

HPC – HIGH PERFORMANCE COUNTING

B04 Desktop Counting Machine



Features

The Machine

- Ergonomic single head table top counting machine
- Plug & Play commissioning
- No external compressed air supply required
- No external components required
- Standard voltage supply 240 VAC ~50 Hz.

The Advantages

- High efficiency - Increased productivity through simple operation
- High accuracy - 99%
- High flexibility - Range from 35 - 150 g/m²
- High durability - Solid, high quality construction
- High cost effectiveness - Low maintenance costs

The Formats

Bundled or loose formats from 80 x 60 mm and sensitive products such as:

- Banknotes
- Postage stamps
- Tax stamps
- And much more

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 interface with single-sided user interface

The Precision

- Concentricity and axial runout of the counting disc <math><0.025\text{mm}</math>
 - Smooth running and safe counting signals at any speed
- State-of-the-art drive
 - Torque at any speed
 - Precise stopping

The Flexibility

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

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

The Technology

Gentle disc design allows counting of critical zones such as:

- Security thread
- Applications
- Codes
- Intaglio printing
- And much more

The PLC Control

- High speed - up to 200 sheets / second
- Ensures - accurate stopping on last count and batching

The Machine Design

- Maintenance access is achieved by removing the machine housing.
- All installed components are high-quality products from global manufacturers, most of which are available from stock.
- The non-sophisticated machine design ensures easy maintenance and low maintenance costs as well as maximum machine availability.
- Machine's high performance and availability results from the robust and precise construction out of steel and aluminum.

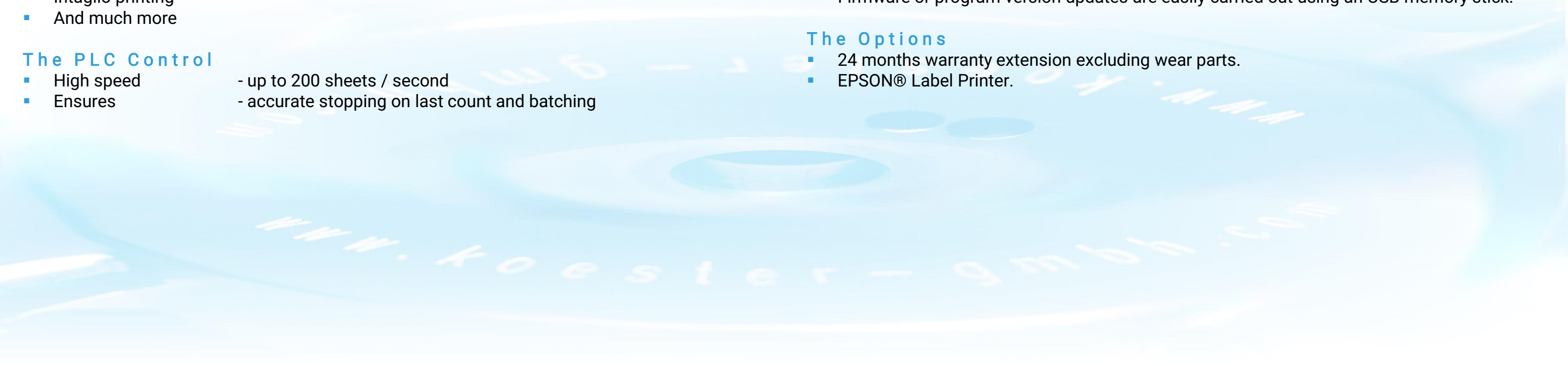
The Equipment

Wide range of integrated features in the standard version:

- **Security Counting:**
Results are compared with the pre-set value, if they do not match, the product is not automatically released.
- **Batching:**
A pre-selected number of sheets 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.
- **Firmware or Program Update:**
Firmware or program version updates are easily carried out using an USB memory stick.

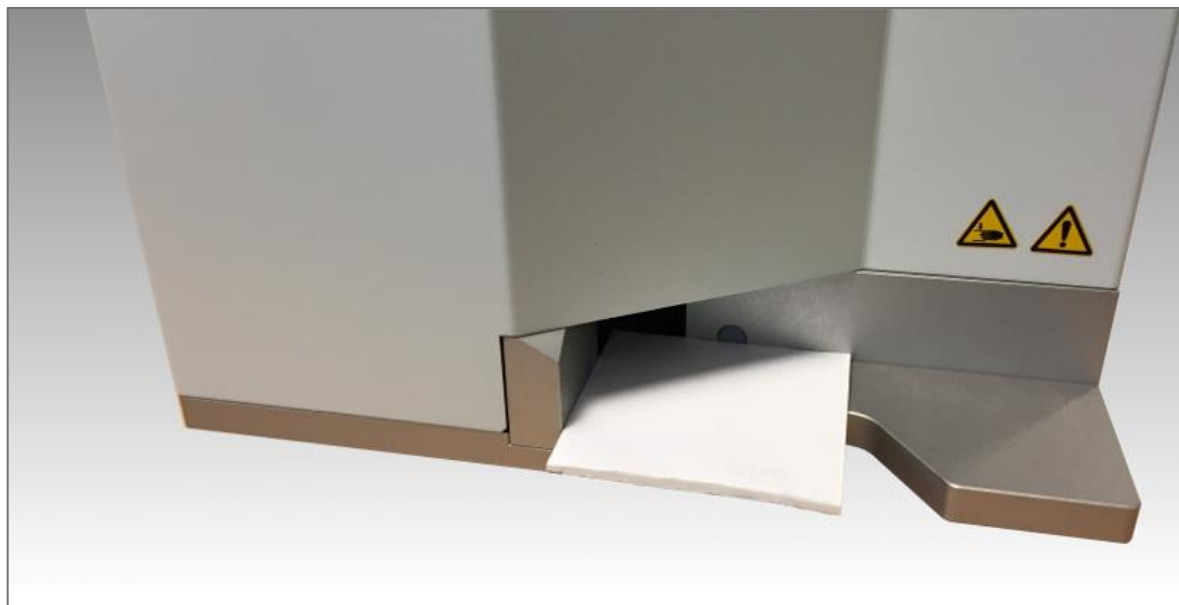
The Options

- 24 months warranty extension excluding wear parts.
- EPSON® Label Printer.



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Impressions



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Technical Specifications

Dimensions		L	W	H		
Overall (mm):		495	350	453		
Weight						
Machine weight (kg):		45				
Working Height						
Working height (mm):		Depending on the table or base used				
Supplies						
Electrical connection:		Single phase 240 VAC ~50Hz / IEC C14 socket plug & play				
Compressed air:		Not required				
Format Sizes		L	W	H		
Min. layer height (mm):				-		
Max. layer height (mm):				40		
Min. format size (mm):		80	60			
Max. format size (mm):		85	180			
Counting Technology						
Counting method:		Disc				
Counting direction:		Top to bottom				
Counting Discs		Min.	Max.	Type	Position	Default
GSM (g/m ²):		35	150	C2	Corner	Notes
Depending on the stiffness and quality of the products, these values may deviate during processing.						

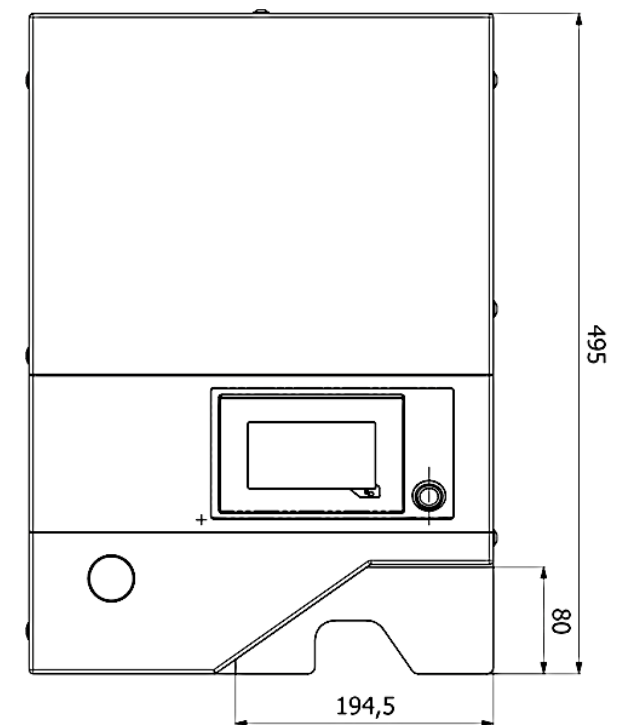
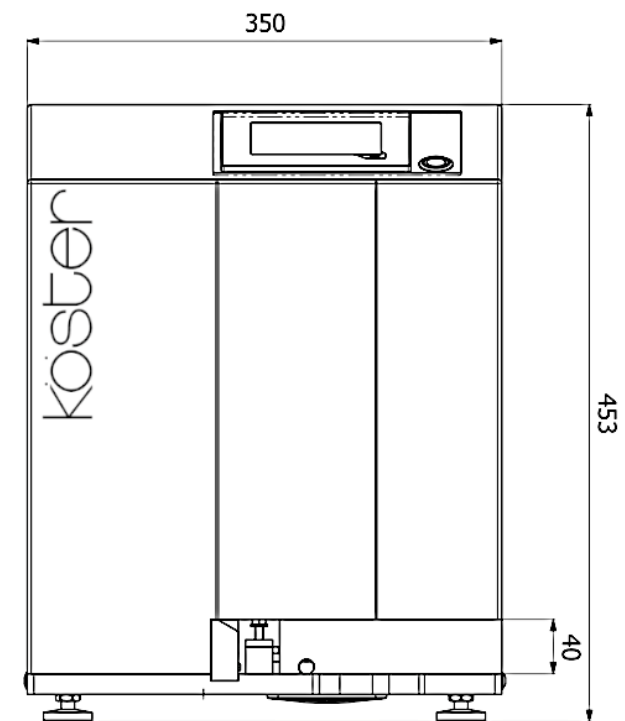
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Technical Specifications

Counting Speed	RPM	Type	Segments	Sheets/Min.	Sheets/Sec.
Rated RPM:	2.000	C1	6	12.000	200
Depending on the stiffness and quality of the products, these values may deviate 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 and much more.				
PLC Control					
Brand:	B&R				
Touchscreen:	5,7" B&R colored multilingual, main HMI with pictograms				
Interfaces:	FTP (Client / Server)/USB/MQTT (TCP / IP)/OPC UA/Profinet/Profibus/Ethernet-IP/ Device Net / CAN-Bus / CAN-Open / EtherCat / X2X Link Powerlink / Modbus TCP /				
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 Certificate:	Complies with all applicable European standards.				

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Machine Layout



Counting Discs – Since 1991



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Basic Information

Counting 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.

Counting 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 24 months optionally available.
- Warranty coverage except wear parts.

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