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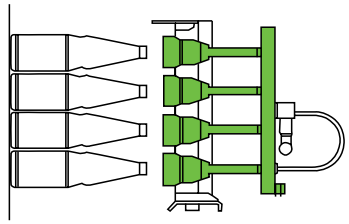
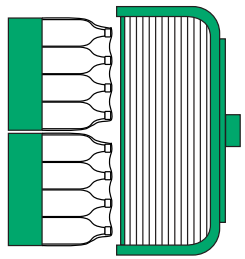
Carton Packaging –
A Program for Medium-Size Companies





KHS

KHS Carton Packaging – The New Modular Concept for Compact, Medium-Sized Solutions

The information contained in this brochure is non-binding.
Only the technical specifications of our quotes are determinative with regard to design and scope of delivery.
Subject to design modifications.

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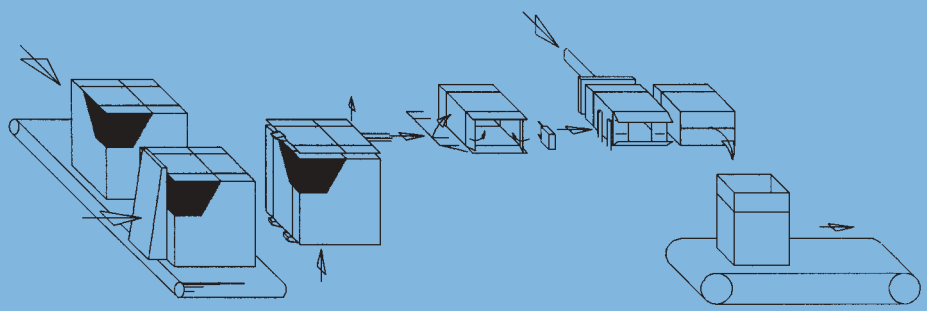
The New KHS Modular Concept – Future-Safe Packaging Technology Right Down the Line

Innopack CA Carton Flap Opener

This machine uprights cardboard box blanks, folds in and glues the bottom flaps.
The finished cartons leave the machine in an upright position ready for subsequent packing.
These cyclic operations are performed automatically.

Innopack SP-1800 Packer

This machine packs a widest possible range of bottles, jars, and similar containers in cartons.



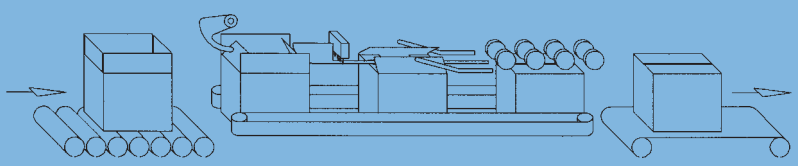
Carton Packaging Lines for Medium-Sized Business for Instance

Innopack DV Carton Closer

This machine folds in and glues the lid flaps of filled cardboard boxes.
Fully automatic, linear operations, driven by lateral conveyor belts.

PBL Palletizer

A palletizer designed to reliably solve all palletizing tasks in the medium performance range.



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Innopack CA Carton Flap Opener – High Precision Even Under Full Load

__Pneumatic position fixing of each individual carton blank picked up by suction.
High precision carton positioning.

__Automatic simultaneous adjustment of blank lift forks for magazine sidewall changeover.
Less time required for changeover to other carton formats.

__Machine-mounted handwheel for adapting to various sized cartons.
Simple time-saving handling.

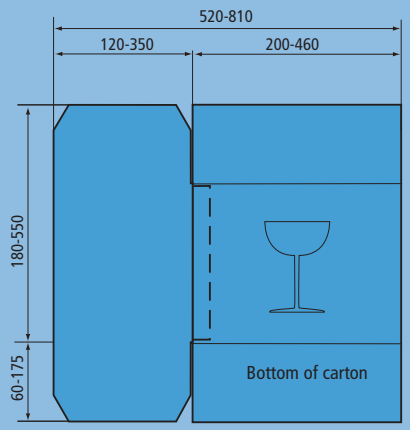
__Pusher with opposing gripping tongs. Side- as well as height-adjustable.
Optimum downforce.

__Only the plunger needs to be changed for changing over to other carton formats.
Effortless, time-saving conversion; increased machine availability.

Technical data:

Innopack CA	Output		
Carton heights mm	450	500	550
Cartons per hour	2,200	2,000	1,700

Processing sizes in mm



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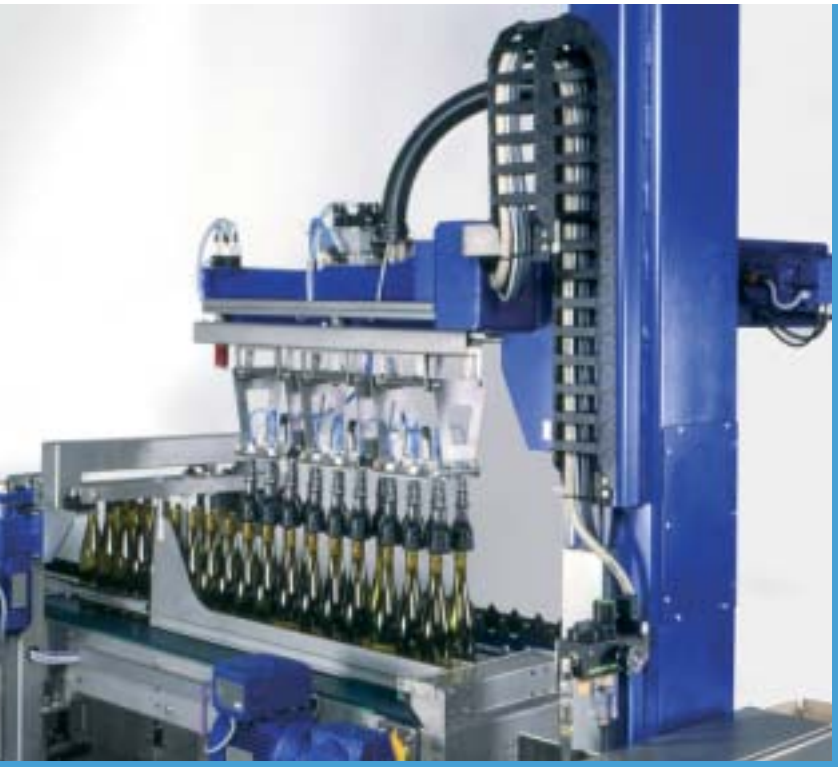
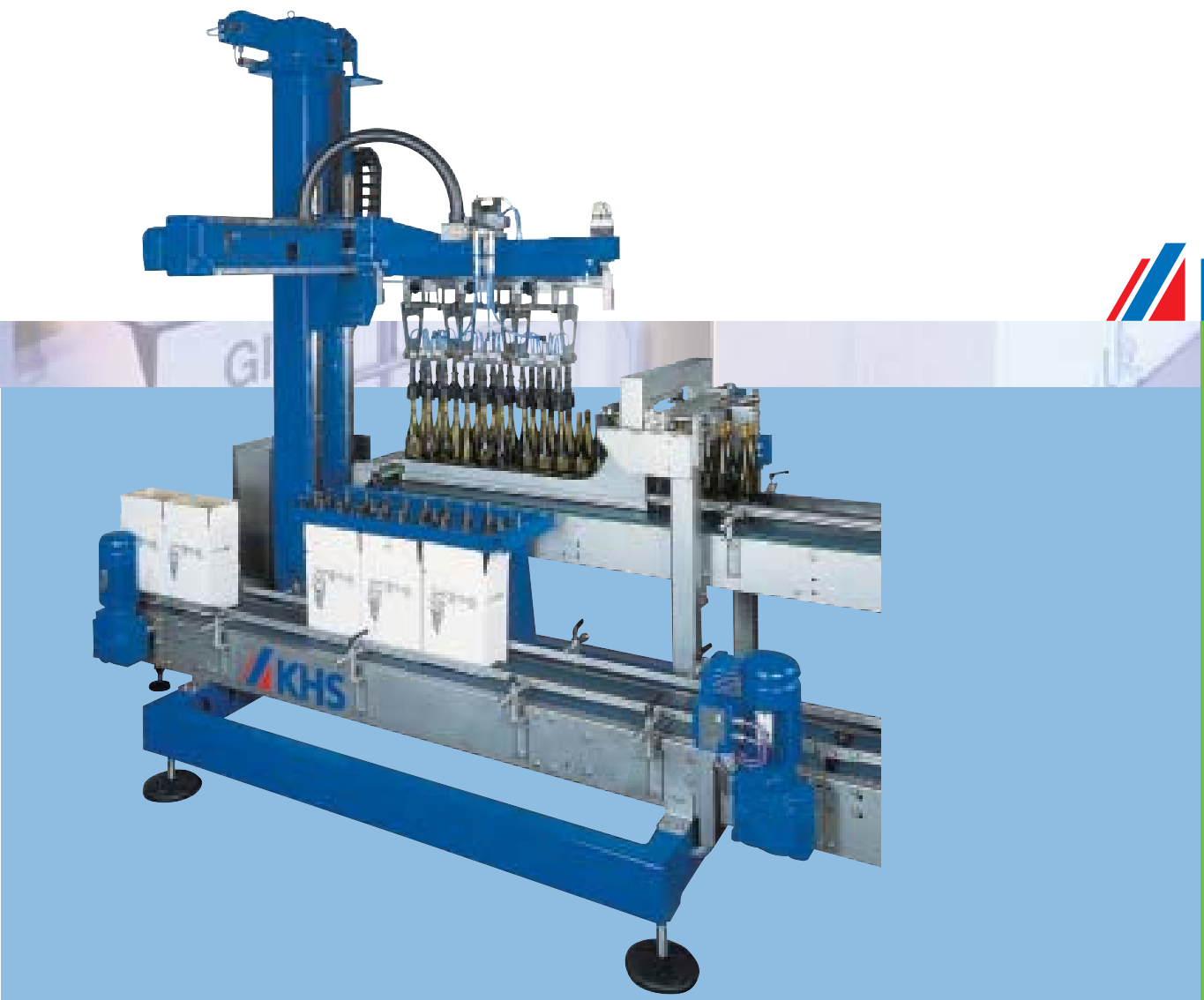
Innopack SP 1200 – Flexible Thanks to Programmable Packing Cam



__Single-column modular packer for 4,000 to 18,000 bottle-per-hour outputs.
Tailored to the needs of medium-size companies.

__New compact modular design system.
Requires considerably less space.

__Bottle pickup from table widths of up to 1,200 mm.
Flexible packaging quantities.



__Programmable packing cam.
Two programmable axes of motion.
Reliable processing capabilities for all standard-shaped items and pack styles.

__The number of packing bell heads can be easily changed.
Optimum adaptation to a widest possible variety of packaging tasks.

Single-column machines (low and medium capacity range)

Technical data:

Innopack SP	Processing sizes up to 1,200 mm
SP-E1-1200 packer	580 cycles/hour
SP-A1-1200 decaser	600 cycles/hour

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Innopack SP 1800 –
The High-Capacity Model

__Single-column modular packer for 16,000 to 60,000 bottle-per-hour outputs.
Tailored to the needs of medium-size companies.

__New compact modular design system.
Requires considerably less space.

__Bottle pickup from table widths
of up to 1,800 mm, single-lane
of up to 1,400 mm, double-lane
Flexible packaging quantities.

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__Programmable packing cam.
Two programmable axes of motion.
Reliable processing capabilities for all standard-shaped items and pack styles.

__The number of packing bell heads can be easily changed.
Optimum adaptation to a widest possible variety of packaging tasks.

Single-column machines (medium and high capacity range)

Technical data:

Innopack SP single-lane	Processing sizes up to 1,800 mm
SP-E1-1800 packer	580 cycles/hour
SP-A1-1800 decaser	600 cycles/hour

Innopack SP double-lane	Processing sizes up to 1,400 mm
SP-E2-1400 packer	480 cycles/hour
SP-A2-1400 decaser	500 cycles/hour

Innopack DV Carton Closer – Flawless Glue Application and Perfect Sealing

__Flawless gluing and sealing by centrally driven carton conveying belts
Hotmelt (additional coldmelt option) for carton lid sealing.

__Central drive. A key prerequisite for perfect belt synchronization.
No carton deformation during the gluing process.

__Frequency-controlled main drive.
Reliable performance even at high machine speeds. Product-related, programmable speed settings.

__Handwheel format changeover.
Minimum changeover time.

__Adjustable front flap folder.
Optimum adaptation to all products to be processed.

Further advantages of all three system modules:

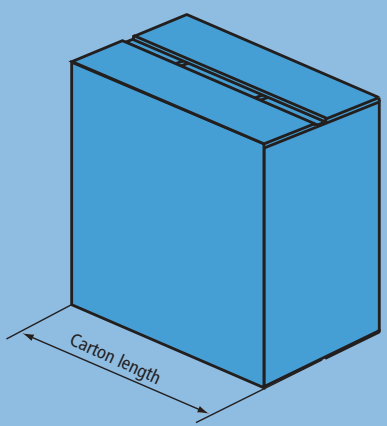
__Only toothed belts are used as the drive elements.
The result: Gentle-to-product handling, low-wear and low-noise, reduced servicing effort.

__Control cabinets integrated in the machine paneling.
Simple machine installation, fewer sources of error, less wiring effort.

Performance data:

The maximum possible output depends on the carton length.

Carton lengths from
200 mm to 350 mm = 3,200 cartons/hour
350 mm to 500 mm = 2,000 cartons/hour



Innopal PBL Palletizer –
The “Small” High-Performance Palletizer

__Innopal PBL – the inexpensive palletizing solution for the low and medium capacity range.
Tailored to the needs of medium-size companies.

__Combined layer pusher/row pusher.
No grouping station necessary.

__The packs are pushed from the infeed roller conveyor onto the loading plate and from there onto the pallet.
Simple, reliable processing technique.

__New compact modular design system.
Requires considerably less space.

__Programmable robot axes
Reliable processing capabilities for all standard palletizing tasks.

Technical data:

Innopal PBL up to 1,800 packs/hour

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Robot PC-Based Control – Central Intelligence Ensures Maximum Line Efficiency

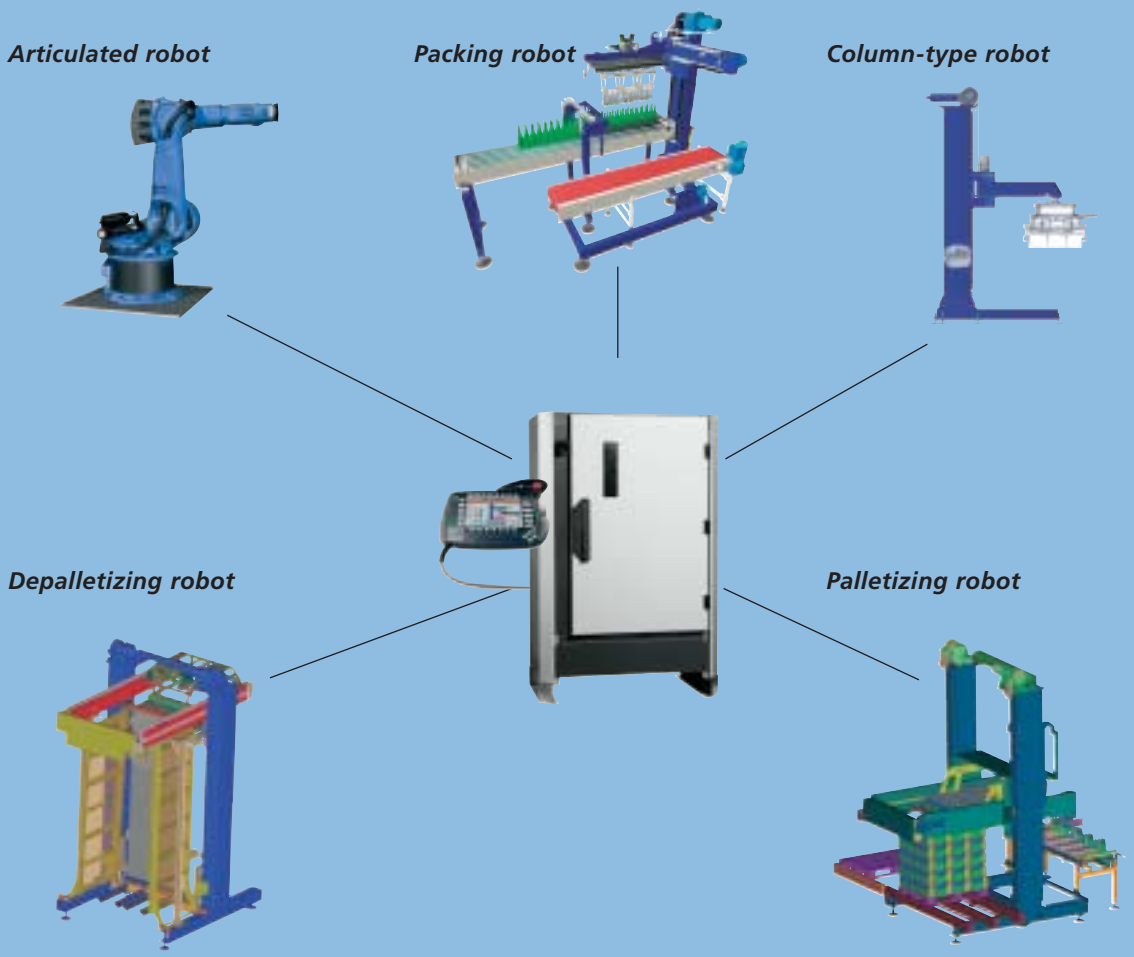
__Carton packaging line controlled by only one PC-based control computer.
This control not only coordinates the servo-axles but also controls the peripheral components and provides facilities for VGA monitor machine visualization.
A concentrated intelligence package for everything!
Interface problems are now a thing of the past.

__The production speed of the packaging line can gradually adjusted manually or automatically according to the line output.
The result: Extremely high packaging line availability and efficiency.

__Clearly arranged graphical user interface.
Facilitates system operating and diagnosis significantly.

Visualization with the KCP control panel.

PC Robot Control – The New Generation



__Only one intelligence to control everything!
A typical characteristic of the KHS PC-based robot control:
No more interface problems.

__Direct communication links and computer-guided, real-time sequences of movement.
Maximum precision tracing the travel profile and noticeably higher cycle intervals.

__Absolute path-measuring system, no sensory equipment whatsoever.
Timesaving adaptation to new travel paths.
Changeover to other bottle sizes, for example, possible at the push of a button.

__The PC can be accessed via Teleservice on customer request.
Supplier specialists provide customer staff optimum support.

Innoket Variant K Carton Labeller – The Ideal Addition to Carton Packing Lines

__Robust inline design for labelling cartons, cases, and other similarly sized packs. Exceptional reliability. The Variant K labels and labels and labels ...

KHS Anker

Inoket Variant K

__Compact design
Space-saving addition to KHS carton packing lines.

__Possible auxiliary equipment:
Turners, separators, dating facilities, overhead belts.
Flexibility for solving specific tasks.

__Variant K Twin, equipped with two opposing labelling stations.
Capabilities for labelling carton fronts and backs simultaneously.

__Variant K detached labelling unit for existing conveying system equipped with infinitely variable drive for speed control.
Outputs of up to 2800 cartons/hour

Technical data:

		Variant K and detached unit	Variant K Twin	Variant K II and (K II Twin)
Nominal output (packs/hour) depending on container size.	Up to:	2,800	2,800	4,000
Label widths (mm)	Min. Max.	80 450	80 450	85 440
Label heights (mm)	Min. Max.	40 340	40 340	40 340
Labelling area over pack bottom (mm)	From To	5 350	5 350	25 350
Pack diameters or widths (mm)	Min. Max.	150 450	150 450	150 600
Conveyor belt height ± 50 mm		600	600	600
Space requirements (mm)	Length Depth Height	1,920 (800) 990 (600) 800 (600)	2,420 1,450 800	3,320 1,375 (1,850) 1,715
Motor output (kW)		2 x 0.18	2 x 0.18	2 x 0.25 (3 x 0.25)

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