

teamtechnik SOLUTIONS

MegaPlast GmbH, Villingen-Schwenningen
CHALLENGING PROCESSES,
PERFORMED RELIABLY

Smallest possible tolerances for child-proofing

Up to now, the greatest challenge presented in this cooperative venture was the automated assembly of child-proof caps. To ensure the child-proof measures could reliably meet the strict requirements, even in series production, teamtechnik Automation first used test series to determine the necessary tightening torques and press-on forces and then selected the most appropriate equipment for each individual application. In the end, teamtechnik Automation supplied Mega Airless with a 16 station rotary transfer system.

»No doubt about it - we will bear teamtechnik Automation in mind when looking for partners for future projects«

Haluk Cimentepe, Business Unit Manager for Innovation and Industrialization at MegaPlast

This not only included stations for feeding and positioning the different components, but also control stations for monitoring the press-on force and torque, to ensure the required levels of product safety. The dispensers are fed into the production system on a conveyor belt. The internal components are then placed in an upstream, camera-monitored positioning station. The torque is monitored whilst the components are screwed together and then the force is monitored as they are assembled.

„We are more than satisfied by how teamtechnik Automation was able to handle this task,“ stated Haluk Cimentepe. He went on to add: „No doubt about it – we will bear teamtechnik Automation in mind when looking for partners for future projects.“

Contact

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Two years ago, Mega Airless started looking for another reliable automated systems partner to supply automated assembly systems for their latest „Nano“ (5 to 15 ml) product model and a dispenser with a child-proof cap. teamtechnik Automation, which is headquartered in Ludwigsburg, Germany, is a specialty manufacturer of fast cycling rotary transfer systems and a member of the internationally active teamtechnik Group, emerged as the preferred choice.

teamtechnik Automation GmbH

Founded in 1960, the company develops and builds fast-cycling cam-driven rotary and linear transfer systems for automated production. It joined the international teamtechnik-group in summer 2011.

MEGA AIRLESS DISPENSERS NOW INTEGRATE TEAMTECHNIK AUTOMATION AUTOMATION

„We believe it is essential to manufacture our new products with the same excellent functional reliability and quality as our customers have come to expect from us, and which we always provide,“ said Haluk Cimentepe, Business Unit Manager for Innovation and Industrialization at Mega Airless. „And not only that but, by using smart engineering, every aspect of our production systems must have the flexibility to ensure the shortest possible setup times for product variant changes, and to provide exceptional machine availability, so we can plan output reliably.“

»teamtechnik Automation supplies reliable machines, with > 90 percent availability«

Haluk Cimentepe, Business Unit Manager for Innovation and Industrialization at MegaPlast

These were the critical factors which led the company to choose teamtechnik Automation, stated Haluk Cimentepe: „The company supplies reliable machines, with > 90 percent availability, that operate at between 50 and 60 cycles per minute, even when handling complex assembly tasks“.



Assembling dosing dispensers at the production facility using high performance production systems supplied by teamtechnik Automation



Reliable assembly at 50 or 60 cycles per minute



teamtechnik Automation is your single source supplier for Assembly and Feeding systems

Mega Airless supplies airless dispensers to companies in the cosmetic and pharmaceutical industries: a plastic sliding piston in the product container equalizes the pressure within the company's pump systems.

When the product is pumped out (dispensed), the integrated sliding piston moves upwards by the amount of the removed product, preventing air from entering the product container. This method effectively protects cremes, gels, lotions and pastes from the effects of oxidation and prevents contamination.

MegaPlast GmbH, Villingen-Schwenningen

The company takes great pride in having supplied the cosmetic, personal care and pharmaceutical markets for more than 20 years.

Nano: the smallest of our Airless dispensers also presents the most challenges

March 2015 saw the market launch of their smallest dosing dispenser yet: the Nano series, with a filling capacity of 5 to 15 milliliters, designed for use in top of the range cosmetics, test samples, giveaways and pharmaceutical applications. Mega Airless had to find an automated system that was capable of assembling the tiny parts involved in this dispensing system. The space-saving rotary transfer systems manufactured by teamtechnik Automation, in addition to the company's extensive experience in process systems, made it the clear choice.



The new Mega Airless dispenser 5 ml - 10 ml - 15 ml

»Our customers expect us to deliver perfect products with a flawless appearance«

Martin Riesle, Production Director at MegaPlast

When working together with Mega Airless, teamtechnik Automation had to fulfill a number of requirements at the same time. Mega Airless distributes its dosing dispensers over a global network. In many countries, cosmetics are subject to the same stringent hygiene requirements as foodstuffs. „That wasn't a problem for us,“ stated Stefan Hofke, Project Manager for Mechanical Engineering at teamtechnik Automation. „All our machines are designed to handle foodstuffs, so they can be integrated seamlessly into a GMP-compliant quality management system. The same applies to the component feeding processes. We can guarantee total product protection.“ A more complicated issue to resolve was to feed in the individual components at a high cycle rate without cosmetic damage. „None of the containers we supply are permitted to have dents or scratches. Our customers expect us to deliver perfect products with a flawless appearance,“ explained Martin Riesle, Production Director at Mega Airless.

»We can maintain production at the required pace«

Martin Riesle, Production Director at MegaPlast

„By working together with teamtechnik Automation, we have found the solutions to these issues. For example, we use angled delivery systems that reduce the drop height and specially designed bowl feeders that sort the components without damaging them. And, despite having to implement these special solutions, we can maintain production at the required pace.“ teamtechnik Automation has its own competence center for feeder systems which guarantees interface security and ensures that the production systems it supplies can be used to their full potential.