

# SKF VectoLub

External minimal quantity lubrication,  
for oil with a viscosity between 10 and 400 mm<sup>2</sup>/s



The eMQL system SKF VectoLub is a clean and economical alternative for lubricant projection in minimal quantity.

An eMQL system can be used in many areas:

- Machining - Sawing, drilling, tapping, milling, bar turning, drawing, cutting, punching, stamping...
- Car industry - Motor oiling, components assembling, lubrication of conveyor chain...
- Food industry - Lubrication of conveyor chain, of conditioning lines
- Aeronautical industry - Drilling, assembling
- Printing industry - Lubrication of cutting tools, of folding machine

## Advantages

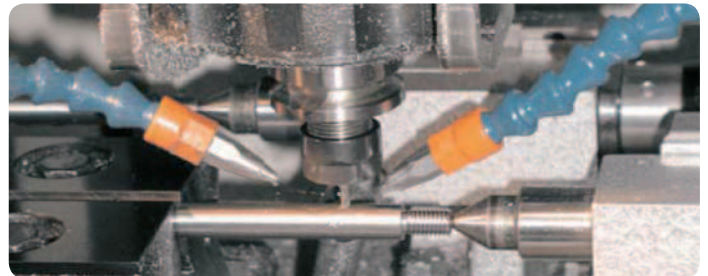
- Higher machining performance (higher speeds when cutting and parting).
- Better surface finish thanks to lower friction-induced temperature.
- Long tool life, mainly when high-frequency machining is involved.
- Exact adjustment of delivery rate saves lubricant.
- The lubricant is consumed during the machining process. No residue is left on the workpiece or chips. No disposal of lubricant residue, no degreasing of parts and chips.
- Greater safety and environmental hygiene at the workplace. No mist, clean air to breath.

## The SKF VectoLub technology

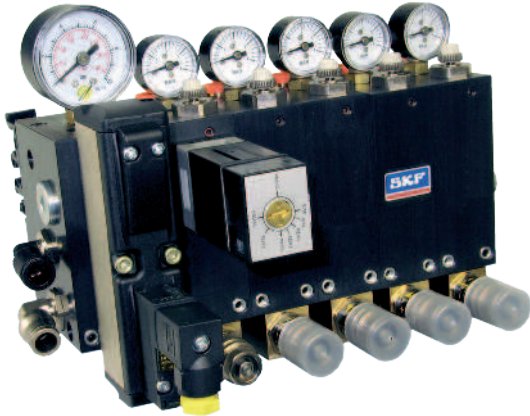
The SKF VectoLub technology has proved itself for many years. It is based on the combination of very small quantity of lubricant (3 to 90 mm<sup>3</sup>), fed by pneumatically actuated volumetric micropump, and a flow of compressed air called "carrier air".

Lubricant and carrier air are parallel conducted in an coaxial line to a bifluid spraying nozzle. The air is swirled in the nozzle and breaks down the lubricant into microdroplets (200 to 600 μm) at the nozzle outlet. The lubricant microdroplets are transported by the carrier air to the friction point to generate a fine and homogeneous lubricant film oil mist formation.

This technology optimizes the lubrication efficiency, reduces the consumption of lubricant and preserves the safety and cleanliness of the working area.



## SKF VectoLub, a complete product range



### The VTEC unit

Minimal quantity lubrication unit with up to 8 outlets.

- **Modular** It fits perfectly to the application of the client.
- **Upgradable** It is possible to remove or to add at any time a module to the system.
- **Multipurpose** A single system can lubricate different independent applications.
- **Reliable** Every outlet can be independently controlled and monitored.

For further information, please see the leaflet No. 1-4401-EN



### The VE1B unit

Minimal quantity lubrication unit with up to 4 outlets.

- **Economical** An economical alternative to the VTEC system
- **Compact** Compact system requiring few space. It can be installed closer to the application.
- **User friendly** Only one control setting for all micropumps.
- **Kit** The VE1B system can be sold in kit form (units, reservoir, hoses and nozzles)

For further information, please see the leaflet No. 1-4403-EN



### A complete accessories offer

- Lubricant reservoirs with capacities from 1 to 10 liters, with or without level monitoring
- Projection units with or without projection tube (articulated plastic or bendable copper tube)
- Nozzles with different jets: circular jet, fine circular jet, wide jet, annular jet and nozzles for special applications
- Coaxial tubes, 1 to 5 m, polyamide or reinforced tubes

For further information, please see the leaflet No. 1-4402-EN

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