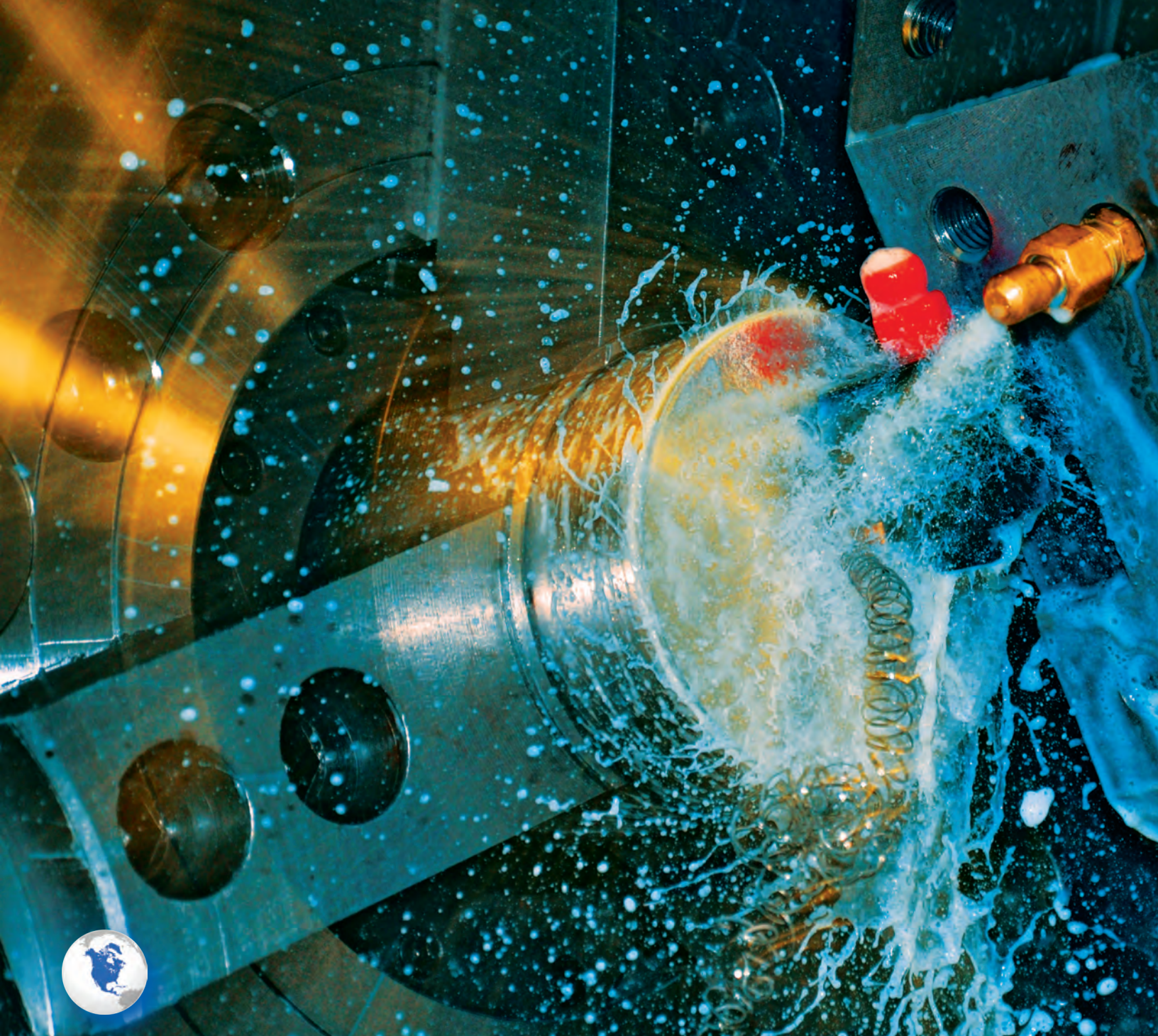




*Improve Your Performance
Streamline Your Production
Enhance Your Profitability*





TRIM® Family of Products – The Solutions You Need



CUTTING & GRINDING FLUIDS

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® 590XT <i>Advanced Technology Aerospace Semisynthetic</i> NEW!	Specifically designed for aerospace; protects sensitive alloys from surface stains and corrosion. Maximum lubricity. Unsurpassed sump life and foam control. No boron or DCHA, no need for tankside additives.
TRIM® MicroSol® 690XT <i>High-lubricity, Low-foam Premium Semisynthetic</i>	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 <i>Nonchlorinated Semisynthetic</i>	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.
TRIM® MicroSol® 485 <i>Long-life Ferrous Semisynthetic</i>	Microemulsion, ferrous-metalworking coolant optimized for difficult cast iron working environments. Prevents leaching of elemental iron and thus eliminates clinkering and oxidation of ferrous micro fines. Value-priced.
COOLANTS/EMULSION	
TRIM® E925 NEW! <i>Chlorine-free, High-performance Emulsion</i>	Superior finish on aerospace titanium and aluminum alloys, exotics, stainless, and high tensile strength steels. Exceptional performance and sump life with more lubricity to the point-of-cut.
TRIM® E850 <i>Premium Emulsion</i>	“Green” vegetable-based technology. Easy-to-maintain. Mild contact nature. Low initial-charge odor. Excellent lubricity delivers premium surface finish on aluminum alloys, exotics, stainless, and high tensile strength steels.
TRIM® E906 <i>Premium, Low-foaming Emulsion</i>	The newest technology for emulsion-based cutting. Consistent machining and grinding for a wide range of materials and applications. First choice for aerospace, automotive, energy manufacturers, and specialty job shops.
TRIM® E206 <i>Long-life Emulsion</i>	Highly stable emulsion for superior sump life and low mist/low carryoff. Excellent for high-speed milling and turning in most materials. Higher speeds and feeds, long sump life, and low use rates mean higher productivity and profits.
TRIM® VHP® E814 <i>Very High-pressure Emulsion</i>	Chlorine-free, low-to-no foam, high-volume; performs on high-speed through-the-tool coolant delivery systems on VMCs and HMCs. Environmentally friendly. Compatible with all metals and nonmetallic materials.
COOLANTS/SEMISYNTHETIC	
TRIM® SC620 <i>Premium Low-oil Semisynthetic</i>	High lubricity, low foam, low odor semisynthetic for high-performance machining and grinding. Rejects tramp oil and extends coolant life; save time and material. Finishes rival those of soluble oils, multi-metal compatibility.
TRIM® SC520 <i>General-purpose Semisynthetic</i>	Low odor, low cost for the multi-material, multi-operational shop. Controls built-up edge, improves tool life. Superior machining results on high-speed milling and turning. Controls chip welding on soft, gummy materials.
COOLANTS/SYNTHETIC	
TRIM® C380 <i>Premium Ferrous Machining Synthetic</i>	Very-high performance, easy-to-use for high-tech ferrous materials including stainless steel and Inconel® (widely used in aerospace, medical, and electronics industries). Very high levels of usable lubricity at the point of cut.
TRIM® C350 <i>Premium, High-lubricity Synthetic</i>	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® C270 <i>High-performance Synthetic</i>	Synthetic coolant concentrate operates at very high fluid pressures and volumes with little or no foam. Very stable formula; exceedingly long operational life with consistent performance. Our most popular cutting fluid product.
TRIM® C115 <i>Synthetic</i>	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.
STRAIGHT OILS	
TRIM® OV 2200 <i>Premium Vegetable-based Oil</i>	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 <i>Versatile Cutting Oil</i>	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 <i>Nonchlorinated Oil</i>	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™ CLEAN 2017 <i>Heavy-duty Spray Cleaner</i>	Removes heavy soils and oily residue from ferrous and magnesium parts. Often used in rebuild operations and for cleaning up cast iron, stamped or drawn steel parts, or removing heavy RP coatings.
Master STAGES™ CLEAN 2029 "One Step" <i>Parts Washing Fluid Corrosion Inhibitor</i>	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 120°F–180°F (49°C–82°C) for best results and lowest foam.
Master STAGES™ CLEAN IP 2019s <i>Silicated Low-foam Cleaner</i>	Very low foaming, concentrated. Remove straight oils and coolants from steel, cast iron, and most aluminum parts. An excellent cleaner and very economical. Rejects oil for easy skimming or centrifuging to extend bath life.
Master STAGES™ CLEAN 2030 <i>Ultrasonic and Immersion Washers</i>	Concentrated, very high-performance cleaner for washing all metals including brass, copper alloy, and aluminum in ultrasonic or immersion washers. Oil-rejecting properties for longer bath life and economical operation.
Master STAGES™ CLEAN 2430 <i>Near-neutral Washing Compound</i>	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™ CLEAN 3011 <i>Residue-free/Multi-metal Cleaner</i>	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 6BF <i>Barium-free, Low-odor, Corrosion Inhibitor</i>	Nonstaining, water displacing, thin-film rust preventative for use on a variety of metals, bearings, and 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 <i>Low V.O.C. Emulsion, Corrosion Inhibitor Concentrate</i>	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, and nonflammable.
Master STAGES™ NOCOR® S2 <i>Water-soluble Corrosion Inhibitor</i>	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.
Master STAGES™ NOCOR® 02 <i>Barium-free, Low-odor, Corrosion Inhibitor</i>	Barium-free, nonstaining, water-displacing multi-metal RP with high flash point. Dip, spray, brush, flow coat, or wipe application on ferrous/mixed metals. Up to two months indoor rust prevention.
MAINTENANCE CLEANERS	
Master STAGES™ Task2™ Grime Fighter Master STAGES™ Task2™ All Purpose Cleaner Master STAGES™ 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™ CLEAN F2™ <i>Non-butyl Multi-purpose Cleaner</i>	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™ Whamex™ <i>Machine Tool Sump and System Cleaner</i>	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™ Whamex™ XT <i>For Semisynthetics and Synthetics</i>	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™ CLEAN AMO™ <i>Natural-solvent Cleaner and Degreaser</i>	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.



XYBEX®
Fluid Recycling Equipment



FLUID RECYCLING EQUIPMENT

Increase profitability with XYBEX

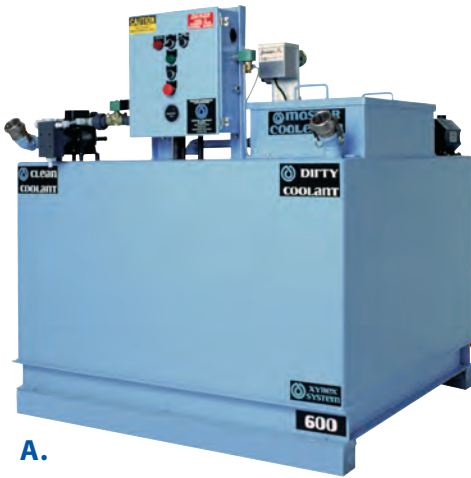
Master Chemical, the pioneers of coolant technology, also invented systems for recycling those same coolants and even cleaners. Since properly maintained coolant can last almost indefinitely, a fluid management and recycling program using XYBEX equipment pays for itself with savings in material costs,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

Maximize your productivity and minimize waste with XYBEX fluid recycling equipment from Master Chemical, *The Coolant Management 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™
- C.** Li'L Sucker™
- D.** MCC Reversible LIQUI-VAC™
- E.** Master Coalescer II™
- F.** SCROUNGER® Jr. Oil Skimmer
- G.** UNIMIX™
- H.** Master Mix™
- I.** The Whammer™
- J.** Palm Abbe™ Digital Refractometer



A.



B.



C.

D.



E.



F.



G.



H.



I.



J.

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



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