

KOENIG & BAUER

Optima 106 Optima 106 K



we're on it.

EN



Optima 106 Optima 106 K

The Optima die-cutting machine series offers you the perfect solution to leap into the modern production of folding cartons. The Optima 106 is ideal for cutting, creasing, embossing, and stripping. With the Optima 106 K, you have at your disposal a machine with an integrated blanking unit.

The Optima series meets all of the conditions and quality parameters for modern, cost-effective manufacturing of die-cut products. They are characterised by their easy operation and short set-up times for new and repeat jobs.

Optional equipment allows custom configuration of machines to adapt perfectly to your individual portfolio of orders.

The Optima series is capable of processing a wide range of substrates from 90 g/m² paper, solid board and corrugated cardboard with maximum quality at speeds of up to 8,500 sph.

Automatic adjustment of the pile and automatic separation of sheets in the feeder provides perfect delivery of the sheet into the front-lays and guarantees accuracy of register regardless of the quality, type, weight and finish of the material.

The press, with its variable-angle motion system VarioPlan, is the true heart of the Optima 106 flatbed die-cutters. After the die-cutting, creasing and embossing process, the stripping station removes waste presenting a final product ready for the next process.

The Optima 106 K has a blanking station, i.e., the section separates the sheet into individual blanks. It has an interleaving unit which automatically inserts sheets at pre-set intervals for better pile stability. The pile can be safely transported from the die-cutter to the next production process without interruption of the work flow.

Operation of the Optima 106 and Optima 106 K is carried out through an intuitive touch screen. Linked through a secure IP connection, remote maintenance can be done quickly and efficiently by our specialists.

With its 750 x 1,060 mm, maximum format, the Optima series is a perfect complement to the offset Koenig & Bauer Rapida series.

Feeder and transport of sheets

- Automatic feeder for processing paper, cardboard and corrugated board
- Lateral adjustment of the pile for a perfect flow of the sheets
- Antistatic stainless-steel feeding table
- Double-sided register with adjustable format, combined with push and pull function
- Front lays controlled by inductive sensor for reliable registration
- Manual non-stop system for continuous production

Die cutting station

- Fast-Flow quick-lock pneumatic system of the die, giving a saving on make-ready time
- Micro-adjusting thin plate system
- Automatic locking of die-chase and counterplate
- Motorized adjustment of the pressure
- Pneumatic opening and closing of window
- Touch screen

Stripping station

- Universal lower frame with a complete set of accessories
- Upper frame with quick-lock system Fast-Flow for the use of dedicated tools
- Pre-makeready table to prepare the next job while the machine is in operation
- Pneumatic opening and closing of window

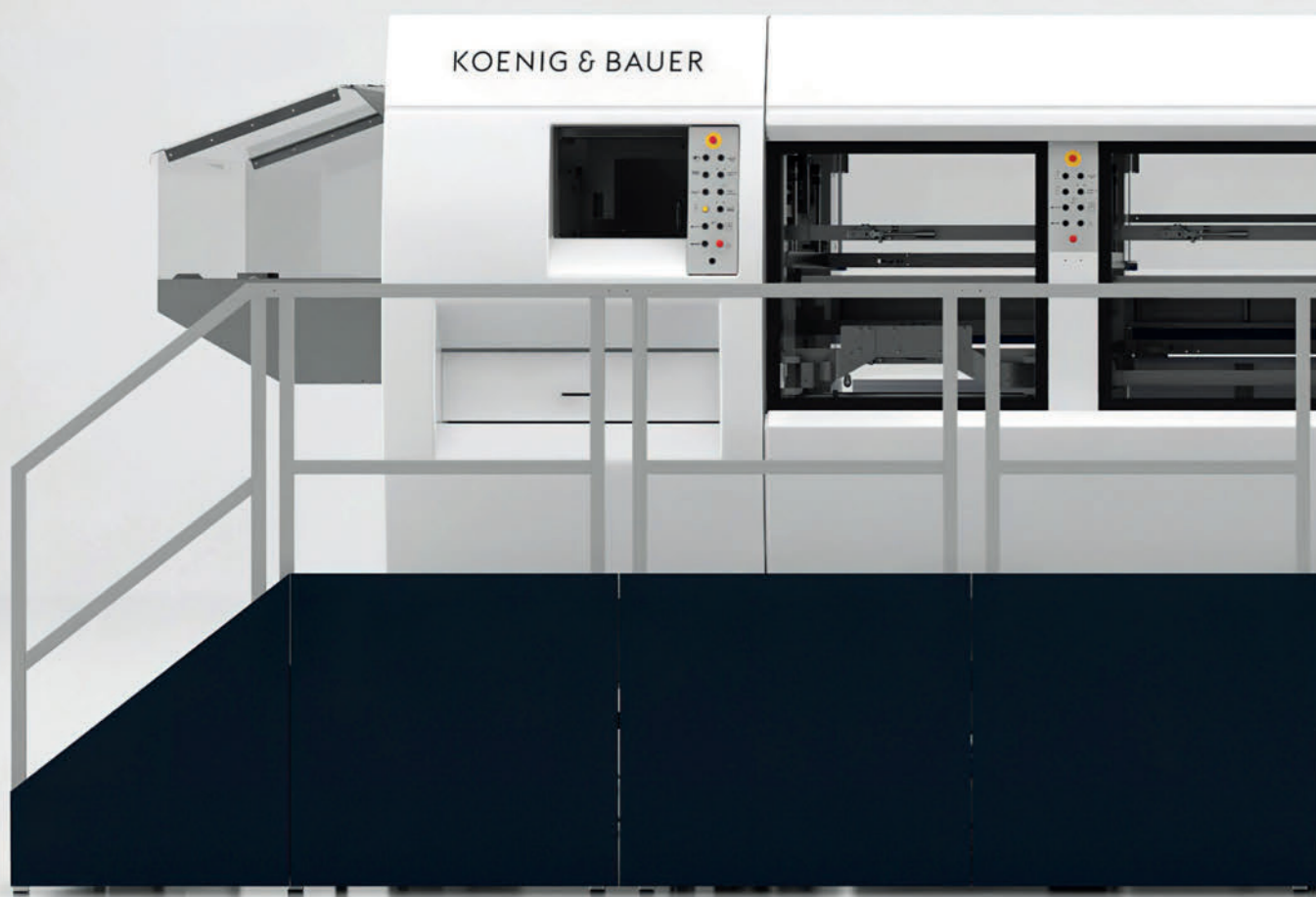
Blanking station and delivery

- Upper frame with quick-lock system Fast-Flow for the use of dedicated tools
- Full sheet delivery by means of lower frame and upper tooling quick and easy to install
- Automatic interleaving and non-stop device by means of swords, easily programmable for each job through the touch screen
- Automatic pallet change-over system
- Automatic gripper chain tensioner

Standard delivery

- Automatic non-stop apron system programmable through the touch screen
- High speed platform for rapid pallet change-over
- Pneumatic grip edge removal system
- Perfect pile stacking thanks to quick and easy-to-adjust joggers and delivery brake brush





Your benefits at a glance

The smart alternative in flat-bed die-cutting – Optima 106 | 106 K



Perfect solution to leap into modern folding carton production



Excellent price/performance ratio for maximum productivity



Wide range of automated features to reduce makeready times and increase production time



Huge substrate flexibility from 90 g/m² paper to 1.5 mm solid board and 3 mm corrugated board



From a single source

Are you looking for the right die-cutting technology to meet all the requirements of your everyday business? Koenig & Bauer offers a broad portfolio of technical solutions for maximum performance in industrial packaging production.

Medium-format Optima 106 and Ipress 106 PRO and large-format Ipress 145 PRO flatbed die-cutters with stripping station offer you the best prerequisites for cost-effective processing of high-quality cardboard and corrugated packaging.

Furthermore, all three models are available as Optima 106 K, Ipress 106 K PRO and Ipress 145 K PRO, which include blanking station. The Koenig & Bauer flatbed die-cutter family is characterised by a high degree of flexibility with regard to the materials to be die-cut, modern automation modules and a high level of operating comfort.

You can benefit from our many years of expertise in the folding carton industry. In addition to the technology itself, we offer you a wide range of services for uninterrupted packaging production and maximum availability of your machinery. From reactive service in case of emergency to preventive service to avoid downtime and machine damage.

You can also rely on us when it comes to die-cutting tools. Take advantage of the extensive know-how of our experienced application engineers and specialists. Together with our long-term partners, we will be happy to support and advise you.

Technical data

	Optima 106	Optima 106 K
Sheet and die format		
Minimum sheet size	350 x 400 mm	350 x 400 mm
Maximum sheet size	750 x 1,060 mm	750 x 1,060 mm
Maximum cutting area	736 x 1,060 mm	736 x 1,060 mm
Range of substrates		
Paper	from 90 g/m ²	from 90 g/m ²
Solid board	up to 1.5 mm	up to 1.5 mm
Corrugated board	up to 3 mm	up to 3 mm
Production output		
Maximum	8,500 sph	8,500 sph
Power parameters		
Voltage	400V 3~/ 460V 3~	400V 3~/ 460V 3~
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Minimum required	22 kW	23 kW
Maximum installed	29 kW	31 kW
Gripper margin		
Minimum	9 mm	9 mm
Maximum	17 mm	17 mm
Pile heights		
Feeder	1,290 mm	1,690 mm
Feeder using non-stop	1,000 mm	1,400 mm
Delivery	1,080 mm	1,400 mm
Basic data		
Maximum pressure	275 t	275 t
Total weight	22,000 kg	24,000 kg
	Optima 106	Optima 106 K
Elevation of 400 mm	○	●
Elevation of 600 mm	○	○
Manual non-stop	○	●
Mechanical side lay	●	●
Motorized front lays	●	●
Format reduction 300 x 400 mm	○	n/a
Die-chase loader	○	○
Fast-Flow quick-lock system	○	○
Full sheet delivery	n/a	○
Pneumatic grip edge removal	○	n/a
Pre-makeready table	○	○
IP remote connection	●	●

● Standard

○ Option

Koenig & Bauer Iberica S.A.

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

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.

08/2022-EN
Printed in Germany