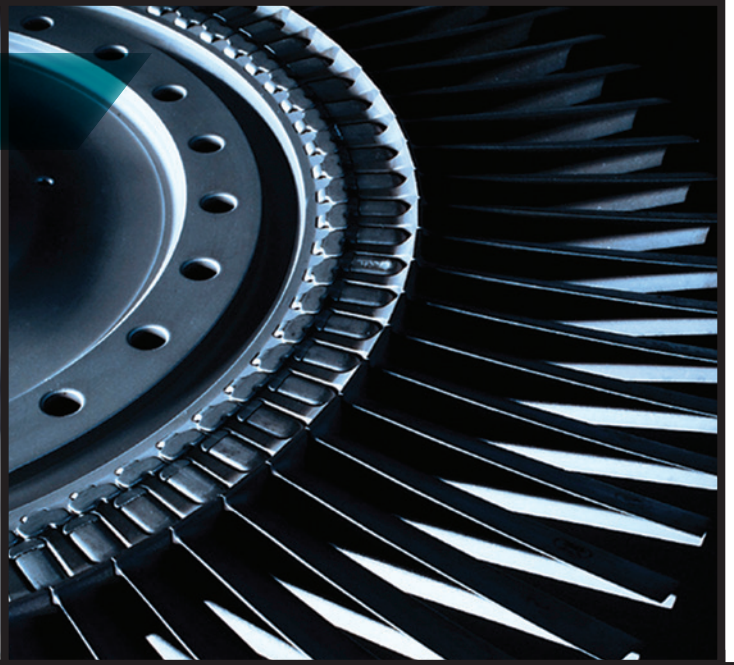




Master Fluid SOLUTIONS®

TRIM® Straight Oils



An Innovation in Oil

Experts in the field of metal cutting and grinding operations, Master Fluid Solutions is committed to research and development and the use of the premium raw materials and production methods.

TRIM® straight oils blend superior synthetic and semisynthetic, hydrocracked base fluids with carefully selected "intelligent" additives to improve cutting and grinding performance and ensure products consistently exceed market expectations.





TRIM straight oils outperform standard mineral oil-based products due to:

- > vastly reduced oil consumption – lower operating cost
- > higher flash points – less fire risk
- > very low or no mist even at high pressures – safer working environment
- > free from polycyclic aromatics – improved operator safety
- > very low odor and light color – better operator acceptability
- > lower foam – improved cutting and grinding performance

Whether you are superfinishing or gear hobbing, the innovative range of chlorine free Master Fluid Solutions TRIM straight oils offer you the best-in-class option.

TRIM® Straight Oils

Product	Physical Properties		Chemical Properties				Performance					
	cSt @104°F (40°C)	Color	Flash Point °C	Flash Point °F	Extreme Pressure	Base Fluid	Ferrous	Carbide	Aluminum	Alloys	Ceramics	Exotics
TRIM® OE209	8.7	Colorless	200	392	EP	Saturated Esters	***	***	***	**	***	**
TRIM® OE310 NS	10.6	Straw Yellow	250	482	EP	Ester	**		***	**		***
TRIM® OE315 NS	15.0	Straw Yellow	230	446	EP	Ester	**		***	***		***
TRIM® OM 287	20.3	Brown	152	305	EP	Mineral Grp I Hydrocracked	***	**	***	***		**
TRIM® OM 100	20.9	Clear Amber	165	330	-	Mineral Grp I/II Hydrocracked	***		**	**		*
TRIM® OE322 NS	21.9	Straw Yellow	235	455	EP	Ester	***		***	***		***
TRIM® OV 2200	26.0	Clear Amber	235	455	-	Vegetable Ester	***	**	**	***		***
TRIM® OM 303	32.4	Yellow	169	336	-	Mineral Grp I/II Hydrocracked	***	**	*	***		***

*** Excellent





Applications							Description
Grinding	Honing	Drilling	Broaching	Tapping & Threading	Fine Machining	General Purpose	
***	***	***		**	***	***	Very low misting, synthetic oil-based product for machining/grinding all materials. Well suited to very high-pressure, chip-breaker applications.
**	***	**	*	***	***	***	High lubricity, ester-based fluid for machining all materials. Suitable for heavy-duty machining processes where a light viscosity is also advantageous.
**	**	***	*	***	***	***	High lubricity, ester-based product for machining all materials. Specially suited to heavy-duty machining processes, such as deep-hole drilling and broaching.
*		**	*	**	*	***	Contains chlorine and inactive sulfur for multi-metal capability. Works well in modern higher speed Swiss-style machines and machining centers. Very easy to wash off.
*		*		*	*	**	Straight cutting oil for general machining of all metals including aluminum, copper, brass, and cast iron. Provides excellent lubricity without staining nonferrous metals.
**		***	*	***	**	***	High lubricity ester-based product for machining of all materials. Proven product for machining of high-strength materials, cast metals and gear machining.
**	**	**	*	***	**	***	Bio-based straight oil for machining difficult alloys and steels. Environmentally friendly and V.O.C. free. Nonchlorinated, no sulfur or animal fat. Reduces unpleasant odors and residues.
**	***	***	**	***	*	***	Nonchlorinated medium- to heavy-duty straight oil. Works well in screw machines, roll form threading, and other high-lube operations.

** Good * Suitable



TRIM[®] Straight Oils enhance performance

Whether your precision operation involves gear cutting, hobbing, deep hole drilling, broaching, creepfeed and form grinding, honing, thread rolling, screw machining, superfinishing, other fine machining operations or the heaviest duty cutting applications, there is a TRIM straight oil just right for the job.





Case Study

OPERATION: Drilling various steels and stainless steel

APPLICATION: A West Coast customer who is a very high-volume, precision parts manufacturer, drills steels and stainless steel using TRIM OM 287 straight oil. They have run OM 287 with great success for more than a decade and are completely satisfied with its ability to maintain tight tolerances on their precision parts.

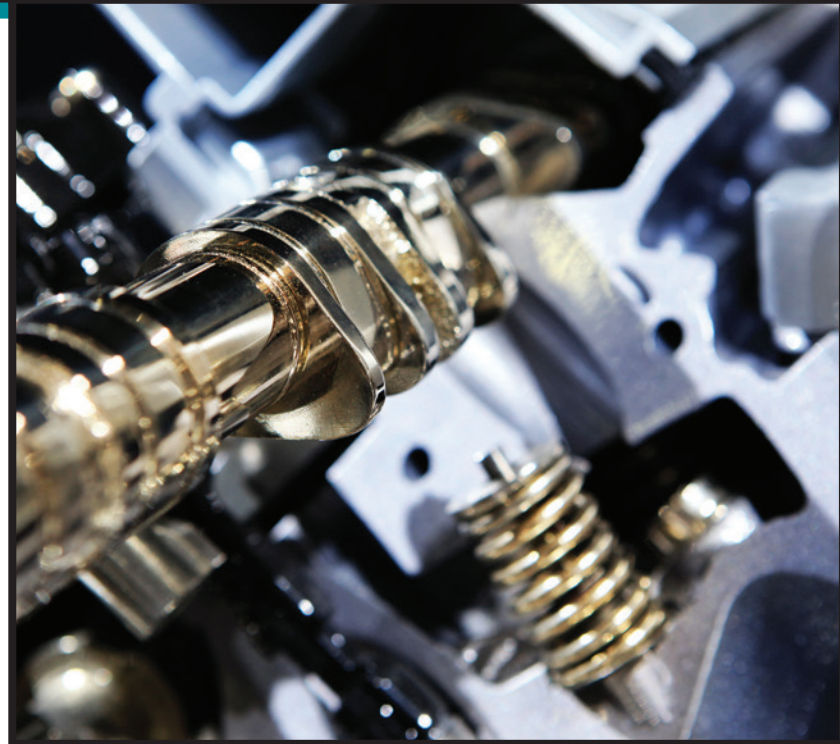
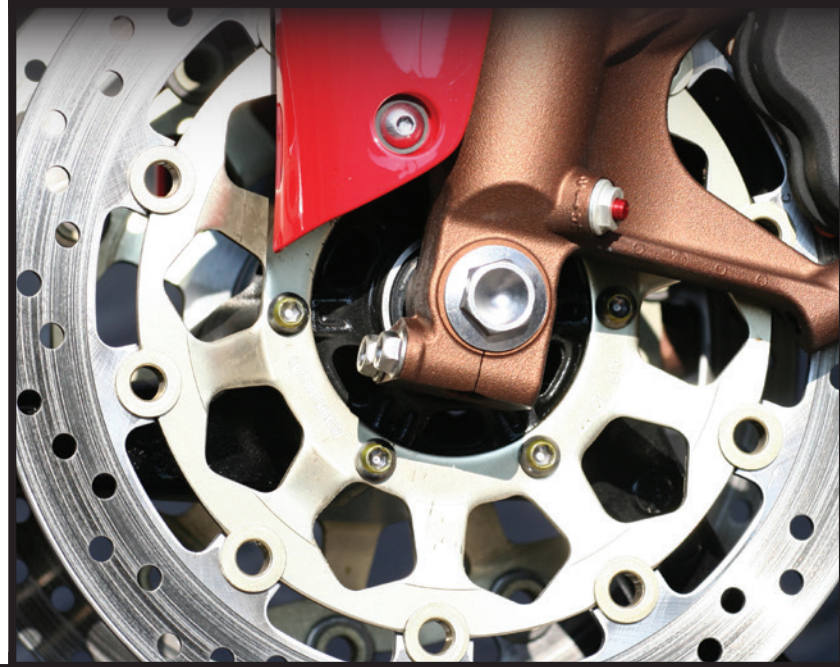
When they switched to OM 287 with its excellent lubricity, they saw dramatically extended tool life, which has added up to significant savings on tooling costs over the past 12 years!

Achieve excellent finishes and tool life with dependable OM 287 straight oil.

Contact us

Let us create a detailed, fact-based, customized analysis to prove just how much we can save your operation in time, material, and cost, while improving quality, with the premium coolant just right for your production.

For prices or additional information, contact your Master Fluid Solutions Representative.



www.masterfluids.com/na/en-us/

