

KOENIG & BAUER

CutPRO Q 106 SB



we're on it.

EN



Solutions from a single source

The key to your success

An increase in use of renewable raw materials and substitutes for plastic – these are clear trends on the packaging market. When it comes to sustainability, folding cartons play an ever greater role at the point of sale.

Brand owners and product developers are making entirely new demands of packaging designs and applications. And the task for suppliers is to implement these designs efficiently, at a favourable price and to the highest quality standards in industrial folding carton production.

From printing to die-cutting and gluing of the folding cartons – as a full-range supplier for modern packaging production, Koenig & Bauer is thoroughly familiar with the challenges you face in daily production. Our aim is therefore to offer you the ideal technical solutions for your packaging workflow – tailored, innovative and future-oriented. That is what guarantees production to the full satisfaction of your customers and secures success for your own business.

The CutPRO Q 106 SB rounds off the Koenig & Bauer portfolio and defines a new benchmark in the field of flatbed die-cutting. As one of the most productive and most precise machines in its class, the CutPRO Q 106 SB is exactly the right choice for maximum performance and uncompromising quality. It enables you to produce folding cartons that cater to all the needs and demands that your customers have – individually designed, sustainable and with maximum efficiency.

The flatbed die-cutter CutPRO Q 106 SB allows you to benefit from our long-standing expertise in the folding carton industry, as well as from a global sales and service network, and a team of accomplished specialists who would be glad to come to your assistance at any time.



It enables you to master the highly individual demands of the market, while optimising your in-house production and reducing the processing time between order receipt and product dispatch to an absolute minimum.

Die-cutting, stripping and blanking in a single machine pass – the CutPRO Q 106 SB handles a broad spectrum of substrates, from 90 g/m² paper to solid board up to a thickness of 1.5 mm or corrugated board up to 3 mm. Fast makeready at job changeovers and die-cutting speeds up to 9,000 sheets per hour lay the foundations for maximum performance.

One feature unique to the CutPRO Q 106 SB is the integration of technical solutions from Koenig & Bauer's successful series of Rapida medium-format sheetfed offset printing presses. Innovative dedicated drive technology at the DriveTronic feeder provides for an optimised sheet infeed and the shortest possible makeready times, irrespective of the substrate being handled.

The Cut2Print register system is equally innovative. Perfect registration is the basis for ultimate die-cutting quality. By means of two stationary front cameras and one adjustable side camera, the system reads the special marks individually printed or those integrated in the colour bar of the sheet.

Cut2Print is also able to detect die-cutting marks at the side edges of the sheet, which makes it compatible with other register marks available on the market. Cut2Print PLUS uses three additional cameras to scan die-cutting marks on the underside of the sheet as well – a major benefit when processing corrugated packaging and laminated substrates.

The flatbed die-cutter CutPRO Q 106 SB can be considered a pioneering development in industrial folding carton production with countless technical solutions and ingenious details. Check out the performance capabilities for yourself.

Benefits



Extremely compact design, tailored to your specific needs – all from the one-stop solution provider for modern folding carton production



Outstanding quality and ultimate register accuracy thanks to the Cut2Print optic register system



Maximised output with die-cutting speeds up to 9,000 sheets per hour and a maximum sheet format of 760 × 1,060 mm



Fast makeready at job changeovers



High degree of flexibility to handle a broad range of substrates – from 90 g/m² paper to solid board up to a thickness of 1.5 mm or corrugated board up to 3 mm



Ergonomic and convenient operation based on the latest touchscreens and an intuitive operating concept

Compact and innovative – for optimum performance in folding carton production

The flatbed die-cutter CutPRO Q 106 SB offers you the perfect die-cutting technology, and with it the ideal prerequisites for smooth daily production.



Blanking station and delivery – continuous and precise

- Integrated upper frame with pneumatic quick-lock system Fast-Flow for fast and exact fixing of layout-specific blanking tools
- Motorised alignment of the lower frame for straightforward preparation and faster makeready at job changeovers
- Job-specific saving of the precise tool position for shorter makeready times in case of repeat jobs
- Automatic interleaving and non-stop device, all in one: The system works by means of a retractable apron that places an intermediate sheet to provide stack stability, while allowing the pallet changeover - no setup needed
- Non-stop facility with fully automatic pallet changing for uninterrupted processes and enhanced production efficiency

Stripping station – efficient and user-friendly

- Integrated upper frame with pneumatic quick-lock system Fast-Flow for fast and exact fixing of layout-specific stripping tools
- Motorised alignment of the lower stripping frame for straightforward preparation and faster tool changes
- Job-specific saving of the precise tool positions for shorter makeready times in case of repeat jobs
- Intuitive touchscreen control panel for all necessary adjustments
- Sample sheet removal directly before sheet transfer to the blanking station for uninterrupted monitoring of the process quality

Die-cutting station – robust and powerful

- Pneumatic quick-lock system Fast-Flow for fast and exact fixing of the upper die-cutting tool
- Tool-free positioning of the die-cutting tools with automatic locking and unlocking of the die-chase and counterplate
- Closed loop pressure control and automatic temperature regulation to guarantee a constant die-cutting pressure during the entire production process, giving perfect cutting results while reducing tool wear
- Easy-to-use and convenient machine operation based on an intuitive operating concept and clearly structured touchscreen menus
- Job-specific saving of machine settings for shorter makeready times in case of repeat jobs

DriveTronic feeder and infeed – exact and flexible

- Extremely stable and reliable sheet feeding process thanks to innovative dedicated drive technology
- All movements of the feeding head and belts are controlled by four independent servomotors, managed automatically or manually from the touch screen, guaranteeing perfect sheet delivery.
- Individually adjustable vacuum transport belts on the feed table for maximum flexibility, even for demanding print substrates
- Absolute register accuracy at the die-cutting station thanks to the unique Cut2Print register system
- Ultrasonic and capacitive double-sheet detectors provide for maximum process reliability at the sheet infeed and avoid production stoppages
- Fully automatic non-stop system solutions for uninterrupted die-cutting production



Logistics systems for increased productivity

Tailored non-stop solutions for the flatbed die-cutter CutPRO Q 106 SB help you to optimise your processes and lend a significant boost to production efficiency.

When printing on heavier substrates, pile changes are especially frequent. When using a conventional flatbed die-cutter, that usually means halting production: stop the machine, switch the full and empty pallets, restart the machine. Valuable production time is lost.

Koenig & Bauer's non-stop pile changing solutions for the DriveTronic feeder and delivery of the CutPRO Q 106 SB allow uninterrupted die-cutting and smooth pile changes at full production speed. Still not enough? With the fully automatic pile logistics system PileTronic, we offer you a variety of innovative solutions and components – perfectly tailored to your individual needs and circumstances.

Non-stop operation at the feeder

- Non-stop system with individual rods for uninterrupted production during pile changes
- Fully automatic non-stop system with a sensor-monitored rake for pile transport and pile reunion
- Pile insertion and removal possible from two sides

Non-stop operation at the delivery

- Non-stop pile changes possible at full production speed
- Automatic interleaving and non-stop device is extended automatically above the pile
- Sensor monitoring for lifting/lowering of the main and auxiliary piles

Fully automatic pile logistics system PileTronic

- Networking of machine control, non-stop pile changing systems and pallet supply for maximum efficiency in die-cutting
- Tried-and-tested logistics modules available
- Elaboration of customer-specific solutions
- Pallet-free paper supply possible

CutPRO Q 106

Winning quality with carefully matched tools

Converters are today faced with ever greater demands in terms of die-cutting applications and customer-oriented product refinement options. With the right tools for your CutPRO Q 106 SB, you can react quickly and flexibly to the requirements of your customers and supply unique products.

Whether for embossing, die-cutting, creasing or stripping and blanking – our professional partners offer you quality custom tools for all applications. Manufactured with utmost precision using high-quality materials, they guarantee perfect die-cutting results, fast makeready at job changeovers and reduced waste during the production process. Your production proceeds smoothly and with maximum efficiency at all times.

Long-term tool availability is, of course, desirable. To maximise tool lifetime, the temperature at the die-cutting station of the CutPRO Q 106 SB is permanently kept at the right level.

This ensures a constant die-cutting pressure, which in turn significantly reduces tool wear and safeguards the high die-cutting quality. Various user-friendly setting options – for example the pneumatic quick-lock system Fast-Flow – provide for straightforward handling and maximum convenience when positioning the tools.

If you are interested in more detailed information on tools and technologies, please feel free to tap into the comprehensive know-how of our experienced application engineers and specialists. We and our partners would be glad to offer you our support and advice.



Always in best shape with tailored services

To ensure uninterrupted production and maximum availability of your flatbed die-cutter, we offer you a broad spectrum of customer services tailored to your particular needs. From a direct response in the event of problems to preventive service aimed at avoiding downtimes and machine damage – our service specialists place their experience and expertise at your disposal in every situation.

Remote maintenance

Efficient diagnosis and fast assistance in the event of machine faults – prompt handling of all your concerns is given top priority by our highly effective remote maintenance service. The control concept implemented on the machine allows detailed troubleshooting and thus immediate reaction to any downtimes or irregularities in the production process. A large proportion of service calls can be solved by using remote maintenance alone – without the need for a technician to actually attend the machine. Service costs and downtimes are reduced accordingly. And your machine is back in production without delay.

Spare parts

A single defective component is enough to bring production to a standstill and may even endanger the safety of both personnel and the machine itself. To ensure that your flatbed die-cutter is able to resume production as quickly as possible, we keep a reliable supply of high-quality original spare parts available – around the clock and wherever in the world you may be. For older machine generations in particular, component replacement within the framework of a modernisation project will also help to preserve the value of your previous investments.

Inspections and maintenance

Preventive service is an effective means of maximising machine availability in everyday production. Regular inspections of all electrical and mechanical functions enable the detection of potential problems, and their rectification, at an early stage before they result in actual downtime. Our portfolio covers the professional implementation of all necessary measures in compliance with the applicable regulations, as well as replacement of a machine-specific assortment of wearing parts.

Make use of our extensive service potential and reap immediate benefits in your daily production by



avoiding unwelcome downtimes



extending the service life of your machine



increasing machine availability



enhancing production efficiency

CutPRO Q 106 SB

Technical data

Sheet and die-cutting format

Minimum sheet format	350 x 400	mm
Maximum sheet format	760 x 1,060	mm
Maximum die-cutting format	736 x 1,060	mm

Substrate range

Paper	from 90	g/m ²
Solid board	up to 1.5	mm
Corrugated board	up to 3	mm

Production speed

Maximum	9,000	sheets/h
---------	-------	----------

Electrical parameters

Mains voltage	400 / 460	V
Frequency	50 / 60	Hz
Power requirement	56	kW
Connected load	74	kW

Gripper margin

Minimum	10	mm
Maximum	18	mm

Pile heights

Feeder	1,800	mm
Feeder with manual non-stop	1,670	mm
Feeder with automatic non-stop	1,560	mm
Delivery	1,555	mm

Basic data

Maximum die-cutting pressure	275	t
Total weight	32,000	kg

Automatic non-stop feeder	<input type="radio"/>
Cut2Print	<input checked="" type="radio"/>
Cut2Print PLUS	<input type="radio"/>
Tool set for full-sheet delivery	<input type="radio"/>
Digital positioning aid for upper frame	<input type="radio"/>
Die-cutting pressure regulation	<input checked="" type="radio"/>
IP-based remote maintenance	<input checked="" type="radio"/>

- Standard
- Option

Koenig & Bauer Iberica

Pol. Ind. Camí Ral
Passeig del Ferrocarril, 383
08850 Gavà, Barcelona

T +34 93 4792780

info-iberica@koenig-bauer.com

iberica.koenig-bauer.com
koenig-bauer.com

Texts and illustrations refer in part to special features not included in the basic machine price. No parts of this publication may be reproduced in any way without the manufacturer's permission. The manufacturer reserves the right to carry out modifications without prior notice.

05/2022-EN
Printed in Germany