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Shemesh launches the TKS-C60 complete robotics-enhanced packaging line for cosmetics

The need to package a range of product shapes and sizes – a common challenge in the cosmetics industry – has caused manufacturers to toil with the complexities of integrating machinery from different suppliers, expensive line-changeover parts and changeover related downtime, for too long. Now, Shemesh Automation has developed a solution that changes all of that – **the TKS-C60 complete robotics-enhanced packaging line for cosmetics.**

The new line from Shemesh has been built to handle the entire process – feeding, filling, capping, labelling, case packing and palletising cosmetics products of all shapes and sizes.

The **TKS-C60** ensures a seamless, uninterrupted bottling line for a range of products from creams and foundations to fragrances and nail polish at an impressive rate of 60 bottles per minute. The line consists of three ABB Delta Robots – one on the product unscrambling station, one for accurate multi-capping and one for case packing – as well as an integrated advanced vision system. All manufactured by one experienced team, to maximize productivity and minimize downtime.

This smart technology is manufactured from high grade, robust stainless steel. Two lanes offer greater flexibility, with the capability to pack different products on the same line simply by setting up the requisite recipes via a smart HMI screen. The linear rather than rotary feed means there are fewer parts for faster and easier changeovers and cleaning. It can identify cap types of any dimension – screw caps, snap-on caps, pump/spray caps and more. For shaped products, the line can also include pucks loaders and unloaders as well – offering maximum flexibility.



ETNA, the line's automatic bottle unscrambler, uses an ABB/FANUC spider robot to provide precise bottle orientation, covering virtually all bottle types common to the cosmetic sector. The robotic elements ensure no change parts are required (except in some cases for the robot grippers) when unscrambling multiple different bottle shapes. This results in much less downtime and a huge reduction in format parts costs over time.

Robots ensure the bottles for filling and caps are facing the correct way – saving on labour. After capping, the line provides a front and back or full-wrap customizable labelling function, ensuring the cosmetics products are looking their absolute best! Case packing, sealing and efficient transition to the palletizer help to make this seamless system second to none in the manufacture and packaging of cosmetics.

Thanks to the extra control and force provided by its double-servo driven pistons, the STRATUM provides the versatile liquid filling solution at the heart of this extraordinary line. Capable of accurately filling a wide range of viscosities (from 1 to 500,000 Centipoise) to within +/- 0.25% of filling volume, STRATUM is the perfect filler for cosmetics manufacturers with a diverse product range.

ATTILUS, the Continuous Motion Cosmetics Capping Machine utilizes a robotic sorter based on Delta Robot and an advanced vision system to enable higher speeds, enhanced accuracy and unprecedented flexibility in automatic screw, pump and spray cap sorting.

Also, the ATTILUS utilizes a servo-controlled pick & place Cartesian Robotic Arm (gantry two axis robot) to track and deliver the caps to the bottles while in motion, ensuring smoother and faster production.

The ATTILUS includes bottle tracking and a synchronized gantry robot based on encoders and servos. Its integrated Siemens/AB PLC & HMI puts the operator in complete control, allowing simple programming – changing formats and course of movement at the touch of a button. The Robotic enhancement of the ATTILUS also ensures changeover downtime is kept to a minimum (under 20 minutes).

Adapted to work with corrosive products as well as flammable liquids – such as nail polish remover- the **TKS-C60** supports global manufacturing regulations, is Industry 4.0 ready and offers ATEX protection standards in explosive atmospheres.

Shai Shemesh, president of Shemesh Automation, says: “In developing the TKS-C60 we have poured years of engineering knowhow into solving a genuine pain point for our cosmetics customers: The ability to efficiently pack multiple product types with one smart line. It’s another game-changer from our engineering and R&D teams.”

“From consultation to design-and-build and ultimately service, we always aim to offer a one-stop-shop to our customers. The **TKS-C60** is a fantastic example of how the ability to source an end-to-end packaging solution, enhanced by the very latest robotic technology, from one trusted supplier can unlock major savings for our customers in both time and money.”

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About Shemesh Automation:

With over 30 years in the industry, Shemesh Automation is a global leader in the high-end packaging and assembly machinery and industrial automation appliances manufacturing arena. The private equity backed business supports almost 2,000 assets in over 30 countries around the world. Its nonwovens arm, Shemesh Automation Wet Wipes (www.sawetwipes.com) is a global pioneer in nonwovens downstream packaging equipment with cutting-edge technology positioned at the very forefront of the industry.

Shemesh is represented in 13 countries around the world with offices in the US, UK, France and Israel. Its London-based office coordinates global sales and marketing operations and its Israeli office managing research, development and engineering innovation. Shemesh’s unique combination of UK customer-centric service with an Israeli high-tech mentality to push the technical boundaries, plus the use of tried & tested parts from German manufacturers has greatly contributed to its success. The US market is served by a 43,055 square-foot office in Green Bay, Wisconsin, home to a Demo Center, 24 Hour Service and Parts Center and a large US installed base of packaging machines.

“We don’t see Shemesh as a company that builds just cutting-edge machinery, we want to become your partner of choice for long and successful cooperation. “Let us build your vision” is not just our slogan, simply put, this is what we do, day in and day out!” – Eli Shemesh, Founder.



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