# B03

köster



## 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

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### 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

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### 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.



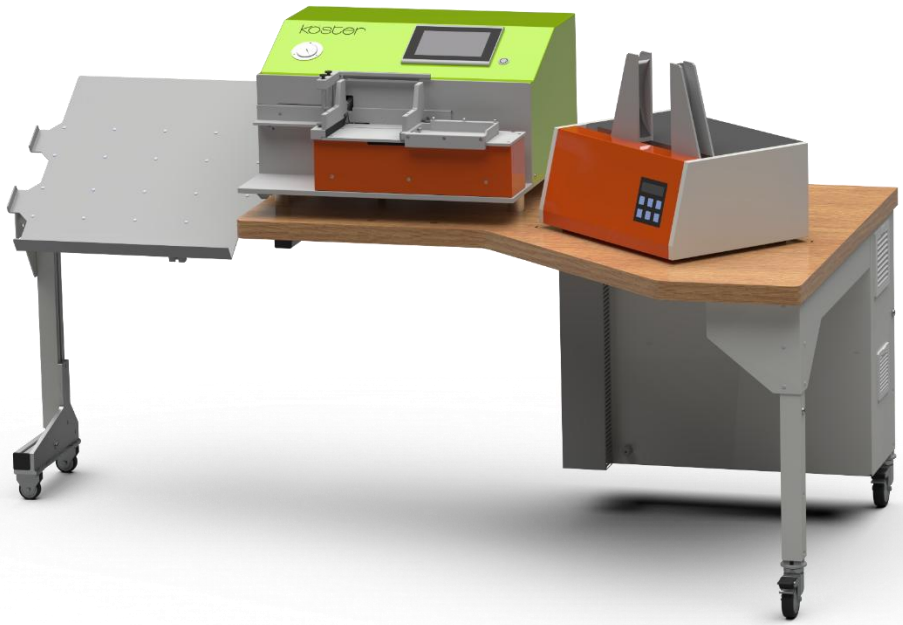


# Working Station

# 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.

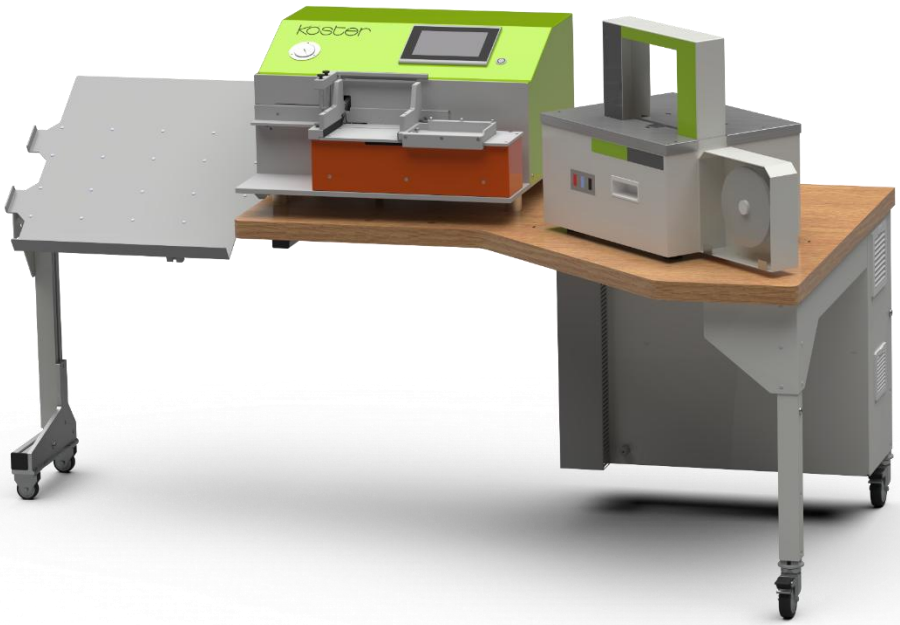


# Working Station

# 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.



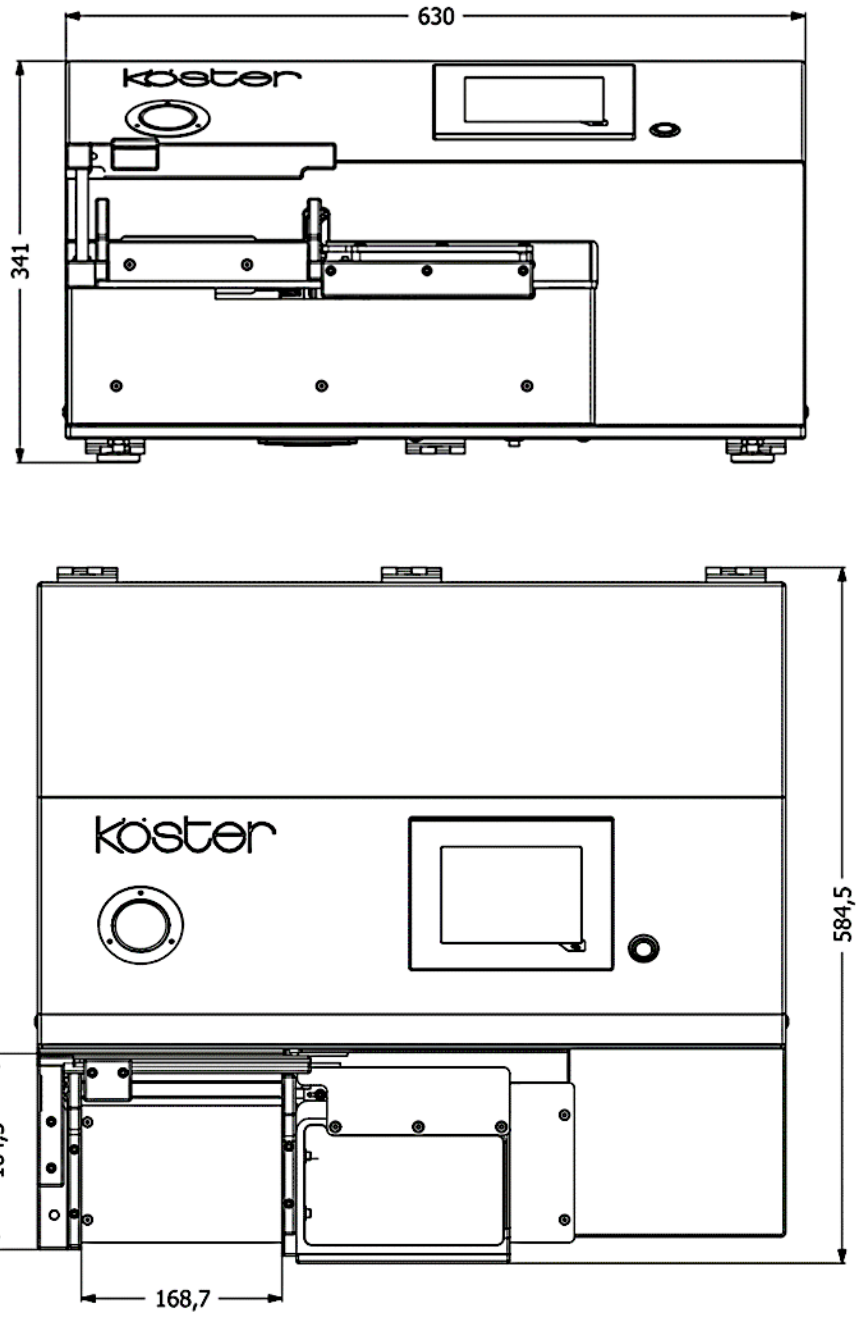
# Technical Specifications

## 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



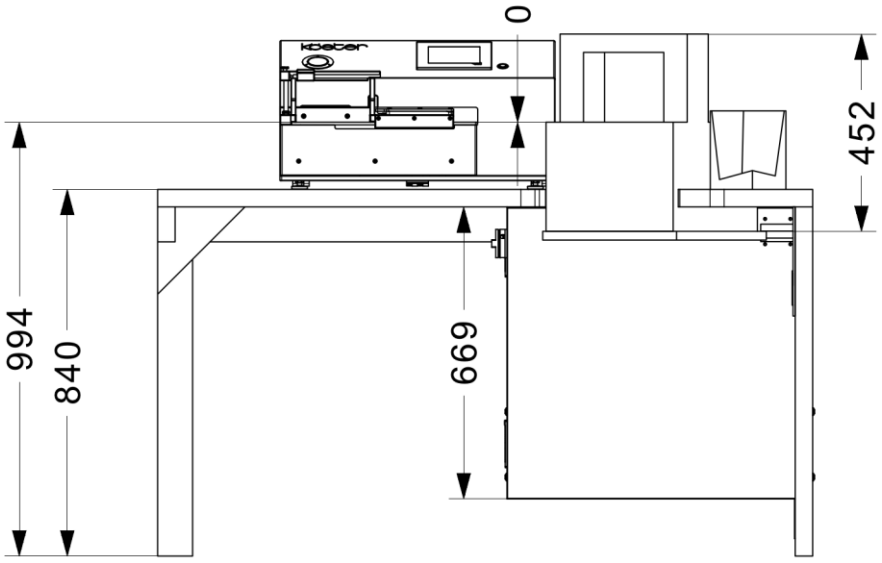
# Technical Specifications

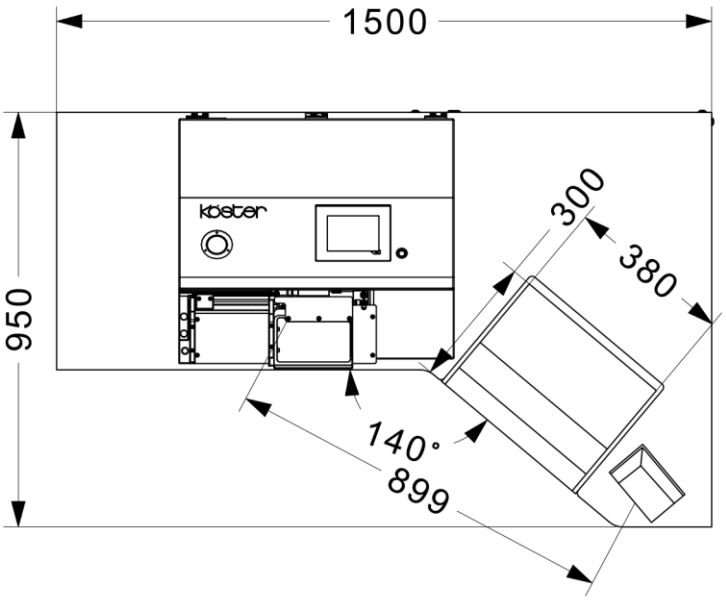
## B03

| | | | | | |
|---|---|---|---|---|---|
| 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**




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**Subject to modifications V12**