

KOENIG & BAUER

# Optima 106 / 106 K



we're on it.

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## 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 unit for the separation of blanks.

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 capable of processing a wide range of materials from 90 g/m<sup>2</sup> paper, solid board, corrugated cardboard and plastic material 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 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 auto-

matically inserts sheets at pre-set intervals using a non-stop system and offers excellent pile stability. The pile is stabilized on the pallet meaning that it's possible to transport it safely from the die-cutter to the next production process without interruption using the non-stop system.

Control 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, therefore improving your uptime.

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

### Range of materials:

- Paper from 90 g/m<sup>2</sup>
- Solid board up to 1.5 mm
- Corrugated board up to 3 mm (B-flute)

### Feeding and transport of the sheets

- Automatic feeder for processing paper, card-board and corrugated board
- Lateral adjustment of the feeder pile
- Antistatic and stainless steel feeding table
- Side register with adjustable format, combined with push and pull function
- Front lays controlled by inductive sensor
- Manual non-stop system for continuous production
- Elevation of machine for piles up to 1,690 mm

### Die cutting station

- Pneumatic locking of die (Fast Flow) saving on make-ready time
- Micrometric adjustment of counterplate with plate of 1 mm
- Automatic locking of chase and plate
- Pneumatic opening and closing of window
- Touch screen

### Stripping station

- Pre make-ready table to prepare the next job whilst the machine is in operation
- Pneumatic opening and closing of window
- Upper frame with Quick-Lock system for the use of dedicated stripping tools
- Standard upper and lower frames, with a complete set of accessories

### Blanking station

- Upper frame with Quick-Lock system for the use of dedicated blanking tools
- Quick and easy preparation of upper and lower frame for non-blanked, full sheet (sheeting)

### Delivery

- Automatic gripper chain tensioner
- Automatic non-stop system with belt
- Interleaving device
- System for removal of sheet for quality control check
- Data input and setting adjustment through touch screen, with automatic storage for repeat jobs







**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
- Leading price/ performance ratio for maximum productivity
- Wide range of automated features to reduce make-ready times and increase production time
- Huge substrate flexibility from 90 g/m<sup>2</sup> paper to 1.5 mm solid board up to 3 mm corrugated board and plastic



## Broader product portfolio for the packaging market

Solutions from a single family for cost-effective production of packaging: The Koenig & Bauer Group has expended its broad portfolio of products through to the post press area. In the city of Barcelona, Koenig & Bauer Iberica S.A. builds modern die-cutters of medium and large format to a maximum sheet size of 1,050 x 1,450 mm.

The Optima family is equipped with everything needed to produce cardboard and corrugated cartons of the highest quality. Stripping and blanking stations adapt to customers individual needs. This generation of die-cutters is characterised by maximum flexibility for material processing, modern automation modules and high handling comfort.

Koenig & Bauer Iberica has a long experience of more than 75 years and its products are an excellent complement to the Koenig & Bauer strategy of becoming a full service provider of solutions for packaging manufacturers.

# Technical data

	Optima 106	Optima 106 K
<b>Size of sheet format</b>		
Maximum	750 x 1,060 mm	750 x 1,060 mm
Maximum cutting size	740 x 1,060 mm	740 x 1,060 mm
Minimum sheet size	350 x 400 mm	350 x 400 mm
Maximum pressure	300 t	300 t
Total weight	22,000 kg	24,000 kg
<b>Substrates <sup>1</sup></b>		
Minimum paper thickness	90 g/m <sup>2</sup>	90 g/m <sup>2</sup>
Max. thickness of solid board	1.5 mm	1.5 mm
Max. thickness of corrugated board	3 mm	3 mm
<b>Production speed <sup>2</sup></b>		
Maximum	8,500 sph	8,500 sph
Voltage	400 V	400 V
Minimum required	55 kW	55 kW
Maximum installed	60 kW	60 kW
<b>Gripper margin</b>		
Minimum	9 mm	9 mm
Maximum	17 mm	17 mm
<b>Pile heights</b>		
Feeder	1,290 mm	1690 mm
With 400 mm elevation (optional)	1,690 mm	
Feeder using non-stop	1,000 mm	1,400 mm
Delivery	1,080 mm	1,400 mm
With 400 mm elevation (optional)	1,400 mm	

<sup>1</sup> Subject to the characteristics of material

<sup>2</sup> Dependent on material properties and job layouts

	Optima 106	Optima 106 K
Mechanical side-lay	●	●
Elevation 400 mm	○	●
Elevation 600 mm	○	○
Motorized front lays	●	—
Format reduction 300 x 400 mm	○	—
Automatic lockers	●	●
Pneumatic grip edge removal system	○	—
Manual non-stop feeder	○	●
Fast Flow® lockers	○	○
Pre make-ready table	○	○
Full sheet tool	—	○
IP Remote connection	●	●

● standard

○ option

— not available

**Koenig & Bauer Iberica S.A.**

Pol. Ind. Pratenc, carrer 100 s/n  
08820 El Prat- Barcelona, Spain

T +34 93 4792780

[info-iberica@koenig-bauer.com](mailto:info-iberica@koenig-bauer.com)

[iberica.koenig-bauer.com](http://iberica.koenig-bauer.com)

[koenig-bauer.com](http://koenig-bauer.com)

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12/2020-EN