



# Innovative skin care products from L'Oréal reliably filled to high quality standards

Suzhou Beautycos International Co., Ltd., a subsidiary of L'Oréal, develops, produces and markets cosmetic and skin care products in China. The company is located in Suzhou, near Shanghai, in the East of the country. The city is criss-crossed by canals and therefore also known as the "Venice of the East".

## Well-established partnership

L'Oréal, with many well-known brands such as "Garnier," "Elsève," "Lancôme," "Biotherm" and "Gemey Maybelline," has put its trust in Bosch as a reliable supplier

of filling and capping machinery for many years. Recently, L'Oréal started production on another Bosch filling and capping line at its Beautycos International plant in Suzhou. The line consists of a linear piston filling machine FLK 7081 CIP Plus and a rotating servo capping machine VRM 6041 D as dual unit. The line handles a variety of face cream products with an output level of 120 jars per minute.

## Flexibility for product range

Beautycos International's high standards apply not only to its own products but

also to the quality of packaging. Bosch Packaging Technology is a competent partner in meeting such high quality requirements. The Bosch piston filler achieves and ensures the required filling accuracy of 50 milliliters dosing quantities for creams by using a ball manifold in combination with diaphragm valve technology. Proven Bosch technology, combined with a reproducible servo capping technique, guarantees screwing of the caps with precise torque values. A further requirement is met with processing an inlay lid at the first capping



station, while securing repeatable format changes with minimum changeover times.

#### **Quality and hygiene**

Hygiene and reproducible cleaning operations are crucial considerations when selecting suitable filling systems for high-quality face care cosmetics. The Bosch piston filling machine with integrated CIP system (cleaning in place) allows all parts of the eight-head filling machine to be exposed and immersed in a free-flowing, defined combination of water and air. The piston filling machine meets hygienic requirements and microbiological standards in its closed-loop, inline cleaning process with defined temperature-time profiles (for example 80°C over ten minutes). After cleaning, the machine is cooled and production can be resumed.

#### **User-friendly interface**

The integrated control system and operator interface features a choice of

languages (for instance Chinese, German and English) via touchscreen and allows the selection of all formats with secure and exactly repeatable settings. The operator interface delivers maximum flexibility and safety. All selectable functions can be protected from unauthorized access via different levels of passwords. If any problems occur, the system's teleservice allows timely communication with the Bosch Service Center to avoid lengthy shutdowns.

#### **Successful implementation**

As an experienced and technically accomplished partner, Bosch saw Beautycos International's high demands and expectations as a challenge, which was successfully met with the installation of a complete filling and capping line. Proven engineering, servo technology and the high flexibility of Bosch machines allowed for an optimal adaptation to highly demanding customer requirements.

Jörg Schmidt, principal coordinator of L'Oréal projects in South-East Asia, and the Beautycos International team opted for Bosch technology because it met the technical requirements of hygienic filling, as well as those of high efficiency and flexibility. Another decisive factor for the team to choose a reliable partner like Bosch was the ability to provide a quickly available, local service from its site in Hangzhou.

Bosch and Beautycos International – a successful team delivering top quality!

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