



# MECOM Industries Corp.

## Plant-based Cutting Fluid Manufacturer



## About MECOM Industries Corp.

Founded in 2003, MECOM Industries Corp. is Taiwan's largest and most representative **manufacturer of plant-based cutting fluids**.

Under our core brand **MCM**, we replace traditional petrochemical ingredients with **natural, eco-friendly raw materials**, offering a complete one-stop service from formulation development and product design to manufacturing and delivery. We are committed to delivering high-efficiency and sustainable metalworking solutions.

Our products are **widely used across major industries** and **advanced machining processes**, and are recognized and adopted by numerous global manufacturers.



# Core Team



## ■ Founder | Chairperson — Lily Yang

With over **30** years of experience in metalworking oils, Ms. Yang began her career with a British company before founding Mecom Industries Corp. in 2003, focusing on the development of plant-based cutting fluids.



## ■ Technical Director | Dr. Jonathan Liao

Holding a Ph.D. in Materials Science and with more than **40** years of industry experience, Dr. Liao is **Taiwan's first pioneer to apply plant-based oils** in metalworking applications.

# R&D Strength



## Mecom MCM R&D Center

- The only independent R&D and production laboratory in Taiwan dedicated to cutting fluids.
- **Over 21 years of specialized expertise** in developing plant-based cutting fluids, supported by complete in-house testing and analysis facilities.
- 15% of all staff are R&D professionals, with core members holding Ph.D. degrees in materials science and more than 40 years of industry experience.
- 6–10% of annual revenue is consistently reinvested into R&D and technological upgrades.

# Quality Certifications



## SGS Certified

- ISO 9001– Quality Management
- ISO 14001– Environmental Management
- ISO 45001– Occupational Health and Safety

# Product



## Cutting Fluid

- **SUPERSOL** ESG Plant-Based Cutting Fluid
- **SUPERSYN** Climate-Friendly Plant-Based Cutting Fluid
- **MQL SUPERSYN** MQL Dedicated Cutting Fluid
- **SUPERCUT** Oil-Based Cutting & Grinding Fluid

## Metal Surface Treatment Agent

- **RUSTECH** Rust Preventive Oil
- **SUPERCLEAN** Cleaning Agent

## Lubricant

- **HYDRA** Hydraulic Oil
- **HYSLIP** Slideway Oil
- **SUPERGRIND** Gear Oil
- **Air pressure Oil**

## Authorized Product

- **DOSATRON** Proportional Dosing Pump

# Product Features

## Safety

- **Plant-based** formulation
- **Free from biocides** and harmful chemicals
- Near-neutral pH, skin-friendly, non-irritating
- Safe to handle, **reduces** operator health burden

## Eco-Friendly

- Improves air quality by 35–60%
- **Reduces oil mist & industrial wastewater discharge**
- Biodegradable with **low carbon emissions**

## Machining Performance

- Service life up to 5–10 years
- **Extends tool life** by 30–60%
- Excellent anti-foaming, high lubricity, low oil mist
- Stable cooling for improved dimensional accuracy

## Cost Efficiency

- Easier machine cleaning, saves labor
- **Reduces wastewater and oil mist recovery costs**
- Enhances both work environment and productivity



# Applicable Materials

## Wide Material Compatibility

Suitable for aluminum alloys, forged aluminum, stainless steel, Ni-Cr-Mo steel, titanium alloys, high-nickel alloys, tool steel, carbon steel, copper, and plastics.

## Aluminum Alloy Protection

Specially designed for 5/6/7-series sensitive aluminum alloys, providing excellent anti-oxidation to prevent discoloration and corrosion.

## Copper Oxidation Resistance

Effectively inhibits tarnishing, maintaining the bright and stable finish of copper parts.

## High-Hardness Metals

Ideal for aerospace-grade aluminum and other high-strength materials, enhancing cutting efficiency and tool life.

## Magnesium Alloy Safety Design

Formulated for low-ignition-point magnesium alloys, reducing fire risks during machining.

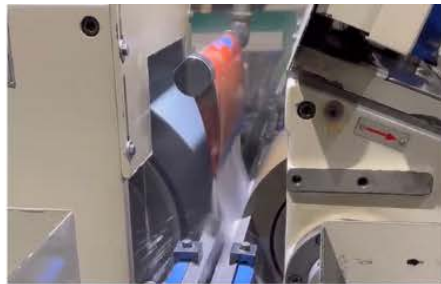


# Product Differences

## MCM PLANT-BASED CUTTING FLUID



**-30%  
TEMPERATURE**



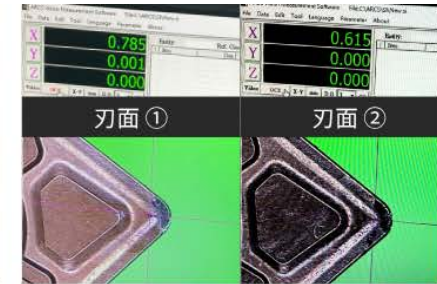
**-50% SMOKE**



**80%  
LESS STICKINESS**



**100%  
IMPROVED VISIBILITY**



**-70% TOOL WEAR**

**PROCESSING  
TEMPERATURE**

**SMOKE  
GENERATION**

**STICKINESS**

**CLEANLINESS  
& VISIBILITY**

**TOOL WEAR**

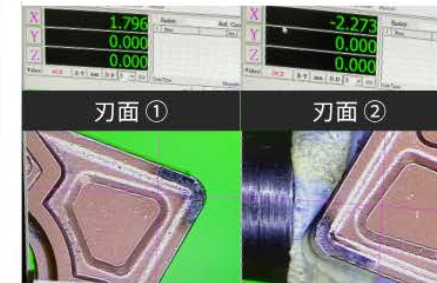
**HIGH PROCESSING  
TEMPERATURE**

**HIGH SMOKE LEVELS**

**HIGH STICKINESS**

**POOR CLEANLINESS  
& VISIBILITY**

**HIGH TOOL WEAR**



## OTHER BRANDS' MINERAL CUTTING FLUIDS

# Product Performance Comparison



## SUPERSOL

Oil Lifespan **2-3 years**

Cleanliness

Defoaming Ability

Flushing Pressure **Suitable for 40-60 Bars**

Lubrication

Rust Prevention

Oxidation Resistance



## SUPERSYN

Oil Lifespan **5-10 years**

Cleanliness

Defoaming Ability

Flushing Pressure **Suitable for 70-100 Bars**

Lubrication

Rust Prevention

Oxidation Resistance



# Product Awards



**SUPERSOL WON THE TAIWAN EXCELLENCE AWARD 2019, 2023, 2026**  
**SUPERSYN WON THE TAIWAN EXCELLENCE AWARD 2025**

Recognized by Taiwan Excellence for outstanding performance in R&D, design, quality, marketing, and “Made in Taiwan” value — symbolizing innovation, premium quality, and global competitiveness.

# Product Awards



## **SUPERSOL WON THE 30th SME Innovation Research Award**

Presented by the SME Administration, Ministry of Economic Affairs, honoring innovative R&D achievements that enhance technology, service quality, and competitiveness.

# Customer Testimonials

MECOM offers one-stop services—from R&D to manufacturing and shipment—in environmentally friendly, high-efficiency cutting fluid processing, and is trusted by global companies.

FAIR FRIEND GROUP



YOU JI



FUSHENG



ANGELCAST ENTERPRISE



GRUNDFOS



GUHRING



# Official Social Media



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