



BEC 300

COMPACT AND FLEXIBLE RESPONSE
TO DYNAMIC MARKETS.

Anyone wishing to achieve top performance must focus passionately on a goal. True to this maxim, Uhlmann has concentrated for over 65 years on highly efficient packaging systems for the pharmaceutical industry – and that alone. Not only does an Uhlmann embody outstanding technology, but also amalgamated knowledge of the needs and market requirements of the pharmaceutical sector. Outcome is the assurance of having a partner at your side who fully understands all aspects of your business. And who masters the pharmaceutical processes along the entire value-added chain like no other. Our leading position worldwide is largely due to one factor: the trust customers place in the excellence of our personnel. They have a special way of thinking and acting holistically in pharmaceutical dimensions. Strong, open-minded, reliable.

This difference is unmistakable. In more than 80 countries. On every day, on which machines and services made by Uhlmann help you to secure the crucial competitive edge in your markets.



AN UHLMANN IS UNMISTAKABLE.

SPECIALIZED IN PHARMACEUTICAL PACKAGING,
IT PROVIDES DISTINCTIVE ADDED VALUE DAY IN,
DAY OUT.

CAN A BLISTER LINE SURPASS ITS VALUE?

Without doubt, technical parameters are a vital indication of performance. In reality, however, the added value of a packaging line becomes apparent during day-to-day use in production. How high is the effective uptime? How do product forms and types of packaging impact the actual output? How quickly are format changeovers and line clearance really completed? And, not least, how smart is the operating system for the user in practice?

The latest generation of the BEC 300 aims to set new standards in all of these disciplines. With a number of well-devised details, which, in their entirety, account for the significant difference.

BEC 300. THE ADDED-VALUE MACHINE IN THE COMPACT RANGE.

The global pharmaceutical markets are progressively demanding packaging sizes tailored to regional and target-group needs. Developed on the basis of intensive dialog with our customers, the new generation of the Blister line BEC 300 combines maximum performance with utmost versatility and reliability. Not only for standard formats, but also for large, rigid aluminum blisters, and unusually shaped solid dose products.



The powerhouse.

- Processes small to medium-sized batches of 10,000 to 70,000 packs
- Integrated line with compact footprint, approximately eight meters in length
- Maximum output 300 blisters and 150 (optionally 300) cartons per minute

The undemanding.

- Intuitive operation and straightforward, guided format changeovers with the SmartControl operating system
- Tool-free format changeover in 30 minutes on account of few, lightweight format parts
- Fast, reliable, and easy line clearance on account of smooth surfaces and optimized fill section

The all rounder.

- All types of forming material, product shapes, cartons, and leaflets
- Blister pockets up to 40 mm in length, cartons up to 100 mm in height
- Extremely variable order sizes
- Tailored, modular configuration, subsequently upgradable for future requirements

The trendsetter.

- Latest control and drive generation with separate servo-regulated drives
- Innovative user interface SmartControl, dual control concept with two panels
- SmartXchange with USB flash drive

PREPARED FOR ALL NEEDS.

CONFIGURABLE AS REQUIRED – AND ALWAYS IDEALLY SYNCHRONIZED.

The BEC 300 links a Blister machine B 1330, a cartoner, and a feeder to form a perfect unit. In order to align the line to suit your operating needs, you can choose between two cartoners and three feeders. No matter which configuration you favor, one factor remains constant: your BEC 300 secures a smooth packaging process with optimally coordinated modules – all from a single source.



SimTap feeder

The “simultaneous tablet placement” method of feeding is ideal for the dedicated placement of solid dose products in the blister pockets – even in the case of unusually shaped products. The SimTap feeder is suitable for PVC as well as aluminum forming materials.

Blister machine B 1330

Central element of the BEC 300 is the single-lane, compact Blister machine B 1330. This is destined to cost-effectively package varying batches for different target groups on the smallest of footprints.

Cartoner C 2155

The intermittent motion cartoner C 2155 handles a maximum of 150 cartons per minute. It is specifically geared to small and medium-sized batches, and processes cartons up to 115 x 100 x 150 mm in size.

Additional Feeders

Perfectly aligned to the product. From the very first process step. In addition to the SimTap feeder (photo left), two optional feeding systems are available for seamless integration into the BEC 300: the vibratory feeder and the flood feeder.



Vibratory feeder

This feeder comprises just a few format parts and is particularly suited to the fast and cost-effective feeding of tablets and capsules of simple geometry. It is easy to clean and requires no tools for a format changeover. The vibratory feeder can be used both with PVC and aluminum forming materials.



Flood feeder

This feeder dispenses with the need for format parts specific to the product form. As a result, it is extremely versatile and scores with low product-related follow-up costs. The parts that come into contact with the product are quickly replaced.

Optional Cartoner

In practice, the BEC 300 covers the majority of all conceivable applications with the customarily integrated Cartoner C 2155. The Cartoner C 2305 is optionally available to meet special requirements, e.g., the fast packaging of single blisters. Both cartoners are primed for Track & Trace upgrades.



Cartoner C 2305

The continuous motion Cartoner C 2305 is designed for a maximum output of 300 cartons per minute. The unmatched, automated format adjustment of all stations enables a particularly fast and error-free changeover in no more than 15 minutes.

TOUCH & TEACH.

LINE COMMAND WITH SMARTCONTROL.

Uhlmann radically simplified the operation of packaging lines with the introduction of SmartControl. The convenient and functional SmartControl user interface leads the operator through processes using production assistants. These guarantee step-by-step execution of standardized procedures: for example, fast and optimum implementation of a product changeover. Two SmartControl panels on the BEC 300 allow the operation of all stations from different positions. This reduces walking distances and lends the entire process greater transparency.



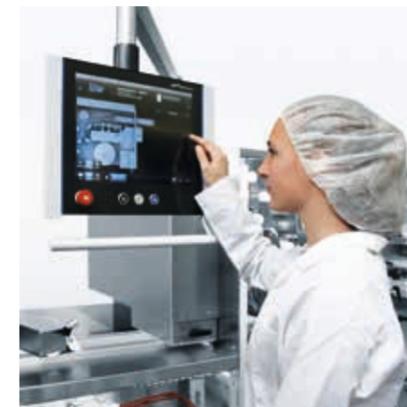
Smart down to the last detail.

- Web-based technology for complete integration of machines and aggregates from other manufacturers
- Uhlmann apps for the simple integration of supporting operating functions
- Decentralized monitoring and operation possible – also via mobile operating panels
- Automatic generation of production and parameter records in compliance with 21 CFR Part 11



3D Visualization

SmartControl visualizes the stations in a spatial dimension. Operating elements are directly assigned to their function. Consequently, personnel only require a short familiarization period to acquaint themselves with the line.



Everything at a Glance

The intuitive operation of the BEC 300 via two SmartControl panels simplifies monitoring and operation of the whole line. Each mounted on an adjustable support arm, the panels can be positioned for every section of the line.

MAXIMUM FLEXIBILITY IN EVERY DIMENSION.

HIGHER, LONGER, DEEPER – FOR GREATER APPLICATION VERSATILITY.

Designed for maximum efficiency in the packaging of small and medium-sized batches, the BEC 300 has an output of up to 300 blisters and 150 cartons per minute – in non-stop 24/7 operation. It scores with top performance even in the case of large, rigid aluminum blisters and unusually shaped solid dose products and formats. The blister pockets can be up to 40 mm in length and cartons up to 100 mm in height. In other words, the BEC 300 has the smallest of footprints yet offers greatest flexibility.

Optimum carton height.

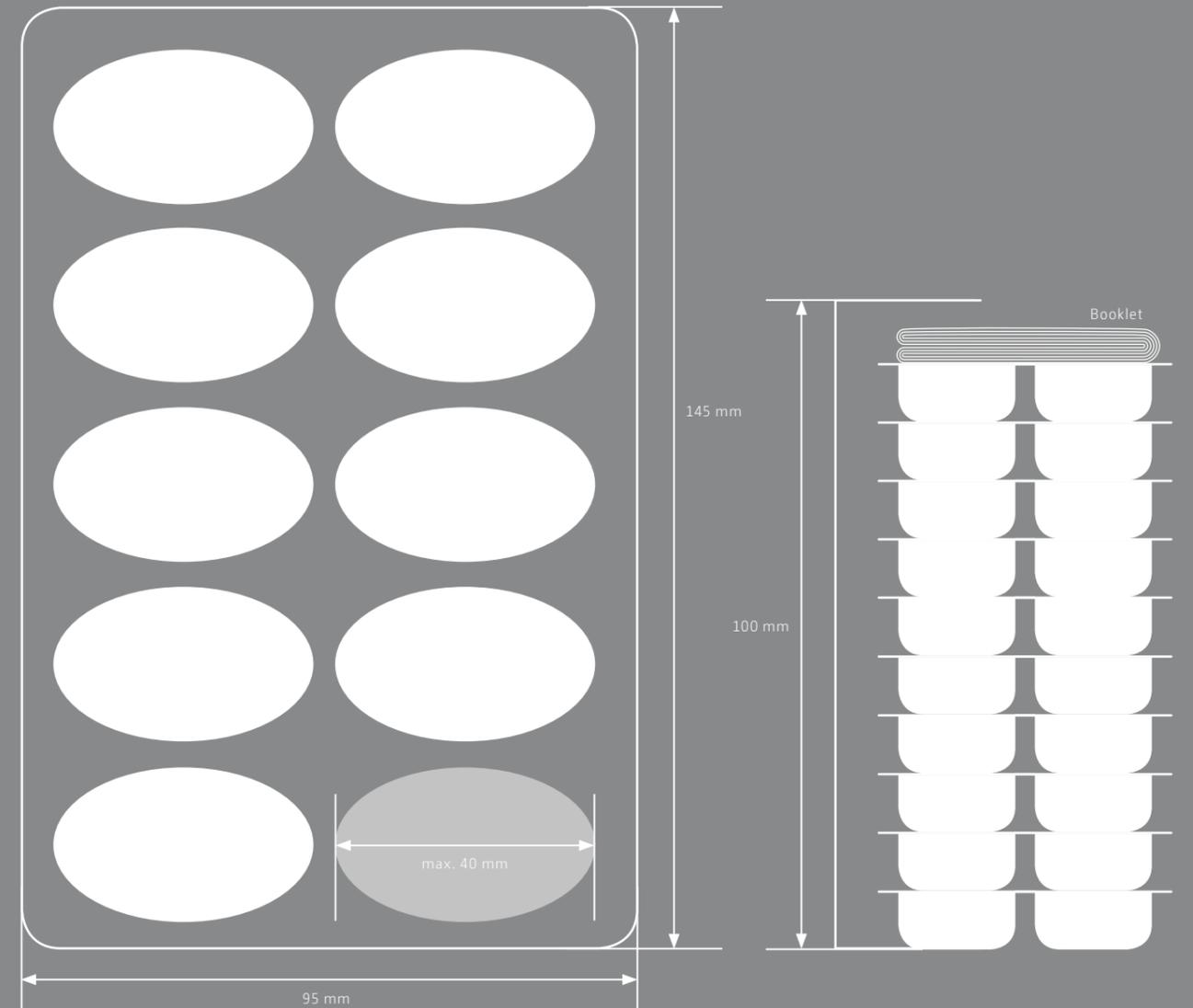
The BEC 300 handles cartons up to 100 mm in height. As an example, this permits optimum packaging of a 10-blisters stack of size 00 capsules plus booklet.

Blister pockets in all lengths.

The polygonal roller of the BEC 300 allows the processing of aluminum blister pockets up to 40 mm in length. Consequently, very long tablets, such as oblongs or capsules, can be reliably packaged on the line.

Cartons for all needs.

The BEC 300 can easily handle all common carton layouts with different forms of closure. These range from simple tuck-in, to hot-melt, to tamper-evident, e.g., with a fourth flap or a combination of options. The line is primed for the integration of digital marking systems for serialization and aggregation purposes.



DETAILS THAT GIVE YOU A LEADING EDGE.

THERE IS MORE TO THE LINE THAN MEETS THE EYE.

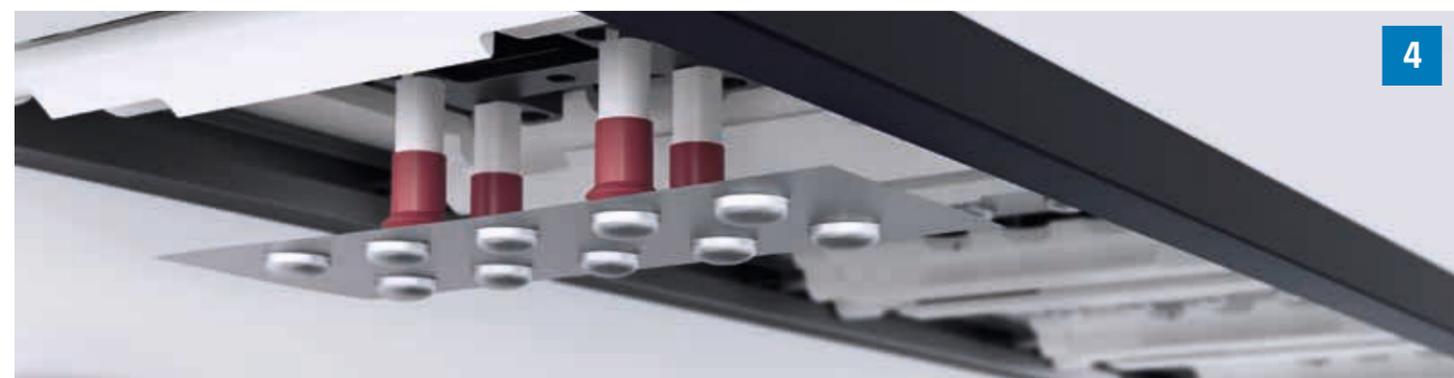
Fast processing of all materials.

The BEC 300 can process both thermoforming and aluminum materials at a maximum speed of 15 m/min. All sizes of blisters, even aluminum ones, can be run at the full forming cycle speed of 90 1/min. All the feeding systems allow optimum capacity utilization with maximum filling efficiency.

Top performance in 24/7 production.

The BEC 300 is geared to mechanically demanding, continuous output. It competently meets the top output capacity in 24/7 production.

- 1 Fast format changeover.**
Tool-free format changeover with few, lightweight, and low-priced format parts. Easily completed by the operator in 30 minutes.
- 2 Everything revolves around quality.**
A sealing roller with line knurling and a pivotable bearing to compensate thickness differences in the forming material. A servo-regulated index roller with indirect cooling to protect the products and minimize forming material shrink. Optional polygonal roller for the processing of large, rigid blister pockets.
- 3 Fast, reliable, and straightforward line clearance.**
Smooth surfaces ensure optimum cleaning and the cantilever design allows good visibility.
- 4 Direct, integrated, and compact blister transfer.**
Format-free unit. Forced removal and separation of partially filled blisters and waste material.



A photograph of two men in dark suits shaking hands. The man on the left is smiling and looking towards the right. The man on the right is also smiling and looking towards the left. The background is a bright, slightly blurred indoor setting.

BE DISCERNING – 360° PHARMA PACKAGING.

EVERY MACHINE THAT LEAVES OUR PRODUCTION HALLS
EMBODIES AN UNRIVALED PLEDGE.

Best-in-class for pharmaceutical packaging. Uhlmann addresses this challenge day in, day out, all over the world. In every area, and from every viewpoint. After all, as far as maximum productivity is concerned, you cannot be too discerning. As a market leader in pharmaceutical packaging, Uhlmann does its utmost to meet the market demands of maximum efficiency in the packaging process – along the entire value-added chain and over the full life cycle. That is why Uhlmann offers machines and lines that have set standards in the sector for generations.

However, our pledge, 360° PHARMA PACKAGING, does not stop there. It includes an extensive range of competent services that secure maximum uptime and efficient production in the long term. Based on the foresight of a reliable partner, initiator, and adviser.

WE SHOW UP WHEN NEEDED.

AROUND THE CLOCK, AROUND THE WORLD:
DISCOVER UHLMANN CUSTOMER SERVICES.

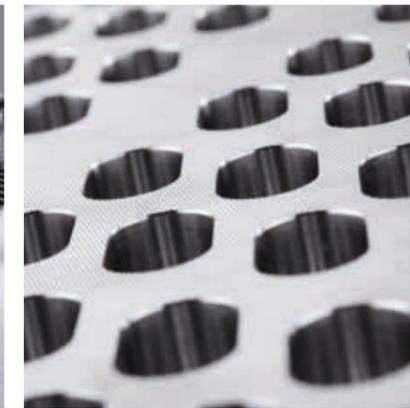


Learn more about Uhlmann
Customer Services.



Spare parts – quickly available.

Straightforward ordering – prompt delivery. You receive all original spare and standard parts from Uhlmann within the shortest possible time. If required, we also complete professional installation. Implementation of our spare parts management options helps you to optimize your inventory and save costs.



Tools and format parts in original manufacturer quality.

Every detail plays a key role in high precision. The experts at our centers of excellence for tools and format parts in Germany and the USA are dedicated to their job: they design, draft, plan, produce, and test. The outcome speaks for itself: precision tools and format parts in top Uhlmann quality.



Always state of the art – upgrades and rebuilds.

You are always 100-percent up to date with our upgrades. Uhlmann specialists scrutinize your packaging machines and modernize them in compliance with latest technological standards. Or you decide in favor of one of our fully overhauled rebuilds.



Best advice: the specialists in pharmaceutical packaging.

Efficient operation over the entire life cycle? A consistently high uptime level? No problem. You select your individual Uhlmann “no-worries” service package. Professionally managed by some 400 service specialists worldwide.



Comprehensive support knows no compromises.

Anyone attaching great importance to a high level of machine availability must take various aspects into consideration. The best solution is to refer to us. We provide prompt support when things get tight. Either via our telephone hotline or our remote service using a secure data connection. Support tailored to your needs.



On-site services – worldwide.

From A, such as Angola, to Z, such as Zimbabwe. It makes no difference to us where your production facilities are located – we are at your disposal! Our 100 service technicians based worldwide are soon on hand when needed. The bottom line is minimum machine downtime and maximum production efficiency.



Automation and software – made by Uhlmann.

Trust is good, control is a must: production data acquisition (PDA) records the data of individual machines; SCADA increases transparency and allows the smooth coordination of all machines. Track & Trace solutions meet a wide range of serialization specifications – for reliable, traceable, and cost-optimized production.



Leading edge through knowledge – Uhlmann TopmanTraining.

Trained, tested, and ready for top performance: with our tailored, GMP-compliant TopmanTraining. State-of-the-art packaging machines are available at the certified training center based at Uhlmann’s headquarters in Laupheim. The outcome is added routine and efficient production processes. Your operation reliability improves significantly.

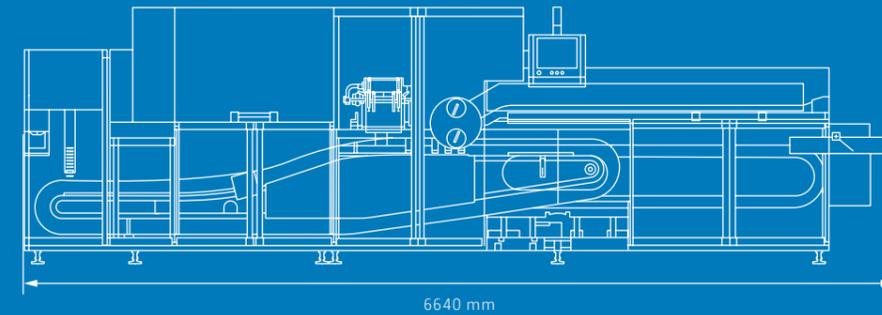
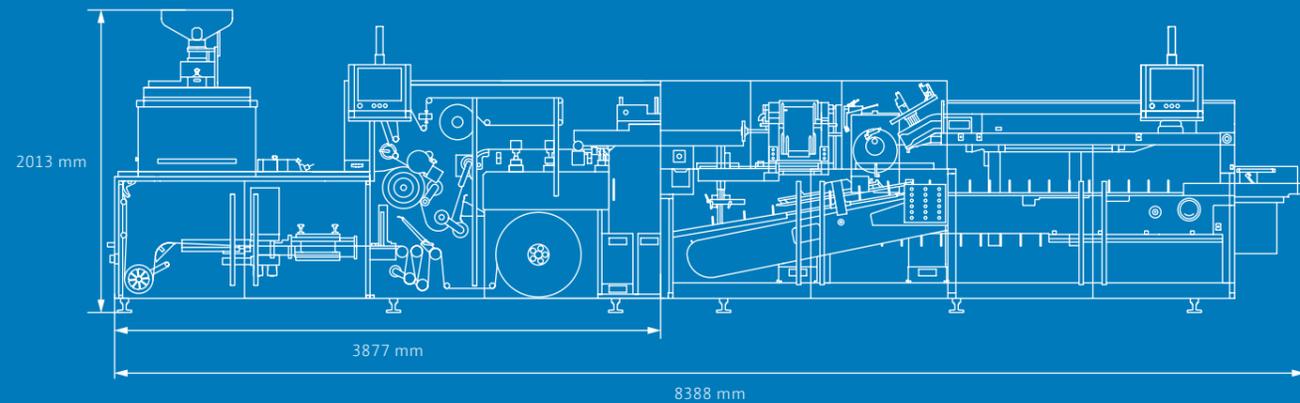


On the safe side – with validation and calibration.

Qualified and reliable processes, top production quality, and ideal reproducibility: validation provides documentary evidence that all URS requirements are met. Furthermore, the regular, professional calibration of all components operating with critical, quality-related measurements ensures long-term process reliability.

CLEAR FACTS. OBVIOUS BENEFITS.

THE TECHNICAL DATA OF THE BEC 300.



Blister module

Output	max. 300 blisters/min.
Mode of operation	single-lane
Scope of application	solid dose products
Sealing principle	rotary sealing
Blister format	max. 95 x 145 mm
Forming depth	max. 12 mm
Reel diameter	forming material max. 600 mm lid material max. 300 mm
Processable forming materials	Al laminates, PVC, PVC/PVDC, PVC/Aclar PP
Processable lid materials	hard Al, soft Al, paper/Al, Al with defined hardness, others on request

Cartoner module

Output	max. 150 cartons/min.
Mode of operation	intermittent
Carton size [A x B x H]	max. 115 x 100 x 150 mm
Pitch	140 mm
Number of blisters	max. 10
Blister stack height	max. 95 mm
Types of closure	tuck-in and hot-melt

Cartoner C 2305

Output	max. 300 cartons/min.
Mode of operation	continuous
Carton size [A x B x H]	max. 105 x 105 x 155 mm
Pitch	5"
Number of blisters	max. 10
Blister stack height	max. 100 mm
Types of closure	tuck-in and hot-melt

To find your personal contact person and our locations worldwide please visit www.uhlmann.de



THE **HEARTBEAT** OF PHARMA PACKAGING

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