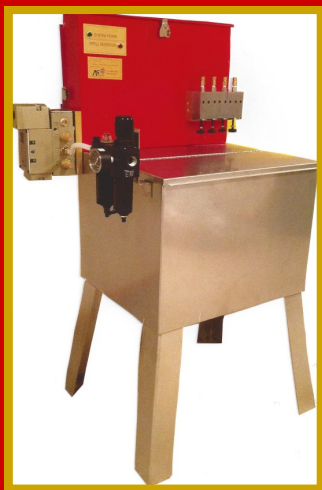


*TeK-Spray™, POLARAS™ and EconoMizer™
“Airless Spray” Lubrication Systems*

Total

Lubrication

Control



On time deliveries...

Unbelievable service...

Unbeatable pricing!!

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Committed to EXCELLENCE!

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Unbelievable service...

Unbeatable pricing!!



Since it's inception in 1990, A – S Manufacturing, Inc. has grown into an industry leader in lubricant application technology. With customers throughout the U.S., Canada, and Mexico, A – S Manufacturing, Inc. has become a name that you can trust when it comes to automatic lubrication systems. Our factory trained personnel can provide the knowledge necessary to make your lubrication project a success.

Our goal is to keep your lubricant usage to a minimum, while efficiently applying enough compound to make quality parts. We key in on such aspects as nozzle location, volume control, and timing. Let A – S Manufacturing, Inc. get you started on the road to proper die lubrication.

Our systems were originally designed for the metal stamping industry; however, in recent years, we have realized that other industrial applications have greatly benefited by using A – S Manufacturing, Inc. products. From stamping to roll-forming, or tube bending to light machining, we have what you need for fluid application.

P.O. Box 31388

Independence, OH 44131-0388

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From shelf to ship...

We guarantee that the utmost quality and workmanship will go into building your **TeK-Spray™**, **POLARAS™**, and **EconoMizer™** lubrication systems. We keep an ample supply of pre-assembled systems in our staging area ready for final assembly to meet your lubrication requirements. This allows our delivery times among the quickest in the industry.

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TeK-Spray™ “Airless Spray” Lubrication Systems



TK-2.5 Gallon Lube System

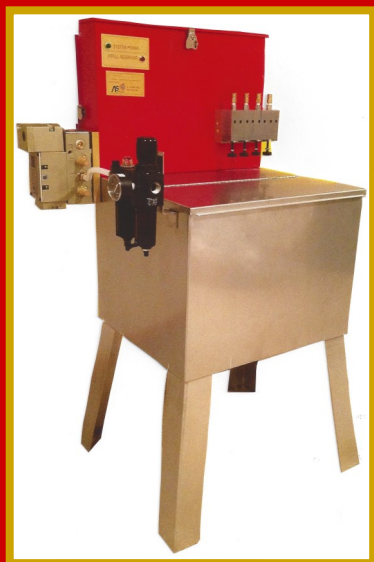
The TeK-Spray™ TK-2.5 Gallon Lube System is used for applications that use a small amount of lubricant in a day. It is available from 1 to 4 individual volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; NORGREN® 5.0 CV solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch mounted on the red powder-coated TeK-Spray™ backing plate; and a 2.5 gallon stainless steel reservoir with drain/return fittings.



Pictured with optional System Stand

TK-5 Gallon Lube System

The TeK-Spray™ TK-5 Gallon Lube System is the most popular TeK-Spray System sold. Due to its versatility, it fits most pressworking operations. It is available from 1 to 8 individual volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; ROSS® 4.2 CV solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch mounted and Manual Operation Test Button on the TeK-Spray™ red powder-coated backing plate; and a 5 gallon stainless steel reservoir with drain/return fittings.



TK-20 Gallon Lube System

The TeK-Spray™ TK-20 Gallon Lube System is used for the larger pressworking operations that require more lubrication points and would use more lubricant used during a normal shift than the smaller TeK-Spray™ Systems. It is available from 1 to 12 individual volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; ROSS® 4.2 CV solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch and Manual Operation Test Button mounted on the red powder-coated TeK-Spray™ backing plate; and a 15 gallon stainless steel reservoir with drain/return fittings.

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POLARAS™ “Airless Spray” Lubrication Systems



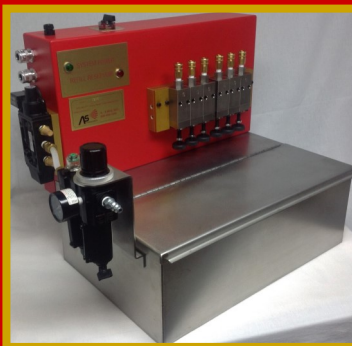
PL-2.5 Gallon Lube System

The POLARAS™ PL-2.5 Gallon Lube System is designed for applications that require less lubricant used during a normal shift. It is available from 1 to 4 individual high or low volume control stainless steel pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; NORGREN® 2.0cv solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch mounted on the POLARAS™ red powder-coated backing plate and a 2.5 gallon stainless steel reservoir with drain/return fittings.



PL-5 Gallon Lube System

The POLARAS™ PL-5 Gallon Lube System is the most popular POLARAS™ System sold. Due to its versatility, it fits most pressworking operations. It is available from 1 to 4 individual high or low volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; NORGREN® 2.0cv solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch mounted on the POLARAS™ red powder-coated backing plate and a 5 gallon stainless steel reservoir with drain/return fittings.



PL-Extended 5 Gallon System

The POLARAS™ PL-Extended 5 Gallon Lube System is the next step in the series. It is available from 1 to 8 individual high or low volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; NORGREN® 2.0cv solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch mounted on the POLARAS™ red powder-coated backing plate and a 5 gallon stainless steel reservoir with drain/return fittings.



PL-15 Gallon Lube System

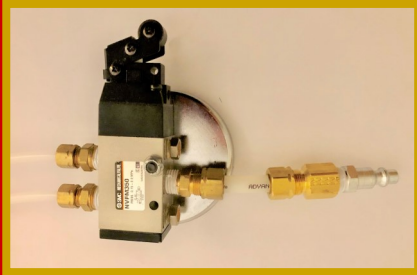
The POLARAS™ PL-15 Gallon Lube System is used for the larger pressworking operations that require more lubrication points and would use more lubricant used during a normal shift than the smaller POLARAS™ Systems. It is available from 1 to 8 individual high or low volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; NORGREN® 2.0cv solenoid operating valve; NORGREN® Air Filter/Regulator/Lubricator; POWER ON indicator light; 15' open end cord for output connection; 3 Position (Single-Off-Multiple) Selector Switch mounted on the POLARAS™ red powder-coated backing plate and a 15 gallon stainless steel reservoir with drain/return fittings.

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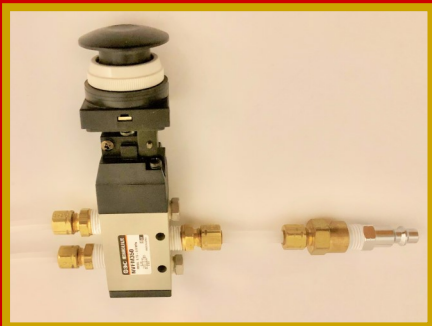
EconoMizer™ "Airless Spray" Lubrication Systems

ACTUATION DEVICES

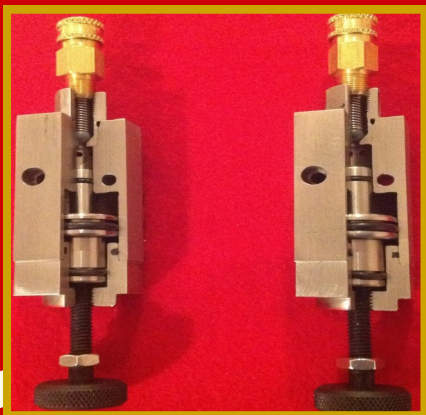
ROLLER VALVE ACTUATOR



PUSH BUTTON ACTUATOR



CHOICE OF LOW VOLUME OR HIGH VOLUME LUBRICANT PUMPS



EZ Press Mount Lube System

The EconoMizer™ Press Mount Lube System has a steel frame with key-holes designed to be mounted on the press or a location near the press. Due to its low capacity 1-1/2 gallon stainless steel reservoir it is used for tryout presses or applications that require less lubricant used during a normal shift. It is available from 1 to 4 individual high or low volume control stainless steel pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; and a SMC® air valve with roller lever actuator or manual operation button.



EZ Portable Lube System

The EconoMizer™ Portable Lube System has a steel frame with bottom tray which holds a standard 5 gallon pail. Optional casters allow the system to be easily moved from press to press. It is available from 1 to 8 individual high or low volume control stainless steel piston pumps with Viton® O-Rings; Individual stainless steel mesh filters on quick connect fittings; and a SMC® brand air valve with roller lever actuator or manual operation button.



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A - S Mfg., Inc. "Airless Spray" Lubrication Systems

TeK-Spray™

Part #	Description
TK2501	1 pump 2-1/2 gallon system
TK2502	2 pump 2-1/2 gallon system
TH2503	3 pump 2-1/2 gallon system
TK2504	4 pump 2-1/2 gallon system
TK0501	1 pump 5 gallon system
TK0502	2 pump 5 gallon system
TK0503	3 pump 5 gallon system
TK0504	4 pump 5 gallon system
TK0505	5 pump 5 gallon system
TK0506	6 pump 5 gallon system
TK0507	7 pump 5 gallon system
TK0508	8 pump 5 gallon system
TK2001	1 pump 20 gallon system
TK2002	2 pump 20 gallon system
TK2003	3 pump 20 gallon system
TK2004	4 pump 20 gallon system
TK2005	5 pump 20 gallon system
TK2006	6 pump 20 gallon system
TK2007	7 pump 20 gallon system
TK2008	8 pump 20 gallon system
TK2009	9 pump 20 gallon system
TK2010	10 pump 20 gallon system
TK2011	11 pump 20 gallon system
TK2012	12 pump 20 gallon system

POLARAS™

Part #	Description
PL2501	1 pump 2-1/2 gallon system
PL2502	2 pump 2-1/2 gallon system
PL2503	3 pump 2-1/2 gallon system
PL2504	4 pump 2-1/2 gallon system
PL0501	1 pump 5 gallon system
PL0502	2 pump 5 gallon system
PL0503	3 pump 5 gallon system
PL0504	4 pump 5 gallon system
PLXW0505	5 pump 5 gallon system
PLXW0506	6 pump 5 gallon system
PLXW0507	7 pump 5 gallon system
PLXW0508	8 pump 5 gallon system
PL1501	1 pump 15 gallon system
PL1502	2 pump 15 gallon system
PL1503	3 pump 15 gallon system
PL1504	4 pump 15 gallon system
PL1505	5 pump 15 gallon system
PL1506	6 pump 15 gallon system
PL1507	7 pump 15 gallon system
PL1508	8 pump 15 gallon system

Call today for your individual Quotation

EconoMizer™

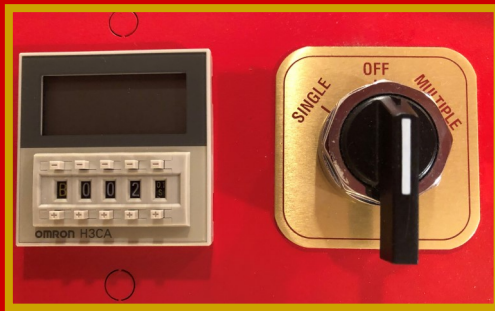
Part #	Description
EZ-1 PM	1 Pump 1-1/2 gallon press mount system
EZ-2 PM	2 Pump 1-1/2 gallon press mount system
EZ-3 PM	3 Pump 1-1/2 gallon press mount system
EZ-4 PM	4 Pump 1-1/2 gallon press mount system

EconoMizer™

Part #	Description
EZ-1	1 Pump 5 gallon portable system
EZ-2	2 Pump 5 gallon portable system
EZ-3	3 Pump 5 gallon portable system
EZ-4	4 Pump 5 gallon portable system
EZ-5	5 Pump 5 gallon portable system
EZ-6	6 Pump 5 gallon portable system
EZ-7	7 Pump 5 gallon portable system
EZ-8	8 Pump 5 gallon portable system

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Electrical Options Available



Programmable Repeat Cycle Timer

It is recommended for use when large amounts of lubricant are needed or when long stock feed lengths require multiple sprays to achieve desired lubricant coverage.



Programmable Digital Counter

An electrical device used when lubricant is not required with every stroke of the press. It can be easily programmed to deliver lubricant on desired stroke counts.



Low Lubricant Level Float Control

An electrical "fail safe" device that signals the operator when the lubricant level in the reservoir is low. The spray system automatically turns off until the reservoir is re-filled. The red "low lube level light" illuminates to alert the operator of the low lube level condition. A relay is provided to allow interfacing with the top-stop circuitry of the press, preventing dry die runs.



Magnetic Based Limit Switch

A Limit Switch is mounted on a Heavy Duty Magnet for quick set up. It is utilized to signal the operation of the spray system when provisions are not available in the existing press circuitry.



Limit Switch without Magnetic Base

A Limit Switch is utilized to signal the operation of the spray system when provisions are not available in the existing press circuitry.



Foot Control Switch

In hand fed operations or when precise automatic timing is not available, the Foot Control Switch can be used to manually operate the spray system.



15" Electrical Cord & Plug

Brings power to the terminal strip of the spray system. All additional wiring occurs from there.

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Spray Assembly Options Available



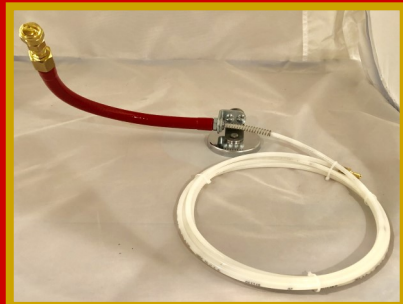
Basic Spray Assembly

The **Basic Spray Assembly** allows the user to design their own mount that meets their requirements. Each assembly includes the spray nozzle (specify the tip), female connector, 10' spray line tubing and a quick disconnect plug, male.



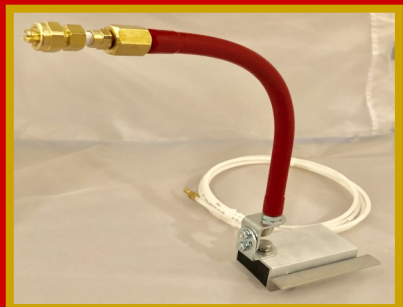
Magnetic Based Spray Assembly with a Disk Magnet

The **Magnetic Based Spray Assembly** mounts to a surface near the die for ease of set up. The red flexible arm attaches to the disk magnet vertically or horizontally (**shown attached vertically**) promoting quick and easy adjustment. Each assembly includes a spray nozzle (specify the tip), female connector, compression nozzle adapter, flexible arm (6", 12", 18" or 24"), anti-crimp spring, 10' spray line tubing, quick disconnect plug, male and disk magnet.



Magnetic Based Spray Assembly with a Disk Magnet

The **Magnetic Based Spray Assembly** mounts to a surface near the die for ease of set up. The red flexible arm attaches to the disk magnet vertically or horizontally (**shown attached horizontally**) promoting quick and easy adjustment. Each assembly includes a spray nozzle (specify the tip), female connector, compression nozzle adapter, flexible arm (6", 12", 18" or 24"), anti-crimp spring, 10' spray line tubing, quick disconnect plug, male and disk magnet.



Magnetic Based Spray Assembly with a Heavy-Duty Magnet

The **Magnetic Based Spray Assembly with Heavy-Duty Magnet** mounts to a surface near the die for ease of set up. The red flexible arm attaches to the disk magnet vertically or horizontally promoting quick and easy adjustment. Each assembly includes a spray nozzle (specify the tip), female connector, compression nozzle adapter, flexible arm (6", 12", 18" or 24"), anti-crimp spring, 10' spray line tubing, quick disconnect plug, male and heavy-duty magnet with release lever.

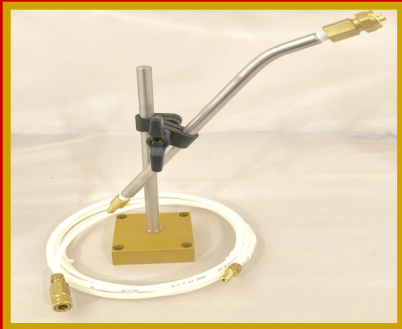
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Spray Assembly Options Available



Heavy Duty Magnetic Based Rod/Clamp Spray Assembly

The **Heavy Duty Rod/Clamp Spray Assembly with Heavy-Duty Magnet** was designed for quick and easy adjustment. Each assembly includes a female spray nozzle (specify the tip), oil tube with 1/8" NPT ends, quick disconnect plug with male 1/8" NPT end, swivel clamp assembly, quick disconnect coupling with tube compression, 10' spray line tubing, quick disconnect plug, male and heavy-duty magnet.



Fixed Base Rod/Clamp Spray Assembly

The **Fixed Base Rod/Clamp Spray Assembly** was designed for quick and easy adjustment. Each assembly includes a female spray nozzle (specify the tip), oil tube with 1/8" NPT ends, quick disconnect plug with male 1/8" NPT end, swivel clamp assembly, fixed base, quick disconnect coupling with tube compression, 10' spray line tubing and quick disconnect plug, male.



Magnetic Based Swivel Nozzle Bracket Spray Assembly

The **Magnetic Based Swivel Nozzle Bracket Spray Assembly** was designed for ease of set up and quick adjustment. Each assembly includes a swivel nozzle bracket assembly, spray nozzle (specify the tip), quick disconnect plug 1/8" NPT end, magnetic base, quick disconnect coupling with tube compression, 10' spray line tubing and quick disconnect plug, male.



Fixed Based Swivel Nozzle Bracket Spray Assembly

The **Fixed Based Swivel Nozzle Bracket Spray Assembly** mounts to a surface near or on the die and provides for ease of set up and quick up and left, right, up and down adjustments. Each assembly includes a swivel nozzle bracket, quick disconnect plug 1/8" NPT end, spray nozzle (specify the tip), quick disconnect coupling with tube compression, 10' spray line tubing and quick disconnect plug, male.



QuickChange™ Spray Assembly with a Magnetic Base

The **QuickChange™ Magnetic Based Spray Assembly** mounts to a surface near the die and provides for quick set up and adjustment. Each assembly includes a universal L shaped nozzle bracket, spray nozzle (specify the tip), 45° elbow, 1/8" NPT female quick disconnect plug, quick disconnect coupling with tube compression, 10' spray line tubing, quick disconnect plug, male and disk type magnet.

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Spray Assembly Options Available



QuickChange™ Spray Assembly with a Fixed Bracket Mount

The **QuickChange™ Fixed Based Spray Assembly** was designed to be mounted to the die or a surface near the die. Quick connect fittings promote ease of set up. Each assembly includes a universal L shaped nozzle bracket, spray nozzle (specify the tip), 45° elbow, 1/8" NPT female quick disconnect plug, quick disconnect coupling with tube compression, 10' spray line tubing and quick disconnect plug, male.



Quick Disconnect Coupling Spray Assembly

The **Quick Disconnect Coupling Spray Assembly** provides quick set up and tear down. It is typically used where one end attaches to a lubrication system's pump and the other to a specialty spray nozzle assembly or a manifold.

Each assembly includes a quick disconnect coupling with tube compression, 10' spray line tubing and a quick disconnect plug, male.



Quick Disconnect Plug Spray Assembly

The **Quick Disconnect Plug Spray Assembly** promotes quick set up and tear down. It is typically used where one end attaches to a lubrication system's pump and the other to a specialty spray nozzle assembly or a manifold.

Each assembly includes a quick disconnect plug, male at each end of 10' spray line tubing.



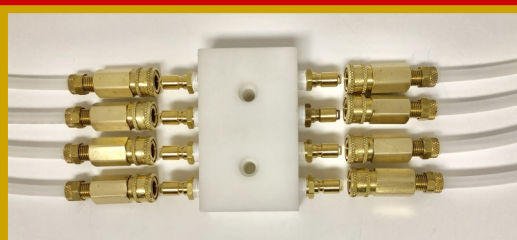
Splitter Block Assembly

The **Splitter Block Assembly** is designed to evenly divert the fluid into two areas.

Each assembly includes: (1) Delrin® splitter block, 1/8" NPT, (3) 1/8" NPT quick disconnect plug, male (3) quick disconnect coupling with tube compression, (3) 10' spray line tubing and (3) quick disconnect plug, male

Delrin® Manifold Blocks

The **Delrin® Manifold Blocks** are used provide a clean, neat set up of Spray Line Tubing. They can be mounted anywhere from the upright of the press, the bed of the press or on a die itself.



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Spray Tip Coverage

SPRAY TIP

PATTERN

110° Flat Fan	15" x 2" Used for Large Area Coverage
80° Flat Fan	11" x 2" Used for Medium to Large Area Coverage
50° Flat Fan	8" x 1-3/4" Used for Medium Area Coverage
25° Flat Fan	4" x 1" Used for Small Area Coverage
15° Flat Fan	2" x 1" Used for Minimal Area Coverage
TG2 Full Cone	5" Round Used for Larger Curved Areas and Large Lubricant Volume
TG1 Full Cone	4" Round Used for Medium Curved Areas and Medium Lubricant Volume
TG0.7 Full Cone	2" Round Used for Small to Medium Curved Areas and Low Lubricant Volume
TG0.5 Full Cone	1" Round Used for Small Curved Areas and Low Lubricant Volume
TG0.3 Full Cone	1/2" Round Used for Small Curved Areas and Minimal Lubricant Volume
.0003 Pinpoint	Stream, Medium Volume. Used for Isolated Areas
.0001 Pinpoint	Stream, Low Volume. Used for Small Isolated Areas

All spray pattern testing was performed with a soluble oil product, diluted with water, at a 4:1 ratio. Any increase in viscosity will alter the spray coverage. The air pressure was set at 80 P.S.I. during the testing. These coverage dimensions are based on the spray tips mounted at a 90° angle, 6 inches away from the material being sprayed. The above chart is to be used as a point of reference for gauging lubricant coverage. Coverages may vary.

Please Note: Due to their design, Full Cone Tips cannot be used when applying straight oil products.



*Manufacturer of TeK-Spray™, POLARAS™, and EconoMizer™
"Airless Spray" Lubrication Systems*

A Leader in "Airless Spray" Lubrication Technology

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LubriStrip™ Spray Cabinet Enclosures



For the application and recirculation of die lubricants

- Reduce lubricant waste and cost
- Improve housekeeping around the pressroom
- Available in various widths from 6" up to 72"
- Custom fabricated to fit virtually any application
- Rugged stainless steel construction

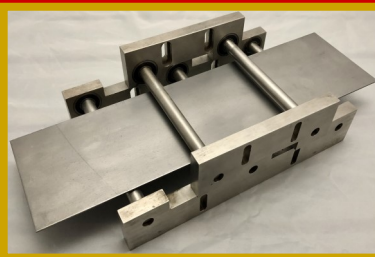


The **LubriStrip™ Spray Cabinet Enclosures** are designed to mount directly to a feed cabinet or in the press window. The user is assured of top and bottom application while minimizing lubricant waste.

Spray nozzles are located inside the enclosure, top and bottom for edge to edge coverage. Quick connect fittings are utilized for easy set up at the enclosure and at the pump.



The cover is hinged for easy access, and mounting tabs are located at the back and bottom of the enclosure. Wiper brushes at the entry and exit ends ensure that lubricant will be applied smoothly, while acting as a shield to keep fluids inside the system. Any excess fluids are recirculated back to the **TeK-Spray™, POLARAS™, or EconoMizer™ Lubrication System** for reuse.



Stock Roller Guides

Stock Roller Guides located within the LubriStrip Spray Cabinet Enclosure support the strip or coil on center line of the feeder while the metal passes through.



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