

Introducing the All New Excision MQL Micro Lubrication Systems



Micro Lubrication System MQL



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Excision[®]
Dependable Precision

Micro Lubricating System MQL

What is MQL?

MQL refers to "Minimum Quantity lubrication".

Why MQL?

MQL systems, provides numerous benefits to the users such as productivity, product quality, human and environment health etc.

Advantages of MQL on productivity:

As well known in the field of cutting tools, the biggest killer of your tools is from over-heating. Friction heats-up the tools temperature and this results in decreasing the tool life. For decreasing the cutting tool's temperature, a lubrication process must be applied in the most effective way.

MQL systems will, among others, prevent the heat-up of cutting tool in the most economical and productive way. The lubricant is applied directly to the required point and is more efficient lubrication, which provides a long-term period of usage of the tool without changing, which is timesaving. When we compare the process numbers with conventional systems; MQL systems obtain higher number of cuts during the same period. Moreover, MQL systems increases the tool life up to 70 percent and observe that your costs will decline with increases production.

Part Number 8501024V



Advantages of MQL on saving:

In conventional systems, an emulsion consisting of lubricant mixture (approx. 5%) and water (approx. 95%) is used. This serves only to cool down to warming and provides the poor lubrication. MQL systems uses only certain amount lubricant which is needed for the lubrication operations and everything more than this amount would be wasted.

Advantages of MQL on product quality:

MQL systems operates with oil and compressed air combination. The lubricant conveys to the required point by compressed air through the special transfer hose. In this case, the compressed air does not work only for convey the lubricant, it also removes the chips from the material. Therefore, it ensures a cleaner & smoother finishing quality.

Advantages of MQL on human and environment health:

MQL systems uses vegetable-based oil which is completely harmless to human and environment health. It is developed for to apply the lubricants with as minimum quantities, as needed. For this reason, the lubricant disappears after being applied and nonvisible leftover does occur. This means clean, healthy, and reliable workplace. Moreover, the vegetable-based oil, does not cause any mist or smoke.



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General Features of Excision MQL systems:

Minimum quantity lubrication consumption. The users can apply the exact quantity of lubrication, as much as required of the process. The users can apply the lubrication time as interval or constant. Easy mount to the systems. The leftover, mist or smoke does not occur. Can be used internal or external. Increases the Tool life. Increases the production time. Does not need any filter system. Different nozzle types can apply.

Bandsaw Nozzles:



MQL Plastic Spiral Nozzle



Liquids that can be used

- Herbal essential cutting oils
- Industrial oils
- Solvent based essential oils
- Chain and gear oils

Standard Features

- Low level switch
- With oil filling filter
- Up to 5 pumps output feature (Max.)
- For each output nozzle is required

Technical Specification

- Working Voltage: 24V AC / DC
- Working Pressure: 4 - 6 Bar
- Oil Amount Min: 0,0012 ml
- Oil Amount Max: 0,028 ml
- Lubrication Interval: 0.1sec – 10 sec
- Lubrication Time: 0.1sec – 10 sec
- Reservoir: 1,5 litre
- Viscosity Range: 2-30 cst



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Metal Processing	Chipless Manufacturing	Other Applications	Available Sectors
Drilling	Forming	The Spraying of anti-corrosion liquids	Automotive Industry
Turning	Plastering	The spraying the coating liquids	Household Industry
Milling	Pressing	Cooling	Aluminium Industry
Tapping	Rubbing	Chain lubrication	Defence Industry
Reaming	Mold Lubrication	Sled lubrication	Textile Industry
Countersinking			Food Industry
Band/Circular Sawing			Cement Industry
Grinding, Honing			Paper Industry
Broaching			

MQL 1.5L

It is designed for use in areas that require frequent adjustment changes. The time setting is made extremely simple thanks to the knobs. It can also be installed as compatible with plc control units upon request. By adding a pump, up to 5 points can be operated simultaneously.

Scope of Application

- Circular saw machines
- Threading machines
- Milling machines
- Scrubbing benches
- Routers
- Band saws
- Swich drills
- Lathes

Part Number	Model
85701109	MQL 6-27MM BANDSAW BLADE NOZZLE
85701110	MQL 34MM BANDSAW BLADE NOZZLE
85701111	MQL 41MM BANDSAW BLADE NOZZLE
85701112	MQL 54MM BANDSAW BLADE NOZZLE
85701113	MQL 67MM BANDSAW BLADE NOZZLE
85701120	MQL CIRCULAR BLADE NOZZLE
85701130	MQL PLASTIC SPIRAL NOZZLE WITH

