

Can Making Lubrication Systems

Proven Precision & Performance



Unist Quality Systems Since 1957!



Unist, Inc. is a recognized leader in the design and manufacture of precision fluid application systems for the metal cutting and metal forming markets. Since 1957, Unist has been providing innovative solutions to our customers that save money in their manufacturing processes by reducing the amount of fluids consumed through repeatable, reliable application. The consistent application of minimum quantities of fluids reduces waste, saves money, improves process efficiency, and is friendly to the global environment.

Since 1993, Unist has offered precision lubrication application systems for the metal forming industry. Unist's Uni-Roller[®] systems feature a unique internally-fed roller design and provide an environmentally friendly solution for applying lubricants to coil stock. The Unist product line is built around the concept of applying lubrication in a precise manner resulting in fluid usage reduction, the elimination of unsightly, dangerous fluid mess, and increased efficiency due to an even and consistent application of fluid.



The industry's leading solution since 1999

Unist systems have proven themselves in the field and are currently running on over 400 can making lines around the world.

Unique internally-fed design

Unist's roller systems feature a unique internally-fed roller design and provide an environmentally-friendly solution for applying lubricants to coil or sheet stock.

The Unist product line is built around the concept of applying lubricant in a precise manner, which results in fluid usage reduction, the elimination of fluid mess, and increased production rates.



The design of the internally supplied rollers is the key to applying fluid. Inside each of the rollers there is a dispenser tube with several small holes spaced along its length. Every time fluid is injected into the dispenser tubes from the fluid controller, it is dispensed evenly across the inside of the rollers through these holes. The lubricant is then transferred to the stock through a durable polyester felt roller cover that applies the lubricant smoothly and evenly across both the top and bottom of the stock. As the system continues to cycle, additional lubricant is injected to replenish the lubricant applied to the stock.

APEX

UNIST APEX

MINIS.

The advantage of our internally-fed system is its consistent application of the exact amount of lubricant required for any particular operation.

Call Unist today! 800.253.5462



The Apex[™] cupping press coil lubrication system

Designed specifically for coil lubrication in the can making industry, the Apex[™] cupping press coil lubrication system gives can makers precise control over the application of their cupping lubricants. The unique internally-fed roller design of the Uni-Roller[®], combined with the Apex[™] controller has proven itself capable of applying lubricants in quantities as low as 15-20 mg/ft² (161-215 mg/m²). This level of control, combined with high reliability, provides years of exceptional performance with minimal maintenance.

Always accurate

The Apex[™] controller takes coil stock lubrication to new levels of precision and convenience with features not available in any other lubrication system. The Apex[™] is an upgrade to Unist's proven SPR-2000[™] technology and utilizes an electronically-controlled, positive-displacement pump to provide precise and repeatable volumes of lubricant to the coil. The positive-displacement pump is not impacted by changes in fluid viscosity, which allows consistent application of lubricant regardless of the ambient temperature. PLC-based controls allow for easy setup, troubleshooting, and monitoring of the lubrication system both at the press and remotely using Ethernet connectivity.





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VAUNTHER HELE

SETUP ONE

Detect issues before they interrupt production Active monitoring



View previous alarm conditions Alarm history



Consistent output Positive-displacement metering pump



Easy to use Color touch screen interface



Know on the go Remotely monitor your lubrication system with ethernet connectivity

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The Apex[™] features active monitoring to detect potential issues before they surface and an alarm history to view previous alarm states. A color touch screen interface displays all critical system parameters and makes adjusting the amount of lubricant on your coil simple. The Apex[™] also tracks total lubricant dispensed, making it easy to monitor lubrication costs. The monitoring and process control features of the system are optimized for cupping presses. This makes the Unist system a reliable choice for meeting the stringent demands of can makers.



Critical info at a glance

The Apex[™] system displays all critical runtime information in one central location. The home screen can be used to monitor the system and troubleshoot issues



Active monitoring

The Apex[™] monitors all critical runtime parameters and alerts the user of potential problems and stops the press when critical issues arise

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Alarm history

The Apex[™] system displays a history of the previous 20 alarms for troubleshooting help and downtime diagnosis







Easy maintenance

Manual control allows the user to easily perform regular maintenance and troubleshooting procedures on the Apex[™] system

Easy roller setup

Changing the amount of lubricant applied to the coil stock has never been easier with the Apex[™] system's roller setup screen

Totalizer: track fluid use

The Apex[™] tracks total lubricant dispensed and can be reset to monitor lubricant consumed during a time interval of your choosing

Features

The Apex [™] cupping press coil lubrication system			
Fluid viscosity & temperature independent	yes		
Fluid level monitoring	yes		
Fluid use tracking	yes		
Works with all steel lubricating fluids	no		
Complete control of fluid application across both sides of coil	yes		
Uses proven, internally-fed rollers (last significantly longer than felt pads)	yes		
Alarm error monitoring	yes		
Alarm error history	yes		
Touch screen interface	yes		
Low-maintenance system reduces down time	yes		
Monitors pressure levels in each output	yes		

Systems in the field





For more information visit: unist.com/can-making



The SPR-2000[™] cupping press coil lubrication system gives can makers precise control over the application of their cupping lubricants. The unique internally-fed roller design of the Uni-Roller[®], combined with the patented algorithms in the SPR-2000[™] controller, allows application of fluids in quantities as low as 20 mg/ft² (215 mg/m²). This level of control, combined with high reliability, provides years of exceptional performance with minimal maintenance.

Set it & forget it

At the heart of the SPR-2000[™] is a proprietary electronic controller. The controller intermittently actuates a bank of fluid dispensing solenoid valves. The programmable actuation of the valves is based on an intermittent (rate dependent) input from the line. A rotation sensor provides one input for each revolution of the roller on the Uni-Roller[®] applicator.





SPR-2000° Spray and Rolls

OUT

LIPB01

LWR01

SETUP 001 EDIT

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5

ALARM

3

6

9

Monitor critical parameters Monitor fluid level & pressure



View current alarm conditions



Compatible with a wide variety of fluids



Easy to follow menus User-friendly controller



Reduce down time Low-maintenance system

Need assistance configuring your system? We can help!

Unist's SPR-2000[™] cupping press coil lubrication system is engineered to meet the lubrication demands of aluminum and steel cupping lines. The patented Unist SPR-200[™] programmable fluid controller includes pressure and fluid level monitoring, as well as an auto-refill feature. The Uni-Roller[®] applicator includes a dispenser tube specifically optimized for the lubrication rates used in cupping presses. This makes the field proven SPR-2000[™] cupping press coil lubrication system a reliable choice for meeting the stringent demands of can makers.



Setup & configurations are executed with easy to follow menus

ACCESS CODE

Enter New Access Code: XXXX Use Access Code? N Press > for Y/N

The ACCESS CODE SCREEN allows the user to setup passwords to control system access

AUTO SETUP

Enter Maximum Number of Strokes or Cycles per minute: 0____

AUTO SETUP MODE prompts the user for job specifications and automatically creates a new setup program for Uni-Roller® applications

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OUT	CNT	DEL	DUR
LWR01	25	0	.200
UPR01	25	0	.200

EDIT

The EDIT SCREEN allows the user to modify current setups

ALARM

ALARMS (*=Active) Scroll to View List 01 Low Fluid 02 Low Pressure

The ALARM SCREEN allows the user to monitor all critical system functions

Features

The SPR-2000 [™] cupping press coil lubrication system		
Fluid viscosity & temperature independent	no	
Fluid level monitoring	yes	
Fluid use tracking	no	
Works with all steel lubricating fluids	yes	
Complete control of fluid application across both sides of coil	yes	
Uses proven, internally-fed rollers (last significantly longer than felt pads)	yes	
Alarm error monitoring	yes	
Alarm error history	no	
Touch screen interface	no	
Low-maintenance system reduces down time	yes	
Monitors pressure levels in each output	no	

Systems in the field





Contact us today! 800.253.5462 (US & CAN) 616.949.0853 (International)



Originally designed for easy integration into Crown[™] multi-die lines, the Unist sheet lubrication system has found unparalleled success when implemented on various types of sheet fed presses. The amount of fluid applied by the SPR-2000[™] controller is completely programmable and the unique internally-fed rollers provide a consistent coating across each sheet.

Set it & forget it

At the heart of the SPR-2000[™] is a proprietary electronic controller. The controller intermittently actuates a bank of fluid dispensing solenoid valves. The programmable actuation of the valves is based on an intermittent (rate dependent) input from the line.



Systems in the field

SPR-2000° Spray and Roller

OUT

LWR01 UPR01

SETUP 001 EDIT

CNT DEL

DUR

.200

ALARM

6





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Unist's sheet lubrication systems are engineered to meet the demands of the aluminum and steel can market. The patented Unist SPR-2000[™] programmable fluid controller includes pressure and fluid level monitoring. A cleaner press, reduced fluid consumption, and decreased downtime from inadequate lubrication are just some of the benefits of implementing the Unist sheet lubrication system.

Benefits:

- Even & consistent fluid application across the entire sheet
- Reduce fluid consumption
- Increase production rates
- · Compatible with a wide variety of fluids



Adjustable roller pressure



Rollers synchronized to sheet feed drive



- Deliver consistent coil or sheet lubrication
- Increase your production rates
- Reduce your downtime





Unist systems provide fine control over stock lubrication and are the lubrication system of choice for can makers worldwide.



The tab stock lubrication system uses the Unist Mini-Roller[™] and is an ideal solution for lubricating narrow coils commonly used in tab making.

Set it & forget it

At the heart of the SPR-2000[™] is a proprietary electronic controller. The controller intermittently actuates a bank of fluid dispensing solenoid valves. The programmable actuation of the valves is based on an intermittent (rate dependent) input from the line.





Systems in the field





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When the Mini-Roller[™] is combined with the SPR-2000[™] controller, the Mini-Roller's[™] unique internally-fed design will evenly apply lubricant to both sides of the coil. Programmable control ensures consistent lubrication resulting in increased production and decreased downtime.

Benefits:

- Even & consistent fluid application
- Reduce fluid consumption
- Increase production rates
- · Compatible with a wide variety of fluids





UNIST HAS A SOLUTION FOR YOU!

Contact Unist for more information!

Whether you're making cups, ends, or tabs, Unist has a solution which will provide even, consistent application of fluid, reduce your fluid consumption, and increase your production!

We look forward to the opportunity to demonstrate how we can help you save money while improving your manufacturing processes! Contact us to learn more about can making lubrication systems.

800.253.5462 salessupport@unist.com

Call Unist today! 800.253.5462



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