

## CASE STUDY

# EASYPURE

Gravity-based bacteriological treatment  
for cutting fluid application



### Application

Recycling of cutting fluid for  
aluminum machining

### Volume of liquid to be recycled

**1 m<sup>3</sup>/day on average**

### Objective

**Stabilization and reduction of bacterial  
concentration**

The EASYPURE unit has been specially designed for the treatment of cutting fluids.

**The process relies on 4 successive steps: settling, filtration, oil removal, and UV treatment**

This final step, performed in a continuous loop, uses a module powered by a circulation pump (2 m<sup>3</sup>/h) and equipped with two 48 W lamps providing a germicidal action that prevents bacterial growth and stabilizes the emulsion.



## Results

**8 to 10 months**

Return on investment

**3 years** Reuse of oil without draining

**65 m<sup>3</sup>** Non-disposed fluid

**8000h** Before UV lamp replacement



### Cutting fluid savings

Reduces the cost of reprocessing used fluid, reduces the purchase of new fluid, increases the life of the fluid used.



### Stabilized emulsion

SIEBEC filtration ensures the elimination of particles and lubricating oils, while preventing bacterial growth.



### Odor elimination

The UV treatment and efficient separation of tramp oils prevent bacterial proliferation, thereby eliminating unpleasant odors from the fluid.

