B03



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

- The 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.

B03

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.
- Working Station.

Machine Features

B03

The Working Station

- A workstation is available for the B03 machine series.
- Recommended for multi-shift operation.
  - To reduce the operating heat inside the machine housing, the control cabinet, including the vacuum pump, is located separately.
- The banding machine is available in two versions:
  - For banknotes and for tax stamps.





Working Station

B03

The Banknotes Working Station

- Consisting of:
  - Mobile operating table.
  - Angle-adjustable stand for containers.
  - Location for banding machine.
    - Same working height for counting and banding machine.
    - Power supply under the table for neat cable management.
- Main power switch located on the electrical cabinet.



Working Station

B03

The Tax Stamps Working Station

- Consisting of:
  - Mobile operating table.
  - Angle-adjustable stand for containers.
  - Location for banding machine.
    - Same working height for counting and banding machine.
    - Power supply under the table for neat cable management.
- Main power switch located on the electrical cabinet.



Technical Specifications

B03

Dimensions	L	W	H
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		

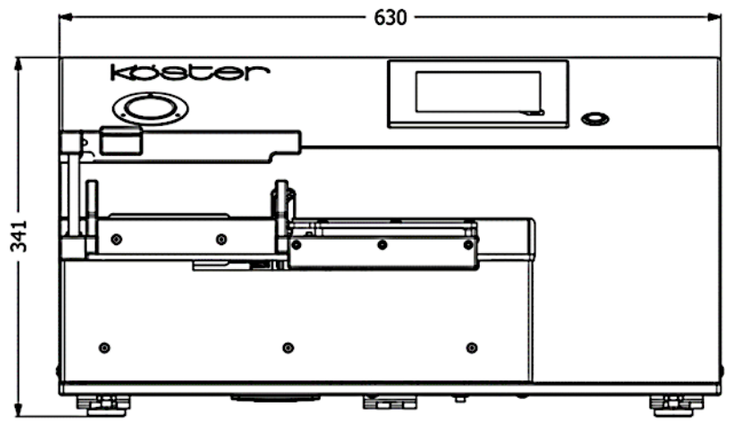
Formats	Without separation knife		With separation knife	
	L	W	L	W
Min. (mm):	32	9	100	55
Max. (mm):	180	85	180	85

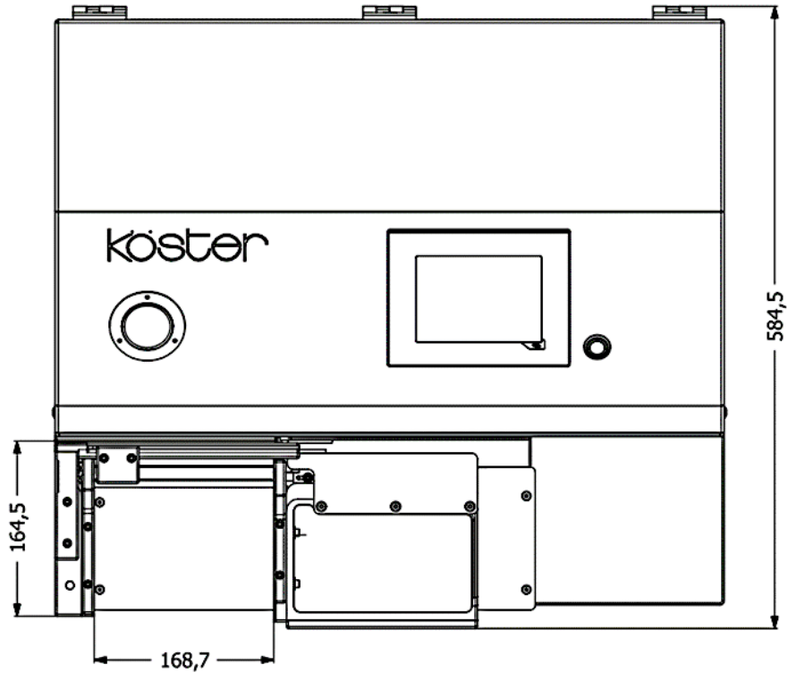
Discs	Type	Min.	Max.	Position	Use
GSM:	C1	35	70	Corner	Tax stamps
GSM:	C2	30	150	Corner	Banknotes

Depending on the rigidity and quality of the products, these values may vary during processing.

Machine Layout

B03





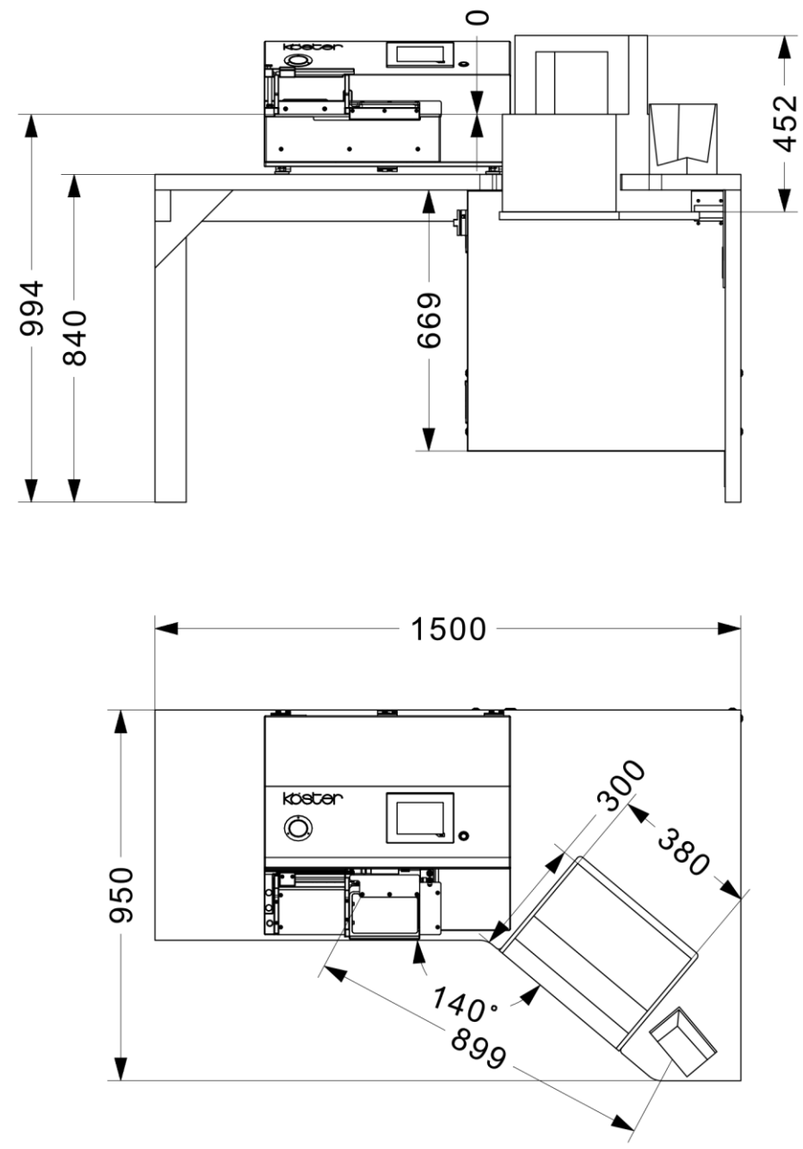
Technical Specifications

B03

Counting technology	Disc				
Counting direction:	from left to right				
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:	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				

Working Station Layout

B03



Since 1991

Discs





Made in Germany –
Made for the world

köster

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Subject to modifications V12