

HPC – HIGH PERFORMANCE COUNTING

B07 Desktop Counting Machine



köster
Maschinen- und Werkzeugbau

The Machine

- Ergonomic single head table desktop 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 - 200 g/m²
- High durability - Solid, high quality construction
- High cost effectiveness - Low maintenance costs

The Flexibility

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

The Substrates

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

The Formats

- Bundled or loose formats from 80 x 60 mm up to 600 x 500 mm

The Products

- Banknotes
- Postage stamps
- Tax stamps
- ID document papers
- Visa stickers
- And many other delicate products

The Operation

- Counting direction from top to bottom
- 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 $<0.025\text{mm}$
 - Smooth running and safe counting signals at any speed
- State-of-the-art drive
 - Torque at any speed
 - Precise stopping

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 exact batching

The Machine Design

- Maintenance access is from the back and side of the machine by opening 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:

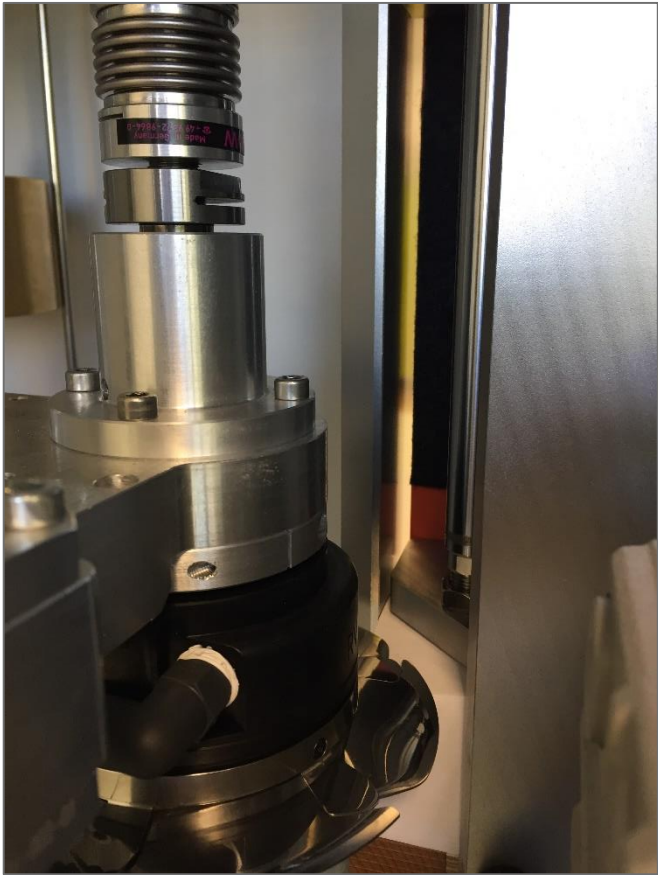
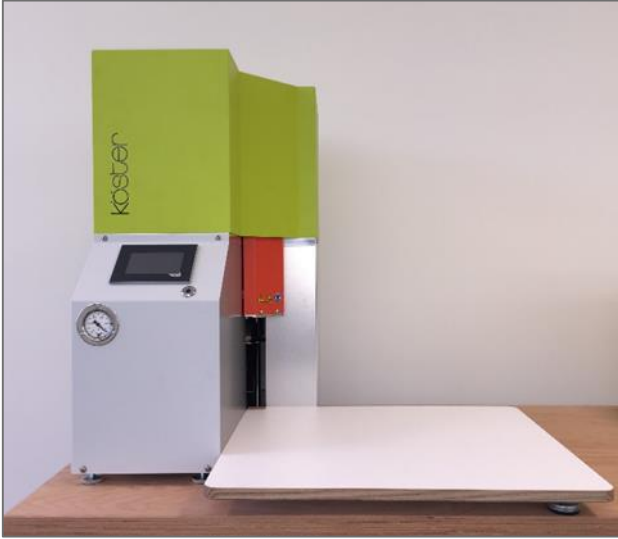
- **Security Counting:**
Results are compared with the pre-set value, if they do not match, the product is not automatically released.
- **Batching:**
A pre-selected number of sheets can be easily batched to form a layer. The counting disc is used for separation to provide a gap for the operator to easily 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.
- Customized counting table sizes and materials upon request.
- Counting disks for processing non-specified GSM values are available on request.
- EPSON® Label Printer.



Impressions



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Technical Specifications

Dimensions	L	W	H
Overall (mm):	852	750	770

Weight

Machine weight (kg):	77
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Working Height

Working height (mm):	Depending on the table or base used
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Supplies

Electrical connection:	Single phase 240 VAC ~50Hz / IEC C14 socket plug & play
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Compressed air:	Not required
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Format Sizes	L	W	H
Min. layer height (mm):			10
Max. layer height (mm):			200
Min. format size (mm):	80	60	
Max. format size (mm):	600	500	

Counting Technology

Counting method:	Disc
Counting direction:	Top to bottom

Counting Discs	Min.	Max.	Type	Position	Equipped
GSM (g/m ²):	35	150	C2	Corner	Default
GSM (g/m ²):	50	200	C6	Corner	Optional

Counting discs to process higher GSM values available upon request.
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	C2	6	12.000	200
Rated RPM:	2.000	C6	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
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Environmental Conditions

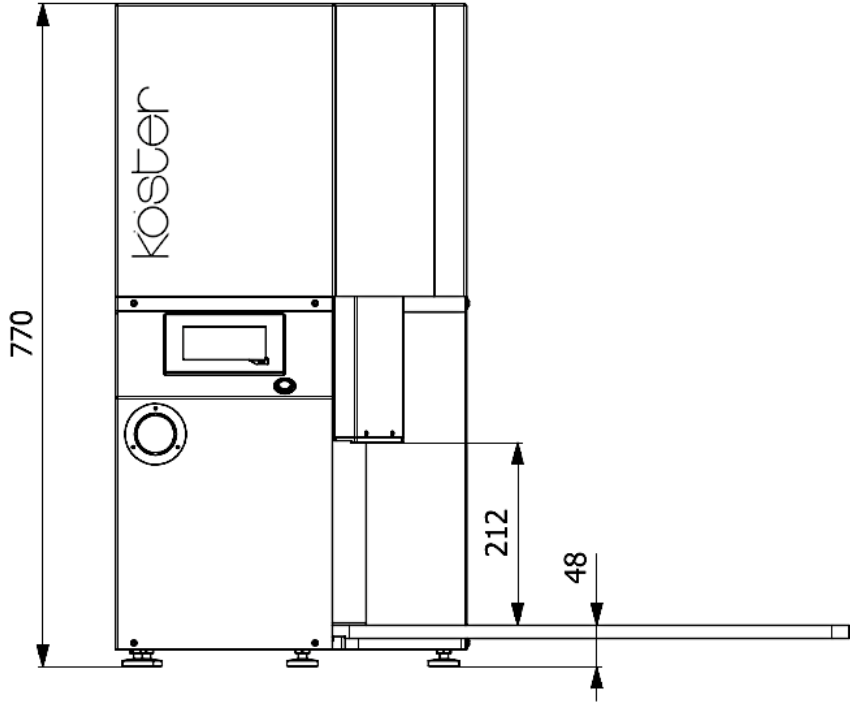
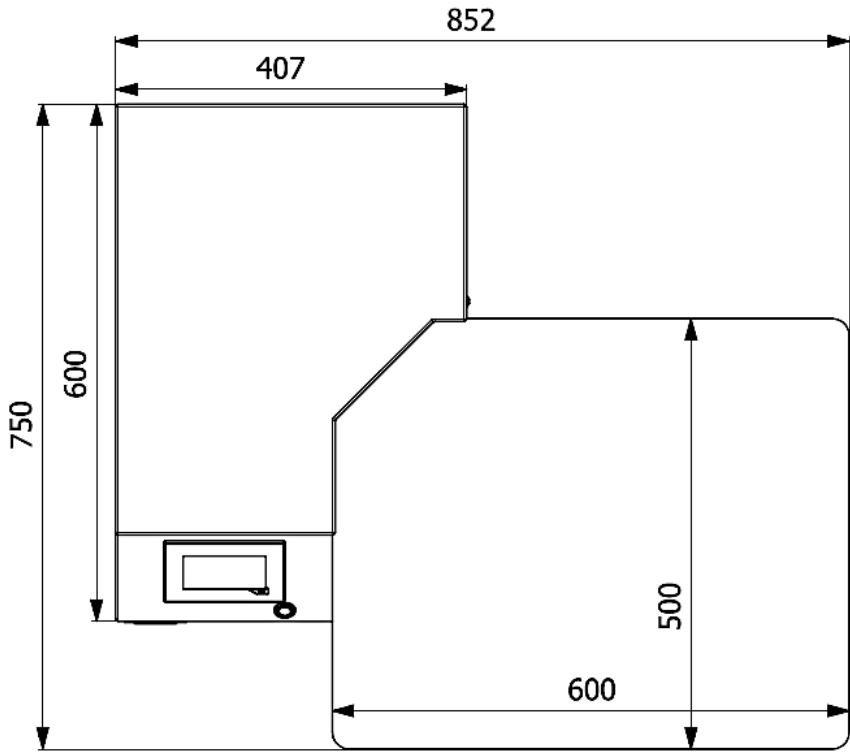
	Min.	Max.
Recommended temperature range (+°C):	15	35
Recommended relative humidity range (%):	35	45

Certification

CE Certificate:	Complies with all applicable European standards.
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Machine Layout



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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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