

Oil Streak™ Generating Unit

Air/Oil Lubrication Systems



Cleaner oil + air =

*Higher performance
& less downtime*

System Overview

Oil Streak™ Generating Unit from Bijur Delimon International delivers high-efficiency lubrication and cooling for high-speed spindles and other surfaces requiring accurate oil deliveries. Air/oil lubrication allows for minimal lubricant delivery on a continuous basis, reducing oil consumption and keeping the bearing surface clean and free of contaminants. The unit can be retrofitted to high frequency spindles designed for mist or air/oil injection systems and offer value and features found on more expensive systems.

The advanced design delivers precise amounts of lubricant and eliminates residual drift of oil fog or mist during operation.

The unit utilizes a specially-designed positive displacement injector (PDI) with oil outputs to a close tolerance level down to 0.01cc/cycle. This permits exact oil volumes to be discharged into an air mixing valve. Controlled air and oil is then discharged through clear plastic tubing to critical bearing points.

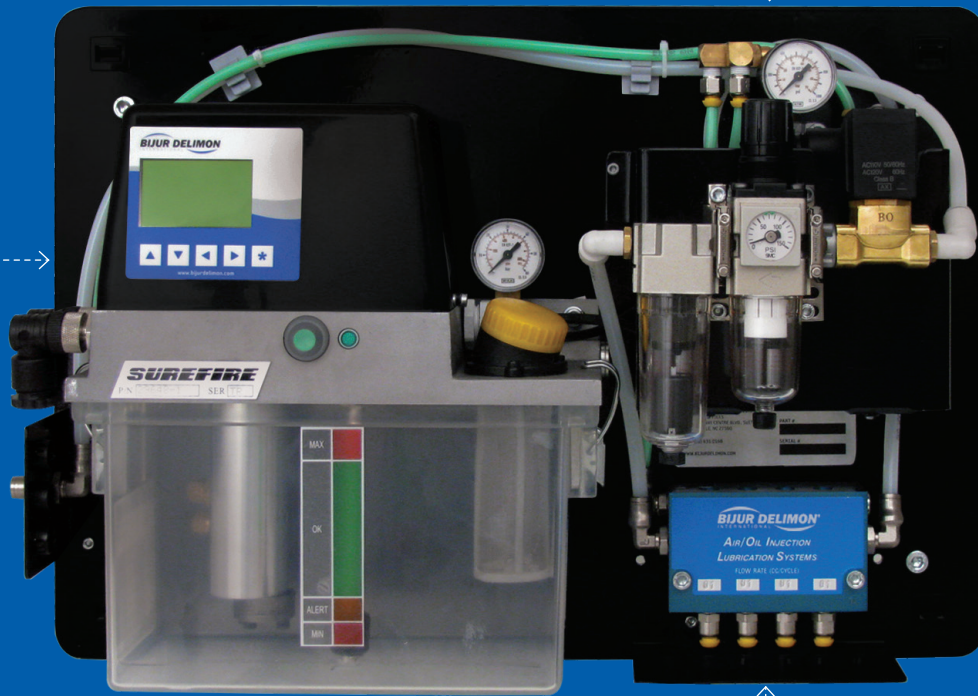
A small intermittent discharge from injectors flows along the inside tube wall and stretches out along the length of the tube. Air expansion at nozzle tip delivers controlled spray (not mist) to bearing for optimum performance.

Applications

- + Frequency motorized spindles
- + High speed internal grinding machines
- + High speed VMC machine tool applications include high frequency grinding

SureFire PDI

The SureFire PDI lubricator is a robust, electric motor-driven gear pump, with timer and controller versions available. Pressure and low-level switches are provided to monitor lubricator operation and reservoir oil level.



Air Preparation System

This assembly comprises a Air Pressure Regulator, Filter (5-micron), Coalescing Filter (0.3-micron), Air Pressure Gauge, and Solenoid Valve. Solenoid Valves available in various voltages (115VAC, 220VAC, 24VDC). Both filters are equipped with auto drain clear plastic bowls.

Air/Oil Injector Block

Available in one to eight injectors, the air/oil injector block has an individual flow needle valve. Outputs range from 0.01cc to 0.40cc per cycle.

Benefits

	Minimize Oil Consumption
	Protect Bearings from Contamination
	Lower Operating Temperature
	Save Money
	Eliminate Oil Fog & Mist During Operation
	Reduce Waste

Additional Advantages

- + Improve spindle performance with precise lubricant delivery.
- + Reduce spindle repairs and downtime due to lack of lubrication.
- + Increase spindle reliability over mist systems, due to cleaner air and oil.
- + Improve machining and finish due to precise oil delivery, reduce vibration and noise.
- + Reduce oil consumption and cost 60-75% compared to mist oilers.
- + Air/oil has the capability of using higher air pressure and flow when compared to mist.
- + The spindle, wheel head and dresser run cleaner and last longer.
- + Reduce airborne oil mist smoke, contamination of coolant and improve environment.

Refer to the following:

+ *Brochure #35715: Oil Streak™ Systems*

BIJUR DELIMON INTERNATIONAL

(919) 465 4448 LOCAL
(800) 631 0168 TOLL-FREE
(919) 465 0516 FAX

WWW.BIJURDELIMON.COM

2250 Perimeter Park Drive, Suite 120
Morrisville, NC 27560