

Seamless cold end operations redefined by **MSK** technology

Leveraging EMSY software developed in-house, MSK delivers head-turning efficiency at the cold end via customized solutions that is able to process various bottle types coming by multi-gob technology at the hot end systems – all characteristics that contribute to the company's well-earned global leadership in glass production technologies after over 50 years of winning expertise.



Reiner Hannen,
President & Founder

A specialist in the entire cold end that designs customized solutions that are complete from planning, production and commissioning to after-sales service, since almost 50 years, MSK offers high efficiency, flexibility and expertise at the cold end from the lehr onwards, even for the demand of frequent job changes as a result of multi-gob technology at the hot end. Such solutions are able to navigate job changes that are fact and more frequent, dynamic line

management and flexible palletizing systems.

INVESTMENT SECURITY FOR THE FUTURE

The MSK approach is identifiable by a structured modular principle. That means customers are also equipped for future requirements thanks to standard equipment based on modular design variants. The EMSY software developed by MSK ensures automated, dynamic line guid-

ance with recognition and sorting of a wide variety of glass containers. Here uniform software provides the basis for efficient networking of all machines at the cold end and standardized interfaces to MES or ERP systems.

MSK plans, programmes and builds its systems itself, so it has full control over quality. MSK also attaches great importance to after-sales service in particular. With more than 50 of its own engineers, technicians and spe-

MSK EMSY service pad for simplified maintenance, troubleshooting and spare parts supply



EFFICIENCY THROUGH DIGITALIZATION

The entire cold end from the discharge conveyor after the lehr, with container transport to the palletizers, the pallet packaging system and the pallet conveyor technology to the warehouse, is all uniformly controlled using the company's own MSK EMSY software. MSK customers particularly value the software, which has already been supplied over 1,000 times. Interface-free, the cold end is a guarantee for sim-

cialists, MSK Service is available at five locations around the clock as required. Required spare parts are kept in stock in MSK's own spare parts warehouses and can be delivered quickly or manufactured specially for customers in its own production plants. Efficient staff training, regular maintenance, rapid troubleshooting and spare parts deliveries ensure on-site availability and performance. Remote support and digital software products from MSK are solutions that ensure optimum efficiency in customer service.

For 50 years now and with almost 7,000 systems sold, MSK has been shaping the international market as a technology leader through constant innovation and quality in the cold end sector. What makes MSK unique is its comprehensive product portfolio - from the outflow of the lehr to the warehouse, all from a single source. For over ten years, Christina Hannen and Linda Hannen have headed the 100 percent family-run company together as CEO and a strong female duo. They share a fascination for technology and pioneering innovations with company founder Reiner Hannen, who advises the management as President of the Board - still responsible for major investments within the Group.

Sustainable MSK packaging concepts for carbon reduction



High efficiency at the cold end thanks to MSK EMSY



LINE MANAGEMENT

ple operation and excellent efficiency. The software is precisely tailored to MSK machines and, thanks to easy-to-understand 3D animations and graphics, reduces training time for personnel and simplifies troubleshooting for the entire system. Once parameters have been entered, they can be automatically transferred to other machines. Moreover, important status information can be viewed at a glance.

Support at a distance and digital software products also ensure high efficiency in service. Here remote service via the MSK IXON Cloud enables errors to be localized without the need for on-site technicians. The system provides a secure connection for remote access to PLC software, EMSY operator screen and HMI screens for controlling machine panels or

in-field Ethernet components. The MSK software portfolio includes a digital MSK EMSY service pad for simplified maintenance, repair and spare parts supply. Digital assistance via camera, video and chat functions together with digital documents makes communication and support around the MSK system more efficient.

INNOVATION FOR SUSTAINABILITY

Since the beginning, customer challenges have often been the basis for MSK innovations. As one of the leading suppliers for the entire cold end, MSK sees itself as being responsible for implementing environmentally-friendly machine concepts, energy savings, minimizing emissions and digitalization in line with Industry 4.0.

In the field of packaging technology, the MSK shrink frame technology, which was established on the market back in 1981, combined with the MSK undershrink process is still the basis for millions of tons of CO₂ savings today. The reduction in film thickness from 110 µm in the past to 80 µm in most cases today was achieved while at the same time increasing the stackability of the glass container layers to a pallet height of up to 2.40 m and more. The lower film consumption and optimized truck utilization reduce the carbon footprint while halving transport costs. The use of PE tier sheets instead of cardboard trays results in 100 percent reusable or recyclable pallet packaging. The use of films with PCR content in MSK systems is also possible and well-established.

Machine features such as maintenance-free timing belt technology or the use of counterweights to reduce motor power through balancing reduce energy consumption and also increase the service life of the systems. Water-based powder coatings and the avoidance of hydraulics and lubricants protect the environment. MSK will be presenting its latest cold end solutions at Glasstec 2024 in Düsseldorf in Hall 13, Booth C30. ■



Linda and Christina Hannen, CEO

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