

***PRO/MARK INDUSTRIALS***

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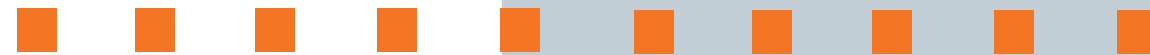
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# MaxaMizer



Computer Controlled Spray Lubricating System

# MaxaMizer

The Maxamizer is a computer controlled, low pressure airless spray system that dispenses lubricant from as many as twelve nozzles. A LSP computer controls the spraying of the lubricant and can be located remote from the dispensing manifold, and the nozzles can be located up to 8' away from the dispensing manifold. Ideal for large dies, transfer dies, roll formers and other types of metalforming equipment.



The MaxaMizer shown on a die in a straightside press. Many dies will go into the press, and most of the dies are different and require differing amounts of lubricant.

## Precision Lubricating System that Increases Production, Improves Quality of Parts while Reducing Lubricant Consumption!

### Airless Spray System

Eliminates mist fogging in the work area

### Low Pressure System

Eliminates lubricant bouncing off of the part into surrounding area.

### Remote Manifolds

Clean installation, minimizes tubing for easy clean installation, leaving the work area open for easy die adjustments and operator viewing.

### Use on Big or Small Jobs

Systems for 4 to 12 Nozzles.

**Selective Lubrication** Each nozzle is individually programmed as to which cycle it dispenses on, when it dispenses during the cycle and for how long it dispenses.

### Job Memory

Memorizes jobs for fast setups.

### In-Die Nozzles

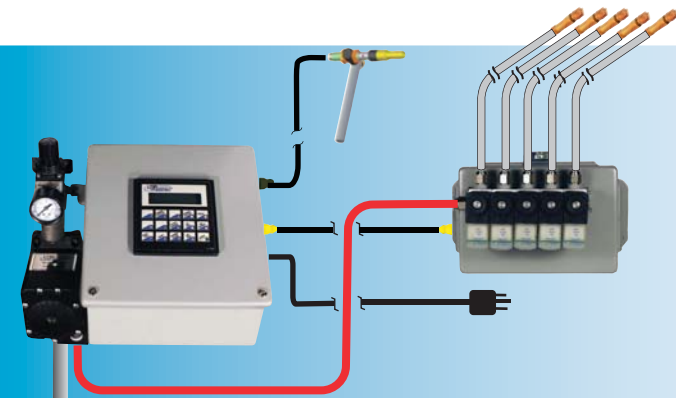
Reduces setup time, nozzles are always properly positioned to the stock and die.

The MaxaMizer allows the setup person to setup the lubricating of each die in a manner of minutes. The spray nozzles can be positioned with strong magnets and lined on both sides of the die. The nozzles are aimed at each area that has to be lubricated.

MaxaMizer controller allows the operator to quickly shut off nozzles that are not being used. The operator then has the ability to individually program each of the operating nozzles as to when they will spray and how much lubricant each nozzle will dispense during the cycle of the press. When the dies are changed, inactive nozzles may be repositioned and activated, and active nozzles can be deactivated until needed.

# The MaxaMizer is the Right Choice for All Size Jobs

It is versatile, fast to setup and easy to program. When an application changes, the MaxaMizer can easily be reasigned to another job by just reprogramming the system to fit the new parameters.



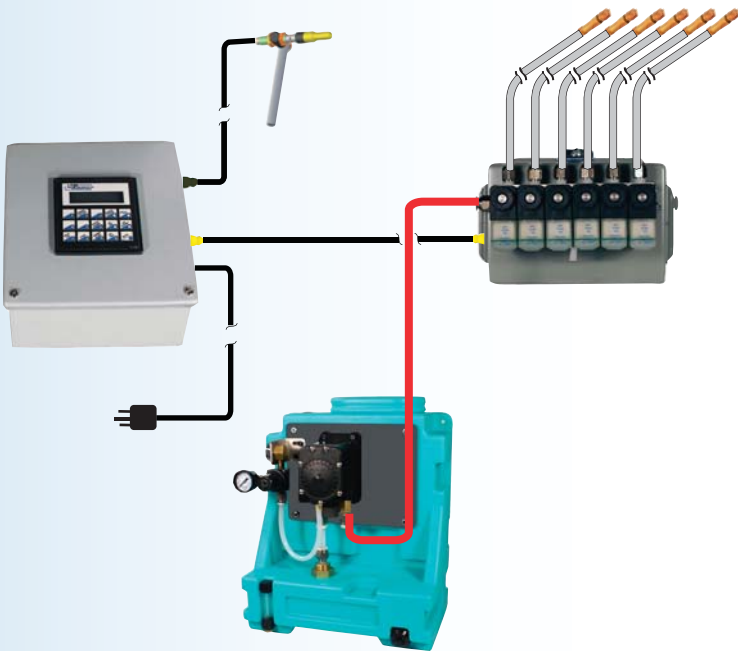
### MX-1005

A Module system with 6 Nozzles from a single manifold. The Reservoir is located under the Module and the lubricant is moved to the Nozzles by the TransferPump. *Nozzles, Reservoir and Tubing are ordered Separately.*



### MX-1006

A system that allows locating the reservoir and TransferPump close to the Manifolds if desired. This reduces the amount of tubing needed to connect the Manifold to the TransferPump for a clean installation. *The MX-1315 Reservoir and TransferPump are ordered separately.*



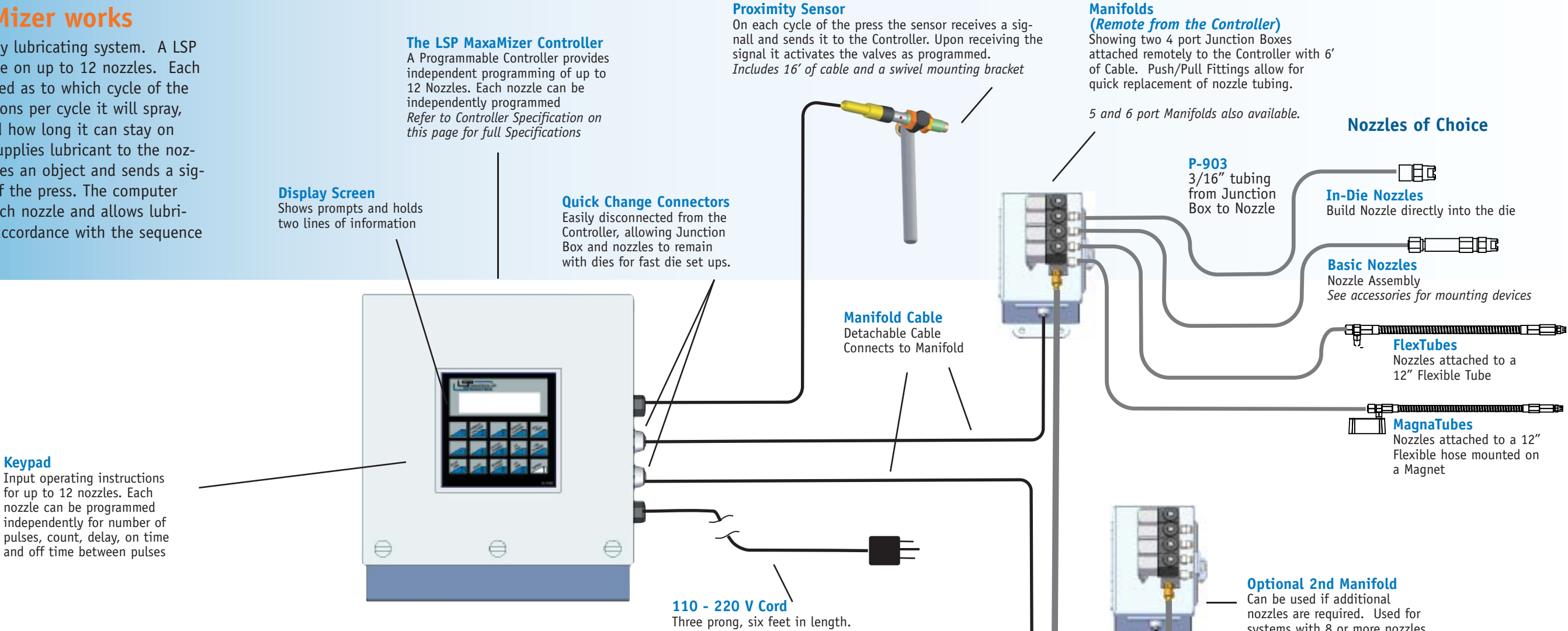
### MX-2008

A module system with two 4 port Manifolds for 4 Nozzles each. The system is shown mounted on a PortaCart with a 12 gallon Reservoir for extra flexibility. Easily disconnected from one machine and moved to another as needed. *PortaCart, Reservoir, Nozzles and Tubing are ordered separately.*

State of the Art Lubricating System, Computer Controlled to reduce Lubricant Consumption Increase Die life.

Here’s how the MaxaMizer works

The MaxaMizer is a low pressure spray lubricating system. A LSP computer controls the spray sequence on up to 12 nozzles. Each nozzle can be individually programmed as to which cycle of the press it will spray, how many actuations per cycle it will spray, when it will spray during a cycle and how long it can stay on during a cycle. A diaphragm pump supplies lubricant to the nozzles upon demand. A sensor identifies an object and sends a signal to the computer on each cycle of the press. The computer then opens the valves controlling each nozzle and allows lubricant to be forced to the nozzles in accordance with the sequence programmed into the MaxaMizer



MX-100X MaxaMizer



- Proximity Sensor**
- ◆ 12 Digital inputs including 2 inputs which can function as either high-speed counters, shaft encoders, frequency measurers or as normal digital inputs.
  - ◆ 12 Transistor Outputs. First 2 outputs can function as high speed outputs.
  - ◆ 2 Lines x 16 characters, STN LCD, LED backlight HMI Displays
  - ◆ 110V/220V Standard input, converted to 24 VDC for operational use.
  - ◆ Six foot Power Cord. Includes 16' of cable and swivel mounting bracket
- Adapters to Accept**
- Proximity Sensor**
- ◆ Provided with 16 foot quick disconnect cable.
- Manifolds**
- ◆ Provided in 4, 5 and 6 Port Outlets
  - ◆ Includes with 6 foot quick disconnect cable.



MaxaMizer

There are twelve standard systems available in two configurations. Each configuration includes one or more manifolds capable of supporting a predetermined number of nozzles. Refer to page 7 to see the nozzle assemblies available for use with the MaxaMizer.

The MaxaMizer 1000 Series

TransferPump, Tubing, Nozzles and Accessories are not included.



Proximity Sensor  
Includes 16 feet of cable



MX-1004  
CompuSpray II Controller  
with a four-port manifold

MX-1005  
CompuSpray II Controller  
with a five-port manifold



Manifold  
Includes 6 feet of cable.

MX-1006  
CompuSpray II Controller  
with a six-port manifold

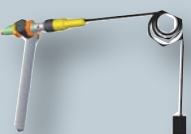
MX-1008  
CompuSpray II Controller  
with 2 four-port manifolds

MX-1010  
CompuSpray II Controller  
with 2 five-port manifolds

MX-1012  
CompuSpray II Controller  
with 2 six-port manifolds

The MaxaMizer 2000 Series

Tubing, Nozzles and Accessories are not included



Proximity Sensor  
Includes 16 feet of cable



MX-2004  
CompuSpray II Controller  
with a four-port manifold

MX-2005  
CompuSpray II Controller  
with a five-port manifold



Manifold  
Includes 6 feet of cable.

MX-2006  
CompuSpray II Controller  
with a six-port manifold

MX-2008  
CompuSpray II Controller  
with 2 four-port manifolds

MX-2010  
CompuSpray II Controller  
with 2 five-port manifolds

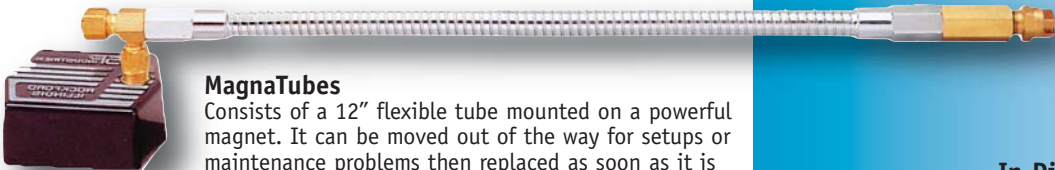
MX-2012  
CompuSpray II Controller  
with 2 six-port manifolds

SPRAY NOZZLES & NOZZLE ACCESSORIES

Nozzles are available in different type assemblies and in an assortment of spray patterns. Accessory items can be added to aid in positioning the nozzles or making it more convenient

P-926 Nozzle Extender

An 11: Nozzle Extender that fits on the P-925 Nozzle Bracket for maneuverability. The use of this system eliminates all seals in the Nozzle system.



MagnaTubes

Consists of a 12" flexible tube mounted on a powerful magnet. It can be moved out of the way for setups or maintenance problems then replaced as soon as it is ready to resume production.



FlexTubes

Consists of a spray Nozzle attached to a 12" flexible tube with a mounting bracket at the other end. The mounting bracket is a 1/8 NPT stud. The FlexTube allows exact alignment of the spray to the work area.



P-903 High Pressure Hose

The only non-metal tubing approved for use as a supply line to the nozzles. Flexible enough to afford the user easy positioning yet rigid enough to maintain a consistent spray pattern.

Basic Nozzles

A nozzle of choice that can be permanently positioned or attached to Mounting Brackets.



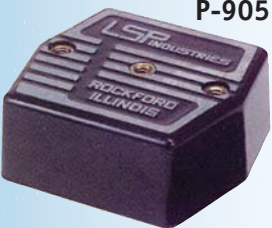
P-925

Swivel Nozzle Bracket Holder

Nozzle Bracket Holder moves up and down on a 6" rod and rotates a full 360o for proper positioning of the nozzle. It holds the nozzle in a fixed position that does not wander. Adapts to a P-905 MagnaBase.



P-925



P-905

P-905 MagnaBase

Powerful Magnetic Base, accepts the P-926 Nozzle Extender. The MagnaBase offers easy placement, positioning or removal of the spray nozzle. It has a holding force of over 100 pounds.

In-Die Nozzles Reduce Setup Time

These are compact nozzle that allow them to be built into the dies with a minimal amount of machining. Since no check valves are needed it is highly unlikely that the nozzles will ever have to be removed for servicing. Building the Nozzles into the die reduces setup time and insures that the die will get the lubricant exactly where it is needed each time the die is run.



Quick Disconnects

Quick Disconnects: Male Plug Adapts to the die. Female Socket adapts to the going to the Manifold. Shutoffs in both ends prevent dripping when the Quick Disconnects are disengaged. When finished with a production run, disengage quick disconnects and change dies. Engage Quick Disconnects to new die and your lubrication setup is complete.



P-918



P-919

Type of Nozzle

Type of Spray Pattern Given by the Nozzle

|                            | 95° Fan | 110° Fan | 80° Fan | 65° Fan | 25° Fan | 55° Drop |
|----------------------------|---------|----------|---------|---------|---------|----------|
| Basic Nozzles              | MX-1200 | MX-1201  | MX-1202 | MX-1203 | MX-1205 | MX-1207  |
| Nozzles w/FlexTube         | MX-1210 | MX-1211  | MX-1212 | MX-1213 | MX-1215 | MX-1217  |
| Nozzle w/FlexTube & Nozzle | MX-1220 | MX-1221  | MX-1222 | MX-1223 | MX-1225 | MX-1227  |
| In Die Nozzle              | MX-1240 | MX-1241  | MX-1242 | MX-1243 | MX-1245 | MX-1247  |
| Nozzle w-1/8 NPT           | MX-1240 | MX-1241  | MX-1242 | MX-1243 | MX-1245 | MX-1247  |

MX-1207 Drop/Stream Nozzle

A Nozzle designed to dispense lubricant with pin point accuracy. Perfect for punches, flying cutoffs, assembly applications and more.



# Accessories



MX-1901



MX-1902

**Barb Fitting**  
MX-1901 1/8NPT x 1/2" barb connects to TransferPump  
MX-1902 1/4NPT x 1/2" barb connects to manifold



**Proximity Sensor Cable**  
Extenders Allows Proximity Sensor to be moved an extended distance from the Controller.  
MX-1350 10' Extender Cord  
MX-1351 15' Extender Cord



**Reinforced Fluid Tubing**  
From TransferPump to Manifold  
MX-1901 5/8 Polyvinyl Braided Tubing



**Manifold Cable Extenders**  
Allows Proximity Sensor to be moved an extended distance from the Controller.  
Complete with Quick Disconnect Fittings  
MX-1301 6' Extender Cord  
MX-1303 15' Extender Cord  
MX-1305 60' Extender Cord



**MX-1315 15-Gallon Reservoir**  
with TransferPump and Filter-Regulator-Guage

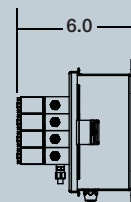
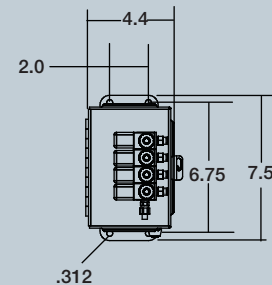


**MX-1330 PortaCart**  
A portable cart to carry the MaxaMizer-2000 and a 12 gallon Reservoir.  
*Does not include 12 Gallon Reservoir..*

**MX-1312 Reservoir**  
A heavy duty 12 gallon reservoir made from a long chain polyethylene. Opaque in color, gives a clear view of the fluid level.

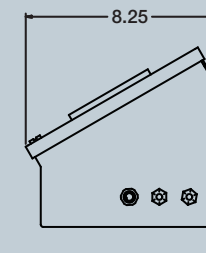
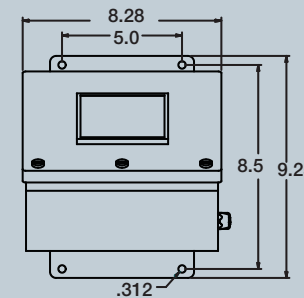
## Dimensional Drawings & Specifications

Manifolds MX-1124, MX-1125 & MX-1126

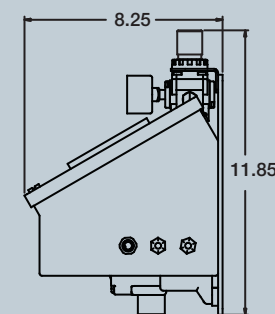
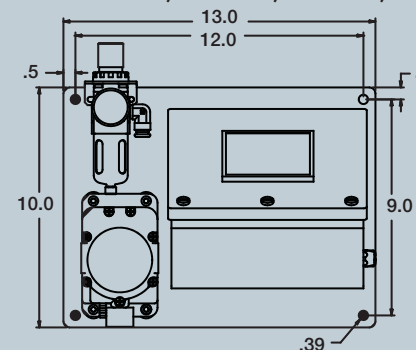


**LSP<sup>®</sup> INDUSTRIES, INC.**  
ROCKFORD, IL 61104

**MaxaMizer-II CONTROLLER:**  
MX-1004, MX-1005, MX-1006, MX1008, MX-1010 & MX-1012



**MaxaMizer-II CONTROLLER Mounted on a Plate:**  
MX-2004, MX-2005, MX-2006, MX2008, MX-2010 & MX-2012



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