

▶ Anadolu Cam's Eskisehir plant



# Anadolu Cam Eskişehir benefits from swabbing robot oil

Condat's custom made oil for Turkish container glass manufacturer Anadolu Cam's Eskisehir plant has been deemed a success. It has improved the glassmaker's productivity as well as the safety of its IS machine operators.

**T**urkish container glassmaker Anadolu Cam Eskisehir has made its international reputation making glassware ranging from small containers - 15 grams pharmaceutical bottles - up to the 3900 gram demijohn for liquid fountains, using the single, double and triple gob processes.

After a recent investment in swabbing robots, it asked its lubricating partner, the French company Condat, to develop an optimised oil for this type of application. The benefits of the project will be increased safety and productivity.

Anadolu Cam Eskisehir manufactures 900 tons of glass a day. This is forecast to rise to 1400 tons next year. It belongs to the Siseecam Group, the world's third largest glass manufacturer.

## The start of a partnership

Anadolu Cam Eskisehir contacted Condat in 2015 after having difficulties in the proper technical support for its lubricants procurement.

The main problem was the amount of residues it had on its IS machines. Condat, through its technical assistance was able to help it on this point.

With a visit every week, Condat personnel checked and adjusted the concentration of the shear spray lubricant (Bioglass DLS 67F) to optimise the production process.

The quality of the product along with the low quantity of residues and its high lubricating properties made a great difference in productivity.

And the plant emphasised that having just one supplier for all lubricating

applications enables it to rationalise its orders. And with its products always being in stock, it appreciates Condat's capacity to deliver quickly.

## Robot oil development

Condat also has an ability to listen to its customers and to answer to their problems with the appropriate solution, even if this needs a specific development.

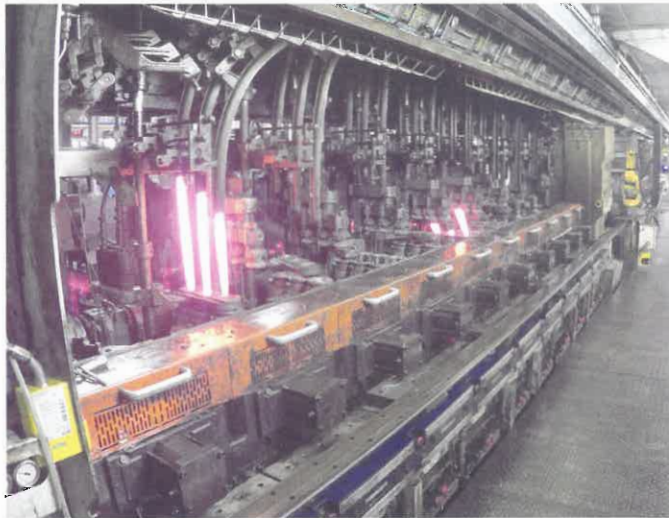
Focusing on the safety of its staff, the Siseecam Group invested in robots in all its IS machines for swabbing operations. Swabbing moulds, running at a temperature of around 500°C, and glass at even higher temperature, is risky for operators' health and safety.

Another reason for the investment

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was to standardise the manufacturing process, robots enable the same uniform application with an equal quantity of lubricants.

When Anadolu Cam installed its first swabbing robots, it turned to Condat for a solution.

“Developing a good uniform sprayed grease was not easy, explained Jérôme Charvet, Condat’s Glass Market Manager.

“We worked closely with Anadolu Cam to set up specifications and develop a lower viscosity product that would give the required glass release properties. We had to also solve a residue and sedimentation issue.”

Because the robots work in close proximity to the moulds, in an atmosphere close to 70°C, this will affect the temperature in the tank of the robot thus creating drastic sedimentation in the bottom of the tank.

Thanks to the involved team of experts and the efficiency of its Research & Development department, Condat was able to offer the right product to Anadolu Cam within three months.

Mr T. Emrah Özler, Condat’s glass sales representative for Turkey, said: “To perfectly fit the request of our customer, we accompanied the Anadolu Cam team to implement the solution.

“We supplied several samples of swabbing robot oils, made several online tests, checked the application and quantity applied and verified the results with one main objective: always improve the final solution.”

Condat supplies the Turkish container glass manufacturer with two types of swabbing robot oils: Condaglass 364 & 365 (each with a different graphite

content and viscosity depending on glass articles and robots).

The results have been significant for the company as it can now limit the interference of operators on high temperature moulds.

The standardisation of the process has also had a huge effect on the quantity of lubricants used, as consumption has decreased by nearly 60%.

This success has encouraged Siseecam to implement swabbing robots on all its IS machines worldwide.

Condat was formed in 1854 and specialises in the conception and production of industrial lubricants with a specific know-how in greases formulation.

It has headquarters and manufacturing

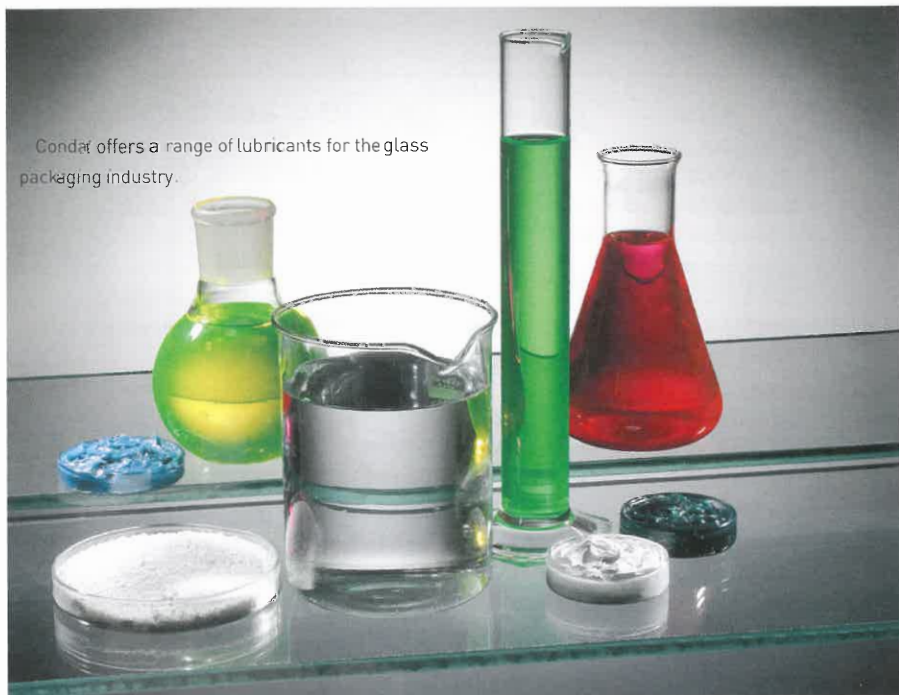
facilities in France and three other productions sites in USA, China and Brazil.

It offers a range of lubricants and coatings meeting the requirements of the packaging glass process, including

Soluble lubricants for shear spray, neat oils and dual-component coating for delivery system and synthetic oils for central lubrication of IS Machines as well as oils and grease suitable for the maintenance of glass machines.

It recently launched solutions for glass release dedicated to the tableware industry. ■

Condat, Chasse-sur-Rhône, France  
www.condat.fr



Condat offers a range of lubricants for the glass packaging industry.