



The Task

- There is a need in the market for the physical counting of small and delicate items, such as tax stamps used in the tobacco and alcohol industry and similar products.
- Due to the high value, it is mandatory that the individual tax stamps are counted across various production steps. This is a laborious process that is done manually.

The Solution

- Our Köster HPC B03, a machine in which the handling of the stack to be counted has been ergonomically optimized to make it as easy as possible for the operator to use.
- The compact design as a desktop device enables flexible use of the counting machine in various production areas.
- Covers the widest possible range of products and g/m² thanks to quick and easy conversion.

Machine Features

B03

The Machine

- Ergonomic single head tabletop counting machine.
- Plug & Play commissioning.
- No external compressed air supply required.
- No external components required.
- Standard voltage supply Single-phase 230V-AC / 50-60Hz.

The Operation

- Standing counting position of the counting disc.
- Best ergonomics for the operator.
- Precise and fast product handling.
- No adapters required.
- User-friendly HMI with single-sided user interface.
- Processing of bundled or loose formats.

The Formats

- Min. 9 x 32 mm.
- Max. 85 x 180 mm.

The Substrates

- Cotton based products.
- Coated products.
- Hybrid products.
- Laminated products.
- And much more.

Machine Features

B03

The Technology

- The disc technology, the gentle disc design and the counting head with the Köster air suspension enable the counting of critical areas such as:
 - Security thread.
 - Applications.
 - Codes.
 - Intaglio printing.
 - And much more.

The Machine Design

- All installed components are high-quality products from global manufacturers.
- The machine design ensures easy maintenance and low upkeep costs as well as maximum machine availability.
- Machine's high performance and availability results from the robust and precise construction out of steel and aluminium.

The Functions

- Counting:
 - The entire product stack is counted.
- Comparing:
 - The results are compared with the preset value, if they do not match, the number is shown in red.
- Batching:
 - A pre-selected number can be easily batched to form a layer. The counting disc is used for separation to provide a gap for the operator to easily separate the layers.

Machine Features

B03

The Precision

- Concentricity and axial runout of the counting disc <0.025mm.
- Smooth running and safe counting signals at any speed.

The Flexibility

 All types of substrates used in the global security printing industry can be processed with the highest speed and accuracy.

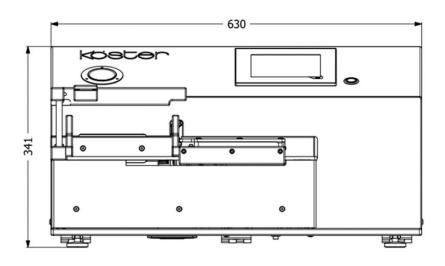
The Options

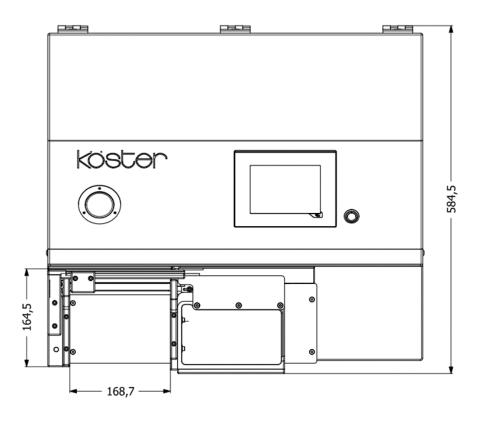
- Separation knife to improve gap visibility for checking the bundle quantity within a product stack.
 - Not compatible with the processing of tax and postage stamps.
- 24 months warranty extension excluding wear parts.

Technical Specifications

Dimensions	L	W	Н						
Overall (mm):	630	585	345						
Slide stroke (mm):	160								
Machine weight (kg):	65								
Supplies									
Electric:	Single-phase 230V-AC / 50-60Hz / max. back-up fuse 16A / full load current 6A								
Pneumatic:	Compressed air not required.								
Stack height									
Min. (mm):	5								
Max. (mm):	150								
Formats	Without separation knife			With separation knife					
	L	W		L	W				
Min. (mm):	32	9		100	55				
Max. (mm):	180	85		180	85				
Discs	Туре	Min.	Max.	Position	Use				
GSM:	C1	35	70	Corner	Tax stamps				
GSM:	C2	30	150	Corner	Banknotes				
Depending on the rigidity and quality of the products, these values may vary during processing.									

Machine Layout





Technical Specifications

Counting technology	Disc								
Counting direction:	from left to right								
Speed:	RPM	Type	Segments	Sheets/Min.	Sheets/Sec.				
Rated RPM:	2.000	С	6	12.000	200				
Depending on the rigidity and quality of the products, these values may vary during processing.									
Processable Substrates									
Currency Industry:	Currency and documents paper, coated or uncoated, polymers, hybrids and much more.								
Consumer Industry:	Consumer paper, coated or uncoated, laminated, plastics, polymers, paperboards, cardboards and much more.								
PLC Control									
Brand:	B&R								
Touchscreen:	coloured multilingual, main HMI with pictograms								
Interfaces:	FTP (Client / Server)/USB/Profinet/Profibus/Ethernet-IP/ EtherCat								
Operating Noise									
Max. dB(A) at 2000 RPM.:		78							
Environmental conditions		Min.	Max.						
Recommended temperature range (+°C):		15	35						
Recommended relative humid	35	45							
Certification	CE declaration, in accordance with all applicable European standards								

Basic Information

Discs

- The details of the GSM values are based on experience and tests. Depending on the product rigidity, these values may differ.
- Older produced counting discs for corner position are designated by 1xx,x for the diameter in "mm" and / or "V8 -V15" depending on the type.
- Newly produced counting discs for corner position are designated by "C1-Cx" depending on the type.
- Newly produced counting discs for edge position are designated by "S1-Sx" depending on the type.
- Warranty for the lifetime of the counting discs is not granted as the abrasive wear depends highly to the processed product.

Machines

- Maximum counting speed refers generally to the rated maximum rpm value and the machine design.
- It is not granted that maximum speed can be attended using all kind of substrates / materials.
- Warranty time 12 months upon issuing of the acceptance certificate.
- Warranty extension of 24 months optionally available.
- Warranty coverage except wear parts.





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