MediSeal

Pharma Packaging Technology

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MediSeal - Synergies under one strong roof

MediSeal belongs to the KÖRBER MEDIPAK group of companies and - together with Swiss packaging specialists Rondo and Dividella - offers a full range of packaging systems. Benefit from the synergies of a strong group and take advantage of low-cost solutions for your production!



Cartoner		P1600 mm		P3200 mm
Advantages		120 pitch	180 pitch	120 pitch
Compact, modular construction	Carton length	65 - 150	65 – 200	65 - 150
Fast change-over	Carton width	35 – 90	50 - 150	35 - 85
• Low format part and maintenance costs	Carton height	15 - 95	15 - 110	12 - 95
Noise emission < 70 dB				
	Output, cartons per minute	10 - 150	10 - 100	20 – 300



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KÖRBER

P1600 · P3200

Technical data



MediSeal cartoners Compact, modular and flexible.





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Flexible cartoners modular construction fast change-over • for all pharmaceutical products

The P1600 and P3200 cartoners have been specially designed for packaging small and medium-sized lot sizes. The indexed method of operation means that the cartoners not only occupy a minimum footprint but also require few format parts, which can also be swapped out quickly and simply. Carton height adjustment is performed automatically via an actuator.



150

12

P3200

110

200

P1600 expanded, 180 pitch

www.mediseal.de

P1600 standard, 120 pitch

Flexibility thanks to a wide range of formats

With the introduction of the P3200 in the late 'nineties. MediSeal achieved a milestone in the construction of flexible cartoning machines driven by servomotors. Together with the P1600, MediSeal now offers a high-performance family of horizontal cartoning machines. Whether in conjunction with a blister or sachet packaging machine or as a general-purpose cartoner for packaging vials, the modular construction of MediSeal cartoners offers practically unlimited versatility in the packaging of pharmaceutical products

> Whether it is a matter of the transfer systems, carton separation, leaflet feed, product insertion or closing systems - the P1600 and P3200 rely on the same proven assemblies and principles. The P3200 - the fastest in its class with an output of 300 folding cartons per minute - works in dual-cycle mode, whilst the P1600 is also able to handle very large cartons, with an output of 80 to 150 units per minute.

FLEXIBLE TECHNOLOGY

The P1600 and P3200 are designed as

standard for installation of the latest generation of GUK 2000 folders.

The folders are driven via their own servo shaft, so there is no need for adjustment via a mechanical clutch.



Vials are gently inserted, individually or in combinations, into the cartoner's cell-type product conveyor using a Pick & Place system. The feed system can use cassette systems or may operate directly via a link to the labeller.

Intelligent balcony-type construction provides rear access to the sealing stations.





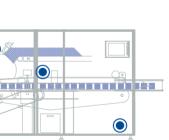
At the cartoner discharge, packs are guided on both sides. Their position and location are welldefined, so labels, for example, can be applied easily.

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Flexibility thanks to digital servo drive technology

The integrated servomotor drive concept ensures a clear layout of all function units which is easy to monitor visually. Components which are moved mechanically have been largely eliminated by applying servo technology. Servicing and maintenance of the P1600 and P3200 is simple and costs considerably less than purely mechanical systems. A modem, fitted as standard, enables any machine malfunctions to be identified and rectified quickly by remote access.





An ACOPOS servo drive can be replaced within minutes. The 'intelligence' of the drives is stored centrally in the machine control system. Once the drive has been replaced, the current (and validated) operating data is uploaded by the CPU to the servo motor; no programming is required. MODULAR CONCEPT

The P1600 and P3200 are also able to package dual stacks with up to 48 blisters per carton in total, without having to carry out any special modifications.



Application of variable data using laser coder or inkjet print systems replaces the use of classic debossing systems. Batch data is entered on-screen via the user interface. Correct application of variable data is verified using OCR/OCV systems.

Digital servo technology reduces set-up times

As an alternative or complement to the classic tuck-in flap, MediSeal offers hot-melt seals. Switching from one variant to the other is simple and merely involves swapping modules. In the case of closures using a so-called 4th flap, both systems are used sequentially.

Servo-driven dispensing

systems place folded leaflets

or booklets accurately in the

cell-type product conveyor.

Dispenser outputs can be up to

are operated centrally via the

cartoner's user interface.

The feed and code-reader systems

400 leaflets/min.

Flexibility thanks to modular construction

MediSeal satisfies the need for more information in and on pharmaceutical packaging with a wide range of solutions for printing, coding and / or dispensing. The recommended systems are based on a modular construction principle and can be integrated – or retrofitted – very simply. Display and operation of selected monitoring systems take place centrally via the cartoner's KIVI user interface.

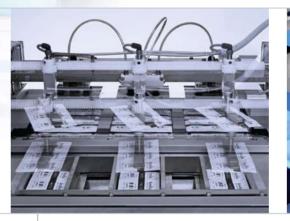




Blisters placed manually in a feed magazine are separated at a rate of up to 100 blisters per min., placed in the cartoner's cell-type product conveyor by a vacuum arm and packaged. Format changes require no tools.

Flexibility through transfer systems for all products

Using direct blister transfer, P1600 and P3200 machines are operated inline with MediSeal blister packaging machines. Vacuum suction arms transfer the blisters directly from the fast-cycle cutting die. Satisfactory blisters are placed on the cartoner's belt conveyor whilst unsatisfactory blisters - with an ejection counter-check - are rejected. Direct transfer eliminates the need for stacking chutes and for filling and emptying them.





MediSeal has developed transfer systems with up to 12 lanes for linking the P1600 and P3200 with 4 side-seal sachet machines and stickpack machines. For example, up to 25 sachets can be stacked flexibly and directly in the cartoner's

cell-type conveyor chain using a

Pick & Place system.

enable highly specialised a child-proof blister contained in a plastic clam-type pack.

Digital servo technology to suit your product

The BIB-BOB system de-stacks blisters from a thermoformer either automatically into magazines or feeds them from magazines to a cartoning process. This means that packaging of small lots can be decoupled from regular line operation.

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Regardless of the packaging application, MediSeal favours the concept of direct product transfer between two machines, without intermediate stacking units. The position of a product is indexed in a shift register and is known at any point in time during the packaging process. Direct transfer reduces the use of format parts to a minimum or eliminates them entirely. The packaging line is run down automatically at the end of a batch when a button is pressed.

Customised feed systems products to be packaged. The picture shows the transfer to the cartoner of

Four-axis Pick & Place systems are superbly suited to packaging small lot sizes with a high degree of variability. Their track parameters can be flexibly programmed depending on the product and any format parts which are required can be replaced quickly without any tools.

USER INTERFACE · FORMAT CHANGES · MAINTENANCE

MECHANIK FORMATUMBAU

Position an die Kartonlänge /

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Flexibility thanks to very quick format changes

The P1600 and P3200 cover a wide range of formats with a minimum of format parts. Format parts are compact (individual weight < 500 g) and can be swapped simply and quickly.

Digital servo technology minimises maintenance costs

A clever and simple menu system

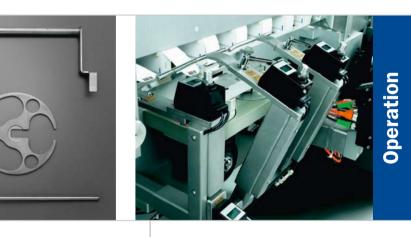
The menu system is clearly and simply sub-divided into settings, operation, production data capture, format memory and servicing. Format parameters are determined and learned once only, stored in the system and retrieved automatically for format conversions. Format data management and code reader system management are performed centrally via a single screen. Access authorisations are easy to manage, even in compliance with CFR21 / Part 11 regulations.

The leaflet insertion system patented by MediSeal prevents blisters being pressed against the leaflet during insertion. In this way, even perforated Al-Al blisters can be pushed into the carton without imposing any pressure.

Adjusting spindles equipped with digital displays make format conversion tables a thing of the past. When changing the format, the system indicates the setpoint in the top line. The operator simply adjusts the spindle to the pre-set value. System control verifies whether all the settings have been adjusted correctly.

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GMP-compliant construction and a minimum number of format parts make full format changes possible in less than 30 minutes. Carton height adjustment on the P1600 and P3200 takes place automatically by motorised raising or lowering of the upper runner unit. Simultaneous guidance for the carton via upper and lower runners ensures stable transport during packaging, even for height-to-width ratios <1.



The blister stacking frame and flap folder pivot out easily from their working position for cleaning purposes. All stations are designed in detail for optimal accessibility.

Batch report output is in the HTML file format, which can easily be adapted to individual customers' reporting systems without changing the machine's validation status.

An interactive help system for all levels of operation and fault messages guides the operator interactively through the trouble-shooting process.