	SIZE
LBSTIII01	1 gal. jug (4/case)
LBSTIII55	55 gal. drum

SPECIALIZED MACHINING



LB-8500* Minimum Quantity Lubricant for Cutting & Machining Aluminum

FEATURES

- Sawing and machining of aluminum, due to superior lubricity
- Cures clean for post heat treat coating or finishing treatments
- A general use product for all metals and all types of machining
- Light to moderate duty

APPLICATIONS

- Sawing and “light to moderate” duty machining aluminum
- Blended cutting fluid designed specifically for aluminum extrusions
- Burns off clean after post-heat treat (aging)

PART NO.

SIZE

LB8500	1 gal. jug (4/case)
LB8555	55 gal. drum
LB8555T	330 gal. tote

*Not available for California's South Coast Air Quality Management District (SCAQMD)

Metal Specific, Application specific.



Synthetic Specialized MQL

FEATURES

- Replacement for straight oil
- Multi-purpose
- Water-based, synthetic lubricant
- Cools like flood coolant, lubricates like straight oil
- Rapid heat dissipation
- Clean before heat treating with rinse water

APPLICATIONS

- General machining, sawing and cutting
- For ferrous metals

PART NO.

SIZE

LBSYNT01	1 gal. jug (4/case)
LBSYNT55	55 gal. drum



FG-2000 Foodgrade High Performance Metal Cutting Fluid

FEATURES

- Moderate to heavy-duty
- Vegetable-based, biodegradable lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Clean before heat treating with soap and water

APPLICATIONS

- General machining, sawing and cutting
- Food-grade applications
- Medical device manufacturing
- Swiss style CNC machining centers
- Milling, drilling and tapping

PART NO.

SIZE

FG2001	1 gal. jug (4/case)
FG2055	55 gal. drum



Stick Lube

FEATURES

- Lubricant stick for rotating or stationary cutting tools
- Reduces heat build-up
- Vegetable-based

FEATURES

- Short-run machining
- Rotating or stationary cutting tools
- Belt, disc and wheel grinding
- Ferrous & nonferrous metals, aluminum and titanium



Pump Spray Lube

FEATURES

- Vegetable-based, biodegradable lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Convenient pump spray bottle for mess-free lubrication

FEATURES

- Moderate to heavy-duty operations
- Short-run and hand-held machining
- Drilling
- Tapping
- Milling

PART NO.	SIZE
79042	2.2 oz. push-up stick (24/case)
79045	13 oz. tube (24/case)

PART NO.	SIZE
79026	8 oz. spray (16/case)

Made with natural ingredients, environmentally-safe.



Block Lube

Hand-held solid lubricant reduces heat build-up in belt, disc and wheel grinding applications. Designed to be applied directly to the tool or work area for immediate lubrication.

FEATURES

- Hand held solid lubricant
- Reduces heat build up in belt, disc and wheel grinding application
- Vegetable-based
- For ferrous & nonferrous metals, aluminum and titanium
- Clean with soap and water

APPLICATIONS

- Belt, disc and wheel grinding

PART NO.	SIZE
79037	2.6 oz. block (120/case)



LS-10

FEATURES

- Solid paste lubricant
- Reduces friction for cleaner cutting and better finish
- Vegetable-based lubricant
- For ferrous & nonferrous metals, aluminum and titanium
- Clean with soap and water

APPLICATIONS

- Short-run machining
- Burring
- Tapping
- Drilling

PART NO.	SIZE
7603	8 oz. jar (16/case)



Gel Paste

Natural-based gel lubricant works on a wide variety of cutting applications. The workable texture makes it easy to apply to small and large tools with a soft brush without risk of damaging the tool.

FEATURES

- Vegetable-based gel lubricant
- Workable texture makes it easy to apply to small and large tools
- Horizontal applications
- For ferrous & nonferrous metals, aluminum and titanium

APPLICATIONS

- Short-run machining
- Tapping, reaming and drilling

PART NO.	SIZE
79030	8 oz. jar (16/case)

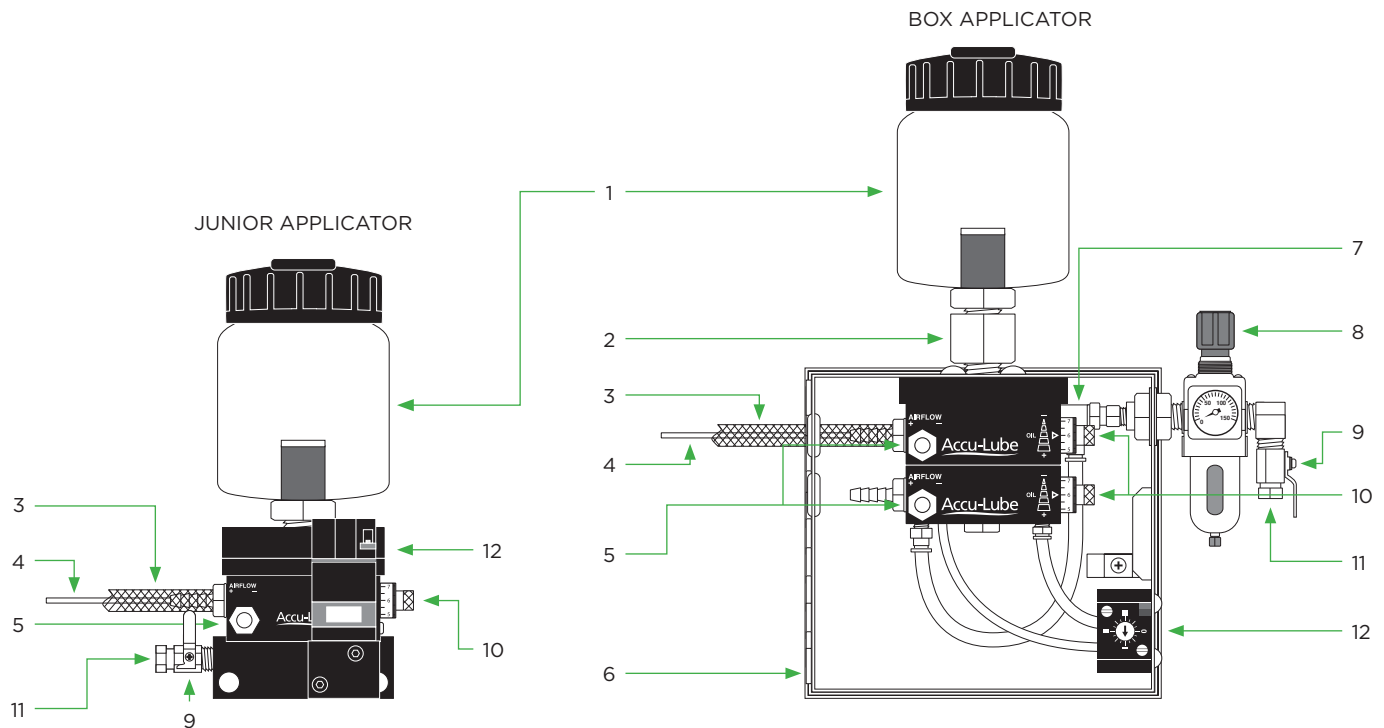
MINIMUM QUANTITY LUBRICATION (MQL) DELIVERY SYSTEMS

Minimum Quantity Lubrication applicators systems focus droplets of lubricant directly onto the tool's cutting edge, providing lubrication & protection precisely where it is needed.

POSITIVE DISPLACEMENT PUMP TECHNOLOGY

Accu-Lube positive displacement pumps are designed to accurately deliver a constant and consistent amount of lubricant from the instant the applicator is turned on until the moment it is turned off. Unlike cheap siphon-type imitators, which are negatively affected by small variances in air pressure, room temperature, air hose length, and lubricant viscosity, Accu-Lube positive displacement pumps operate with accuracy and precision year-after-year to deliver lubricant to the cutting edge each time, every time.

An Accu-Lube positive displacement pump uses air pressure to power the pump cycle. The back stroke of the cycle draws a precise, measured amount of lubricant into a chamber like a syringe. Instantly the forward stroke forces the lubricant down a capillary tube inside an air hose up to 60' (18 m) long. Since the pump cycle is automatically regulated by a frequency generator it is not affected by lubricant viscosity, which changes with temperature. This is crucial for any application operating in an environment without climate control since lubricants thicken in the cold. Accu-Lube positive displacement pumps deliver instant performance, with every type of Accu-Lube lubricant, in all conditions.



Definition

1. **Liquid Reservoir:** Light weight, durable polycarbonate reservoir. (16 oz. standard equipment)
2. **Reservoir Extension:** Connects the liquid reservoir to the applicator.
3. **Braided Air Hose:** Carries compressed air to the nozzle.*
4. **Lubricant Line:** Capillary tube that runs inside the braided air hose.
5. **Airflow Valve:** Controls the amount of continuous air supplied to the nozzle.
6. **Security-Box (Box & Custom Applicators only):** Durable steel box with lock. Separate front and back doors offer maximum access and protection.
7. **Lubricant Control:** Secondary lubrication control; adjusts the amount of lubricant delivered during each pump cycle.
8. **Air Filter Regulator (Pressure Gauge):** Helps prevent particles and water from entering the applicator through the air supply.
9. **On/Off Valve (Manual applicators only):** Controls the applicator by regulating airflow.
10. **Precision Pump:** Uses air pressure to power the pump cycle; provides consistent and accurate lubrication instantly.
11. **Air Inlet:** Accu-Lube precision pump applicators are pneumatically powered.
12. **Frequency Generator:** Primary lubrication control; regulates the pump cycle.

* NOTE: A lubricant line that is longer or shorter than recommended will result in poor, inaccurate lubricant spray and decrease the applicator's effectiveness.

Box Applicator

The gold standard in Near-Dry Machining, featuring Accu-Lube's patented precision pumps and a lockable steel security box.

FEATURES

- Exclusive positive displacement pump technology deliver precise metered amount of lubricant
- Air filter/regulator gives added control and precision
- Lockable security box with front and back door access
- Individually controlled airflow valve, lubricant control, and frequency generator
- No misting! Coaxial hose assembly atomizes the lubricant at the nozzle tip prevents misting

BENEFITS

- Fixed applicator mounting
- 12" copper nozzle(s), fixed mounting
- 12' hose assembly (standard equipment)
- 16 oz. reservoir (standard equipment)



Manual On/Off, Fixed: Aluminum - 02A0 shown here

PRODUCT	Solenoid On/Off, Fixed												Manual On/Off, Fixed					
	ALUMINUM				BRASS		ALUMINUM				BRASS		ALUMINUM				BRASS	
PUMP TYPE																		
# OF NOZZLES	1	2	3	4	1	2	1	2	3	4	1	2	1	2	3	4	1	2
APPLICATOR DESCRIPTION	110 VAC						24 VDC						Manual					
PART NO.	01A1	02A1	03AE	04AE	01B1	02B1	01A3	02A3	03AE	04AE	01B3	02B3	01A0	02A0	03A0	04A0	01B0	02B0

Junior Applicator

The perfect solution for small production operations with the same precision pump and frequency generator as the Box Applicator.

FEATURES

- Compact applicator with magnetic mounts for easy placement
- Precision pumps deliver precisely metered lubrication
- No misting! Coaxial hose assembly atomizes the lubricant at the nozzle tip prevents misting

BENEFITS

- Manual on/off control
- Magnetic applicator mounting
- 18" Loc-Line nozzle(s), magnetic mounting
- 12' hose assembly (standard equipment)
- 16 oz. reservoir (standard equipment)

# OF NOZZLES	1	2
APPLICATOR DESCRIPTION	Manual	
PART NO.	01D0	02D0




01D0 shown here



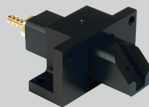
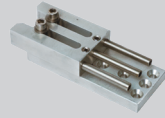

ACCESSORIES

Increase blade life, reduce fluid consumption, maximize sawing productivity. Every sawing nozzle has three angled outlets to lubricate the blade's teeth and sides. One or more internal atomizing chambers break up the lubricant for an even, consistent spray and continuous lubrication.



Band Saw Nozzles

FEATURES <ul style="list-style-type: none"> Better chip removal Improves blade life Cut tubes of all sizes and solids up to 10" wide 				
	NOZZLE DESCRIPTION	V-Nozzle	N-Nozzle	RL-Nozzle
	SIZE	0.75-1.5" wide	0.75-1.5" wide	up to 2" wide (needs 2 feeds)
	PART NO.	9692	9696	9877


Circular Saw Nozzles

FEATURES <ul style="list-style-type: none"> Unique design allows one nozzle to work like three Lubricates the cutting face and into the gullet Cleaner blades that last longer 				
	NOZZLE DESCRIPTION	C-Nozzle	CM-Nozzle	CL-Nozzle
	SIZE	up to 20" (angled head)	22-36" (needs 2-3 feeds)	36 - 120" wide (needs 3 feeds)
	PART NO.	9878	379165	9045

General-Purpose Nozzles

	
include all 3 tips as a kit	w/Magnetic Base
NOZZLE DESCRIPTION	
Copper	Loc-Line
SIZE	
12"	18" (Can be shortened to required length)
PART NO.	
79101	79108




Air & Oil Hose Assembly


				
HOSE LENGTH				
12 ft. (Standard Equipment)	20 ft.	30 ft.	45 ft.	60 ft.
PART NO.				
90050	90051	90052	90053	90054

Reservoirs






					
RESERVOIR DESCRIPTION					
16 oz. (Standard Equipment)	1 qt.	1/2 gal.	1 gal.	w/Low Level Switch	
				1 qt.	1 gal.
PART NO.					
9380	9381	9382	9384	9383	9386



Solenoids and Air Filter

		
SOLENOIDS DESCRIPTION		
Automate the on/off control of your applicator with an electric solenoid available in different voltages.		
24VDC	110VAC	110 VAC/24 VDC
PART NO.		
9516D	9518	9537




AIR FILTER DESCRIPTION
(1-4 nozzle)
PART NO.
9396

Pump Stack/Replacement kits

				
STACK COMPLETE ASSEMBLY				
1	2	3	4	Each pump will have 15ft line lubricant hose
PART NO.				
9722A	9722B	9722C	9722D	

	
STACK BRASS PUMP REPLACEMENT	
1	2
PART NO.	
9713	9714



Magnet Bases

	
MAGNETIC BASES DESCRIPTION	
1-3 Nozzle Magnetic Mount for Applicator	Magnetic Base for Copper Nozzles
PART NO.	
79120	79124

Seal Kit w/SS Piston


PART NO.
9065

Frequency Generator

	
FREQUENCY GENERATOR DESCRIPTION	
For Junior Applicator	For Box Applicator
PART NO.	
9460	9707

DATA TABLES

LUBRICANT TECHNICAL DATA

*requires solvent cleaner

APPLICATOR TECHNICAL DATA

MQL Applicator	Part No.	Aluminum	Brass	# of Pumps	Nozzle	Manual On/Off	Solenoid On/Off	Steel Security Box	Nozzle Mounting	Applicator Mounting	Reservoir Size
Box	01A1	✓		1 Pump	12" Copper		✓	✓	Fixed	Fixed	16 oz. (Standard Equipment)
	02A1	✓		2 Pump			✓	✓			
	03AE	✓		3 Pump			✓	✓			
	04AE	✓		4 Pump			✓	✓			
	01B1		✓	1 Pump			✓	✓			
	02B1		✓	2 Pump			✓	✓			
	01A3	✓		1 Pump			✓	✓			
	02A3	✓		2 Pump			✓	✓			
	01B3		✓	1 Pump			✓	✓			
	02B3		✓	2 Pump			✓	✓			
	01A0	✓		1 Pump			✓	✓			
	02A0	✓		2 Pump			✓	✓			
	03A0	✓		3 Pump			✓	✓			
	04A0	✓		4 Pump			✓	✓			
	01B0		✓	1 Pump			✓	✓			
	02B0		✓	2 Pump			✓	✓			
Junior	01D0			1 Pump	18" Loc-Line	✓			Magnetic	Magnetic	
	02D0			2 Pump		✓					



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