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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, ...