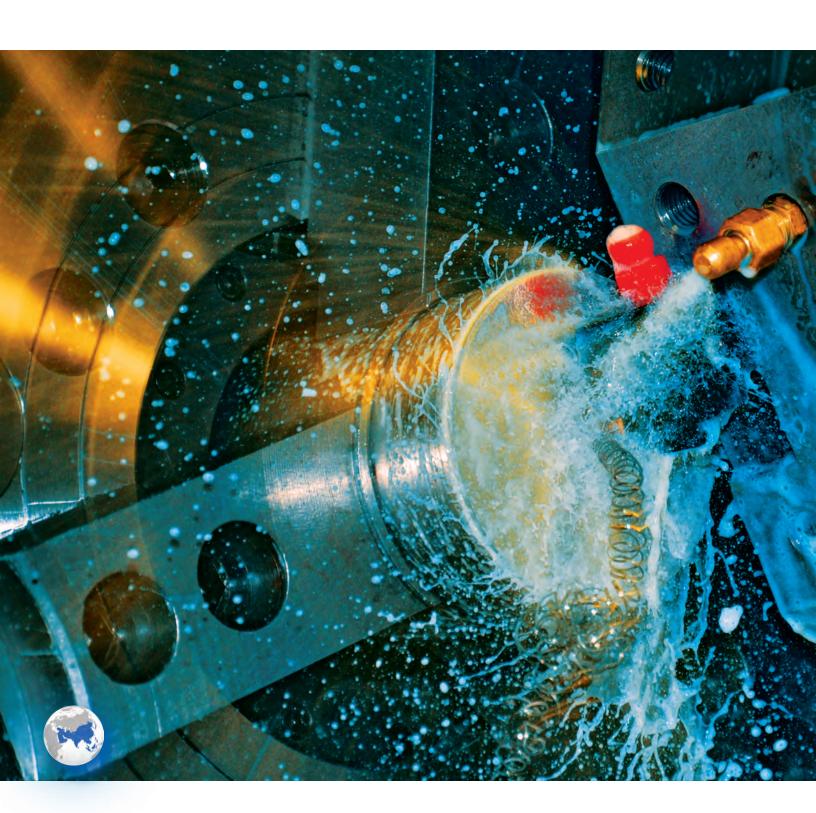


# Improve Your Performance Streamline Your Production Enhance Your Profitability











# TRIM® Family of Products – The Solutions You Need



# Cutting and grinding fluids that lead the industry

Master Chemical has been recognized for more than 60 years for its TRIM family of metalworking fluids for all types of cutting and grinding operations. TRIM fluids meet the demands of specialized industries such as automotive, aerospace, and medical parts manufacturers.

For the full range of synthetics, semisynthetics, and soluble oils, TRIM offers customers longer tool and sump life, better finished parts, and a better bottom line.

#### TRIM coolants help customers realize

- > significantly reduced fluid costs
- > lower machine tool costs
- > reduced downtime and labor
- > lower disposal costs
- > assured code compliance
- > a safer work environment for employees
- > immediate savings to the bottom line

COOLANTS/TRIM MICROSOL®	
TRIM® MicroSol® 690XT High-lubricity, Low-foam Premium Semisynthetic NEW!	Ultimate lubricity. Robust stability package for long life. Exceptional foam control.  Excellent environmental and regulatory profile. Boron free and nonchlorinated. Multi-metal compatible.
TRIM® MicroSol® 585XT Nonchlorinated Semisynthetic	Extended-life, high-lubricity, microemulsion coolant delivers excellent cooling and mechanical lubricity. Well suited for machining and grinding gray iron, mixed metal situations, and titanium alloys.
COOLANTS/EMULSION	
<b>TRIM® E709</b> Long-life Emulsion	Long lasting, highly stable, extremely hard-water tolerant emulsion; high performance in wide application range for machining, grinding, high-speed turning, milling. Rejects tramp oil for increased sump life without costly additive
TRIM® E206 Long-life Emulsion	Highly stable emulsion for superior sump life and low mist/low carryoff. Excellent for high-speed milling and turnin in most materials. Higher speeds and feeds, long sump life, and low use rates mean higher productivity and profits.
CoolPAK® COMSOL IIQF High-lubricity Emulsion	Highly lubricious, formaldehyde-free emulsion; good lubricity and corrosion inhibition for aluminium and soft gummy materials. Good rust protection for copper parts and other ferrous metals. Provides long sump life.
CoolPAK® COMSOL IIC3 Emulsion for Alloy Wheel Machining	Economical product offers excellent lubricity and superior corrosion protection for alloy wheel machining. Single product for both roughing and finishing lines; reduces 'built-up edge' issues associated with alloy wheel machining. Leaves protective film to protect aluminium against scratches from stringy chips during machining.
COOLANTS/SEMISYNTHETIC	
TRIM® SC310 Microemulsion Semisynthetic	Highly versatile for machining/grinding a very wide range of materials – cast iron, steels, copper alloys, many plastic and composites; superior corrosion inhibition on all ferrous/nonferrous metals. Extremely tolerant to hard water.
<b>TRIM® SC445FF</b> Formaldehyde-free, Low-oil Semisynthetic	Economical, formaldehyde-free, low-oil semisynethic provides long sump life. Clean running performance on cast iron/ferrous metals with excellent rust protection.
TRIM® SC410 Chlorine-free Semisynthetic	Chlorine-free, semisynthetic coolant made with Master Chemical's vegetable-derived, ester lubricants. Clean running in moderate-duty machining/grinding of both ferrous and nonferrous materials. Excels at ferrous surface and cylindrical grinding and with machining 'gray iron' castings.
TRIM® SC620 Premium Low-oil Semisynthetic	High lubricity, low foam, low odor semisynthetic for high-performance maching and grinding. Rejects tramp oi and extends coolant life; save time and material. Finishes rival those of soluble oils, multi-metal compatibility.
COOLANTS/SYNTHETIC	
TRIM® C115 Synthetic	High-performance synthetic fluid for working cast iron and mild steels; provides excellent cooling and chip settling, good tramp oil rejection, and machine cleanliness while leaving a protective film on the machine tool.
TRIM® C270 High-performance Synthetic	Synthetic coolant concentrate operates at very high fluid pressures and volumes with little or no foam. Very stab formula; exceedingly long operational life with consistent performance. Our most popular cutting fluid product.
<b>TRIM® C350</b> Premium, High-lubricity Synthetic	Longer tool life, less residual stress on machined parts. PRTR compliant; NO chlorine, phenol, nitrite, copper, triazine, silicone; NO NPE or SARA 313 chemistry. Rust protection on aluminum, titanium, nickel, and steel alloys
TRIM® C385 Premium Ferrous Machining Synthetic	Very-high performance, easy-to-use for high-tech ferrous materials including stainless steel and Inconel.® Very high levels of usable lubricity at the point of cut; can be used for honing cast iron.
NEAT OILS	
<b>TRIM® OV 2200 NEW!</b> Premium Vegetable-based Oil	Bio-based straight oil for machining difficult alloys and steels. Environmentally friendly and V.O.C. free. No chlorine, sulfur, or animal fat. Reduces unpleasant odors and residues.
TRIM® OM 287 Versatile Cutting Oil	Contains chlorine and inactive sulfur for multi-metal capability. Works well in modern higher speed "Swiss" machines and machining centers. Very easy to wash off.
TRIM® OM 303 Nonchlorinated Oil	Nonchlorinated medium- to heavy-duty semisynthetic straight oil. Works well in screw machines, roll form threading, and other high-lube operations.





#### Clean and protect with Master STAGES

Master STAGES surface treatments include cleaners and corrosion inhibitors to keep customers environmentally compliant, running at peak performance, and more profitable. Have health or safety issues? High disposal costs? Problems with rust on parts? Whatever the production issue, there's a Master STAGES performance-proven product sure to make the difference. The Master STAGES difference: the right solution for the job at the right price.

#### Master STAGES in-process washing compounds for

- > spray, immersion, or ultrasonic parts cleaning
- > multi-metal operations
- > metalworking fluid removal
- > cleaners with built-in RP
- > water-based RP's
- > vibratory finishing
- > reduced disposal costs

PARTS CLEANERS	
Master STAGES <sup>™</sup> CLEAN 2020 Washing Compound for Ultrasonic and Immersion Washers	Concentrated, very high performance cleaner for washing all metals including brass, copper alloy, and aluminium in ultrasonic or immersion washers. Extraordinary cleaning ability; often results in elimination of cleaning steps or reduced cleaning cycles. Long bath life and economical operation.
Master STAGES <sup>™</sup> CLEAN 2029 "One Step" Parts Washing Fluid Corrosion Inhibitor	High detergent, low foam, and good in-process rust prevention with just "One Step." Mild pH for a safer work environment. Use at 3%–5% and 49°C–82°C (120°F–180°F) for best results and lowest foam.
Master STAGES <sup>™</sup> CLEAN 2115AL Low-foam Spray Washing Compound	Aluminum-compatible, high-performance, low-foam synthetic washing compound; for very high-pressure spray washers, de-burring, and water jet cutting. Exceptional sump life, foam control, and tramp oil rejection.
Master STAGES <sup>™</sup> CLEAN 2430 Near-neutral Washing Compound	Mild pH, highly concentrated, washing compound/corrosion inhibitor for aluminum and steel alloys, cast iron, copper, brass, bronze, and zinc. Great detergency and long life in single and multi-stage spray washers.
Master STAGES <sup>™</sup> CLEAN 3011 Residue-free/Multi-metal Cleaner	Concentrated washing compound/corrosion inhibitor. No foam at room temperature in high-pressure spray washers. Removes light oils, water soluble cutting and grinding fluid residues. Leaves thin rust-inhibiting film.
CORROSION INHIBITORS	
Master STAGES™ RPO 12 Long-term Corrosion Inhibitor	Long-term, indoor rust preventative that leaves a soft, waxy protective film to provide up to 24 months indoor rust protection. Compatible with all metals; can be applied by dip, spray, or brush-on methods.
Master STAGES™ RPO 6BF Barium-free, Low-odor, Corrosion Inhibitor	Nonstaining, water displacing, and thin-film rust preventative for use on a variety of metals, bearings, precision parts. Six to eight months protection for indoor and in-process parts in storage, as well as parts in transit.
Master STAGES™ NOCOR® E6 Low V.O.C. Emulsion,Corrosion Inhibitor Concentrate	Super-concentrated, barium-free, water-based emulsion protects steel and ferrous metals for up to six months indoors at dilutions of 4%–16%. Low V.O.C., economical. Moderate pH, very low odor, nonflammable.
Master STAGES™ NOCOR® S2 Water-soluble Corrosion Inhibitor	Use NOCOR S2 at 3%–7% in water for up to two months indoor rust prevention. Barium free, low V.O.C., and economical to use. Can be used in rinse stage of parts washers.
MAINTENANCE CLEANERS	
Master STAGES <sup>™</sup> Task2™ Grime Fighter Master STAGES <sup>™</sup> Task2™ All Purpose Cleaner Task2™ Glass Cleaner	Super concentrated, industrial strength cleaner/degreaser. Safe on all metals. For removal of heavy, oily, or greasy soils. Spray bottle cleaning of machines. For cleaning glass and plastic surfaces.
Master STAGES <sup>™</sup> CLEAN F2 <sup>™</sup> Non-butyl Multi-purpose Cleaner	Strong and super concentrated for use on floors and hard surfaces. Very economical to use and safe for human contact at 20% concentration!
Master STAGES <sup>™</sup> Whamex <sup>™</sup> Machine Tool Sump and System Cleaner	Safe, fast-acting concentrated formula saves machine cleaning downtime while removing the oily residues, scums, and insoluble soap deposits that reduce coolant life.
Master STAGES <sup>™</sup> Whamex <sup>™</sup> XT For Semisynthetics and Synthetics	Same safe, fast-acting concentrated formula as Whamex yet made for synthetics and semisynthetics.  Nonfoaming; saves machine cleaning downtime, removes oily residue and scum and extends coolant life.
Master STAGES <sup>™</sup> CLEAN AMO <sup>™</sup> Natural-solvent Cleaner and Degreaser	A maize 'N Orange.™ Natural solvent cleaner that can be mixed with water and used for a wide range of industrial cleaning jobs. Outstanding at removing oily, greasy, or resinous soils at room temperature.





## *Increase profitability with XYBEX*

Master Chemical, the pioneers of coolant technology, also invented systems for recycling those same coolants and even cleaners. Since properly maintained coolant can last almost indefinitely, a fluid management and recycling program using XYBEX equipment pays for itself with savings in material costs, disposal expense, and reduced downtime.

Maximize your productivity and minimize waste with XYBEX fluid recycling equipment from Master Chemical, The Coolant Managment Company®.

#### XYBEX equipment to maximize productivity, minimize waste

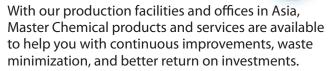
Some examples of our full line of quality equipment:

- A. XYBEX System 600
- **B.** 120V Electric Yellow Bellied Sump Sucker<sup>™</sup>
- C. Li'L Sucker™
- **D.** MCC Reversible LIQUI-VAC™
- **E.** Master Coalescer II<sup>™</sup>
- F. SCROUNGER® Jr. Oil Skimmer
- G. UNIMIX™
- **H.** Master Mix<sup>™</sup>



### Committed to your business

E.



For prices or additional information, contact your Master Chemical Corporation Distributor.

I.

#### www.masterchemical.com