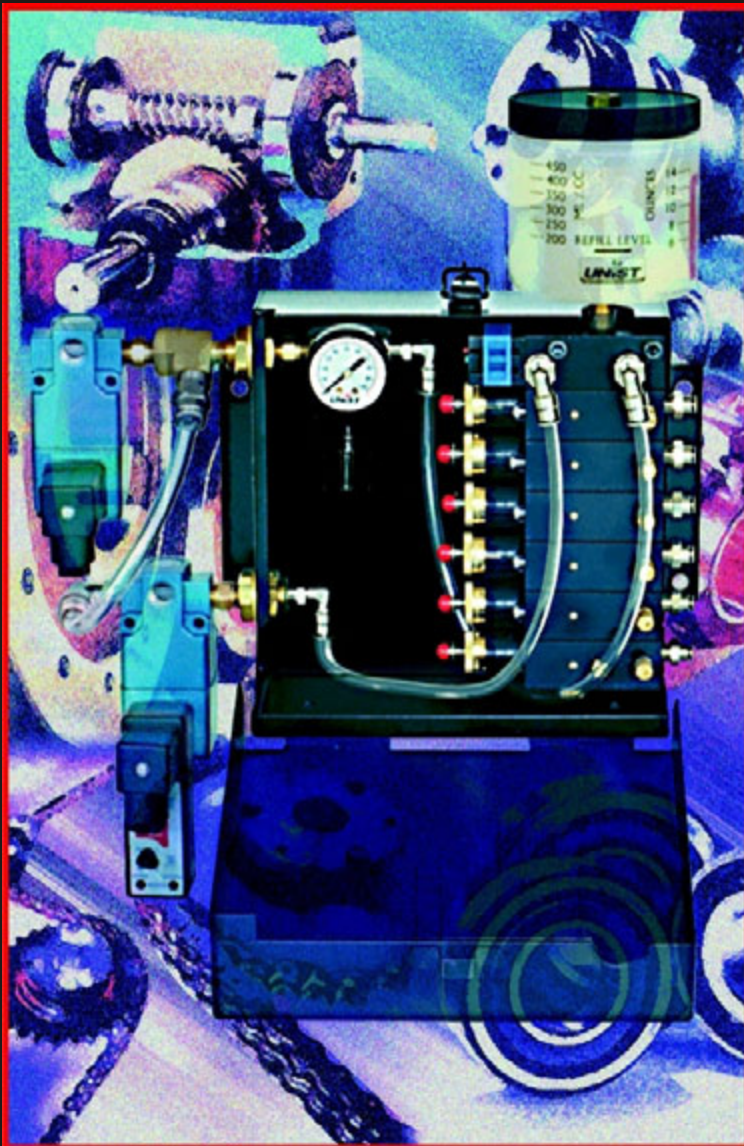


PRECISE FLUID DISPENSING PRODUCTS

UNIST.COM



airOil wearpoint lubrication systems



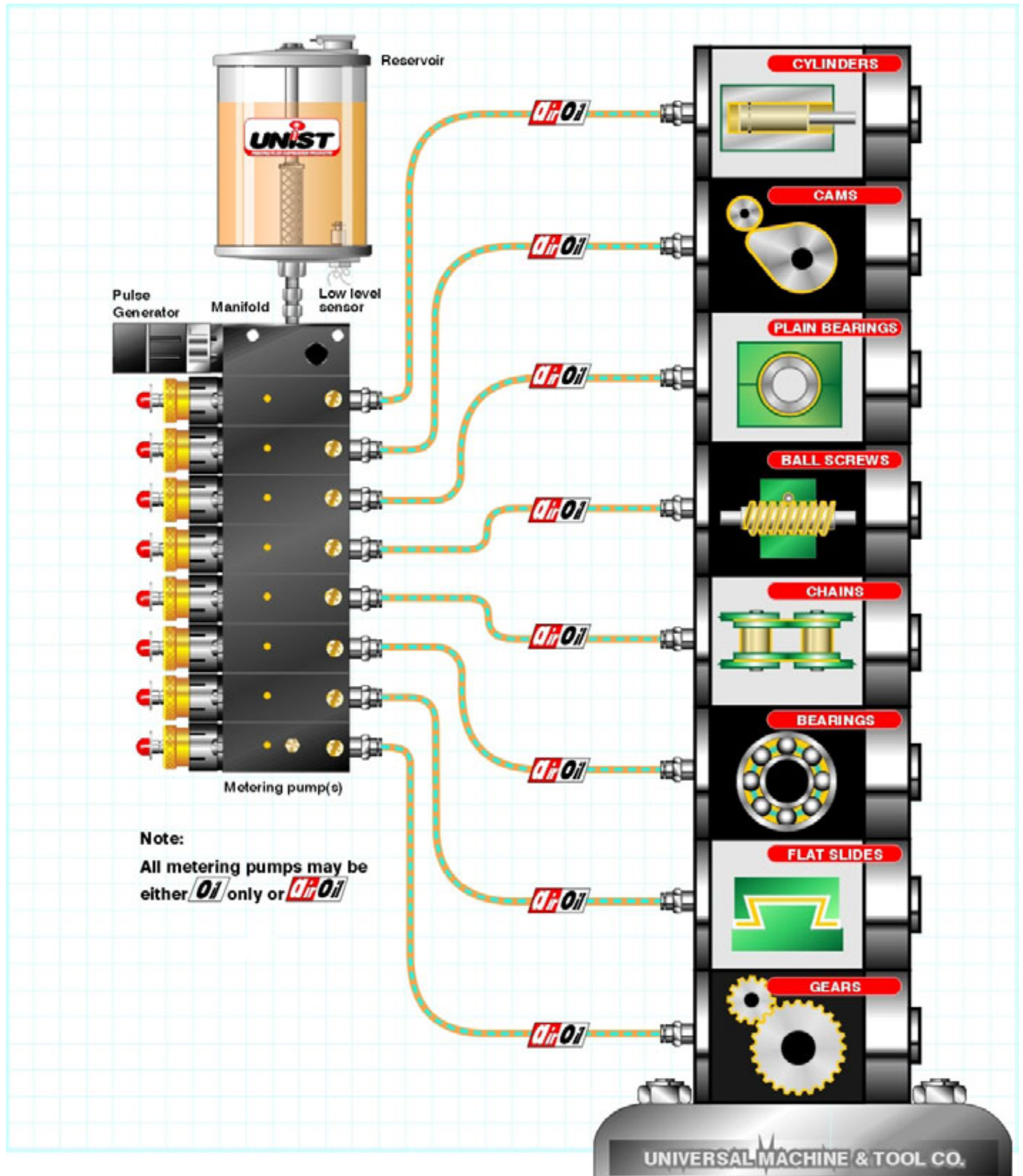
CONTROLLED
AIR/OIL DELIVERY SYSTEMS
FOR:

BEARINGS
•
BALL SCREWS
•
CHAINS
•
RAILS
•
GEARS
•
WIPES
•
**WHEEL
FLANGES**
•
AIR MOTORS
•
**CUTTING
TOOLS**
•
AIR CYLINDERS
•
**WELDING
ELECTRODES**
•
JOURNAL BEARINGS

"a better idea" from



TYPICAL APPLICATIONS



BASIC SINGLE LINE SYSTEM

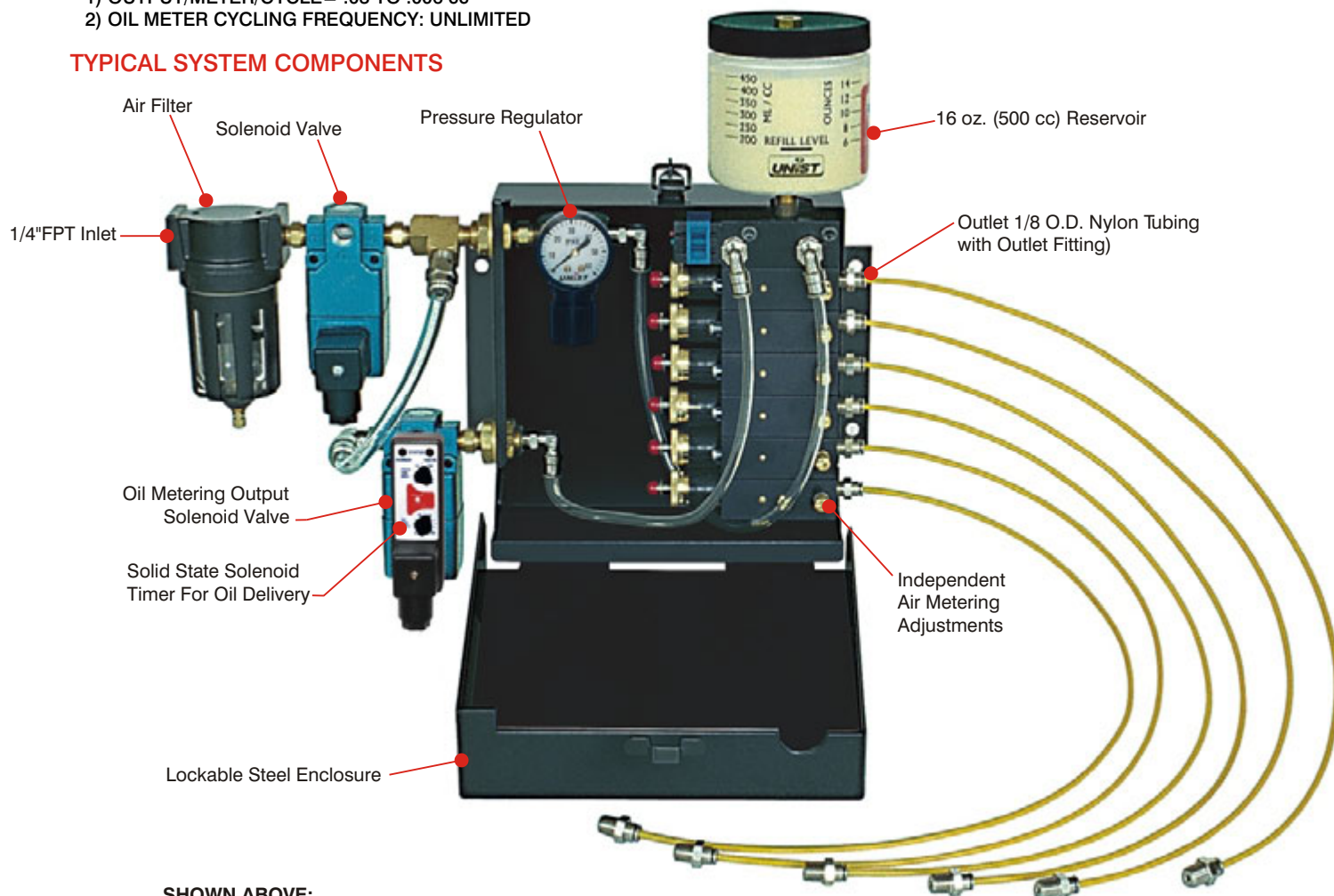
SYSTEM OPERATION

- ENERGIZING BOTH SOLENOID VALVES TURNS THE SYSTEM ON.
- AIR FLOWS IN METERED AMOUNTS TO ALL OUTPUT POINTS. PERIODICALLY, METERED OIL IS PUMPED INTO THE AIR OUTPUT LINE AND FLOWS TO LUBRICATION POINTS. THE SYSTEM WILL OPERATE AUTOMATICALLY AS LONG AS BOTH SOLENOID VALVES ARE ENERGIZED.

ADJUSTMENTS

- AIR:
 - 1) SYSTEM INLET PRESSURE TO 120psi.
 - 2) AIR PRESSURE ADJUSTMENT TO EACH LUBE POINT 0-100 psi.
- OIL:
 - 1) OUTPUT/METER/CYCLE= .03 TO .006 cc
 - 2) OIL METER CYCLING FREQUENCY: UNLIMITED

TYPICAL SYSTEM COMPONENTS



SHOWN ABOVE:

6 point single line system, commonly used for bearings, cams, gears etc. Lubricant usage: .006 cc/hr - 200 cc/hr per outlet

SYSTEM SPECIFICATIONS

- OIL OUTPUT: 0 TO .35 cc/min PER OUTLET
- OIL PRESSURE: TO 1000 psi. (65 BARS)
- RESERVOIR CAPACITY: (See next page for optional sizes)
- OPERATING VISCOSITY: TO 300,000 S.U.S
- AMBIENT TEMPERATURE: 0 - 50 deg. CELSIUS
- POWER : 10w MAX
- VOLTAGE: 24-240 VAC. 50/60 CYC. 12-24 VDC.
- ENCLOSURE: LOCKABLE STEEL-SEAM WELDED
- LOW-LEVEL FLUID SWITCH - OPTIONAL

Inadequate or improper lubrication causes approximately 50 percent of bearing failures and 60 percent of mechanical failures.

The costs to repair damage caused by mechanical wear clearly can take an unnecessary toll on your maintenance and repair budget.

Our engineers can design a system to automatically lubricate hundreds of wearpoints so that each wearpoint receives the appropriate amount of lubricant at the appropriate time, with none being missed or over lubricated, wasting manpower and lubricant.

Selecting the right lubrication system

UNIST offers nearly unlimited wearpoint lubrication systems configured with one or more metering pumps with optional pulse generator, tanks or reservoirs, supplying both air and oil or oil only to one or more wearpoints.

Accessories / Options / Tanks / Reservoirs

OPTIONS & FEATURES



Solenoid Valve Options

- 24-240 VAC
- 12-24 VDC



Solid State Solenoid Timer

- Provides periodic signal to operate Oil Metering Pumps



Day/Date Timer

- 7 Day/24 Hour timers available

Consult factory



Air Filter - 1/4" NPT for water and particulate removal



Pressure Regulator for adjustment of air pressure to lubrication points

OUTLET FITTINGS



TANKS & RESERVOIRS





Application Questionnaire

Company Information:

Name _____ Date _____
Company Name _____ Phone _____
Address _____ Fax _____

e-mail _____

Business Type: End User ____ OEM ____

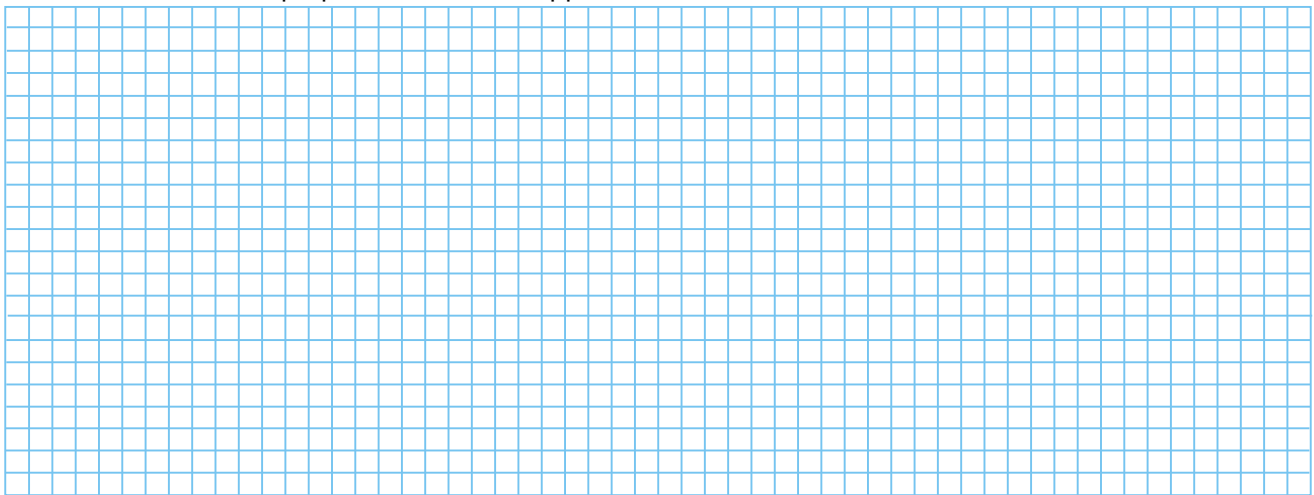
End Product _____

Application Information:

Product Wearpoint To Be Lubricated: _____
Current Method Of Lubrication: _____ ☐ None
Current Application Method: _____ ☐ Not Known
Approximate Distance from Control Unit to Lubrication Points: _____ ☐ UNIST To Recommend
Preferred Actuation Method: ☐ Electric (_____ Volts/AC or DC) ☐ Pneumatic ☐ Manual ☐ Other _____
Desired Lubricant: _____ Dispensing Rate: _____
Operating Environment (Temperature Extremes, etc.) _____
Comments: _____

Application Sketch:

Provide a sketch of the proposed lubrication application.



Please fill out this form and fax it to us at 616-949-9503. We will determine the correct system for your application and provide a specific proposal.



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UNIST, Inc. 4134 36th Street, S.E. Grand Rapids, Michigan USA 49512

Your **Micro-Fluidization** Specialist!

Additional Micro-Fluidization Products from UNIST

Coolube 2210 will yield the lowest net manufacturing cost of any fluid



Sawing



Drilling



Tapping



Milling

Coolube 2210 is a premium quality vegetable based metalcutting lubricant. It is formulated to work with ferrous and non-ferrous metals.

Coolube 2210 is ideally applied with Uni-MAX precise fluid applicators. **Coolube 2210** is a polar lubricant and is most effective when applied sparingly. If it is applied correctly and the proper amounts are dispensed, Coolube 2210 will yield the lowest net manufacturing cost of any fluid. Cost saving will be realized through longer tool life, increased productivity, lower shop maintenance cost, clean chips, clean parts and clean machines.



CUTTING TOOL LUBRICATION Micro-Fluidization Products

uni-MAX Coolubricator

- Air-driven, positive displacement pumps supply precisely metered liquids
- Continuous output: 1-200 cycles/minute with .2 to drops per cycle
- Continuous spray
- For metal cutting, machining & stamping
- For plastic or wood machining and cutting
- For in die lubrication
- For chain lubrication



uni-MAX Serv-O-Spray

- Intermittent: Manual to 200 cycles/minute
- Precise metering of liquids - .2 to 3.0 drops per injection cycle
- Individually controlled meters (1-50)
- Special seals for exotic fluids
- For supplemental and spot lubrication
- For in-die lubrication



uni-MAX Single Line Systems

- Lower cost alternative to Coolubricator
- Air-driven, positive displacement pump supplies precisely metered liquid
- 1-200 cycles/minute with .2 to 3.0 drops per cycle
- Continuous spray
- For metal cutting, machining and stamping
- For plastic or wood machining and cutting
- For in-die lubrication
- For chain lubrication



SAW BLADE LUBRICATION Uni-MAX W/BAT NOZZLE

NEW Uni-MAX 3 outlet "BAT" Nozzle

Covers the face and both sides of the saw teeth simultaneously.



Continuous and precise lubricant is delivered to the bat nozzle by a Uni-MAX Coolubricator for a low cost delivery system.

Outfit or Retrofit your saws with the latest lubrication technology - designed to increase blade life, reduce fluid consumption, produce dry, easily recycled chips, and maximize sawing productivity.

Tuff-Thane™

Polyurethane Hose Assemblies and the Full-Flo Fitting System

Tuff-Thane hoses provide significant advantages over nylon, PVC and rubber hoses for air tools, blow guns, etc. Made of polyurethane, our Tuff-Thane hoses are almost indestructible.

When combined with our patented Full-Flo Fittings, Tuff-Thane hoses provide an unrestricted flow of air. This permits the use of smaller size hoses reducing weight and cost while improving flexibility and air tool operation.

Together, Tuff-Thane hoses and Full-Flo Fittings provide features not found in any other hose assemblies:

- Excellent recoil memory
- Smaller coil size
- Reduced hose weight
- Consistent, smooth inside fitting and hose diameter.
- Elimination of compression fittings, ferrules, inserts, spring guards and whip hose extensions.
- Non-Marketing of painted surfaces



THRU-THE-TOOL LUBRICATION For Coolant Fed Tooling

THRU TOOL

CONTROLLED AIR/FLUID DELIVERY SYSTEMS FOR COOLANT FED TOOLING

- Improved housekeeping
- No recycling or costly disposal of coolants
- Coolant plus air cools tooling and removes chips
- Lubricants cling to cutting surface reducing heat generation
- Lubricants lubricate the flutes, holes, and chips, improving hole quality



"DRY CHIPS"

FLAT STOCK LUBRICATION Precise Push Button Control

SPR-2000 PROGRAMMABLE LUBRICATION STATION

can control lubricant at up to 22 LUBE POINTS. These points can be Internally Fed Rollers on UNIST uni-ROLLER stock lubrication systems, External Spray Nozzles, or In-The Die lube points. The system can save up to 60 different programs and can also monitor critical functions such as FLUID LEVEL, PRESSURE, and FLOW.

"Take Total Control"™ SPROLLit™

Use the SPR-2000 SPROLLit with our UNIST uni-ROLLER to coat stock in metal forming operations or with spray nozzles for a multitude of other applications.



FLAT STOCK LUBRICATION Coil & Blank Stock Coating

uni-Roller™



Applications

- Punching
- Stamping
- Fine Blanking
- Deep Drawing
- Roll Forming
- Cold Extrusion
- Application of Rust Preventatives and Other Protective Coatings

Benefits

- 75-90% Reduction in fluid consumption
- Coates any stock width or thickness
- Lubricates one or both sides of coil or blanks
- Stock powered or motorized
- No Fluid Recycling
- Cleaner Work Areas

LOCAL REPRESENTATIVE



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Insist on Unist.