

Dear Reader,

In modern production plants, packaging often needs to be turned in several directions, be it for hygiene reasons, to print the container or for packaging purposes. Trans-tech Hysek, a European company, specializes in this area and manufactures turners that rotate products into the correct position during the production process. They have been using SEW-EURODRIVE geared motors in their feed system for over 20 years. Nowadays, they make greater use of the compact and economical MOVIGEAR® where gear unit, motor and drive electronics are integrated in a single compact housing. These mechatronic units have a long shelf life and are very energy efficient.

To read more about the application, and how it benefits modern F&B production plants, please read the article below.

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Team marketing, SEW-EURODRIVE

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Drive technology TODAY

Please turn over!

Flexible components for beverages plant engineering

► In modern production plants, packaging often needs to be turned in several different directions. Trans-Tech Hysek has made this its specialism. The company manufactures turners that rotate products and packaging into the correct position during the production process. The feed system is powered by mechatronic drive units made by SEW-EURODRIVE.

► Most products intended for everyday use are positioned upside down at some point. Food products must be pasteurized or sterilized after filling. Shampoo bottles are filled from above, but are placed on shelves the opposite way around. Boxes need to be stacked ready for outer packaging in various sizes. And empty containers are sprayed clean from underneath. All of this takes place at very high speeds in today's production plants. Containers and products need to be turned in every conceivable direction without interrupting the conveyor lines. Trans-Tech Hysek (TTH) in Kissing, near the German city of Augsburg, has made this task its specialism. Turners with internal mechanisms of virtually any complexity are the main item in the company's portfolio. These compact assemblies move products and packaging into the correct position during the production process. The feed system is almost always powered by mechatronic drive units made by SEW-EURODRIVE.

Conveying all manner of products

All kinds of beverages briefly need to be turned upside down in some form in the filling plants, be it for hygiene reasons, to print the container or for packaging purposes. Nowadays, all sorts of products are processed using the Hysek turners - from individual chocolates to cartons full of fish sticks. The units' sophisticated design and easy interchangeability are vital features. The block-shaped turners are installed on the production lines and can be removed and replaced with ease for other product runs. The FLEXTWIST turner is even able to process cans of varying sizes at one and the same time without any need to change over the format mechanically.

A solution for all customer needs

Trans-Tech Hysek installs drives that comply with the standard of the relevant sector or TTH's partner companies in the packaging feed mechanism or larger turner units. It has used gearmotors from SEW-EURODRIVE virtually exclusively for over 20 years. "Why use five different drive manufacturers in designing a single machine when we have a solution that satisfies all our customers?" is Managing Director Andreas Meisetschlager's rhetorical question. The graduate engineer is visibly happy. "We haven't had one single complaint in the past three years," he reveals. ►



The link-belt conveyors are driven by highly efficient MOVIGEAR® mechatronic drive systems.



The plant can rinse up to 144,000 cans an hour. SEW-EURODRIVE's drive units provide the necessary power.



A MOVIGEAR® mechatronic drive unit drives the CA M/LOW cable transport system via the pulley.

Green drive technology

TTH has been making greater use of compact and economical MOVIGEAR® mechatronic drive units for some time now. Gear unit, motor and drive electronics are integrated in a single, compact housing. The mechatronic units have a long service life and are very energy-efficient – the series was awarded Baden-Württemberg's environmental technology prize in 2011. The system has a high overload capacity. Despite having an optimally low continuous power rating, the MOVIGEAR® drives can effortlessly start up a plant – even after it has been out of action for a lengthy period. MOVIGEAR® also ensures the levels of safety necessary in food and beverage production. The motor and electronics do not require fans and are fully enclosed. Despite this, the drives are easily accessible at all times for servicing. SEW-EURODRIVE offers various optional protective measures, including surface protection categories OS1, 2 and 3 and the HP200 high-protection coating. This is suitable for hygienic areas in the food and beverage industry with regular acidic and caustic wet cleaning. Anti-stick properties support the cleaning process, even in inaccessible areas.

Beer in cans

The Krueger Brewery in Newark, near New York, was the first brewery to sell beer in tin cans. At the age of 16, Gottfried Krüger emigrated from Sulzfeld in Germany to America, where his uncle was already producing "liquid bread" based on a German recipe. By the start of the 20th century, Krüger's brewery was one of the largest in the USA but it, too, was hit hard by Prohibition. Sales fell by two-thirds in the 1920s and only company headquarters was able to keep its head above water – by producing soda and malt beer. When the Prohibition era ended, production increased again and the founder's sons decided to risk an experiment. Would customers accept beer in newfangled cans? Over 90 percent of test customers in 1933 liked the "special beer" in tin cans and a start was made with large-scale sales. Canned beer is said to have resulted in an immediate fivefold increase in the Krueger Brewery's sales. To begin with, the beer cans worked like condensed milk packaging. Before the ring pull was invented in 1963, thirsty customers had to force holes in the tin using an opener provided with the can. The first beer marketed in Germany in this type of packaging was Henninger Export in 1951. Nowadays, beverage cans are made of aluminum rather than tin.



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Side clamping belts are used for all kinds of purposes, for example as a feed guide for turning systems or to apply a code to the bottom of products.

Support from SEW

TTH's production program now also includes complete rinser/spray washing plants to rinse cans and other containers. A CANJET plant of this kind can rinse up to 144,000 cans an hour and is adjusted pneumatically to different can formats. If the cans need to be conveyed across a particularly long distance, a cable transport system is often a good solution. TTH offers a system of this kind called CANFLOW, with drive power once again provided by SEW-EURODRIVE motors and gear units. This is also the case for various customized solutions delivered from the Augsburg region all over the world. "SEW offers an excellent selection of drive solutions," says Meisetschlager, praising the extensive portfolio of components and systems from Bruchsal. He stresses that the company is always quick to provide assistance in adjusting to different bus systems used by customers, for example implementing the DeviceNet standard that is something of a rarity in Europe. "It's also great to be able to download virtually any part from the SEW website to use in your own CAD system," adds Meisetschlager.



SEW-EURODRIVE motors drive side clamping belts that are used for all kinds of purposes, for example as a feed guide for turning systems or to apply a code to the bottom of products.