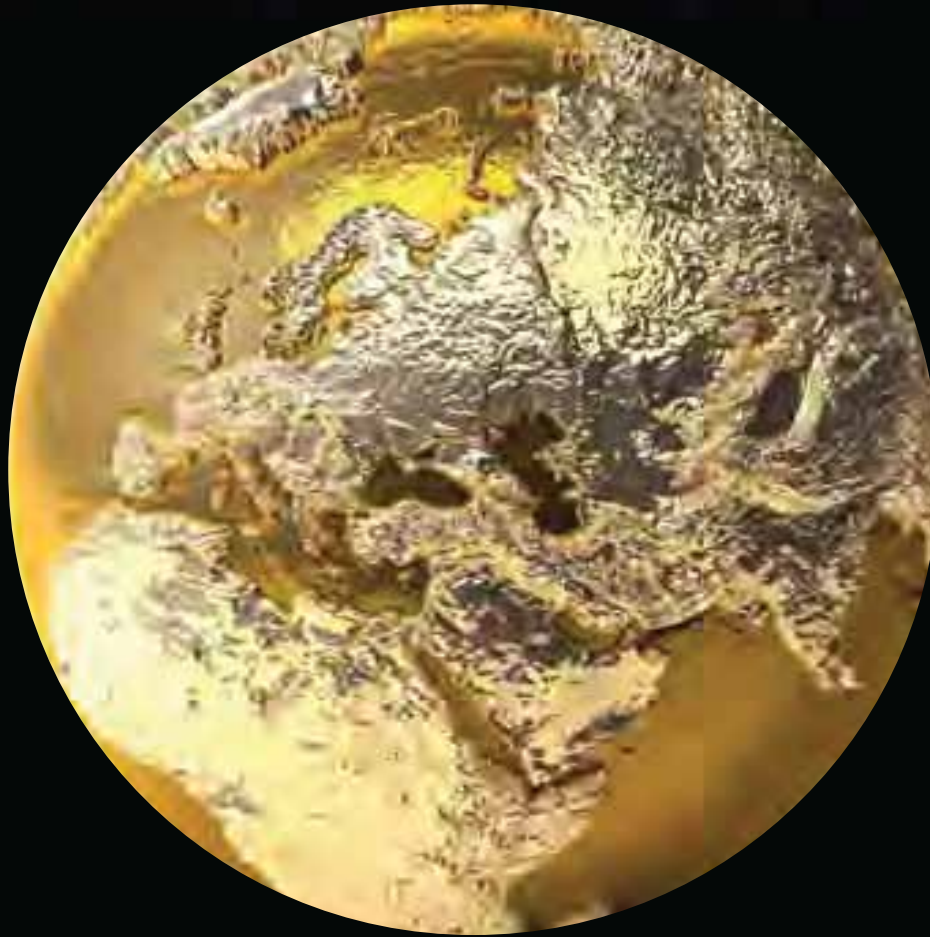


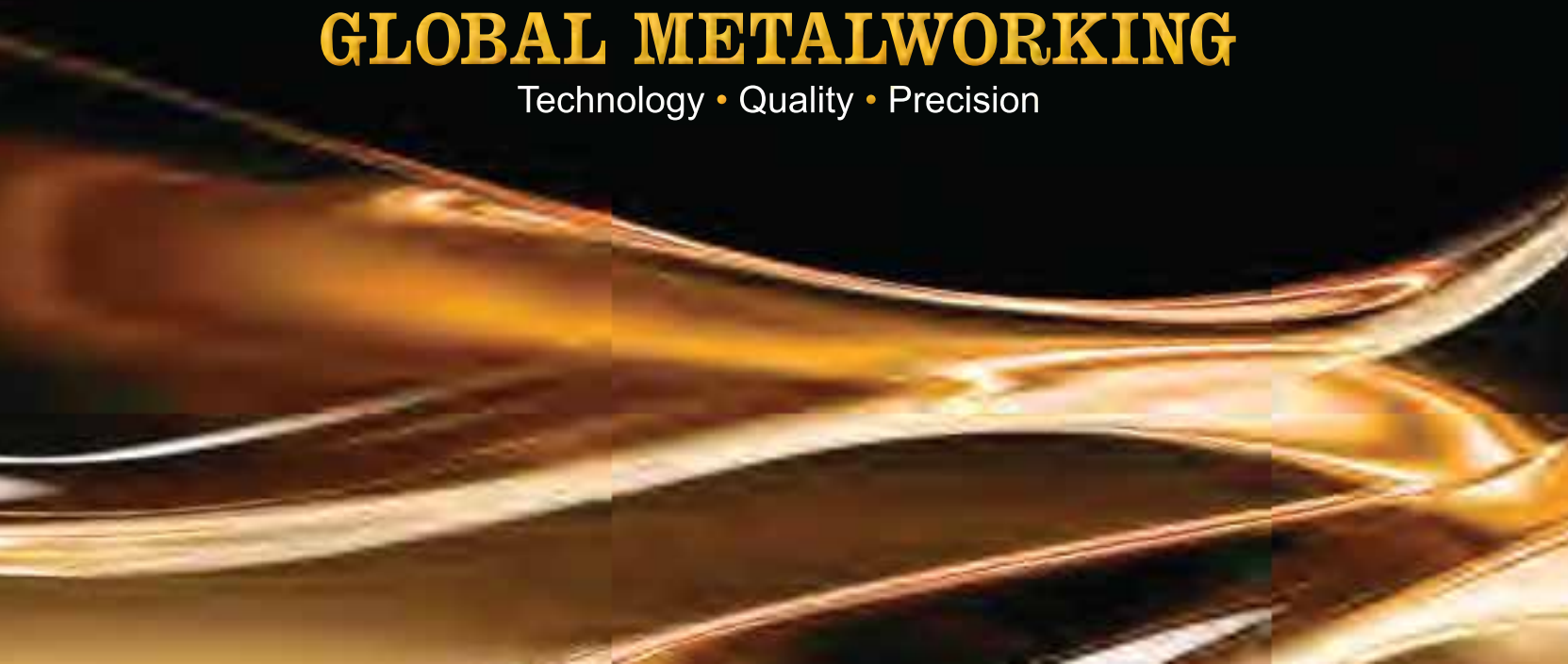


A Better Class of Oil



**GLOBAL METALWORKING**

Technology • Quality • Precision



## **GOLD** - HSE compliance through training & condition monitoring

**GOLD** - HSE compliance through training & condition monitoring assists Penrite customers to correctly maintain and control metalworking products. This is becoming ever more critical as they strive to take the necessary steps to comply with strict HSE metalworking fluid user's guidelines.

At a time when available customer labour resources are stretched to their maximum, having Penrite Oil Field Service Technicians carry out these tasks and providing detailed, compliant reports helps customers to concentrate on their core activity with complete peace of mind.

Penrite's comprehensively trained Field Service Technicians provide first-class, on-site condition monitoring and advice. They are equipped with a mobile laboratory which includes equipment to check concentration, pH, tramp oil, bacteria, yeast, mould and biocide levels as well as water hardness; to ensure that Penrite customer's metalworking fluid performance maintained at optimum level.




In summary the Penrite Oil **GOLD** - HSE compliance through training & condition monitoring provides our customers with many benefits including:

- n Greater control of metalworking fluid through scheduled condition monitoring
- n Cleaner machine tools
- n Cleaner components
- n Increased tool life
- n Increased machine uptime and production profitability
- n Reduced lubricant consumption through identification of leaks
- n Increased Operator awareness of the need to work safely with metalworking fluids
- n Reduced maintenance costs
- n Detailed historical data per machine tool using 'traffic light system' to show actions required
- n Protection from HSE non-compliance inspection

## **SILVER** - HSE compliance through scheduled sample analysis & reporting

Some customers prefer to maintain and control their own metalworking fluids. To assist with this Penrite Oil has developed the **SILVER** - HSE compliance through scheduled sample analysis & reporting service, whereby the customer simply purchases a Penrite sample kit including bottles, labels and thief pump (only required on first order) and then takes samples from each machine tool on a pre-established basis.

The samples are simply posted to our off-site condition monitoring service where tests are conducted to determine concentration, pH, tramp oil level and the presence of bacteria, yeast & mould. Using a user name and password, the results of the above tests can be accessed 24-hours after they have been received, with the system also providing full and comprehensive historical data per machine tool. The fluid condition is shown using a simple but very effective 'traffic light system' with results as follows:

-  Clean out required
-  Amend concentration/add tank-side additive/remove tramp oil
-  Fluid in good condition





# PLATINUM - Fluid management

For customers striving to reduce operational costs, Penrite's dedicated programme, **PLATINUM - fluid management** will significantly increase process efficiency whilst enhancing the quality of finished components.

Penrite recognises that the critical start point for any fluid management programme is open and honest dialogue between customer and supplier. This dialogue helps Penrite learn the precise, individual needs of the customer. At this point, Penrite will establish base-line data for costs per production unit and, once the programme begins, set about systematically reducing costs year after year.



Crucially, the process should involve customer representatives at all levels to implement process changes such as extending metalworking fluid and lubricant life-cycle, usually by replacing a mediocre product with a higher performing and longer lasting one. In this way, costs start to drop significantly.

Many of our initiatives target health, safety and environmental issues which can often be easily resolved through detailed planning and by implementing changes through funded projects.

Penrite's aim is to become an integral part of the customer's operation through listening to needs and aspirations and then committing to, and delivering, a programme of change. In short, our **PLATINUM - fluid management** allows the customer to focus on 'core activity', safe in the knowledge that a trusted partner is ensuring that all contracted duties in the change programme are in safe hands.

- n Dedicated on-site Fluid Technicians
- n Lubrication surveys
- n Inventory control
- n Storage & handling equipment
- n Spill control equipment
- n Coolant, cleaning, mixing & distribution systems
- n Machine clean outs and re-fills
- n Oil and coolant recycling
- n Management of waste oil
- n Coolant top ups
- n Filter clean outs and changes
- n Lubricant top ups and changes
- n HSE compliance condition monitoring of metalworking fluids
- n Sample analysis & reporting
- n Thermography / vibration analysis
- n Oil mist checks
- n COSSH management & REACH compliance
- n Risk assessment management
- n Visual data and signage
- n Operator and supervisor training programmes
- n Cost reduction programmes and project management
- n Management reporting
- n Historical data collection

# PRODUCT RANGE



- Milling
- Drilling
- Turning
- Grinding
- Honing
- Reaming
- Planing
- n VIPER Grinding
- n Threading
- n Sawing
- n Reaming
- n Gun Drilling
- n Planing

**Soluble Cutting and Grinding Fluids**



- n Grinding
- n Honing
- n Auto Machining
- n Turning
- n Gun drilling
- n Gear Cutting
- n Broaching
- n Spray Mist
- n Deep hole boring
- n Milling
- n Drilling
- n Tapping
- n EDM Machining

**CUT-RITE Neat Cutting Oils**



- Pressing
- Piercing
- Extrusion
- Blanking
- Stamping
- Forming

**FORM-RITE Forming Lubricants**



- n Standard speed
- n Accelerated speed
- n Induction hardening

**QUENCH-RITE Quench Oils**



- Short term
- Medium term
- Long term
- De-watering
- Alkaline
- Oil emulsion - short term

**PROTECT-RITE Corrosion Preventatives**



- n Parts wash
- n Floor
- n Hard surface
- n Hygiene products
- n System Cleaner

**CLEAN-RITE Cleaning Chemicals**



- n Hydraulic
- n Gear
- n Slide-way
- n Spindle
- n Airline
- n Fire Resistant Hydraulic

**INDUS Maintenance Lubricants**

