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Applications

Introduction

There are applications:

- which are specific of microlubrication
- which are specific of spraying.
- where the two technologies be used

The scope of these technologies is wide. Environmental and productivity requirements, labour regulations require more and more automation of manual lubrication or spraying for a wide variety of processes.

It's impossible to list and sort all applications.

What can be done by microlubrication?

Microlubrication allows to put a precise quantity of liquid at one or several places:

- drop by drop
- carried from nozzles to accurate points by an air jet
- sprayed on surfaces or forms.

What can be done by spraying?

Spraying spreads liquids on surfaces.

General applications

Lubrication of mechanical components

Lubrication using:

- microlubrication
 - for drop by drop applications
 - for bearings and cases (A pressure may exists in boxes.)
- microlubrication or spraying for areas (chains, conveyors...).

Machining operations

The microlubrication is used for machining operations with adapted systems to lubricate tools:

- with one or several nozzles facing them
- by spindle centres. So deep drilling may be performed without using high pressure lubrication station. Lubrication by spindle centres may require a suction device to eliminate generated mist.

The microlubrication with nozzles is often used for sawing, drilling, boring, milling, broaching, turning.

Microlubrication and spraying are used to deposit anticorrosion products.

Assembly operations

Microlubrication and spraying are used:

- to lubricate mechanical parts, pieces to fit, hose tips..
- to lubricate rubber parts
- to deposit anticorrosion products.

Cutting and stamping operations

Microlubrication and spraying are used to deposit lubricant on metal sheets, a precut sheets, or inside tools. The lubricant range is wide: evanescent oils, soluble oils, common oils, oils with additive, high viscosity oils.

Generally:

- microlubrication is used for metal sheets when their width is lower than 150 mm
- microlubrication is used to put additional lubricant inside the tools
- microlubrication or spraying are used for large metal sheets
- microlubrication systems and drop by drop systems are used to soak felts

Drop by drop systems are used in specific cases.

Forming operations

Microlubrication and spraying are used to lubricate:

- bending, splaying or tightening operations on tubes
- forming mandrel
- forging matrix

Microlubrication and spraying are used for stripping and mould dressing products

Applications in several business sectors

Water, ink, glue, perfumes, most liquid products may be deposit or sprayed.

Microlubrication and spraying may be used in food processing industry, the chemical industry, petroleum industry, pharmaceutical industry, ...