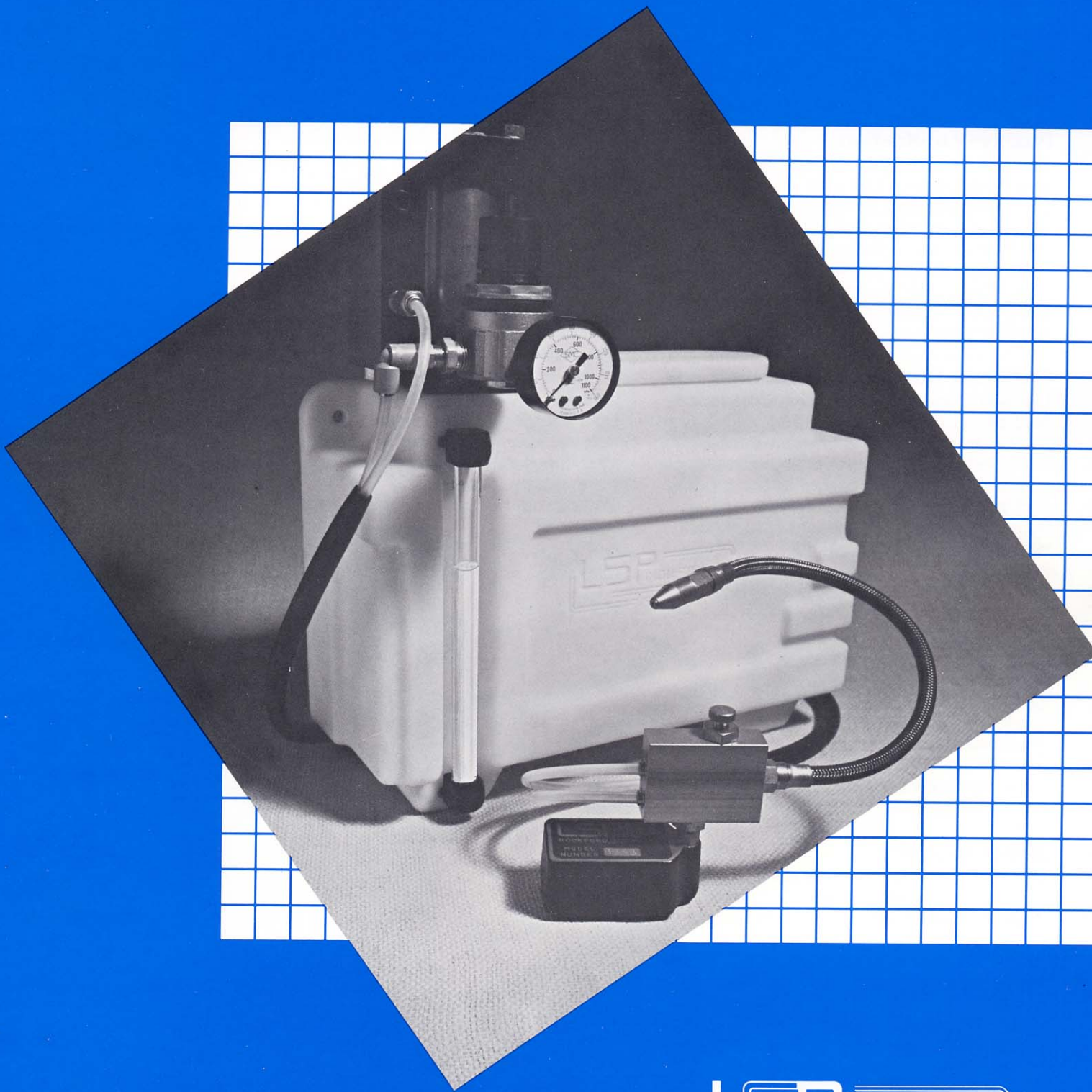
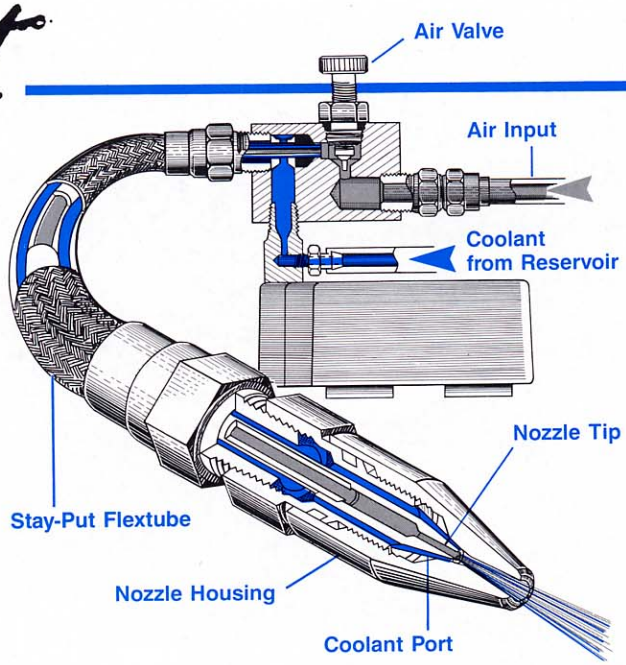
Mist Coolant Systems



LSP INDUSTRIES, INC.
Rockford, Illinois

The BasicMist

Economy, efficiency, durability, and versatility are the trademarks of LSP Mist Coolant Systems. Simply specify the system you want and then select the components you need from our wide array of options and we'll deliver a package designed to meet your coolant needs exactly, and ready for immediate installation. All units can be adapted for automatic or semi-automatic operation by adding an LSP air valve.

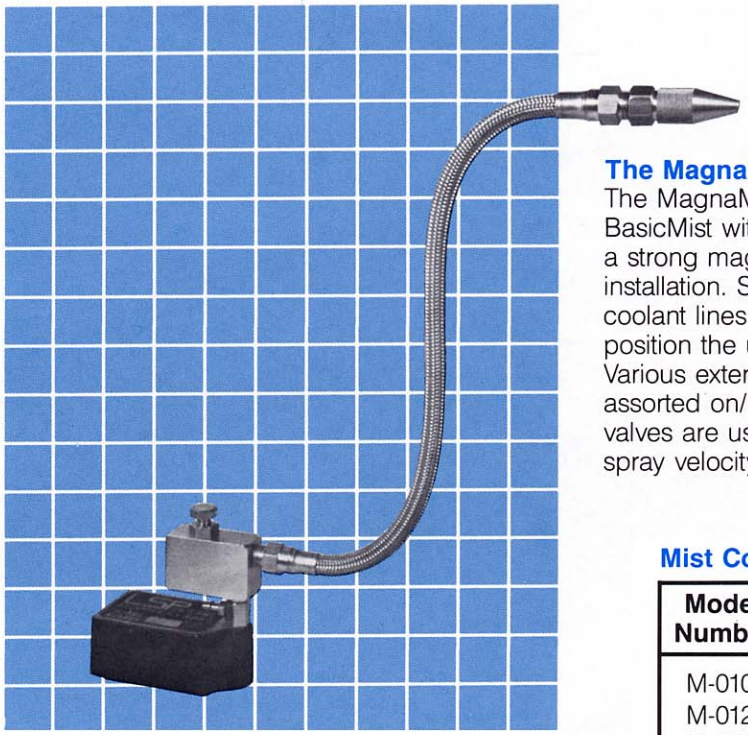


Here's How They Work

The BasicMist and MagnaMist Models all use the Venturi principle for their operation.

When air (shown in gray) is introduced to a typical unit, like the M-122 MagnaMist at the right, and the "Air Valve" is open, it passes completely through and is released at the "Nozzle Tip". The air stream forms a "Venturi," creating suction that draws coolant (shown in blue) from a coolant reservoir to the "Coolant Port" where it joins the air to form a mist spray The force of the spray is easily regulated by adjusting the "Air Valve" to control both air volume and velocity. To adjust the coolant volume one has only to turn the "Nozzle Housing".

The MagnaMist



The MagnaMist M-122 and M-123

The MagnaMist has all of the features of the BasicMist with control valve and Flextube plus a strong magnetic base to simplify the installation. Simply attach flexible air and coolant lines and then with the magnetic base position the unit in the desired location. Various external valving can be used to give assorted on/off control. The built-in control valves are used to regulate the air flow and spray velocity.

Mist Coolant Specifications

Operating Air Pressure . . . . . 30 PSI Minimum
Maximum Air Consumption . . . . . 0.03 CFM at 100 PSI
Coolant Consumption at Full . . . . . : Over 1 gal./hour

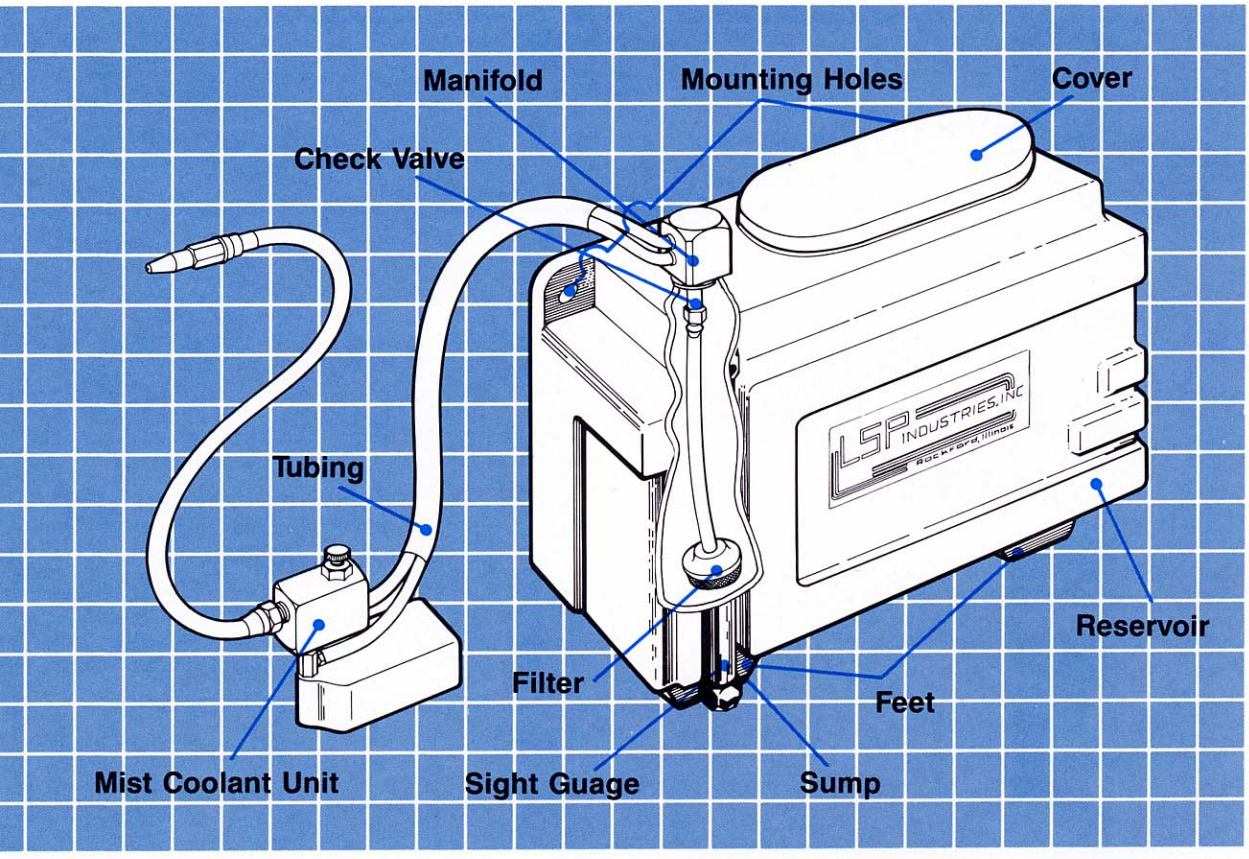
Mist Coolant Features

Model Number	Length of Flextube	Air Control	Coolant Control	Inlet Hose	Mounting
M-010	N/A	N/A	Yes	5′	1/8 NPTM
M-012	9-1/2″	N/A	Yes	5′	1/8 NPTM
M-013	12-1/2″	N/A	Yes	5′	1/8 NPTF
M-020	N/A	Yes	Yes	5′	Two-3/16″ Holes
M-022	9-1/2″	Yes	Yes	5′	Two-3/16″ Holes
M-023	12-1/2″	Yes	Yes	5′	Two-3/16″ Holes
M-122	9-1/2″	Yes	Yes	5′	Magnetic Base
M-123	12-1/2″	Yes	Yes	5′	Magnetic Base

The OptiMist

The OptiMist Package

The OptiMist Package is unique in its ability to combine high performance with economy and efficiency. That's because the OptiMist is the product of careful engineering, proven designs and top quality materials. The reservoirs, for example are constructed of strong chemical-resistant long chain polyethylene. The nozzle assembly is of a proven design. It has been in use since 1964 and has been constantly been improved and upgraded as the technology became available. Combining our dependable mist coolant nozzle with the corresponding reservoir we deliver a total system that is economically priced and convenient to use. Whether you make the OptiMist a permanent part of the machining tool or use it as a portable system, its service and durability make it a wise investment for any manufacturing plant.



OptiMist Packages

Model Number	Reservoir Size	Nozzle Number	Mist Units
M-211	1-1/2 Gal.	M-023	1
M-212	1-1/2 Gal.	M-023	2
M-215	5 Gal.	M-023	1
M-216	5 Gal.	M-023	2
M-221	1-1/2 Gal.	M-123	1
M-222	1-1/2 Gal.	M-123	2
M-225	5 Gal.	M-123	1
M-226	5 Gal.	M-123	2

Here's why the OptiMist is the best complete system on the market today:

Reservoir
Chemically resistant and made of strong, durable long-chain polyethylene.

Feet
Molded into the base of the container which allows the container to set level on any surface.

Sight Gauge
Protected on three sides but readily visible in order to determine coolant level.

Sump
A small basin within the reservoir to allow total drainage of coolant.

Filter
Large 80 mesh filter stops foreign matter from being drawn into nozzle assembly.

Check Valve
Retards drain back of coolant into reservoir. Keeps coolant at the nozzle tip for immediate start.

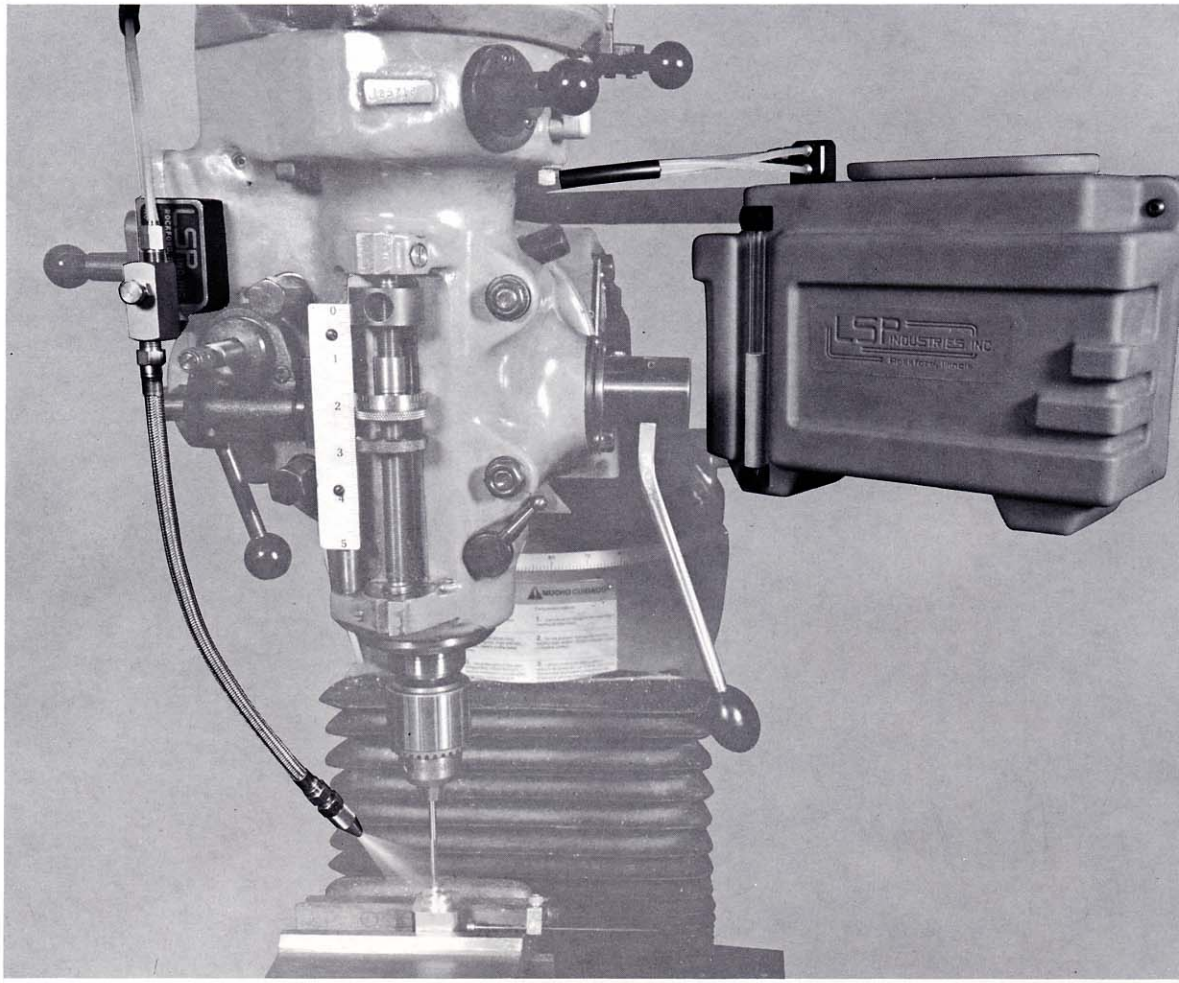
Tubing
6′ of flexible 3/16″ tubing for air and coolant.

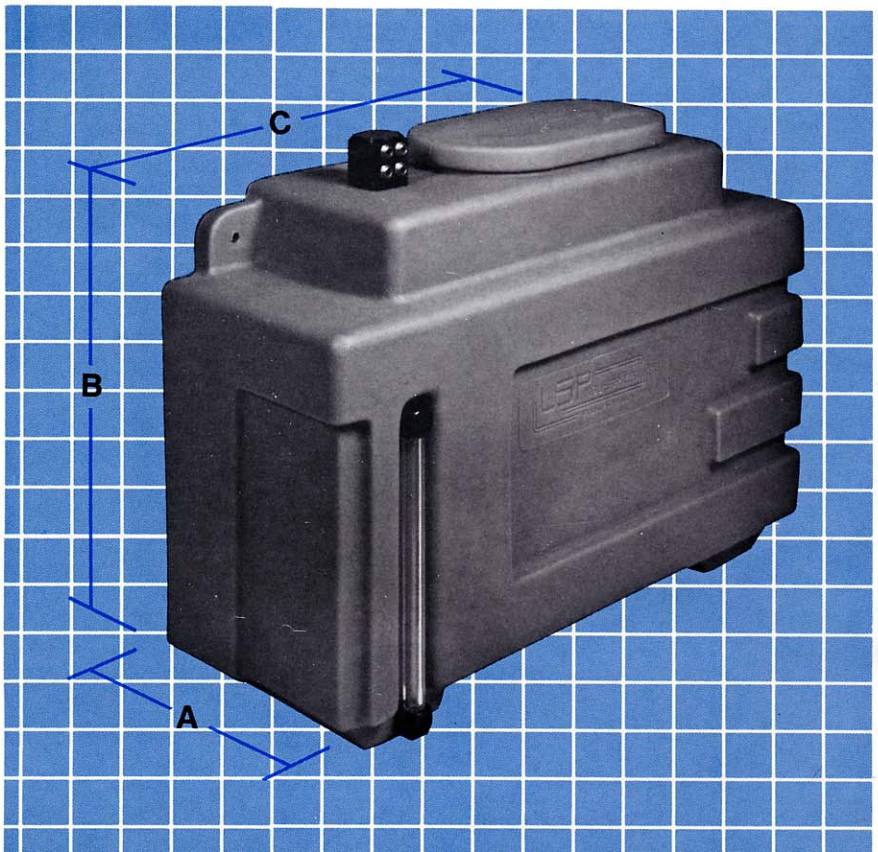
Manifold
For one or two nozzle units. Swivels in reservoir for easy aiming of nozzles.

Mist Coolant Units
Refer to pages 2 & 3.

Mounting Holes
Allows for fast and easy installation on any machine.

Cover
Snap top lid prevents coolant from spilling out.





The OptiMist package in operation on a milling machine

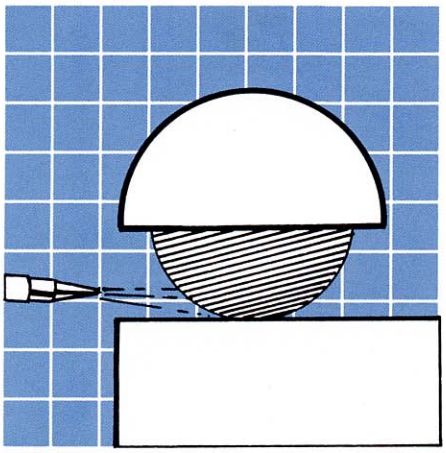
The M-221 OptiMist Package is shown in the accompaning photo. The OptiMist is designed with the operator in mind. Not only does this equipment improve the quality of the work it also increases the productivity of the employee. The OptiMist packaging allows for the reservoir to be located up to 5′ away from the nozzle assembly. This is still close enough for the operator to monitor the coolant level by simply glancing at the sight gauge. All of the controls are conveniently located within easy reach so that the operator never has to leave his station to adjust the spray pattern.

Reservoir Specifications

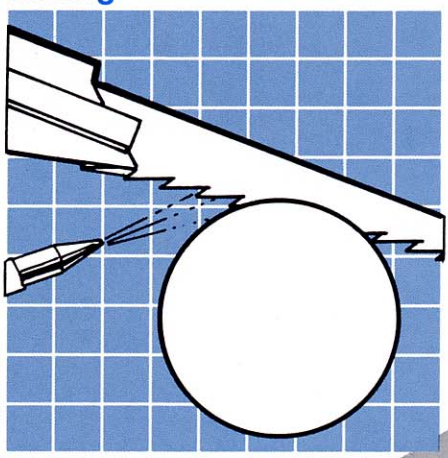
SIZE	A	B	C
1½ gal	7.50	10.50	12.00
5 gal.	11.25	14.00	17.50

A Complete Misting System

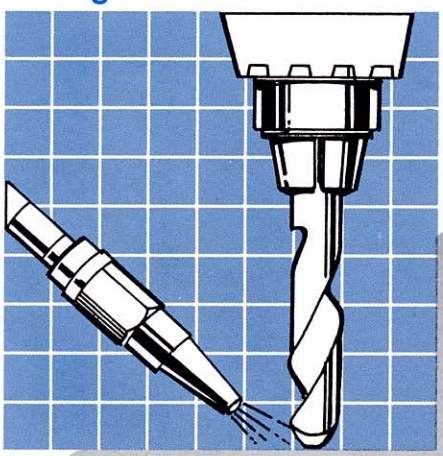
Grinding



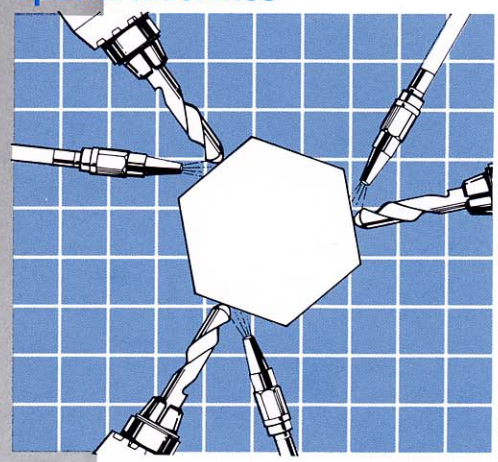
Sawing



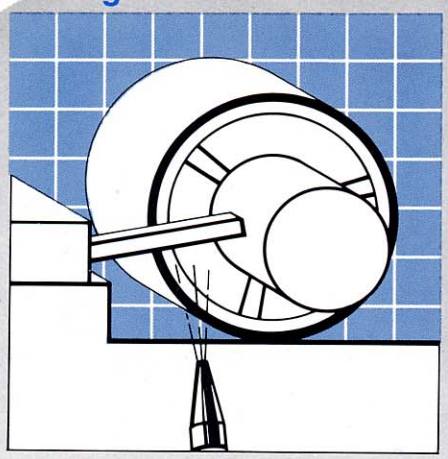
Drilling



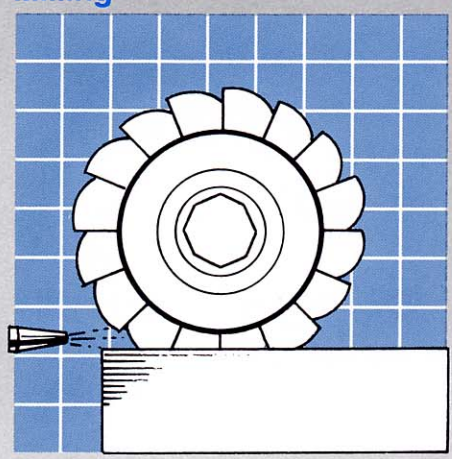
Special Machines



Turning



Milling



LSP INDUSTRIES, INC. manufactures a complete line of Mist Coolant Systems for any industrial application. Use them on drilling, milling, grinding, sawing, turning, and many specialty machines. Because we manufacture one of the broadest lines of Mist Coolant Systems available, we are certain that you will find in this catalog the perfect system for your individual application at an affordable price. Please contact LSP Industries, Inc. for the name of your nearest distributor.