



## Some advantages of microlubrication (MQL)

### Preamble

The advantages due to the installation of a microlubrication system depend on the context:

- replacement of an existing system
- replacement of a common lubrication system
- installation of a system on a machine which is not equipped with a lubrication system

They depend also on the process.

- Machining operations
- cutting and stamping operations
- assembly operations
- lubrication of mechanic elements
- dosing

ACOVAL systems have some specific features.

### Benefits for machining operations

Compared with the common lubrication, the microlubrication usually brings:

- an important reduction of the cost of lubricants
- an improvement of the life expectancy of tools
- a better state of surface
- an improvement of the environment with:
  - cleaner objects
  - cleaner workshops
  - cleaner chips
  - the elimination of soluble oils and their risks for the health

However, the installation of a system requires a [study](#). Sometimes, the common lubrication must be used.

### Benefits for cutting and stamping operations

An adapted microlubrication unit allows to save lubricant due to:

- the delivery of accurate and reliable quantities of lubricant
- the lubrication of the strategic points

The objects, the machines and the workshops are cleaner. An adapted microlubrication system allows to use a wide range of lubricant.

## **Benefits for assembly operations**

The quality and the productivity are improved. The accurate and reliable delivery of lubricants reduces the cost.

## **Benefits for other fields**

The advantages depend on the application: the study determines if a microlubrication system is adapted to the process and its configuration.