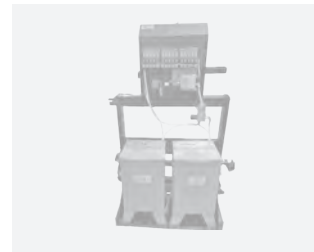


LUBRICATION SYSTEMS

Proven Performance.

Since 1980, Pax Products has been providing Pre-Die and In-Die lubrication systems that address the different problems inherent to different stamping applications. When properly applied, these Pax systems enable the stamper to reduce lube consumption, increase production speeds, and extend die life.



DESIGNED FOR STAMPERS BY STAMPERS

Choosing the Best System for Your Application

Methods of Lubrication

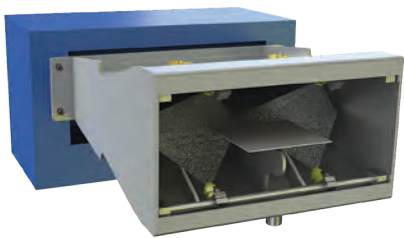
Lubricant can be applied to the material before it enters the die—typically using a roller coater or spray cabinet—or it can be sprayed directly into the die and onto the material, the tooling, or both. For many applications, the most effective approach is a combination of pre-die and in-die lubrication to ensure optimal coverage and performance.

Pre-Die Lubrication VIA SPRAY CABINETS OR ROLLER COATERS

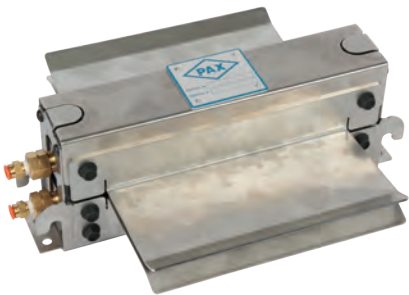
Advantages

- ◆ Lubricates both top and bottom of the stock
- ◆ Excess lubrication is contained and can be recycled providing a clean work area
- ◆ Preferred method for:
 - Dies with only a few stations
 - Dies that do not require significant lubrication in their last stations

Spray Cabinet vs. Roller Coater	
Spray Cabinet Advantages	Roller Coater Advantages
• No inherent wear items • Better choice for applications that use extremely thin material, non-flat material, flakey galvanized material, or dirty material	• Provides a more even coating • Compact design is easier to integrate • Better choice for applications that have a long feed progression or use thick lube



Spray Cabinets
(page 4)



Roller Coaters
(pages 5-7)

In-Die Lubrication VIA SPRAY NOZZLES

Advantages

- ◆ Integration into the die ensures the exact amount of lube is applied exactly where it's needed
- ◆ Removes heat from the tooling
- ◆ Preferred method for:
 - Long, progressive dies—especially those performing drawing or forming in the final stations
 - Applications where tool cooling allows for increased press speeds or improved part quality



Magnetic Based Spray Assemblies
Provides flexibility to locate the nozzles as required for each die.
(pages 16, 18 and 19)



In-die Bracket Mount
& Spray Assemblies
Consistently applies the exact amount of lube, exactly where required.
(pages 17-19)



Lubrication Supply Systems

Pax's Pre-Pressurized and V-Series style supply systems are available in different sizes and configurations, and they both provide exact amounts of lubrication for pre-die and in-die lubrication.

Advantages of All Pax Systems

- ◆ Can be used for pre-die (roller coaters, spray cabinets) and in-die (spray nozzles) applications
- ◆ Dual lubrication, tankless, and central system configurations available
- ◆ Systems are arranged to promote lubrication recycling
- ◆ Stainless steel reservoirs can be filled while system is in operation
- ◆ No priming issues
- ◆ Standard systems provide an “airless” spray—providing better material adhesion, reduced consumption, improved environmental and safety conditions, and longer die life

Pre-Pressurized Supply Systems

- ◆ Economical systems
- ◆ Sprays both thin and thick lubricant

(pages 8-11)



System with Reservoir

Tankless System

V-Series Supply Systems

- ◆ Independently programmable spray lines
- ◆ Sprays lubricants with viscosities up to 100 SUS

(pages 12-15)



Tankless System

Remote Manifold

System with Reservoir

Pre-Die Lubrication

Spray Cabinets

Pax spray cabinets are custom designed for each application to ensure precise and consistent lubricant coverage. Systems are typically built with adjustable, integrated spray nozzles positioned above and below the material passline for top and bottom lubrication.

Cabinets mounted to the press feed can be configured to fit between the feed and the press or designed to extend through the press uprights, depending on space and layout requirements. Free-standing cabinets are ideal for non-stamping applications or for operations where the feed passline does not change.

Features

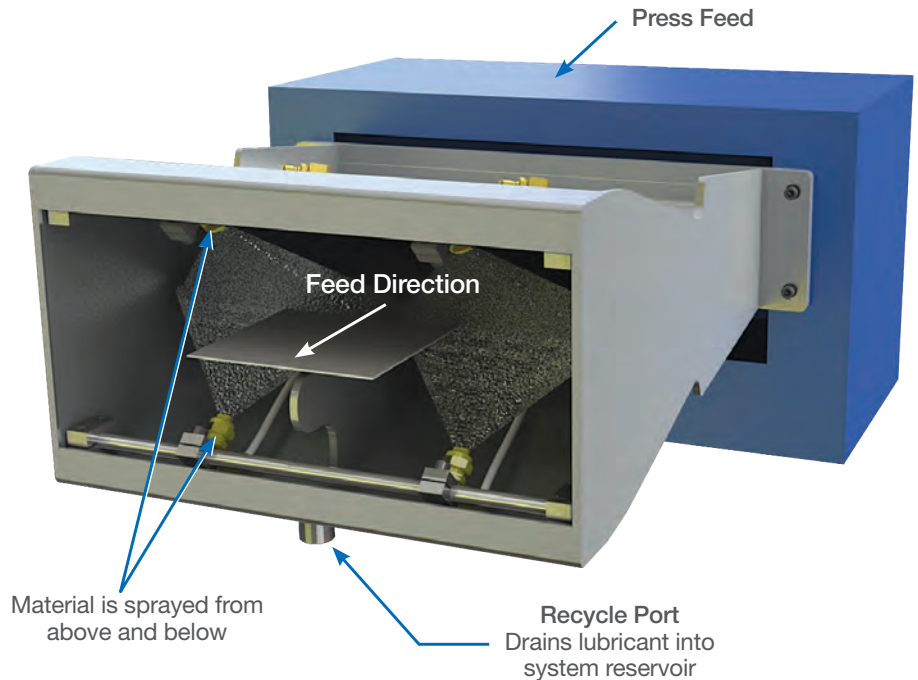
- ◆ Non-contact lubrication
- ◆ No consumable parts
- ◆ Contains, collects and recycles lubricant
- ◆ Can be mounted to feed

Popular Options

- ◆ Adjustable stock guide
- ◆ Upper and lower stock tables
- ◆ Brushes on exit ends to contain lube
- ◆ Customization as required
- ◆ Spray bars (without a spray cabinet)—adjustable and mountable above or below the material



Spray Bar Components



Cabinet Configurations



Cabinet Mounted to Feed



Cabinet with Adjustable Stock Guides



Free Standing Rectangular Cabinet

Roller Coaters

Pax Roller Coaters deliver reliable, precise lubrication and feature rugged construction with low-maintenance operation.

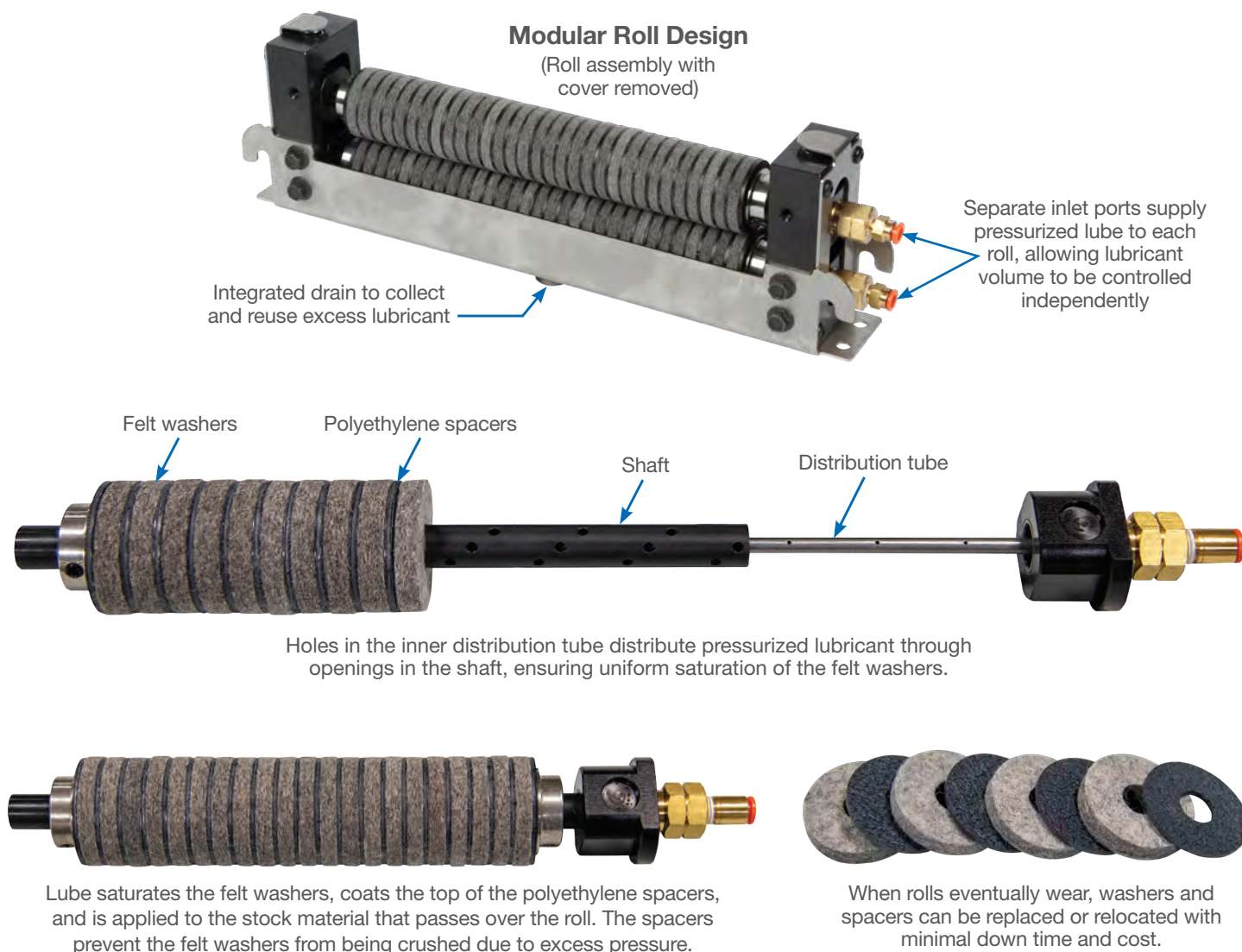
Innovative Modular Roll Design

The rolls are constructed with alternating polyethylene spacers and felt washers. This design prevents excessive washer compression—extending roll life and maintaining a consistent flow of lubrication—while also allowing the rolls to be easily rebuilt.

Each roll is supplied by a separate lubrication line, enabling different amounts of lubricant to be applied. A check valve in each roll maintains consistent pressure, and an integrated drain collects excess lubricant for return to the supply system, supporting efficient recycling and reduced waste.

Modular Roll Design Advantages

- ◆ **Increased Roll Life** – Polyethylene spacers limit compression on the material that applies the lubricant
- ◆ **Rebuildable Rolls** – Felt washers and polyethylene spacers can be quickly and easily replaced when needed
- ◆ **Uniform Lube Application** – Lubrication is fed through the center and evenly distributed across the length of each roller
- ◆ **Slim Design** – 1.5" diameter rolls enables the roller coater to fit into tight spaces between the feed and press
- ◆ **Separate Lubrication Lines** – Separate lines to each roll allow lubricant volume to be independently controlled
- ◆ **Check Valves** – Check valves in each roll ensure consistent pressure is maintained



Pre-Die Lubrication

Types of Roller Coaters

Spring Applied Roller Coaters

MODEL RC

This compact, cost-effective model features **Pax's modular roll design** (see page 5). Springs continuously apply pressure between the upper and lower rolls to ensure consistent lubricant transfer. A bottom-mounted drain collects excess lubricant for reuse. Three standard widths and multiple options are available.

Options

- ◆ **Stock Tables** – Bolt-on tables for the entry and/or exit side of the roller assist with threading material through the rolls. Tables extend approximately 3.75" from the assembly.
- ◆ **Quick Release Mounting Bracket** – Allows for fast removal and reinstallation. Once mounted, the roller coater slides into the bracket and is secured with snap-on clamps.

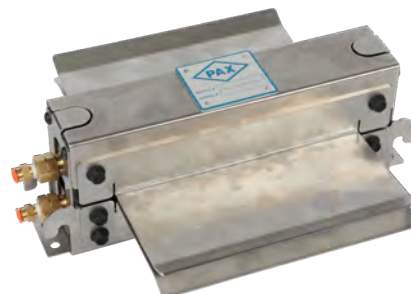
SPECIFICATIONS & DIMENSIONS

- ◆ **Maximum Material Thickness** – 0.25"
- ◆ **Maximum Material Speed** – 230 to 600 fpm, depending on material thickness and amount of material supported
- ◆ **Inlet Check Valves** – 5 psi for RC models ending in "V"; 60 psi for all other models

Spring Applied Roller Coater – Model RC			
Model	RC-06-150 & RC-06-150-V	RC-09-150 & RC-09-150-V	RC-12-150 & RC-12-150-V
Roll Width (A)	6"	9"	12"
Length without Fitting (B)	11.25"	14.25"	17.25"
Length Including Fitting (C)	11.6"	14.6"	17.6"
Mounting Hole Spacing (D)	10.45"	13.45"	16.45"
For Units with the Quick Release Bracket			
Length	13.2"	16.2"	19.2"
Mounting Hole Arrangement	(1) 0.4" Diameter Clearance Hole on each end		
Mounting Hole Spacing	12.2"	15.2"	18.2"



6" Roller



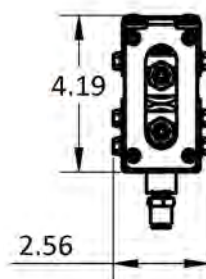
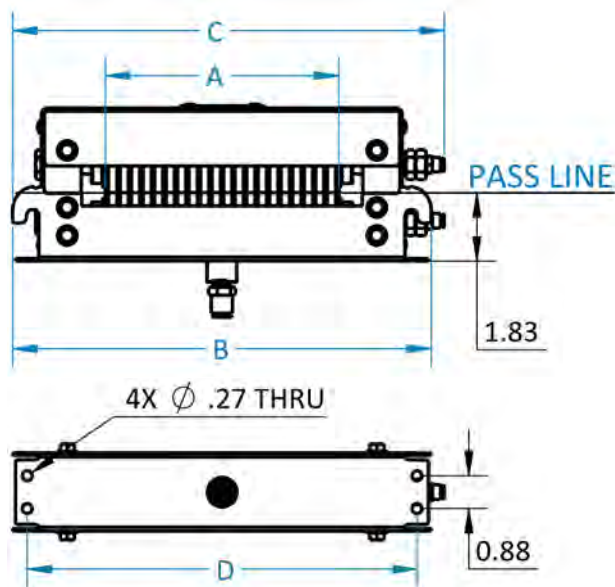
6" Roller with Entry
& Exit Stock Tables



Quick Release Bracket



6" Roller with
Quick Release Bracket



Multi-Roll Roller Coaters

MODEL RCMR

This slim model features **Pax's modular roll design** (see page 5) and uses multiple upper and lower rollers to uniformly apply lubrication to the top and bottom of the stock material. Lubricant volume to each roll can be independently controlled, and excess lubricant can be drained back to the supply reservoir.

Two air-driven cylinders are mounted to each upper roll assembly to ensure uniform pressure against the stock material. The cylinders also lift the upper rollers to allow material to be easily threaded through the roller coater.

For simplified maintenance, the RCMR features a clamshell design for easy access to the rollers. Each roller can be removed by loosening two bolts, and the felt washers and polyethylene spacers can be easily replaced.

SPECIFICATIONS & DIMENSIONS

- ◆ Maximum Roll Opening – 0.5", when the upper rolls are fully retracted
- ◆ Maximum Material Speed – 230 to 600 fpm, depending on material thickness and amount of material supported
- ◆ Inlet Check Valves – Either 5 psi or 60 psi



Roller Coater in Closed (running) Position
The valve raises the upper rolls to allow material to be easily threaded through the roller coater.
Manual and electrical valves are available.

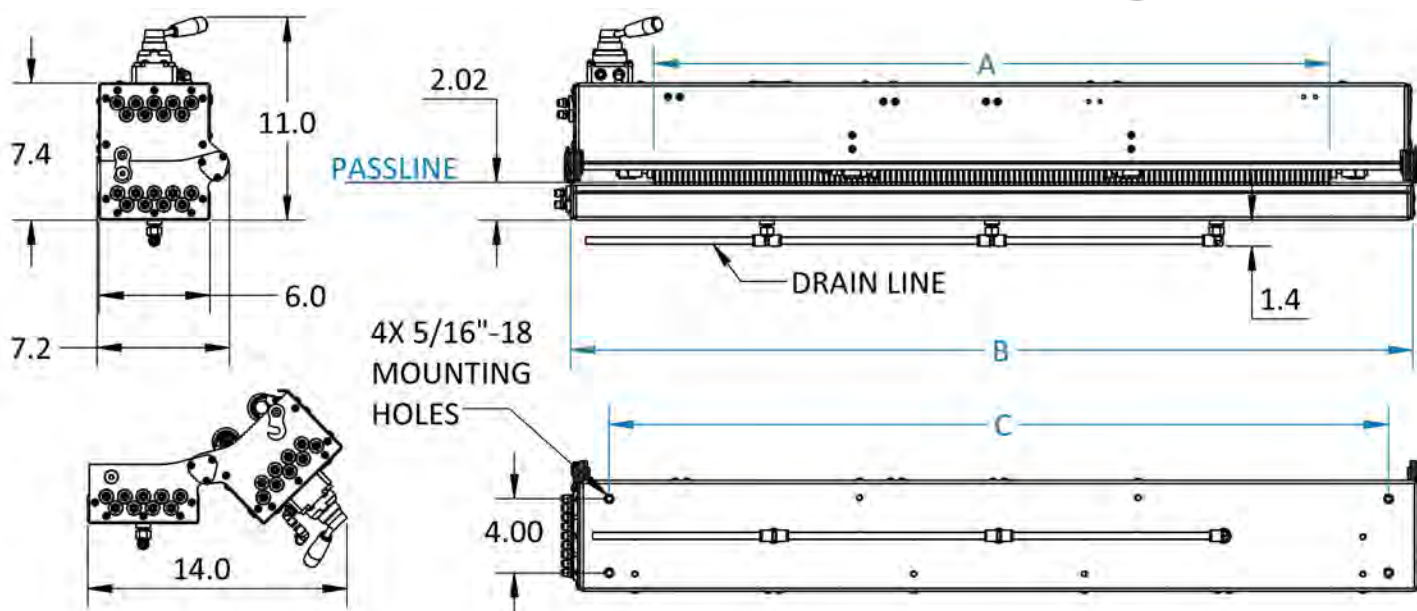


Roller Coater open for maintenance

Multi-Roll Roller Coater – Model RCMR							
Max. Material Width (A)	18"	24"	30"	36"	48"	60"	72"
Total Number Rollers	4	4	6	6	8	10	12
Cabinet Width w/o Fittings (B)	27.54"	33.54"	39.54"	45.54"	57.54"	69.54"	81.54"
Mounting Hole Spacing (C)	24.15"	30.15"	36.15"	42.15"	54.15"	66.15"	78.15"



Air Regulator provided with roller coater



Supply Systems – Pre-Pressurized

For rollers, spray cabinets, and in-die spray.
Capable of spraying both thin and thicker lubricants.



Model 2-2
(00-1101-31)



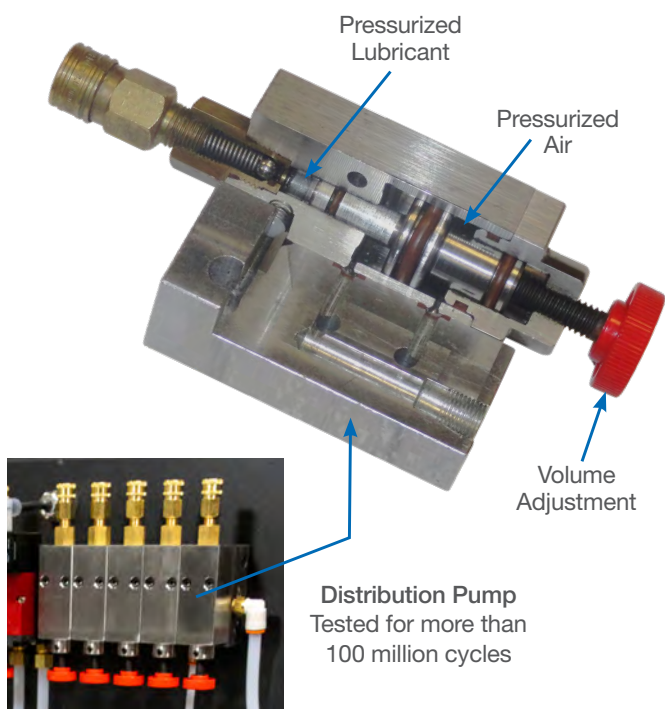
Model 5-6
(00-1024-31)



Model 30-10
(00-1028-31)

Pre-Pressurized Systems with Reservoirs

Pre-Pressurized Systems with Reservoirs								
Model		2-2	5-6	15-6	15-10	30-6	30-10	30-14
Part Number		00-1101-31	00-1024-31	00-1025-31	00-1026-31	00-1027-31	00-1028-31	00-1029-31
Number Distribution Pumps		1 to 2	1 to 6	1 to 6	1 to 10	1 to 6	1 to 10	1 to 14
Reservoir Capacity	gallons	2	5	15		30		
	liters	7.5	18.9	56.8		113.5		
Size (W x D x H)	Inches	14.5 x 11 x 14	17.5 x 14 x 28.5	21 x 17 x 42		25 x 22 x 42		
	cm	37 x 28 x 36	44.5 x 35.6 x 72.4	53 x 43 x 107		63.5 x 56 x 107		
Approximate Weight	lbs.	24	50	80		105		
	kg	11	23	36		48		
Max. Lubrication Capacity (Standard Volume)		.021 oz (0.62 ml) per cycle x number of pumps						
Max. Lubrication Capacity (High Volume)		.042 oz (1.24 ml) per cycle x number of pumps						
Max. Cyc/Min. (Full Capacity)		300 CPM (higher speeds are possible with reduced spray volume)						
Operation Pressure		30 to 125 psi (205 to 860 kilopascal)						
Max. Air Consumption		.002 cfm per cycle x number of pumps						
Voltage		Arranged for 24 VDC and 115 VAC / 60 HZ						



Airless Spray

Individual distribution pumps provide an exact amount of high-pressure, “airless” lubricant to each supply line. The piston in each distribution pump is air-driven, and the standard pumps drive the lubricant into the supply line with a force that is 10X more than the provided air pressure. This creates a high-velocity, “airless” spray that reduces airborne mist and better adheres to the tool and stock material compared to sprays that mix air with the lubricant.

Applies High Viscosity Fluids

The Pax system can operate from 40 psi (for light viscosity fluids) to 125 psi (for more viscous fluids). For higher viscosity fluids (above 300 SUS), a high pressure piston spray nozzle may be required (see page 18).

Simple, Independent Volume Adjustment

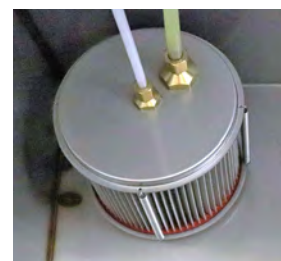
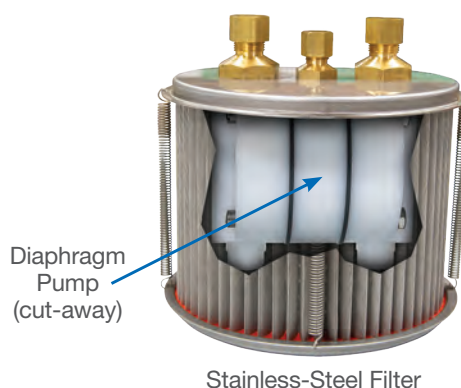
The volume of lubricant provided by each pump can be adjusted between .02 to .002 fluid ounces (0.621 to .068 cc). Higher volume pumps are also available.

No Priming Issues

A diaphragm pump located inside the stainless-steel filter provides pressurized lubricant to the distribution pumps. This configuration eliminates priming and maintenance issues associated with suction type systems.

Refill and Recycling

Reservoirs can be filled while the system is in operation.

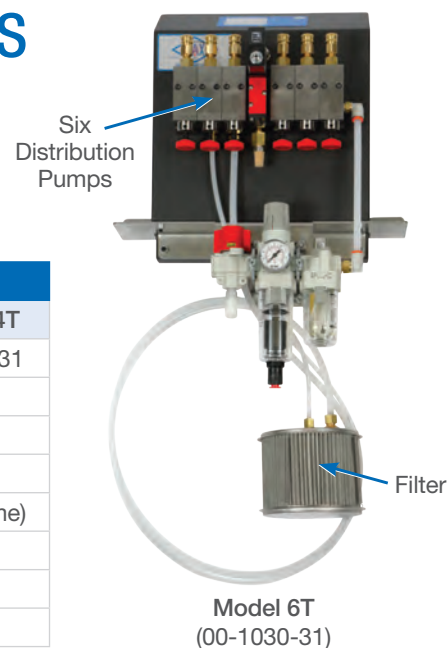


Pre-Pressurized Tankless Systems

Pre-pressurized tankless systems are typically used with:

- ◆ Dual lube systems
- ◆ Central lube systems
- ◆ Systems connected to 55-gallon drums of lubricant
- ◆ Systems connected to a customer's reservoir or tote

Pre-Pressurized Tankless Systems				
Model	Model 2T	Model 6T	Model 10T	Model 14T
Part Number	00-1102-30	00-1030-31	00-1031-31	00-1032-31
Number Distribution Pumps	1-2	1-6	1-10	1-14
Max. Capacity (Std. Vol)	.021 oz (0.62 ml) per cycle x number of pumps			
Max. Capacity (High Vol)	.042 oz (1.24 ml) per cycle x number of pumps			
Max. Cyc/Min. (Full Capacity)	300 CPM (higher speeds possible with reduced spray volume)			
Operation Pressure	30 to 125 psi (205 to 860 kilopascal)			
Max. Air Consumption	.002 cfm per cycle x number of pumps			
Voltage	Arranged for 24 VDC and 115 VAC / 60 HZ			



Supply Systems – Pre-Pressurized

Pre-Pressurized Dual Solenoid Systems

These systems are each equipped with two separate sets of distribution pumps that are mounted on separate manifolds with separate solenoid valves. This arrangement enables each set of pumps to be independently cycled, which allows different areas to be lubricated at different times.

Pre-Pressurized Dual Solenoid Systems		
Model	Model 6-6T	Model 30-6-6
Part Number	00-1036-31	00-1034-30
Number Distribution Pumps	1-12	1-12
Number of Manifolds & Solenoids	2	2
Reservoir Size	Tankless System	30 gallon (113.5 liter)
Max. Spray Capacity (Std. Vol)	.021 oz (0.62 ml) per cycle per pump	
Max. Spray Capacity (High Vol)	.042 oz (1.24 ml) per cycle per pump	
Max. Cycles/Min.	300 cycles per minute	
Operation Pressure	30 to 125 psi (205 to 860 kilopascal)	
Max. Air Consumption	.002 cfm per cycle x number of pumps	
Voltage	Arranged for 24 VDC and 115 VAC / 60 HZ	

Pre-Pressurized System Control

The system control includes a manual cycle button, a low-level indicator light, and four different operation modes. Only one mode of operation can be utilized at a time.

OPERATION MODES & FUNCTIONS

- ◆ **Simple Mode** – System cycles once each time it receives a “dry contact” from a limit switch, or other source.
- ◆ **Counter Mode** – System cycles once for every pre-set number of dry contact inputs.
- ◆ **Timer Mode** – When the dry contact is closed, the system will continuously cycle at the pre-set frequency (frequency is equal to the number of cycles per second).
- ◆ **Multi-Spray Mode** – When the dry contact is closed, the system will cycle a pre-set number of times at the pre-set frequency.



Simple Mode



Counter Mode



Timer Mode



Multi-Spray Mode

Pre-Pressurized System Options

Options for All Systems

- ◆ Distribution Pumps with Ball Valves in Place of Quick Connect Fittings (see below)
- ◆ High Volume Distribution Pumps
- ◆ Magnetic Base Limit Switch and Cord (see page 14)
- ◆ Stainless Steel Manifolds for fluids with a pH values above 8.5
- ◆ Arrangement for use with a central system
- ◆ Broken and Blocked Line Pressure Monitoring Sensors (see below)
- ◆ Magnetic Based Spray Shield (see page 14)
- ◆ Spray Cabinets, Roller Coaters, and Spray Assemblies

Additional Options for Systems with Reservoirs

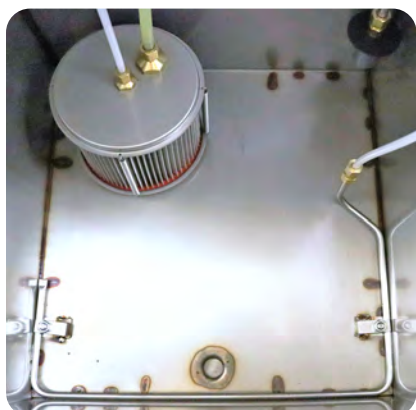
- ◆ Reservoir Strainer (see page 14)
- ◆ Air Agitation for Water Soluble Lubricants
- ◆ Low-Level Float
- ◆ Automatic Refill – Includes Float Switches & Refill Solenoid Valve

Additional Options for Tankless Systems

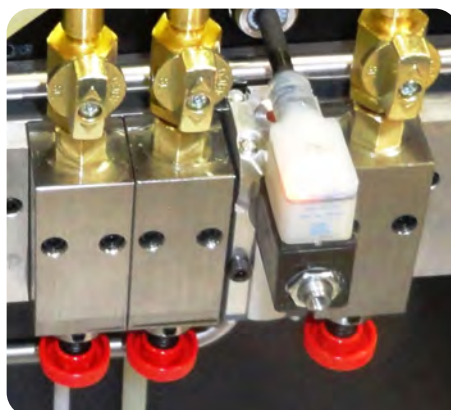
- ◆ Single Diaphragm Supply Pump & Filter (6T, 6-6T)
- ◆ Double Diaphragm Supply Pump & Filter (10T, 14T)
- ◆ Low-Level Float for Supply Pump & Filter (6T, 10T, 14T, 6-6T)
- ◆ Barrel Mount Supply Pump, Mini Filter, & Low-Level Float
- ◆ Stands for Dual Lube Arrangement
- ◆ Supply Pumps for Customer's Reservoir or Tote
- ◆ Remotely Located Supply Reservoirs



Barrel Mount Supply Pump
and a Low-Level Float
(00-1044-30)



Reservoir with a Low-Level Float,
Air Agitation, and a Single
Diaphragm Supply Pump



Distribution Pumps with Ball Valves
instead of Quick Connect Fittings –
enables system to spray thicker lubricant



Distribution Pumps Equipped with
Broken and Blocked Line Sensors
and Quick Connect Fittings

Supply Systems – V-Series

For rollers, spray cabinets, and in-die spray.
Independent, programmable outputs.

No Priming Issues

A large diaphragm pump supplies filtered fluid to individual spray lines at pressures up to 100 psi.

Airless Spray

Because air is not mixed with the lubricant, less airborne mist is created and the “airless” spray better adheres to the material.

Fluid Viscosity

When used with a roller coater, system air pressure may need to be increased (up to 100 psi maximum) when applying higher-viscosity lubricants.

When used for spray lubrication, lubricants with viscosities above 100 SUS should be tested by Pax to ensure the desired spray pattern can be achieved.



Model V10-15
(00-3201-30)

Programmability

Each solenoid valve can be independently controlled and programmed to deliver lubricant at different intervals and durations (minimum 20 milliseconds) during a press cycle. Pax's optional control system or an existing control system may be used to operate the system.

Refill and Recycling

Reservoirs can be filled while the system is in operation, minimizing downtime.

Reduced Maintenance

The system requires no airline lubrication, contains no dynamic seals, and uses no accumulators reducing routine maintenance requirements.

V-Series Systems with Reservoirs

V-Series Systems with Reservoirs							
Model		V5-5	V5-15	V5-30	V10-15	V10-30	V15-30
Part Numbers		00-3233-30	00-3200-30	00-3202-30	00-3201-30	00-3203-30	00-3204-30
Number of Solenoids (number of lube output lines the system can control)		0 to 5			0 to 10		0 to 15
		Systems can be configured to connect to one or more V5M remote manifolds, which can be located close to work areas. This setup increases the number of lines the system can control and allows for shorter spray line lengths.					
Reservoir Capacity	gallons	5	15	30	15	30	30
	liters	19	57	113	57	113	113
Size (width x depth x height)		13.8" x 15.2" x 36.1"	16.3" x 16.3" x 47"	22.2" x 22.2" x 47"	16.3" x 16.3" x 47"	22.2" x 22.2" x 47"	22.2" x 22.2" x 47"
Operation Air Pressure		30 to 100 psi (205 to 690 kilopascal)					
Voltage		Arranged for either 24 VDC or 115 VAC / 60 HZ					

V5M Remote Manifolds

These programmable remote manifolds are typically used to:

- ◆ Support central lube systems using a Pax-supplied or customer-supplied controller
- ◆ Expand the number of spray lines controlled by a V-Series system
- ◆ Reduce spray line lengths, (e.g., Installing a V5M on each press upright and connecting them to a V-Series system located by the operator)

V-Series Tankless Systems

Tankless systems are typically used for:

- ◆ Dual lube systems
- ◆ Central lube systems
- ◆ Connecting to 55-gallon lubricant drums
- ◆ Connecting to a customer's reservoir or tote

Note: System configuration will vary depending on the application. Refer to the following pages for standard tankless system options.



V5M
Remote Manifold
(00-3219-30)

V-Series Tankless Systems

V-Series Tankless Systems			
Model	V5T	V10T	V15T
Part Numbers	00-3205-30	00-3206-30	00-3207-30
Number of Solenoids (number of lube lines that can be connected directly to the system)	0 to 5	0 to 10	0 to 15
	Systems can be configured to connect to and control one or more V5M remote manifolds, which can each be located close to work areas. This setup allows for a greater number of spray lines and shorter spray line lengths.		
Size (width x height)	17" x 22.25"	17" x 22.25"	23" x 22.25"
Operation Air Pressure	30 to 100 psi (205 to 690 kilopascal)		
Voltage	Arranged for either 24 VDC or 115 VAC / 60 HZ		



V5-5 (00-3233-30)
connected to a
V5M (00-3219-30)



V15T (00-3207-30)
Dual Lube System



V10T (00-3206-30)
with Control & Pump

Supply Systems – V-Series

V-Series System Options

Options for All Systems

- ◆ V-Series System Control (see page 15)
- ◆ Integration of V5M remote manifolds
- ◆ High Volume Supply Pump for applications with more than 20 nozzles or with long spray durations
- ◆ Arrangement for use with a central system
- ◆ Broken and Blocked Line Pressure Monitoring Sensors (see page 11)
- ◆ Magnetic Base Limit Switch and Cord
- ◆ Magnetic Based Spray Shield
- ◆ Spray Cabinets, Roller Coaters, and Spray Assemblies

Options for Systems with Reservoirs

- ◆ Low-Level Float (see page 11)
- ◆ Reservoir Strainer
- ◆ Air Agitation for Water Soluble Lubricants (see page 11)
- ◆ Automatic Refill (Includes Float Switches & Refill Solenoid Valve)

Options for Tankless Systems

- ◆ Tankless Filter Assembly
- ◆ Tankless Filter & Low-Level Float Assembly
- ◆ Barrel Mount Adapter, Filter & Low-Level Float Assembly
- ◆ Stands for Dual Lube Arrangement
- ◆ System provided without diaphragm pump for central Lube system
- ◆ Supply Pumps for Customer's Reservoir or Tote
- ◆ Remotely Located Supply Reservoirs

Options for V5M Remote Manifolds

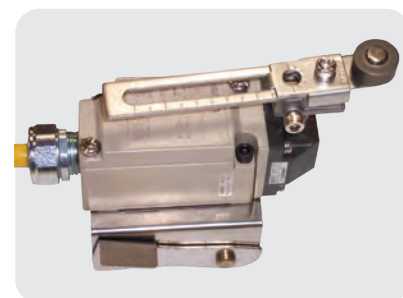
- ◆ 7-Pin Min-Series Connector
- ◆ Stand alone control



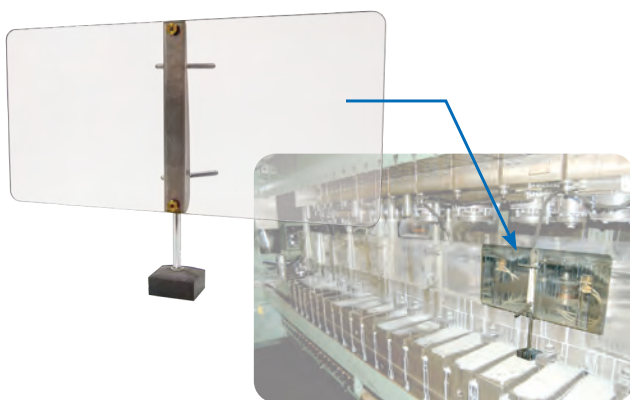
Reservoir Strainer



Tankless Filter Assembly
(00-3211-30)

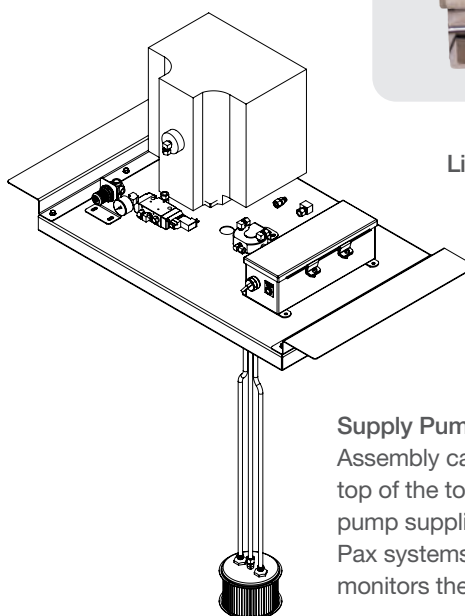


Magnetic Base
Limit Switch with Cord
(09-2054-32)



Magnetic Base Spray Shield (00-2168-10)

The spray shield is used to block lubricant that splashes out of the die and divert that lubricant to the press bolster, where it can be easily collected. The magnetic base holds the shield firmly in place and a built-in scale provides an easy reference for setting shield height.



Supply Pump for Large Totes
Assembly can be lifted on/off the top of the tote with a fork truck. The pump supplies fluid to one or more Pax systems while a low-level float monitors the fluid level of the tote.

V-Series System Control

The V-Series control features a touchscreen interface that allows the operator to individually control each output line. This includes setting if, when, and how long each line cycles after an input signal is received.

An embedded counter function allows the operator to determine if a line will cycle each time an input is received or only after a pre-determine number of inputs. Individual settings for hundreds of different jobs can be saved and stored under an alpha numeric name input by the operator.

The control also includes a manual mode, allowing the operator to cycle the current job or spray all lines simultaneously to purge the system.

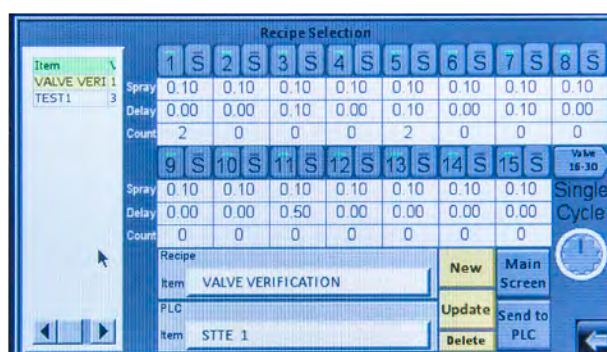
OPERATION MODES & FUNCTIONS

- ◆ **Main Screen** – The three main buttons on this screen (Automatic Mode, Purge Valves, and Single Cycle) control the active mode of the system. Automatic mode will activate the last recipe saved to the PLC and will cycle to the recipe's specifications once per signal. Purge Valves will open all active solenoids and run the diaphragm pump until taken out of Purge mode. This allows the system to drive air from the spray lines or flush lubricant. Single Cycle will activate the last recipe saved to the PLC for one cycle.
- ◆ **Recipe Selection** – This allows the operator to tune each spray line by adjusting the spray time, the delay from when the dry contact is closed, and the number of cycles needed to activate a single spray from each line. When the unit is configured, the recipe can be named and saved.
- ◆ **Sensor Screen** – This is a diagnostic tool that provides information on when each solenoid is being powered.
- ◆ **Unit Configuration** – This allows the operator to select which spray valves and sensors are active. Valves and sensors not activated on this screen will not be active on the Pax Lube System and will not respond to the recipe settings.

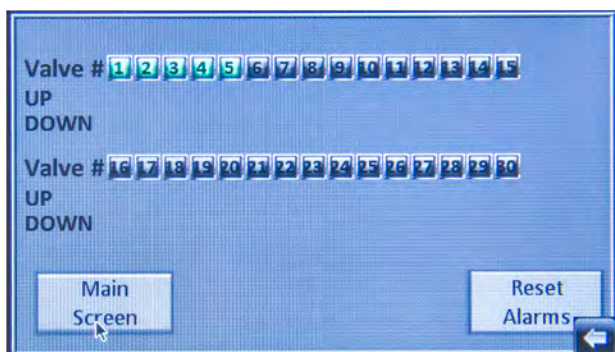
Note: The control interface is in English.



Main Screen



Recipe Selection



Sensor Screen



Unit Configuration

In-Die Lubrication

Spray Line & Nozzle Assemblies

Spray Line Overview

Soft plastic spray lines offer high flexibility, while more rigid lines expand less under pressure and produce a more consistent spray pattern, particularly when applying thicker lubricants.

Pax offers three spray line options:

- ◆ **Soft Tubing (Polyethylene)** – Highly flexible; used with Pax pre-pressurized unit for lower-viscosity lubricants; this tubing is not to be used with V-Series systems (01-1116-20)
- ◆ **Semi-Rigid Tubing (Nylon)** – More rigid; compatible with all Pax spray systems (01-1116-21)
- ◆ **Steel Tubing** – Most rigid; provides the best spray pattern for thick lubricants (01-1135-40)

Magnetic Base Spray Assembly

Magnetic base spray assemblies provide flexible positioning for each die setup while remaining securely in place. Each assembly includes a 250 lb. pull magnet with steel post, clamp assembly, stainless steel tube, and female nozzle assembly with choice of spray tip, quick-connect male plug, and 8 ft. of ¼" tubing.



Magnetic Base
Spray Assembly with
V-Series Nozzle



Magnetic Base
Spray Assembly with
Piston Nozzle



Flextube Magnetic
Base Spray Assembly
with V-Series Nozzle



Spray Line Assembly

Magnetic Base Spray Assembly with Steel Tube – Part Numbers				
Magnetic Base Spray Assembly	Pre-Pressurized Units			V-Series & Original Pax Systems
	H.P. Nozzle	Piston	H.P. Piston	
With Soft Tubing (Polyethylene)	06-3013-31	06-3103-31	N /A	N /A
With Semi-Rigid Tubing (Nylon)	06-3014-31	06-3104-31	06-3146-30	06-3012-31
With 1/8" Hard Tubing (Nylon)	06-3023-31	Contact Pax	N /A	Contact Pax

Flextube Magnetic Base Spray Assembly

Flextube assemblies provide maximum flexibility for positioning the spray nozzle. However, they can be more easily moved out of position than either the magnetic base assembly or the bracket mount assembly. Each assembly includes a 250 lb. pull magnet with bracket and release lever, flextube segments, 8 ft. of ¼" tubing, tubing nozzle assembly, and male plug.

Flextube Spray Assembly – Part Numbers				
Flextube Spray Assembly	Pre-Pressurized Units			V-Series & Original Pax Systems
	H.P. Nozzle	Piston Nozzle	H.P. Piston	
With Soft Tubing (Polyethylene)	06-3017-30	06-3147-30	N /A	N /A
With Semi-Rigid Tubing (Nylon)	06-3018-30	06-3148-30	06-3149-30	06-3016-30

Spray Line Assembly

With this assembly, the customer determines how the nozzle will be mounted or positioned for their application. The 8 ft., ¼" spray line includes a quick-connect male plug on one end (for connection to the Pax system) and a spray nozzle on the other end. The spray nozzle assembly includes a nozzle body, check valve, tip retainer, and choice of spray tip.

Spray Line Assembly – Part Numbers				
Spray Line Assembly	Pre-Pressurized Units			V-Series & Original Pax Systems
	H.P. Nozzle	Piston Nozzle	H.P. Piston	
With Soft Tubing (Polyethylene)	06-3009-30	06-3102-30	N /A	N /A
With Hard Tubing (Nylon)	06-3010-30	06-3101-30	Contact Pax	06-3008-30

Bracket Mount Spray Assemblies

Pax bracket mount spray assemblies provide a secure, permanent mounting solution, ensuring lubricant is applied precisely where required. The spray angle can be adjusted by simply rotating the nozzle and/or bracket, and vertical height can be adjusted by sliding the nozzle within the bracket slot. Once positioned, the assembly is locked in place by tightening the bracket bolts.

Standard Bracket Mount Spray Assembly

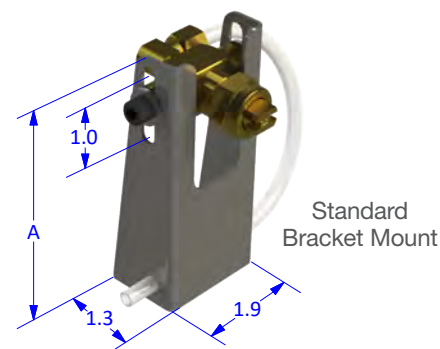
Includes stainless steel bracket, spray nozzle, choice of spray tip, tip retainer, check valve, 1/8" male elbow, mounting screw, and stainless steel washer.

Note: Requires 1/4"-20 tapped hole for mounting.



Bracket Mount Spray Assembly

Standard Bracket Mount Spray Assembly – Part Numbers					
Bracket Size	A	Pre-Pressurized Units			V-Series & Original Pax Systems
		H.P. Nozzle	Piston Nozzle	H.P. Piston	
1" - 2"	2.45"	06-3031-30	06-3134-30	06-3151-30	06-3109-30
2" - 3"	3.45"	06-3032-30	06-3135-30	06-3152-30	06-3110-30
3" - 4"	4.45"	06-3033-30	06-3136-30	06-3153-30	06-3111-30
4" - 5"	5.45"	06-3034-30	06-3137-30	06-3154-30	06-3112-30
5" - 6"	6.45"	06-3035-30	06-3138-30	06-3155-30	06-3113-30
6" - 7"	7.45"	06-3036-30	06-3139-30	06-3156-30	06-3114-30
7" - 8"	8.45"	06-3037-30	06-3140-30	06-3157-30	06-3115-30
8" - 9"	9.45"	06-3038-30	06-3141-30	06-3158-30	06-3116-30
9" - 10"	10.45"	06-3039-30	06-3142-30	06-3159-30	06-3117-30

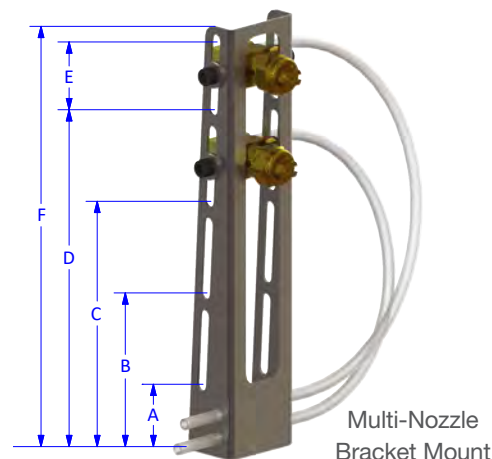


Standard Bracket Mount

Multi-Nozzle Bracket Mount Spray Assembly

Includes stainless steel bracket, mounting screw, stainless steel washer, and two of each: spray nozzle, choice of spray tip, tip retainer, check valve, and 1/8" male elbow.

Note: Requires 1/4"-20 tapped hole for mounting.



Multi-Nozzle Bracket Mount

Multi-Nozzle Bracket Mount Spray Assembly – Part Numbers										
Bracket Size	Bracket Dimensions						Pre-Pressurized Units			V-Series & Original Pax Systems
	A	B	C	D	E	F	H.P. Nozzle	Piston Nozzle	H.P. Piston	
5"	1.5"	3.5"	N/A	N/A	1.5"	5.3"	06-3120-30	06-3166-30	06-3160-30	06-3126-30
6"	1.6"	3.2"	4.9"	N/A	1.1"	6.3"	06-3121-30	06-3167-30	06-3161-30	06-3127-30
7"	1.5"	3.5"	5.5"	N/A	1.5"	7.3"	06-3122-30	06-3168-30	06-3162-30	06-3128-30
8"	1.7"	4.0"	6.2"	N/A	1.8"	8.3"	06-3123-30	06-3169-30	06-3163-30	06-3129-30
9"	1.5"	3.5"	5.5"	7.5"	1.5"	9.3"	06-3124-30	06-3170-30	06-3164-30	06-3130-30
10"	1.5"	3.7"	6.0"	8.2"	1.8"	10.3"	06-3125-30	06-3171-30	06-3165-30	06-3131-30

Spray Nozzles, Tips & Fittings

Spray Nozzles

All Pax spray nozzle assemblies include a check valve and a spray tip (all spray tips are interchangeable). Different nozzle types are available for the different Pax supply systems and applications. Nozzles can be purchased separately (see chart below), or as part of a spray assembly (pages 16-17).

For Pre-Pressurized Systems

- ◆ **High-Pressure Nozzle Assembly** – Features a 60 psi check valve and is designed to spray most lubricants with viscosities up to 300 SUS at room temperature.
- ◆ **Piston Nozzle Assembly** – Sprays a wider range of lubricants than the high-pressure nozzle, produces a finer spray pattern, and significantly reduces or eliminates dripping associated with thin lubricants.
- ◆ **High-Pressure Piston Nozzle Assembly** – Specifically designed for thicker lubricants, it is capable of spraying most lubricants with viscosities up to 900 SUS at room temperature, and in some cases lubricants exceeding 4,000 SUS when the Pre-Pressurized unit is properly configured. This nozzle operates at a higher pressure (approximately 300 psi) and, for some lubricants, the minimum spray volume increases to 0.01 oz.



High Pressure Nozzle Assembly
for Pre-Pressurized Systems



Piston Nozzle Assembly
for Pre-Pressurized Systems



Nozzle Assembly
for V-Series Systems

For V-Series Systems

- ◆ **V-Series Nozzle Assembly** – Includes a 5 psi strainer-type check valve and is used with Pax V-Series systems as well as earlier Pax systems that began being phased out in 1994.

Spray Nozzle Assembly – Part Numbers

	Pre-Pressurized	V-Series
1/8" NPT FEMALE Threads	06-3004-30	06-3001-30
1/8" NPT MALE Threads	06-3005-30	06-3002-30
Compression nut & sleeve for 1/4" tubing	06-3006-30	06-3003-30
Piston Nozzle w/ compression nut & sleeve for 1/4" tubing	06-3100-30	N/A
High Pressure Piston Nozzle for 1/4" tubing	06-3144-30	N/A

PRE-PRESSURIZED NOZZLES



06-3004-30 High
Pressure Nozzle



06-3005-30 High
Pressure Nozzle



06-3006-30 High
Pressure Nozzle



06-3100-30
Piston Nozzle



06-1970-10
High Pressure
Bracket Mount



06-3133-30
Piston Nozzle
Bracket Mount



06-3145-30
High Pressure Piston
Bracket Mount



06-3144-30
High Pressure
Piston

V-SERIES NOZZLES



06-3001-30
V-Series Nozzle



06-3002-30
V-Series Nozzle



06-3003-30
V-Series Nozzle



06-1981-10
V-Series
Bracket Mount

Spray Tips & Fittings

Spray Tips

SPRAY PATTERN SIZE*

The spray pattern sizes shown in the chart were obtained using a low-viscosity lubricant (Tellus #10). During testing, the spray tip was held 6 inches from the surface with the FRL air pressure set to 35 psi.

Actual spray patterns may vary depending on:

- ◆ Lubricant viscosity
- ◆ Air pressure setting
- ◆ Distance from the spray tip to the material

Contact Pax for additional information.

EFFECT OF SPRAY TIP ORIFICE SIZE

The flat spray tips shown in the chart have a 0.032" orifice. Tips with larger or smaller orifices are available.

Pre-Pressurized Systems

- ◆ Smaller orifice – finer spray pattern (especially with thicker lubricants)
- ◆ Larger orifice – smaller spray pattern

V-Series Systems

- ◆ Smaller orifice – reduces spray volume
- ◆ Larger orifice – increases spray volume and decreases spray pattern



Spray Tips – Part Numbers			
Style	Type	*Pattern Size	Part No.
Flat	25°	*1.50" x 3.50"	06-0973-20
Flat	50°	*2.00" x 5.75"	06-0951-20
Flat	65°	*2.00" x 7.50"	06-1908-20
Flat	80°	*2.00" x 9.50"	06-0950-20
Flat	95°	*2.25" x 12.00"	06-1909-20
Flat	110°	*2.50" x 14.00"	06-0952-20
Deflected	.041" orifice	*4.00" x 18.00"	06-0956-20
Cone	.020" orifice	*3.50" diameter	06-0958-20
Cone	.024" orifice	*4.25" diameter	06-0953-20
Cone	.030" orifice	*5.50" diameter	06-0959-20

Contact Pax for information on additional tips.

Popular Fittings & Parts

MNPT = Male Pipe Thread FNPT = Female Pipe Thread QC = Quick Connect



Note: Other fittings are available upon request.

Ancillary Pressroom Products

DESIGNED FOR STAMPERS BY STAMPERS

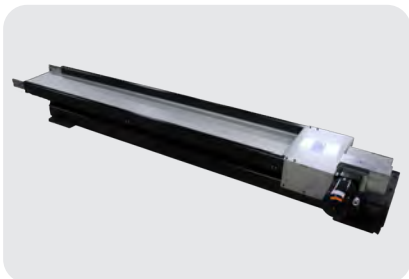
Electric Shaker Conveyors



Press Mounted Conveyors



Press Mounted Conveyors



Floor or Below Floor Conveyors

Press Doors



Vertically Sliding Doors



Swing-Out Acoustical Doors

Belt Conveyors



Low Profile Conveyors



Cantilevered Conveyors and
Conveyors with Powered Tilt and
Horizontal and Vertical Adjustment



Powered High Speed Diverters



PAX PRODUCTS, INC

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