

KOENIG & BAUER

OPTIMA 106
OPTIMA 106 K



we're on it.



OPTIMA 106 and OPTIMA 106 K

The OPTIMA series die-cutting machines offer you the perfect base to make the leap to the modern production of folding cartons. Together with the OPTIMA 106 as a classic solution for cutting, creasing and embossing.

With the OPTIMA 106 K you have a machine with an integrated unit for the separation of blanks at your disposal. Die-cutting machines series OPTIMA meet all of the conditions and parameters of quality for modern, cost-effective manufacturing die-cut products. They are characterized by their ease of 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.

Series OPTIMA is capable of processing a wide range of materials from 90 g/m² paper, solid board, corrugated cardboard and plastic material with maximum quality at speeds of up to 8,500 i/p/h.

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. After the die-cutting, creasing and embossing process, the stripping station removes apertures and waste resulting in a final product ready for the next process.

The OPTIMA 106 K has a blanking station, i.e. the section allowing the separation of individual blanks. This section allows an exact pile depending on job requirements. It has an integrated unit which automatically inserts interleaving sheets in pre-set quantities using a non-stop system and giving pile stability. Finished product automatically exits this section.

The pile is stabilized on the pallet meaning that it is possible to transport it safely from the die-cutter to the next 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. Along with an IP connection system, remote maintenance can be carried out quickly and efficiently by our specialists.

With its 750 x 1,060 mm, maximum format, the OPTIMA series are a perfect complement for Koenig & Bauer Rapida series medium format presses.

Range of materials:

- Paper from 90 g/m²
- 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, cardboard and plastics
- Lateral adjustment of the feeder pile
- Antistatic and stainless steel feed table
- Lateral registration with adjustable format and with combined push and pull function
- Front detector by inductive sensor
- Manual non-stop system for continuous production
- Elevation of the machine for piles up to 1,690 mm

Die cutting station

- Pneumatic locking of the die (Fast Flow) system giving a saving on make-ready time
- Thin plate (1 mm) system with micrometric adjustment

- Automatic locking of chase and plate
- Automatic window
- Touch screen

Stripping station

- Automatic 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
- Pre make-ready table to prepare the next job whilst the machine is in operation

Blanking station

- Upper frame with Quick-Lock system for the use of dedicated blanking tools
- Tooling for quick and easy preparation of the upper and lower frame for use when delivering a 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
- Introduction of all data and relevant settings through the touch screen which has an integrated memory system for use on repeat work







Your advantages at a glance:

- Ease of handling
- Versatility of materials to die-cut
- Fast make-ready
- Personalized configuration according to requirements
- 100 % European machine
- Strong construction:
 - OPTIMA 106: 22,000 kg
 - OPTIMA 106 K: 24,000 kg
- High performance



Broader product portfolio for the packaging market

Solutions from a single family for cost-effective production of packaging: through the acquisition of the die-cutting machine manufacturer Iberica AG, Koenig & Bauer expands its broad portfolio of products through the finishing area. In the city of Barcelona, KBA-Iberica Die Cutters S.A. builds modern die-cutters of medium and large format to a maximum sheet size of 1,040 x 1,440 mm.

Optima and IPress machine series are equipped with everything you need to produce cardboard and corrugated cartons of the highest quality. Stripping and blanking stations adapt to the individual needs of customers. This current generation of die-cutters is characterized by maximum flexibility in terms of material processing, modern automation modules and high handling comfort.

KBA-Iberica has a long experience of more than 75 years and its products are an excellent complement to the concept of Koenig & Bauer to become a provider of solutions for the manufacture of packaging.

Technical information

	OPTIMA 106	OPTIMA 106 K
Size of sheet and forme/die:		
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 Tm	300 Tm
Total weight	22,000 kg	24,000 kg
Materials ¹:		
Minimum paper thickness	90 g/m ²	90 g/m ²
Max. thickness of solid board	1.5 mm	1.5 mm
Max. thickness of corrugated board	3 mm	3 mm
Running speed:		
Maximum	8,500 s/h	8,500 s/h
Voltage	380 V	380 V
Minimum required power	57 Kw	57 Kw
Installed power	60 Kw	60 Kw
Gripper margin:		
Minimum	9 mm	9 mm
Maximum	17 mm	17 mm
Pile heights:		
Feeder	1,290 mm	1,690 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	

¹ Subject to the characteristics of material

	OPTIMA 106	OPTIMA 106 K
Mechanical side-lay	●	●
Elevation 400 mm	○	●
Elevation 600 mm	○	○
Motorized front lays	●	●
Format reduction 300 x 400 mm	○	○
Automatic locking of chase and plate	●	●
Grip edge removal system	○	●
Manual non-stop feeder	○	●
Fast flow locking	○	○
Premake ready table	○	○
Full sheet tool	–	○
IP Remote connection	●	●

- standard
- option
- not available

