

KleinPROTECT



Protective – Lubricant for tools

Must be used after washing tools before storing them and it is strongly recommended in a humid environment.

Shake very well before use. Spray on the tool/metal part from a distance of 20/30 cm. To clean up the product before spraying it again, just use a cloth or absorbent paper.

KleinPROTECT is a mix of lubricants, solvents and corrosion inhibitors giving a remarkable protection against rust and oxidation. The presence of P.T.F.E. gives the compound also an effective anti-seize property. KleinPROTECT removes easily and rapidly any residues of grease, coolant and synthetic compound. KleinPROTECT prevents moisture and water condensation in case of difficult weather conditions and protects from rust and corrosion.

Applications

Saws, Cutters, Drills, Knives,
Spring collets and collet chucks,
Pneumatic tools, feeding and sliding mechanisms,
Weapons and relating parts, Hinges and springs,
Automatic dispensers,
Ball bearings.

- Removes easily and rapidly any residues of grease, coolants and synthetic compounds.
- If regularly used, protects and prevents from rust and corrosion
- Displaces moisture and condensation in case of difficult weather conditions.
- Extremely efficient on every metal surface
- Can be applied also on alloys containing copper, magnesium, nickel, steel, stainless steel, titanium and zinc, or polymers and elastomers.
- Can be used on all types of delicate machinery and mechanisms for weapons (according to U.S. Army specifications USA VV-L-800-C / P9- K9 / MIL-P-116-5 NATO CODE Number 0/190).

KleinWASHER

Automatic Washing Machine

Developed for cleaning tools of different dimensions, also gorups for window, KleinWASHER is easy to be installed and set up.

Combining high pressure, heath, mechanical action and the chemical property of the detergent (KleinCLEANUP), the result is the total removal of oil, grease, dust and sludges.



KleinCLEANER

Manual Washing Machine

Developed for cleaning tools and any metal piece the KleinCLEANER is easy to use with a water jet and a brush



The best products for woodworking and protection of tools

See section 14, our **Catalog 14.A**



KleinDRYUP

Blade and bit cutting lubricant



KleinTOPUP

Table and tool surface lubricant



KleinPROTECT

Protective – Lubricant for tools



KleinCLEANUP

Tool cleaning detergent



KleinWASHER

Automatic Washing Machine

KleinCLEANER

Manual Washing Machine



Other products



SISTEMI

61122 Pesaro - Italy - Via Montanelli, 70

Tel. +39 0721_28950 - Fax +39 0721_283476

info@sistemiklein.com - www.sistemiklein.com



Klein DRYUP

Blade and bit cutting lubricant

It dries in a few seconds and even used many times does not form additional layers.

Clean blade or bit with a degreasing agent (our detergent (KleinCLEANUP)). Spray a thin, even coat over the entire blade or bit, including the gullets and especially the cutting edge. Allow a few seconds to dry. For best results: After several cuts, re-spray entire blade or bit. Reapply daily, or more frequently based on workload and material being cut.

Klein DRYUP bonds to the microstructure of metal in saw blades, drills and router bits, enabling them to better withstand the extreme pressure and friction of high-speed cutting. The treated surface becomes highly lubricious and more resistant to erosion and resin build-up, granting cleaner and straighter cuts. Klein DRYUP forms a clear, tough, micro-thin coating which reduces cutting friction by 30% and prevents from erosion of the tools from acids in the wood, extending overall cutting edge life up to 300%.

Klein DRYUP improves overall yield, saves plenty on blade cleaning and replacement and increases productivity by cutting downtime on blade changeovers.

Applications

Table and Panel Saws, Gang Rip Saws and Jointer Shapers and Band Saws, Edgers
Pneumatic tools: Slide Magazine, Feed Mechanism, Nosepiece, Feed Spring.
Plinjection Molds, Printing Plates.
Printing & Binding Uses:
Sliding Surfaces, Conveyor Roller.

- Prevents resin build-up. Reduces blade cleanings.
- Extends overall life of blades and bits by up to 3 times!
- More than doubles time between sharpenings.
- Contains NO silicone or petroleum oil. Will not stain wood or interfere with glues or finishes.
- Reduces cutting friction and heat by 30%.
- Prolongs equipments life by reducing saw or drill motor drag by up to 25%.
- Increase productivity by less downtime for saw blade chargeovers.
- Works equally well on steel or carbide, stellite and diamond-tipped cutting blades.
- Environment-friendly, doesn't contain CFCs or any other ODS.



Klein CLEANUP

Tool cleaning detergent

Use for cleaning tools, devices, metal parts and motors.

Can be dispensed manually, with a brush or spray gun, or in a tool washer, either manual (KleinCLEANER) or automatic (KleinWASHER). Depending on application, KleinCLEANUP must be diluted with water to a concentration from 5% (1 liter of detergent each 19 liters of water) to 35% (1 liter of detergent each 2 liters of water). The more diluted the more save of costs.



Klein TOPUP

Table and tool surface lubricant

Regularly used on machine tables it reduces considerably the sliding friction.

To Reduce Friction: Clean saw table or tool surface thoroughly with a degreasing agent. Spray a thin, even coat over entire surface. Allow a few seconds to dry to a haze. Rub in lightly with a clean, dry cloth. After a few minutes, buff to a shine. For Best Results: Re-spray a second coat. Reapply weekly or more frequently based on work load.

Klein TOPUP forms a durable, water repelling dry film that dramatically reduces sliding friction on saw tables and tool surfaces. Klein TOPUP on your machine table even the heavier wood panels will slide easily and your cuts will be more precise and with fewer hang-ups. Patented Fluoropolymer technology not only reduces considerably sliding friction but also repels dust, dirt, moisture and prevents corrosion. Not containing silicone or petroleum, it does not stain wood or interfere with glues or finishes. It does not contain any CFCs or ODS that can harm the environment.



Applications

Table and Panel saws, Rip and band saws, Mitters
Hand Tools, Electric Portable Tools, Lathes
Planers, Injection Molds, Printing Plates
Pneumatic tools:
Slide magazine, feed mechanism, nosepiece, feed spring
Printing & Binding uses, Sliding Surfaces
Conveyor Roller.

- Eliminates "hang-ups" on sliding surfaces.
- Protects all tools and equipment from rust.
- Up to 30% slicker than paste wax.
- Prevents rust 5 times longer than paste wax or silicone.
- Easier and quicker to apply than paste wax.
- Lasts 3 times longer than paste wax.
- Contains no silicone or petroleum oil.
- Will not stain wood or interfere with glues or finishes.
- Environmentally safer aerosol, no CFC' or ODC's.

KleinCLEANUP is a water-based detergent, recommended for cleaning tools, also mounted on groups for windows, metal parts, equipment, motors or any mechanical piece. KleinCLEANUP can also be used for cleaning aluminium parts, which can corrode or become matt with traditional detergents. Thanks to not foaming components and innovative anti-corrosion additives, KleinCLEANUP gives furthermore an excellent protection from rust.

Applications

Saws, Cutters for routers and drills for boring machines
Router bits, Groups for windows
Cutterheads, Spring collets and collet chucks
Knives, Shears, Chains, Pulleys
Gear wheels, Mechanical parts.

- Water-based detergent for cleaning tools
- Recommended for removing resins or sludges from tools
- No matting or corroding effect
- Not foaming
- Not flammable, doesn't contain solvents
- Biodegradable
- To be used also on washing machines
- To be used on any mechanical part or tools, also groups for windows