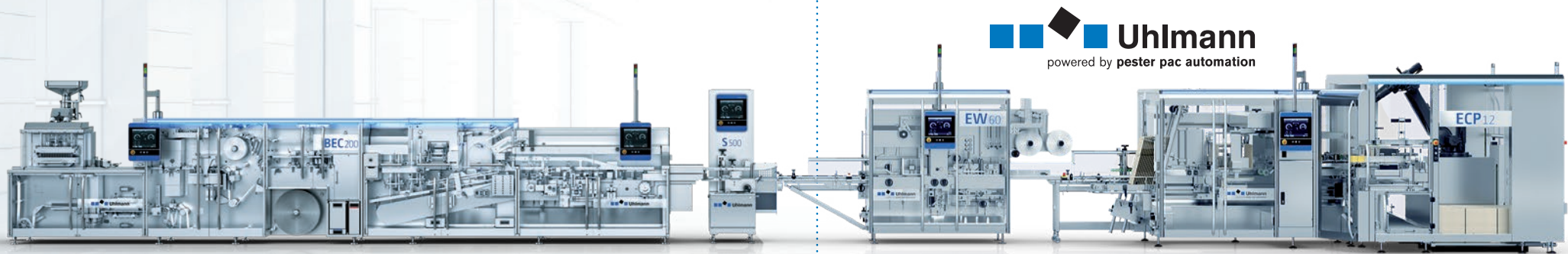# Efficient and reliable across the whole line

From blistering to palletizing ready for transport and dispatch:
'Uhlmann powered by pester pac automation' end-of-line packaging machines are the perfect way to finish complicated pharmaceutical packaging processes. These machines are the result of a partnership between two experienced mechanical engineering specialists. The blister machine, cartoner, serialization unit, overwrapper and case packer with palletizer work in a fully integrated way. All of the line elements are controlled via the user-friendly SmartControl with a uniform design from Uhlmann in an intuitive control system which minimizes errors.

Uhlmann
powered by pester pac automation

For a fully integrated packaging line – highly productive, adaptable and reliable.

High-speed line performance. Low life cycle costs

An ideal scenario for those managing packaging and logistics in the pharmaceutical industry would be to have a fully integrated packaging line for pharmaceutical products where everything really fits together. However, in practice, they often have to put together their own packaging lines, often made up of machines and modules from different providers. As a system solution provider, Uhlmann must show its customers all aspects of packing pharmaceuticals in blister packaging, bottles and cartons. With its 'Uhlmann powered by pester pac automation' end-of-line packaging machines, Uhlmann sets new standards for complete solutions as a total solution provider.

Two intelligent technologies in a single machine

'Uhlmann powered by pester pac automation' – the name says it all: The four models on the production line are the result of excellent teamwork. For this project, a shared philosophy defined a concept of flexibility and automation. Accordingly, the models have been developed to cover as wide a range of applications as possible. For instance, the stretch-banding machine can process folding cartons into various package formations and the case packer
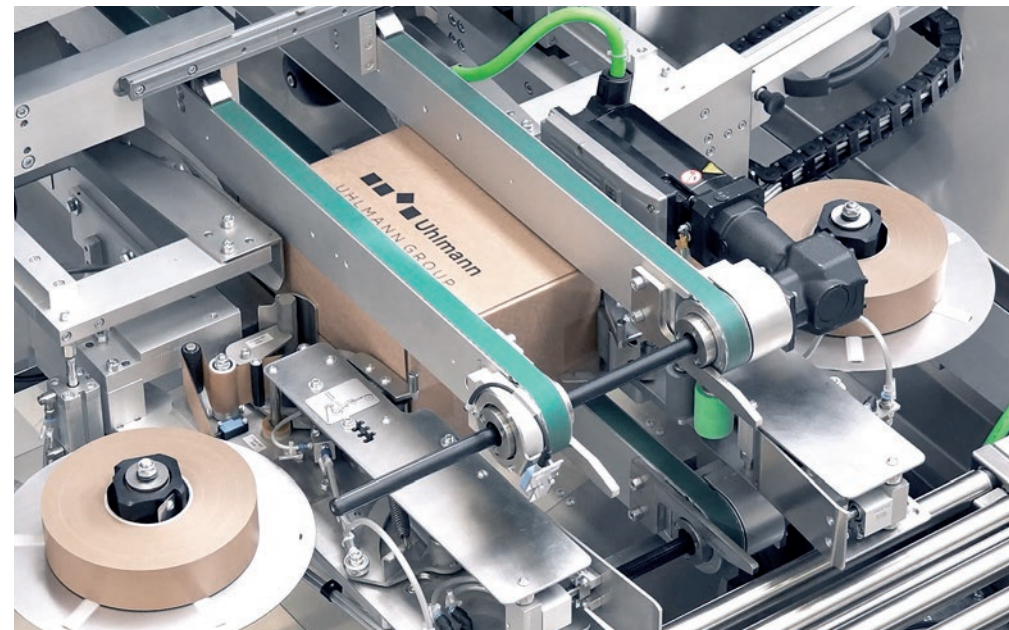
can pack small and large folding cartons into small and large cases. The high degree of automation ensures maximum process reliability and processing speed. The control software and user interfaces (HMI) have been designed so that they can be integrated into existing Uhlmann packaging lines and the operating logic is identical across the entire packaging process. Operators quickly learn how to use the system and SmartControl reduces the risk of operating errors down to a minimum. All of the machines have been designed so that the stacker, grouping and feeder are easily accessible and within easy reach for operators. Moreover, the large magazines reduce the time required for reloading.

Four carrier belts safely transport the cases into their precise position during the process and allow adhesive tape to be applied with precision.

Integrated pharmaceutical security
A key requirement of packaging solutions in the pharmaceutical industry is that individual packaging units must be traceable. The new end-of-line packaging machines are set up for this, making it easy to implement tracking systems such as Track & Trace by Uhlmann, medical device tracking and cold chain tracking.

Machines can be guided precisely without interruption
The 'Uhlmann powered by pester pac automation' end-of-line packaging machines also stand out thanks to their other features. For instance, a foil splicer enables the foil rollers to be changed during operation. In addition, a counter support for the product insert ensures that even folding cartons of a smaller size are transported safely. Meanwhile, in the case packer, the drives for the case transport chain are located at the top, at the bottom and pulling at the corners. Four carrier belts safely transport the cases into their precise position during the process and the adhesive tape can be applied with precision.

❝ Our new end-of-line packaging machines cover a lot of requirements. If the system still isn't working, as your turnkey partner, we can integrate another model from pester pac automation's range.

Ralf Brehm, Senior Design Engineer, Uhlmann Pac-Systeme

❝ The complete line concept is intended for packing challenging products quickly and without interruption so that they are ready for dispatch. In doing this, we want to give operators all options to be flexible in implementing new requirements.

Konstantin Gerbold, Global Product Manager, Uhlmann Pac-Systeme

Uhlmann powered by pester pac automation ➕
Compact, GMP-compliant machine design over the entire line

Uhlmann powered by pester pac automation ➕
Ready for Track & Trace functions

Uhlmann powered by pester pac automation ➕
Foil splicer enables roller changing during operation

Uhlmann powered by pester pac automation ➕
Products can be guided with precision, even in small formats

On the same line. At all levels.
The foundations for a partnership could hardly have been more ideal, with Uhlmann a globally leading system provider for the complete pharmaceutical packaging process combined with pester pac automation's extensive expertise in end-of-line packaging for pharmaceutical and consumer goods. From the outset, everybody involved in this 'end-of-line packaging machine cooperation project' had a shared objective – to simplify the challenges faced by our customers and provide a complete solution. Ralf Brehm, Senior Design Engineer at Uhlmann, puts it this way, 'pester works in more or less the same way as we do and has similar structures and ways of thinking. This played a major role in the development process and the quality of the new end-of-line packaging machines.' Manfred Albrecht, Associate Technical Director for the Pharma Business Unit at pester pac automation, shares this view, adding that, 'everybody pulled together in this partnership project.'

First machines successfully in production
In late July 2020, the combined packer ECP 12 appeared live on Uhlmann's online platform in two example line configurations for solids and parenteral solutions. The new generation of machines is also incorporated into Uhlmann's website, with its own menu tab and detailed information about each of the four models. Since then, some of the new end-of-line packaging machines have already been put into operation in the field. 'This success was only made possible by the cooperation between two experienced mechanical engineering specialists,' says Konstantin Gerbold. 'By working with pester pac automation, we were able to increase benefits to customers considerably. I believe that this partnership will lead to more development projects in the future.'

> ❝ **You will obtain pharmaceutical excellence across the whole line, with clear added value for your productivity and flexibility. We are synonymous with sustainable and intelligent packaging technologies and offer all of our experience.**

Norbert Rechner, Managing Director of pester pac automation

> ❝ **Our strength is our expertise in line machinery – we can crate tailored complete solutions for every customer and provide comprehensive services. Our partnership with pester pac automation to integrate end-of-line packaging machines once again demonstrates our innovativeness in developing economic and reliable complete solutions.**

Michael Mrachacz, Managing Director of Uhlmann Pac-Systeme

Pharmaceutical excellence across the whole line

End-of-line packaging machines integrated without wires for consistently productive and safe packing

The **strech bander ES 60** bundles folding cartons for all pharmaceutical applications into multi-layered, perfectly banded and contracted packages. It can cope with any formation and always delivers the same high production performance.

Infeed	Max. 500 folding cartons/min.
Carton size [L x W x H]	Max. 150 x 90 x 180 mm
Output	Max. 60 bundles/min.
Bundle size [L x W x H]	Max. 340 x 250 x 180 mm

The **overwrapper EW 60** wraps individual or cases of packages in heat-seal-able film. Flexible, fully automated and with the highest level of counter-feit protection, any subsequent modifications made to products are immediately apparent.

Infeed	Max. 500 folding cartons/min.
Carton size [L x W x H]	Max. 150 x 80 x 250 mm
Output	Max. 60 bundles/min.
Bundle size [L x W x H]	Max. 250 x 140 x 250 mm

The **case packer EC 12** packs folding cartons and packages ready for dispatch in transit cases according to the side-loading principle. It is compact, very precise and tailored to the Uhlmann cartoners in the format area and with respect to performance.

Infeed	Max. 500 folding cartons/min. 60 bundles/min.
Carton size [L x W x H]	Max. 440 x 150 x 250 mm
Output	Max. 12 cases/min.
Case size [L x W x H]	Max. 600 x 400 x 400

The **ECP 12 adds a two-stage palletizer module to the case packer** – for consistent, automated end of line packing with carton handling, labeling, monitoring and palletizing in a single system.

Infeed	Max. 500 folding cartons/min. 60 bundles/min.
Output	Max. 6 palletizing cycles/min.
Case size [L x W x H]	Max. 600 x 400 x 400 mm
Case weight	Max. 22 kg
Loaded pallet height	Max. 1300 mm

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Pharmaceutical expertise ››
from pester pac automation

IN DETAIL
Pharmaceutical excellence ››
across the whole line

COMPACT
End-of-line packaging ››
machine facts

CLOSE BY THROUGHOUT THE WORLD
Your contact person ››
around the globe