



WATER-SOLUBLE METALWORKING LUBRICANT SOLUTIONS



WATER-SOLUBLE CUTTING FLUIDS

Our cutting and grinding fluids range, Millcool and Millgrind are designed for varying material and operation stability. We consider every part of your lubricant strategy and budget requirements, working to your goals, whether that's to improve tool life, environment standards or deliver a better finish.

Product	Technology	Unique Advantage
Millcool TS	Mineral	High oil content for lubricity. Reliable for general sawing, drilling, turning and milling applications.
Millcool MP	Semi-synthetic	Multi-metal use, low oil content and optimised cooling properties. Ester content provides better lubricity and a cleaner environment.
Millcool 20	Semi-synthetic	Multi metal use, good performance in hardwater areas and foam control.
Millcool EP	Semi- synthetic Extreme pressure	Great for handling arduous, high loads. Recommended for difficult ferrous work.
Millcool BFF	Semi-synthetic Ester Boron free	Excellent surface finish on aluminum and mixed metal. Good foaming control. Boron free avoids sticky residue build up and better health and environment conditions for operators.
Millcool BFF Extra	Semi-synthetic Ester Boron free	All the benefits of Millcool BFF but with an extra oil film strength for higher-severity central system use.
Millcool Synth FF	Fully synthetic	Clean oil free formulation, with longer life capabilities. Readily biodegradable.
NEW Millcool BioSyn 10	Fully synthetic Ester	Premium finish for precision machining. Ester containing, oil and boron free giving lower misting, cleaner machines and COSHH aligned environmental benefit.
Millgrind G Syn	Fully synthetic	Oil free fluid, purpose built for grinding.

LUBRICANTS ENGINEERED TO PERFORM UNDER PRESSURE

Founded in 1887, Millers Oils has spent more than a century advancing high performance lubrication for industrial manufacturers. From early machine shops to today's high precision CNC environments, our formulations have evolved alongside the demands of cutting, shaping, grinding, forming and finishing metal. What hasn't changed is our commitment to deliver:

- **Innovation** — Advancing lubrication chemistry to meet the pressures, speeds and temperatures of modern machining.
- **Quality** — Precision engineered products that meet OEM expectations and deliver consistent performance.
- **Service** — Technical support that goes beyond supply, helping manufacturers optimise processes, tool life and fluid stability.

At the heart of our development is expert formulation built for the realities of metalworking. Our products are engineered to perform under extreme load, high shear and aggressive heat cycles, protecting tooling, improving surface finish and keeping machines running cleanly and reliably.

Our range is designed to tackle the challenges metal workers face daily, from maintaining sump health to achieving tighter tolerances and reducing downtime. We bring a blend of science, craft and application expertise, working together to enhance cooling, improve lubricity and combat corrosion.

METALWORKING

Water Soluble Cutting/Grinding Fluid

- Millcool Range
- Millgrind

Mixer

- Dosatron Mixer
- A900V Venturi Mixer

Tramp Oil Removal

- Oil Belt Skimmer

Condition Monitoring

- Refractometer
- pH Papers
- Dip Slides
- Auditable & Magnetic Coolant Reports

HYDRAULIC SYSTEM

A range of hydraulic oils that meet the performance requirements of industry/manufacture specifications, available in varying viscosities from ISO 2 – 100.

HLP

- Millmax

HLP ZF

- Millmax ZF

HVLP

- Millmax HV

Longlife

- Millmax Longlife

Biodegradable

- Millmax SE BIO

Fire Resistant

- Millmax HFD(u)

SPINDLE

A range of spindle oils available in varying viscosities from ISO 2 – 15.

- Millmax Range
- Millmax ZF Range
- Millmax HV Range

GEARBOX

A range of gear oils that meet the performance requirements of industry/manufacture specifications, available in varying viscosities from ISO 68 – 680

Mineral

- Millgear EP

Synthetic Polyalphaolefin (PAO)

- Millgear SHC

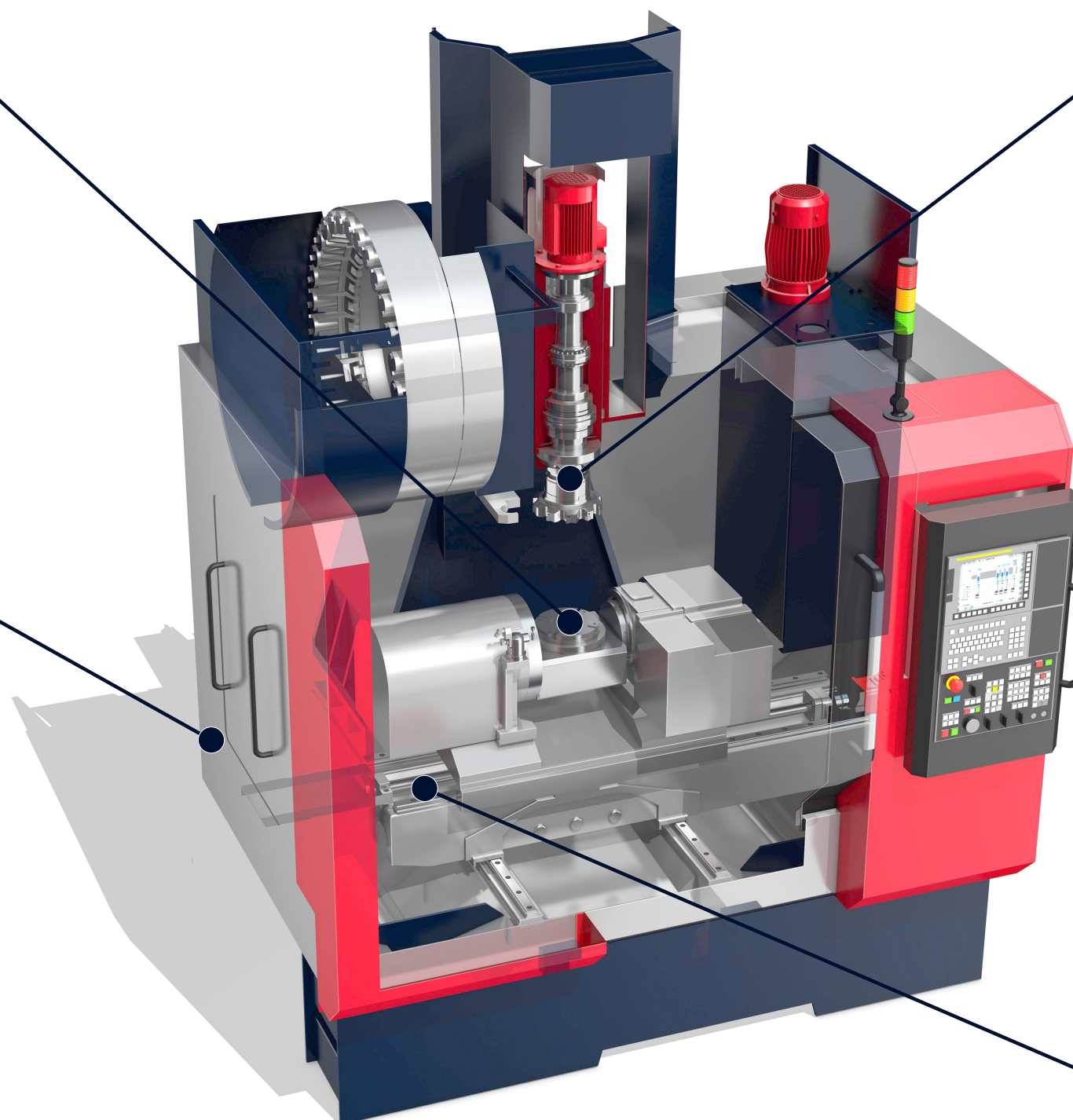
Synthetic Polyalkylene Glycol (PAG)

- Millgear SY

SLIDEWAY

A range of slideway oils available in varying viscosities from ISO 32 – 220.

- Millway Range



Visit www.millersoils.co.uk for the full range of Millers Oils products.

FLUID MANAGEMENT: KEEP FLUIDS OPERATING AT THEIR BEST



COSHH Compliance

Protecting the health and wellbeing of your staff starts with the condition of your metalworking fluid. Regular fluid maintenance including monitoring of concentration, pH and bacterial contamination is essential to meeting HSE and COSHH requirements — and to reducing the risk of skin irritation, dermatitis and respiratory issues caused by poorly maintained fluids.

Because the composition of metalworking fluids naturally changes during use, proactive monitoring becomes a key part of safeguarding your workforce. Effective fluid care helps prevent harmful bacterial growth, maintains a safe working environment and supports your duty of care as an employer.

Our team provides the expertise and equipment needed to look after the health of your fluid system, including routine checks, record keeping, full tank cleans and chemical treatments. By keeping your fluids in good condition, you protect your people first while also maintaining machine efficiency as a result.



Refractometer Reading & pH Testing

Controlling the fluids concentration and pH helps keep the coolant in good condition and maximises sump life & performance. Low concentration will reduce the performance of the fluid and could result in corrosion or microbial growth leading to the possibility of the emulsion splitting. A high concentration can lead to potential skin irritation and increase the chance of foaming and higher usage costs. A drop in pH can signify an increase in bacteria levels and a rise in pH could mean contamination. We are here to take out the guesswork.



Dip Sliding

Dip slides are an important part of managing water soluble cutting fluids. Monitoring bacteria & moulds within the fluid, helps to keep the operator safe and prolong the sump life & performance of the fluids, while keeping within the guidelines of the HSE MW5 guidance. Our technicians will set up regular dip sliding as part of the maintenance strategy that can be tested in our on-site laboratory.



Clean Outs

No matter how well metal working fluids are managed and maintained we generally advise an annual clean out. This is mainly due to unavoidable swarf build-up within the sump, reducing the fluids volume. Our Fluid Management technicians can help take the hassle out of cleaning machine sumps and keep downtime to a minimum. Once the technicians have finished cleaning the machine sump, they will then refill at the correct concentration, removing the waste and providing the relevant waste paperwork.



At Millers Oils, it's never just about what we blend — it's about the expertise behind every formulation. We're more than a lubricant supplier; we're a performance partner.

Whether you need technical product guidance or ongoing maintenance support, we're here to protect your machines, your tooling and your productivity, far beyond the oil itself.

- We don't just supply fluids we engineer metalworking solutions and maintenance strategies
- Our technical team aligns recommendations with your machines, materials, operations and performance targets
- All blending and testing is carried out on site in Brighouse West Yorkshire for full quality control
- We operate our own laboratory and R&D facilities to continually refine performance
- We deliver nationwide and globally, supporting customers across all metalworking sectors
- We support you through every stage from product selection and integration to ongoing monitoring and optimisation



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All products and information are reflective of the latest specifications at the time of going to print. The company reserves the right to change formulations and specifications without prior notice. Product images are shown for illustration purposes only.

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MADE IN BRITAIN



MillersOilsLtd