

Automatic Micro Lubri-refrigeration System Mini LubeTool® Model

Description

LubeTool® system was designed to supersede the traditional lubrication with water soluble oil used in tooling metals. This new system mixes air and drops of pure oil (preferably vegetable base oil) and directs it to the contact point where the tool touches the part being toolled.

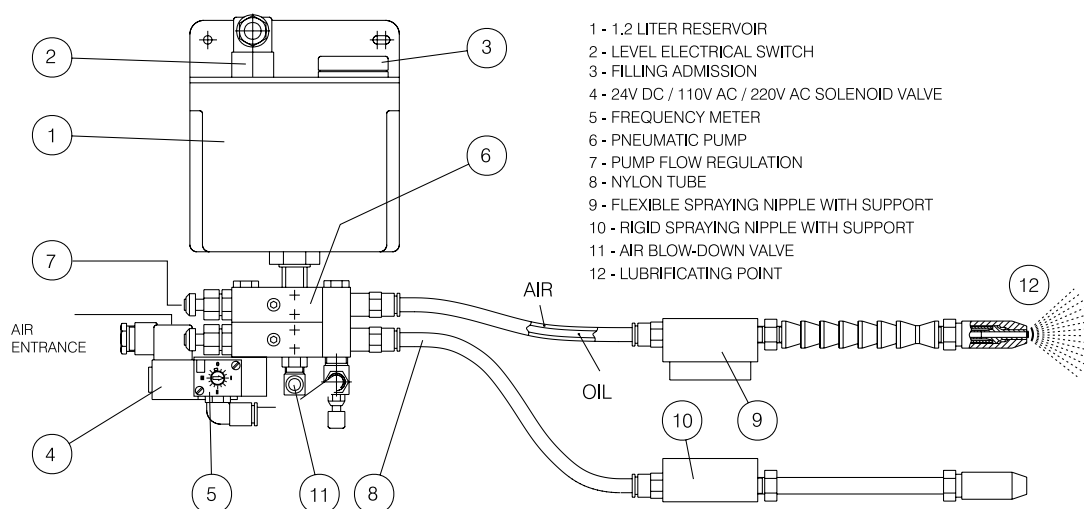
Advantages

Clean working environment, larger productivity, increases tool usable life, better surface finishing, cost reduction, increases working tolerances, reduces lubricant consumption in 90 %, eliminates the need for discarding exhausted oil, eliminates washing parts and chips.

Mini LubeTool® may be applied in several types of works such as: sawing, drilling, threading, milling, punching, stamping, chains and calibration, among others.

Operation

One (or more) pneumatic micro pump (pumping element) meters a small quantity of lubricant through a capillary tube internal to a coaxial piping up to a mixing nipple that mixes it with compressed air and sprays it in the contact point where the tool touches the part and forms an oil film that reduces the working friction. The micro pump may regulate oil metering by action, the frequency generator allows adjusting the number of actions of micro pump and air flow is regulated by an independent valve, so resulting total control of air/oil mix.



Specifications:

Pumping element flow	from 0 to 41 mm ³	Lubricant	oil max. 800 cSt 40° C
Number of pumping elements	from 1 to 2	Minimum level switch (optional)	1 at 250 V AC - 220 V DC - 50 W
Voltage	24 V DC - 115 V AC - 230 V AC	Air pressure	from 4 to 8 kg/cm ²
Number of cycles of micro pump	from 1 to 66 per minute	Air consumption per pump	min.: 60 l/min - max.: 100 l/min
Oil reservoir	1.2 - 3.6 liters		

Purchasing information

Quantity, model, number of elements, volume of reservoir, reservoir minimum level electrical switch, air throttle valve with pressure gauge, frequency generator, solenoid valve, solenoid valve voltage, spraying nipple type (flexible or fixed).