

# CASE STUDY

## MOVING YOUR WORLD



## Precision machining of food & beverage equipment, where surface finish is critical

**Application:** ECOCOOOL GLOBAL 2000  
**Location:** United Kingdom

### Customer

A globally reputable food and beverage equipment and tooling manufacturer to the glass and canning industries. Machining mixed materials, predominantly aluminium, cast iron and tooling steels.

### Challenge

The customer was experiencing a range of issues, due to poor coolant choice and a lack of support from their previous supplier. The issues included bad odours from coolant, dirty machine tools, poor sump life. Losses due to unplanned maintenance stoppages for coolant changes, and regular tool breakages. High levels of tank side treatments for foam and trying to control bacterial ingress. Corrosion inside machines and a lack of control of fluid concentrations.

### Solution

ECOCOOOL GLOBAL 2000, which is designed primarily for machining aluminium alloys and steels, also has properties to machine cast iron and keep the machining area running clean. This combined with FUCHS SMART SERVICES proved to be the perfect formula.

### Results

ECOCOOOL GLOBAL 2000 improved the overall environment of the machine shop, bad odours were eliminated without the use of expensive tank side treatments. Machine tools were noticeably cleaner inside the machining areas and around the tool magazines. The customer saved £1,164 per machine tool. This was achieved by more than doubling their sump life, using less coolant, and no unplanned downtime to clean machines. Switching to ECOCOOOL GLOBAL 2000 also eliminated the need for tank side treatments. Surface finish was improved and there was less rework of components and scrappages. The customer also commented that their work force is happier, and this was down to using a better coolant and the support service that FUCHS have provided.

### Advantages

Improved surface finish

Improved sump life

Improved machine cleanliness

Reduced foaming

Reduced downtime

Reduced consumption

Reduced odour

Reduced residue build-up

Reduced reworks & scrappages

Helpful support services

Cost savings of £18,624

