Industry alliances

MSK chosen by PARK CAM as reliable cold end partner

Park Cam Sanayi Ticaret A.Ş., one of Turkey's leading glass manufacturers and part of the Ciner Group, recently selected MSK to equip the cold end of its third furnace which, technically, exhibits an impressive overall bottle transfer concept from lehr to pallet packaging that brings elevated performance, high system availability and investment security.

Award presented to MSK during the opening ceremony at Park Cam

INVESTMENT SECURITY

The first glass has been running through the new MSK cold end since June with the commissioning of the new 'furnace 40' in Bozüyük, Bilecik in May 2025. "Together with the project team at Park Cam we developed a high-performance cold-end concept that fits into an existing overall concept with a total of three furnaces," reports Emin Ilgat, Sales Director at MSK. "We delivered a cold end of a high technical standard within a short space of time. Technical specifications and details were clarified quickly and easily with Park Cam within a few weeks and a layout was designed." Park Cam has awarded the cold end for its new furnace to MSK for a good reason. The family-run business has now been in existence for 50 years. "Reliability and longevity are core values we continue to live at MSK and for which we are known in the market," highlights Linda Hannen, CEO MSK Covertech Group. Even after many years MSK still supplies the necessary spare parts and services, such as for a shrinking machine in Turkey from 1982, for which mechanical spare parts are still supplied today. MSK provides its customers a high level of investment security. "In line with our strategic objective to diversify our product portfolio, we initiated the design of a new production line tailored to meet the evolving expectations and specific requirements of our customers," explains Mesut Irmak, General Manager of Park Cam Sanayi Ticaret A.Ş. "Our decision to partner with MSK systems was driven by multiple factors. From a technical standpoint, their maintenance-free solutions, proprietary EMSY communication platform, use of premium-quality materials, being the current leader in this industry and their responsiveness to our evolving design needs played a significant role in our selection process."

LONG-STANDING PARTNERSHIP WITH THE TURKISH GLASS INDUSTRY

Park Cam saw the performance of MSK systems before investing, since MSK looks back on many years of partnerships with Turkish glass manufacturers such as Sisecam, GCA (Gürok) and Bastürk Cam. Additional factory visits of the MSK sites in Germany and Hungary demonstrated the technical design and MSK quality standards. "It is our modular design principle which enables the configuration according to our customers' individual requirements based on standard modules. This applies to the desired performance, the glass containers to be processed, the logistical requirements on site and also the development of individual special solutions by our experienced engineering team for the glass industry," explains Michael Oymann, Engineering Director.

EFFICIENCY AT A HIGH LEVEL

The cold end for Park Cam is characterized by high performance for the 500 t furnace with up to 900 bottles per minute and handling a wide variety of glass container shapes. In addition to various round bottles and jars, this also includes special shapes such as rectangular and tapered bottles. "The EMSY software offers different advantages. It makes the complex overall system easy to operate and, thanks to the digital networking of all modules, ensures simplified parameter settings, smooth interfaces and seamless transfer of the relevant data throughout the entire process," adds Uwe Jonkmanns, CEO Sales & Marketing. MSK systems are equipped with long-lasting and maintenance-free premium components to ensure high system availability. Flexible line management over four lines ensures a reliable, dynamic bottle flow at Park Cam - controlled, visualized and monitored by the EMSY software. The software also offers proactive, predictive maintenance and, in conjunction with its intuitive operating concept, enables the 24/7 performance which is indispensable in the glass industry.

A STRONG TEAM

Only a few months passed between the order being received in June 2024 and the machines being delivered and assembled on site. The delivery date was even shortened by three weeks at the customer's request during the project execution. "With proactive preparation, we were able to adapt our organization to enable earlier production and delivery for our customer. We received excellent on-site support from the entire technical team at Park Cam and the provision of an efficient installation team," says Christina Hannen, CEO MSK Covertech Group, praising the cooperation between all those involved in the project at Park Cam and MSK. "The FUR-40 installation process was carried out in close cooperation with our team, and the performance of their project managers was especially commendable. We are pleased with the outcome and appreciate the smooth execution", emphasizes Mesut Irmak. Project management and installation by MSK was also possible in Turkish, which simplified communication and was further supported with the local MSK organization in Istanbul.

DYNAMIC BOTTLE FLOW

The various types of glass containers are transferred after the lehr by MSK cross conveyors on a total of four lines. The modular design of the MSK bottle conveyor systems with adjustable rail guides ensures a high degree of flexibility and fully automatic bottle transportation. The use of stainless steel frames and premium components ensures a particularly long service life with the lowest possible maintenance and vibration. The entire bottle conveyor system is controlled by EMSY software. It ensures automated, dynamic line guidance with

MSK Cold End from lehr to packaging

Industry alliances

Dynamic bottle flow with high speed

recognition and sorting of the different bottle types by simply adopting and adapting parameters.

FULLY-AUTOMATIC PALLETIZING SYSTEM

With the MSK Triotech palletizing system Park Cam has opted for flexible and maintenance-friendly high-performance technology. Each of the four palletizers installed processes up to three layers of bottles per minute completely automatically and in harmonious interaction with other MSK equipment such as 6-row servo-driven stackers, automatic empty pallet infeed with empty pallet magazine and pallet pressing line, automatic traymaker, intermediate and top layer applicator and labeling robot. Each palletizer can be equipped with either a gripper head or a vacuum plate. A palletizer also has a pick & place and gripper tube palletizing head. By transferring product parameters from the bottle conveyor line to the palletizing system, the EMSY

software enables flexibility and short changeover times for job changes. The Triotech palletizing system is a space-saving single-pillar palletizing system equipped with a rotating arm. This saves energy and ensures the lowest possible wear. Further energy savings are achieved through machine components such as IE3 drives with the highest efficiency class and the reduction of motor power using the counterweight principle for all vertical movements. "The robustness of our palletizing systems and the associated longevity

compared to other solutions available on the market are received positively in the glass industry," emphasizes Emin Ilgat with regards to his discussions with Park Cam. The pallet dressing line flexibly prepares different empty pallet formats for the palletizing process in mixed operation. It applies a bottom film to both plastic and wooden pallets before the glass containers are palletized. This ensures hygienic transport packaging which is closed on six sides in combination with

Fully-automatic palletizing system MSK Triotech

Hygienic and stable shrink hood packaging by MSK Multitech system

the shrink hood. The integrated empty pallet magazine automatically receives commands about the required pallet format and provides this at the palletizing station using a conveyor system.

SEAMLESS DATA TRACKING

Before the fully stacked glass pallets are transported to the packaging line using the mobile MSK Linktech shuttle car, labeling robots on each of the four palletizing lines mark the loads on three sides of the top tray with a paper label, thus ensuring complete traceability of the pallets right from the palletizing system. The mobile MSK shuttle car with two pallet places flexibly connects the palletizing, empty pallet and packaging line and also takes over feeding consumables such as intermediate sheets and trays. Both the shuttle car logistics and the stationary MSK conveyor systems are controlled uniformly via the EMSY software. Pallet information can therefore be tracked through-out the entire logistics process and communicated to the customer's ERP system.

SUSTAINABLE TRANSPORT PACKAGING

In order to facilitate packaging of all pallet formats and varying pallet heights between 500 and 2,500 mm flexibly and cost-effectively with one and the same system, the cold end at Park Cam was equipped with two MSK Multitech / Recotech shrink hood systems. With an output of up to 50 pallets per hour, each of the compact and space-saving systems packs the glass containers on plastic or wooden pallets with either single or double hoods, using thin films up to 50 μm. The tried-and-tested MSK packaging system ensures perfect packaging and contact-free covering of the film hoods. The thinnest films can be used in conjunction with the undershrink process developed by MSK, in which the film is secured well below the pallet runners for maximum load stability. In addition to film savings, the selected heating system also ensures energy savings: a special MSK mixed air system heats the film in a targeted and gentle manner, while MSK heat recovery also ensures optimum energy efficiency. The MSK Multitech is a very maintenance-friendly system. In addition to being equipped with maintenance-free timing belts, the machine head can be lowered to working level which enables quick and easy maintenance without a platform or ladder. The EMSY software is also ideal for packaging: Different types of pallet loads can be individually packed thanks to a range of packaging programs in the database. Depending on the product to be packaged, the packaging program is readily available within the EMSY software. ■

Park Cam at MSK during Glasstec 2024

MSK Covertech Group
a family-run company