


BACKGROUND:

The Single Line System has been designed as an alternative to UNIST Coolubricator Systems. The modular design has been developed for customers who require a more compact and less expensive means of applying Coolube or other lubricants.

These lubricants require very minute and accurately recurring applications for full effectiveness on metalcutting, metalforming, or other lubrication requirements. Single Line Systems meet these requirements in a neat and compact modular design.

METHOD OF OPERATION:

A constant, clean and dry filtered air source operates a pneumatic pulse generator with an adjustment range of 5-200 times per minute. The air "pulses" operate one or more positive displacement metering pumps which pump Coolube into an air chamber. The air and lubricant is then combined to create a lubricant spray which is dispensed by means of a 1/8" OD Nylon Tube. This tube is positioned by a 1/8" OD Copper Nozzle which is directed at the cutting tool or workpiece. The end of the 1/8" tube is fitted with the UNIST Variable Orifice Tip (VOT) which provides proper velocity and consistency of lubricant application,

SPECIFICATIONS:

The UNIST metering pumps require a minimum 45 PSI air signal interrupted by a controlling on/off Solenoid, Manual, or Air Pilot Valve.

The metering pumps dispense from .2 to 1 drop/cycle (1 drop equals .033 cc). The resulting output dispensed by Uni-MAX is .033 cc to 6.67 cc per nozzle per minute. The unit is mounted with a magnetic base for portability. Magnets are standard on the Nozzle.

COST EFFECTIVE:

Uni-MAX Single Line Systems provides cost effective method of applying high efficiency lubricants. These metalworking lubricants require a unit to dispense them in minute amounts. Uni-MAX Single Line Systems provides the necessary method for accomplishing this task.