

# Taking care of minor and severe wounds

Ouch! Every kid gets scraped knees from time to time. A hug, a handkerchief to dry tears and a wound dressing from HARTMANN help to treat grazes – but also large wounds.

Web processing and cartoning from a single source: The turnkey line for PAUL HARTMANN AG located in Heidenheim will produce and package ultra-modern wound dressings in a wide range of formats.

**W**hen Ludwig von Hartmann acquired a mechanical cotton spinning mill in Heidenheim over 200 years ago, he would have never imagined that one day his company would revolutionize wound care. It was his visionary son Paul Hartmann senior, who built a dressing material factory and, together with his partners, produced the first antiseptic wound dressings – a revolution in medicine that rapidly reduced patient mortality.

Since the early 19th century, products made by today's PAUL HARTMANN AG

have been helping to treat small and large wounds all over the world – be it a child's scraped knee or a wound that is difficult to heal and requires innovative solutions. These include, for example, a high-tech wound dressing with a silicone wound contact layer, which is not only self-adhesive but also atraumatic, thus enabling almost painless dressing changes. This type of modern wound treatment is particularly important for persistent chronic wounds.

HARTMANN and Harro Höfliger look back on more than two decades of successful cooperation in the field of classic

and modern wound management products. The processes for manufacturing, finishing and bagging of this silicone product with its innovative materials have also been jointly developed. In addition, Harro Höfliger received the order for an automated cartoning machine for the products.

"Some special wound dressing formats are not yet produced on high-performance systems. To achieve greater efficiency, it was important for us to integrate a high-performance cartoning machine into the line; this will enable us to flexibly cover the entire product range,"



*"We integrated a high-performance cartoning machine. This will enable us to flexibly cover the entire product range."*



Bernd Ott, Senior Technical Project Coordination Manager at the HARTMANN GROUP

**MKC – highly flexible in every respect**

The cartoning machine MKC in continuous motion can either be operated as a stand-alone machine or integrated into a line. Different modules in the area of product infeed, product transport, product insertion, and folding carton closure make it possible to configure the machine individually for the respective final products and a wide range of formats – and the MKC 15" particularly for large sizes. Thanks to the continuous product insertion that can be pulled out towards the rear, the machine front is flat and offers optimum accessibility for the operator.

In order to guarantee quality assurance and to increase the counterfeit protection of drugs, the packaging system can be easily equipped with all necessary processes for serialization. To this end, the folding cartons are individually marked and captured by an image processing system.



**About the HARTMANN GROUP**

The HARTMANN GROUP is a leading European supplier of system solutions for medicine and healthcare. Every day, healthcare professionals and patients rely on HARTMANN's product brands in the core segments Incontinence Manage-

ment (including MoliCare®), Wound Management (including Atrauman®) and Infection Prevention (including Sterillium®) to improve health and well-being. In 2019, HARTMANN achieved a turnover of EUR 2,187 million euros. The company was founded in 1818 and their products and solutions are present in 130 countries around the world.



says Bernd Ott, Senior Technical Project Coordination Manager at the HARTMANN GROUP.

Currently under design and construction is an approximately 30 meter long turnkey line consisting of web-processing PMK and continuous cartoning machine MKC 15". One of the core processes is the combination of the most diverse material layers: Both hydrophobic and hydrophilic components are combined to meet the high user requirements.

**Up to 80 cartons per minute**

Every single wound dressing made by HARTMANN aims to contribute to improved wound healing, and this requires perfect quality. The wound patches are individually packaged into four-side sealed pouches, printed with the product data and then forwarded to the MKC 15".

Two cascade feeders group the desired number of pouches into stacks and transfer them to the product transport of

the cartoner. This enables the continuous lateral filling of up to 80 folding cartons per minute with pouches and pre-folded package inserts, followed by closing and printing with relevant data. Here too, sensors and camera systems are used for quality monitoring so that flawless products can help to heal large and small wounds. ■