

B04

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The Task

- In many banknote production facilities, the bundles of 100 banknotes must be checked for the correct quantity. .
- This is usually done with conventional counting machines by inserting a tab in a bundle of 1000 banknotes, followed by a visual check by the operator of the 100 banknotes banding to ensure that it matches the number of banknotes.

The Solution

- Our Köster HPC B04, a machine in which the handling of the banknote bundle to be counted has been ergonomically optimized to offer the operator the easiest possible handling.
- The compact design as a tabletop device allows the counting machine to be used flexibly in the smallest of spaces.
- Fast and accurate counting eliminates sources of human error.

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Machine Features

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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

- Best ergonomics for the operator.
- Precise and fast product handling.
- No adapters required.
- User-friendly HMI with single-page operation.
- Processing of bundled or loose formats.

The Formats

- Min. 80 x 60 mm.
- Max. 180 x 180 mm.

The Substrates

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

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

- Comparing:
The results are compared with the preset value, if they do not match, the number is shown in red.
- Firmware or Program Update:
Firmware or program version updates are easily carried out using an USB memory stick.

Machine Features

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The Precision

- Concentricity and axial runout of the counting disc $<0.025\text{mm}$.
- 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

- 24 months warranty extension excluding wear parts.
- Printer kit.

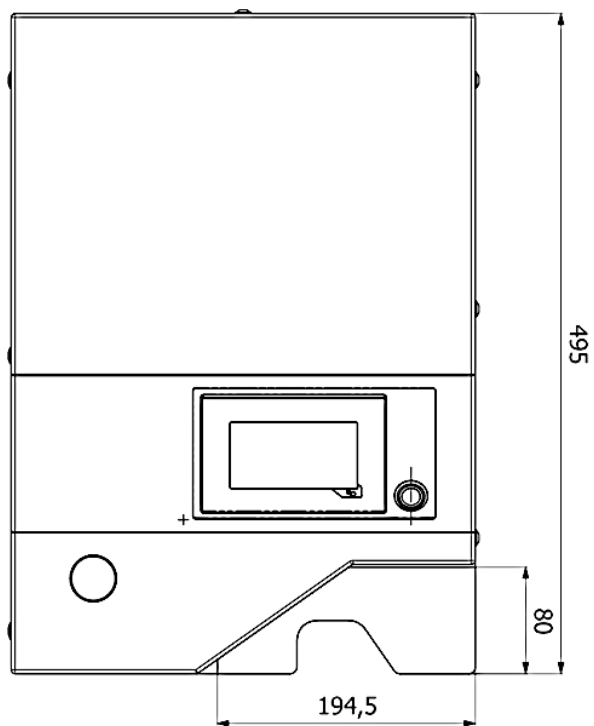
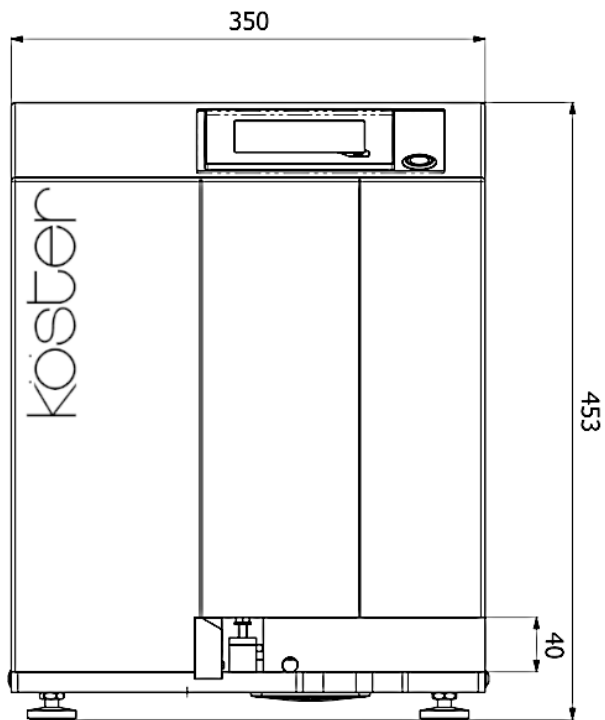
Technical Specifications

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Dimensions	L	W	H		
Overall (mm):	495	350	453		
Machine weight (kg):	45				
Supplies					
Electric:	Single-phase 230V-AC / 50-60Hz / max. back-up fuse 16A / full load current 3A				
Pneumatic:	Compressed air not required.				
Stack height					
Min. (mm):	5				
Max. (mm):	40				
Formats					
	L	W			
Min. (mm):	80	60			
Max. (mm):	180	180			
Discs	Type	Min.	Max.	Position	Use
GSM:	C2	30	150	Corner	Banknotes
Depending on the rigidity and quality of the products, these values may vary during processing.					

Machine Layout

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Technical Specifications

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Counting technology	Disc				
Counting direction:	from top to bottom				
Speed:	RPM	Type	Segments	Sheets/Min.	Sheets/Sec.
Rated RPM:	2.000	C	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:	5,7"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 humidity range (%):	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.

HPC – HIGH PERFORMANCE COUNTING



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