Efficiency at the cold end

MSK specialises in the entire cold end and designs customised solutions, from planning, production and commissioning to after-sales service.

Pic 1. Efficiency at the cold end thanks to MSK EMSY.

MSK solutions are characterised by a structured modular principle, which means customers are also equipped for future requirements with basic machines.

The EMSY software developed by MSK ensures automated, dynamic line guidance with recognition and sorting of a variety of glass containers.

The uniform software provides the basis for efficient networking of all machines at the cold end and standardised interfaces to MES or ERP systems.

MSK plans, programmes and builds its systems itself, so it has full control over quality. It also attaches importance to after-sales service in particular. With more than 50 of its own engineers, technicians and specialists, MSK Service is available at five locations around the clock if required

Spare parts are kept in stock in MSK's own 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.

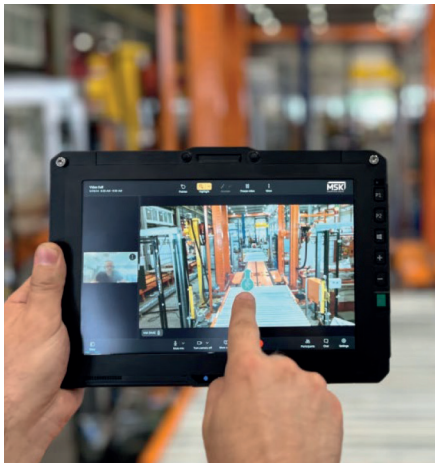
Remote support and digital software products from MSK are solutions that ensure efficiency in customer service.

For 50 years now, and with almost 7,000 systems sold, MSK has shaped 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 more than 10 years, Christina and Linda Hannen have headed the 100% 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 and is still responsible for major investments within the group.



Efficiency through digitalisation

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

The cold end without interfaces is a guarantee for simple operation and efficiency. The software is tailored precisely to MSK machines and, thanks to 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. Important status information can be viewed at a glance.

Remote support and digital software products also ensure efficiency in service. Remote service via the MSK IXON Cloud enables errors to be localised 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.

Sustainability

Since the beginning, customer challenges have often been the basis for MSK innovations. MSK sees itself as responsible for implementing environmentally-friendly machine concepts, energy savings, minimising emissions, and digitalisation in line with Industry 4.0.

In the field of packaging technology, the MSK shrink frame technology, which was established in 1981, combined with the patented Undershrink process, is still the basis for millions of tons of CO_2 savings today.

The reduction in film thickness from 110µm in the past to 80µm 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 2.40m and more.

The lower film consumption and optimised truck utilisation reduce the carbon footprint and halve transport costs. The use of PE tier sheets instead of cardboard trays results in 100% reusable or recyclable pallet packaging. The use of films with PCR content in MSK systems is also possible and 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 presents its latest cold end solutions at Glasstec 2024 in Düsseldorf: Hall 13, Booth C30.

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www.msk.de