



Dropsa USA Inc.



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COOLANT VS OIL MINIMUM QUANTITY LUBRICATION

THE ALTERNATIVE TO COOLANT THAT ACTUALLY WORKS

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Turning Skeptics into Believers.

OEM Corporation specializes in the manufacturing of high-quality blower shafts for general purpose axial and centrifugal fans used in the HVAC industry. OEM has been using a very well known Swiss made Metal Working Fluid for several years.

When Hydrotech challenged us to look at the Dropsa Miquel, minimum quantity lubrication system, we were skeptical to say the least. How could this minute amount of barely visible oil replace the high volume of coolant we have been using for years?

We accepted their risk free challenge and tested their unit on our band saw.

Wow, the results were incredible.

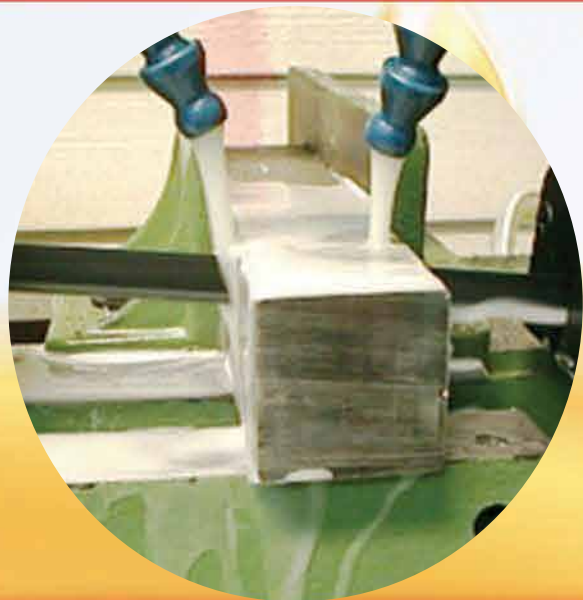
Blade life doubled. The work area is dry, the chips are dry, the surface finish has improved and we are saving money in all aspects of our sawing.

We then turned to our cut off machines. Again the results were astounding. Our cut off insert life went from 500 cuts per insert to 1500 cuts per insert. At \$21.00 per insert the savings started to add up quickly.

OEM has converted all machining processes to this technology. The Dropsa MiQuel unit is now on all of our cut off machines. When you look at the big picture and compare the cost of using traditional metal working fluid vs. this new technology. There is no argument. We are saving thousands of dollars annually using this minimum quantity lubrication.

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The Issue with Coolant

Is water coolant really the best way to lubricate an application? Aside from the health risks it imposes, coolant comes with the added hassles of cleaning, storing, mixing, monitoring, filtering and high disposal costs. The wet environment allows for bacteria growth and other hazards.



Cutting with MQL

Minimum quantity lubrication lessens the amount of oil needed to lubricate an application. This has proven to increase efficiency and foster a much safer work environment. Everything stays dry and there is no pooling, which not only saves on high disposal costs but also increases tool life.



Our MiQueL

This is the champion of all exterior lubrication applications. It is best utilized for saw cutting, drill presses, e-mills, stamping and metal forming. An existing fluid delivery system is all that is necessary and no additional plumbing is required.



Our MKD

The MKD is the industry flagship for through-the-tool lubrication. This system creates a thin film of air-oil mixture that is brought to the cutting edge by traditional means. An existing fluid delivery system is all that is necessary and no additional plumbing is required.



SAFER ENVIRONMENT

MQL systems eliminate pooling caused by water coolants and produces no hazardous air-borne chemicals, thus creating a safer and cleaner work place.



INCREASED TOOL LIFE

This technology uses so little oil that many facilities have noticed up to a 100% increase in the life of their tools, thus also increasing production and efficiency.



LESS CUT TIME

Speeds and feeds increase exponentially because of the direct lubrication process and better tool maintenance.



TESTIMONIAL

"We thought saw-cutting with coolant was our only option. The Near Dry Cutting solution provided by DropsA USA produced a clean, dry work area and improved our blade life as well as the finish of our cuts."

Mason Reynolds, American Metals



TESTIMONIAL

"We originally tested the DropsA USA MiQueL unit because we were looking for a way to increase production and reduce the mess caused by metal working fluid. The first day we ran the unit on our CNC cutoff saw we reduced our time in the cut by over 50% with better surface finish. We are now using MQL in 6 machines. Our operators love it! The work environment is clean and dry. It's safer because they don't have to wear gloves. In addition to great tool life we were able to cut our labor time by 15%. We will be converting more of our shop to MiQueL!"

Joe Broering, Hi-Tech Wire Inc.

