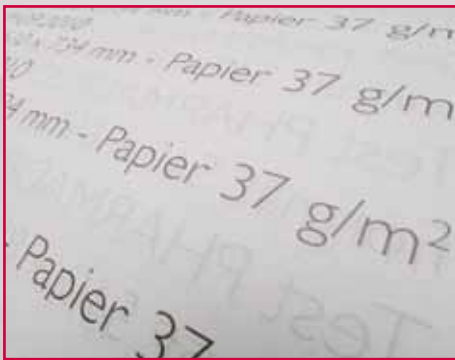


Kern MK 33

Automatic Cutter

kern
document output management

MK33 K I C M



People who are knowledgeable about high-speed cutting systems now must – or rather may – accustom themselves to a totally new dimension: The MK33 – with Smartology by K I C M – represents a quantum leap in processing performance.

The same holds true for versatility. Thanks to its revolutionary paper advancing system, the MK33 does not care, so to speak, whether it is handling pinless or pinfeed paper. The cutter can be incorporated easily into existing systems and wins over operators with its appealing, touch-screen based user interface.

Wherever an MK33 is employed in a mail room, the sharp increase in production volume attests to the beginning of a new era. This cutting system is equipped with everything it takes. Naturally its design is based on our philosophy of providing customers with solutions geared to making any mail room more productive and cost-effective.

User friendliness

Navigation of the menus on the graphical user interface is intuitive and password protected.

- The operating panel's built-in industrial PC enables a comfortable graphical display on the touch screen. High resolution and LED illumination contribute to ease of use.
- The customer can choose whether the cutter should be operated from the right or left side in relation to the direction of paper flow.

Flexibility without change-overs

The MK33 Automatic Cutter is designed to separate continuous forms with a high degree of flexibility. The cutter's numerous user-friendly features give our customers a tremendous advantage.

The same drive mechanism handles both pinless and pinfeed documents. No re-adjustment is necessary. A diversion flap enables the easy removal of waste sheets. There is no limit to the length of waste pieces.



New dimensions of cutting

Superb, long-lasting performance

The latest technology has been built into the MK33 in order to ensure that maximum performance can be maintained over the course of an extremely long service life.

- The combination of extra-strong, wear-resistant materials for the crosscut knife results in a life cycle of up to 50 million cuts, depending on the grammage and composition of the processed paper.
- Servo motors with coupled drives and an EtherCat bus system serve to reduce the electronic components to a minimum.
- The software is based on the latest industry standards and meets the highest requirements. Ongoing development ensures that future needs can be fulfilled.
- Multiple languages are available. Additional languages can be provided on request.

Specifications

Form width	min. 148 mm	max. 520 mm	
Paper weight	min. 37 g/m²	max. 200 g/m²	Additional weights can be requested and are subject to prior testing.
Increments	0.1 mm		
	1/6" 1/8" 1/12" 1/16" 1/24" 1/32" 1/48" 1/96"		
Margin cut	min. 0 mm	max. 27 mm	
Speed [forms/h]	Size	1-up	2-up
	4"	60,000	120,000
	8"	38,600	77,200
	12"	33,000	66,000
	16"	24,600	49,200
	20"	21,000	42,000
	40"	12,000	24,000
Specifications may vary, depending on the material, and are subject to prior testing.			
Dimensions of cutter	800 x 800 x 1120 (length x width x height, in mm)		
Weight	240 kg		



Trend-setting features

- Pinless, with synchronization marks on documents, waste sheets, or both.
 - Pinfeed, with holes serving as synchronization marks.
 - Extremely simple automated paper-loading procedure.
 - Programmed cutting: Up to two different document lengths can be cut consecutively (more on request).
 - Document lengths from 100 to 1016 mm.
 - Waste pieces from 5 to 150 mm in length can be removed in a single operation (other lengths on request).
 - Combinations within a sequence are possible: For example, it is possible to cut five documents and then one waste sheet.
 - Waste can be removed directly (via diversion flap).
 - The removal of small pieces of waste can be accomplished with the aid of compressed air.
 - Up to 100 different applications or jobs can be entered by number or name and subsequently selected as needed. The clearly arranged graphical user interface enables the easy programming of parameters.
 - It goes without saying that applications can be copied or deleted. Two counters are available per application:
 - A document counter which records the number of cut documents (not including waste sheets). This counter is password protected and resettable.
 - A job counter. This counter can be preset to a certain number. As each form is cut, the number is reduced by one. When zero is reached, the cutter stops automatically. The cutter can be restarted manually or by means of a timer that can be set individually for each application.
 - The following parameters can be optimized to match the properties of the paper or to allow synchronization with upstream and downstream devices:
 - Maximum speed.
 - Maximum medium speed.
 - Acceleration and deceleration ramp times.
 - A pause of up to 200 milliseconds per cycle to enable synchronization with the next device.
- Optional functions are available on request.