



CORRUGATED CARDBOARD FOLDING: 100% CUSTOMER SATISFACTION

Thanks to PerfectFold, the Czech packaging manufacturer Solpap has reduced customer complaints about inaccurate folding to zero. Customers appreciate the consistently accurate cardboard box dimensions and increased cardboard box stability.

Corrugated cardboard is lightweight and stable, making it a preferred choice for shipping and transport boxes. However, precisely folding corrugated cardboard is challenging. «High restoring forces are at work, which can lead to fold breakage, inaccurate fold lines and tool wear,» explains Milan Jiruška, Production and Technical Manager at Solpap. The Czech packaging manufacturer Solpap produces more than 15 million packaging items per year. «With this production volume, it is very important for us to minimize rejects and customer complaints due to inaccurate folding,» says Jiruška.

The precision of the folding is key for producing straight folded edges, which reduces gap variance and fish-tailing. As a result, erected cardboard boxes have accurate internal dimensions

for precisely fitting inserts. In addition, these cardboards are better for stacking, feeding into the machine, erecting, filling, gluing and closing.

PerfectFold liquid creaser

In spring 2023, Solpap received a newsletter from Kaletech, Robatech's representative in the Czech Republic. «When Kaletech presented the PerfectFold liquid creaser, I knew immediately that this system could be a good fit for us,» says Jiří Horák, Head of Sales at Solpap. «We have had a successful collaboration with Kaletech in the field of adhesive application systems from Robatech for many years and have had great experiences. That's why we asked for a quote in May 2023.»

PerfectFold applies the «SpeedUp» creasing fluid contact-free to the



THE CUSTOMER

Solpap is a leading manufacturer of transport and product packaging in the Czech Republic, headquartered in Třebechovice pod Orebem. Every year, the family-owned company ships more than 15 million corrugated and solid cardboard packaging materials around the world.



Cardboard boxes need precise internal dimensions for inserts to fit easily.



Application of SpeedUp creasing fluid at packaging manufacturer Solpap.



«Since we started using Robatech's PerfectFold liquid creaser, our customer complaints due to inaccurate folding have fallen by 100%. PerfectFold has fully met our expectations.»

Jiří Horák

Head of Sales, Solpap

two fold lines of the cardboard using one application head each. The creasing fluid reduces the stiffness of the corrugated cardboard, which is why it can be folded precisely along the fold lines with little effort. This allows the folding box machine to work at a higher production speed. The effort for setting up the folding tools is reduced. No fold breakages occur on the fold lines and gap variance and fishtailing are prevented.

Quick installation

PerfectFold was already in operation at the Czech packaging manufacturer in August 2023. Tomáš Langer, Project Manager at Kaletch, recalls: «We used a scheduled maintenance day at Solpap to install Robatech's liquid creaser and trained the staff on

another day. The system is relatively simple.»

PerfectFold consists of a supply unit, two Sempre 30 jetting heads, the AS 50 pattern control and an external operating unit with touch panel positioned next to the production line control panel. The pump and buffer tank in the supply unit enable a changeover of the liquid containers on the fly. An I/P converter ensures that the correct amount of liquid is always applied to the fold lines despite changing production speeds.

Milan Jiruška is delighted: «We were surprised at how quickly and easily Kaletch installed PerfectFold. We had to make virtually no adjustments during operation.»

Seven months later

What has been Solpap's experience with PerfectFold in the meantime? Head of Sales Jiří Horák summarizes: «Since we started using the liquid creaser, our customer complaints due to inaccurate folding have fallen by 100%. In the past, we received the most complaints about boxes made of double-wall cardboard because of the high restoring forces and about large boxes. Imprecise fold lines are immediately evident. When the cardboard boxes are closed, the flaps overlap or there are gaps. Today, the dimensions are consistently accurate. We also no longer receive complaints about cardboard boxes being

glued off-position.»

Jiří Horák mentions another additional benefit: «The corrugated cardboard boxes are more stable and our customers are happier. I can truly say that PerfectFold fully met our expectations.»



Solpap is headquartered in Třebechovice pod Orebem, Czech Republic.



PerfectFold is a relatively simple system.

ROBATECH

Robatech optimizes the industrial hot melt and cold glue application with sustainable and innovative adhesive application systems. Since 1975, Robatech has been developing and producing high-quality control systems, application heads, melters, and dosing systems that make gluing processes more environmentally friendly, safe, and straightforward. The Robatech Group, headquartered in Muri/AG, Switzerland, is represented in more than 80 countries. More than 670 dedicated employees worldwide provide personal and fast customer support in a wide range of industries.

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