

# 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 Single-phase 230V-AC / 50-60Hz.

### The Advantages

- High efficiency - Increased productivity through simple operation
- High accuracy - 99%
- High flexibility - Range from 35 - 150 g/m<sup>2</sup>
- 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.

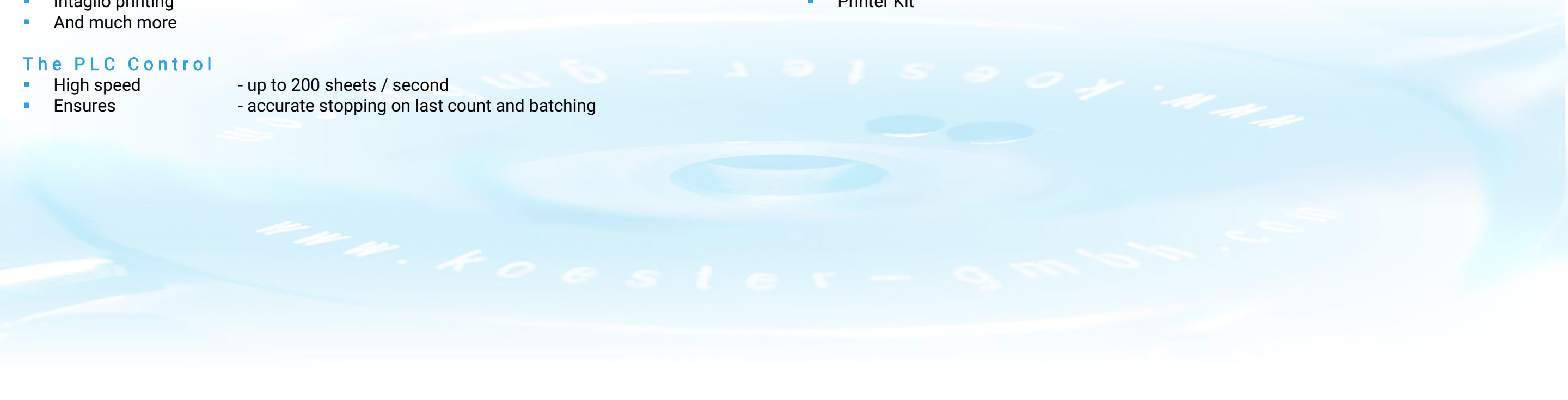
**The Equipment**

Wide range of integrated features in the standard version:

- **Comparing:**  
Results are compared with the preset value; if they do not match, the result is highlighted in red.
- **Firmware or Program Update:**  
Firmware or program version updates are easily carried out using an USB memory stick.

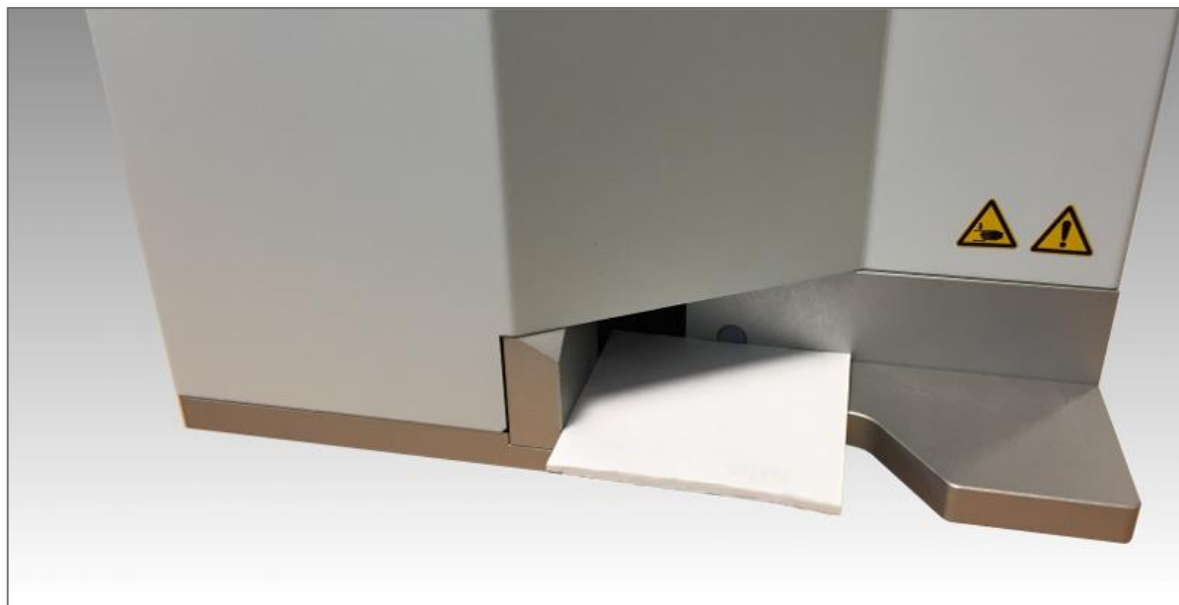
**The Options**

- 24 months warranty extension excluding wear parts
- Printer Kit



# B04

## Impressions



# B04

## 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					
Electric:	Single-phase 230V-AC / 50-60Hz / max. back-up fuse 16A / full load current 3A				
Pneumatic:	No external compressed air supply 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 <sup>2</sup> ):	35	150	C2	Corner	Notes
Depending on the stiffness and quality of the products, these values may deviate during processing.					

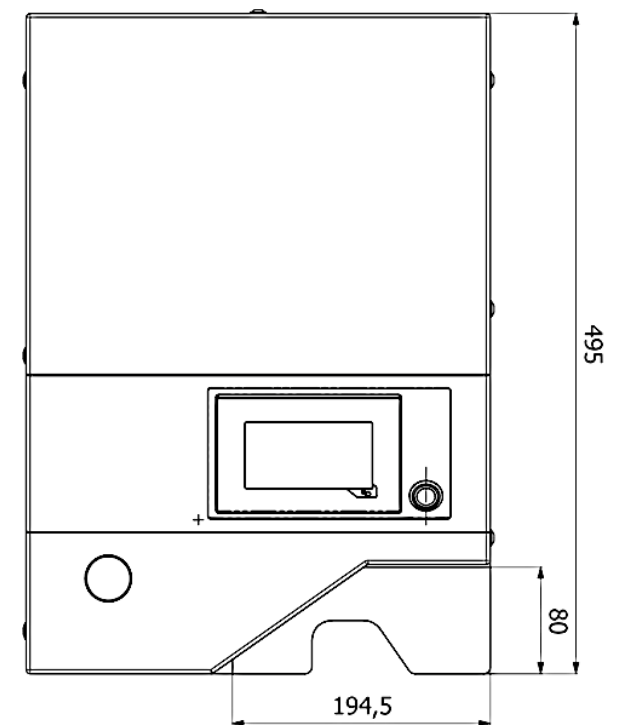
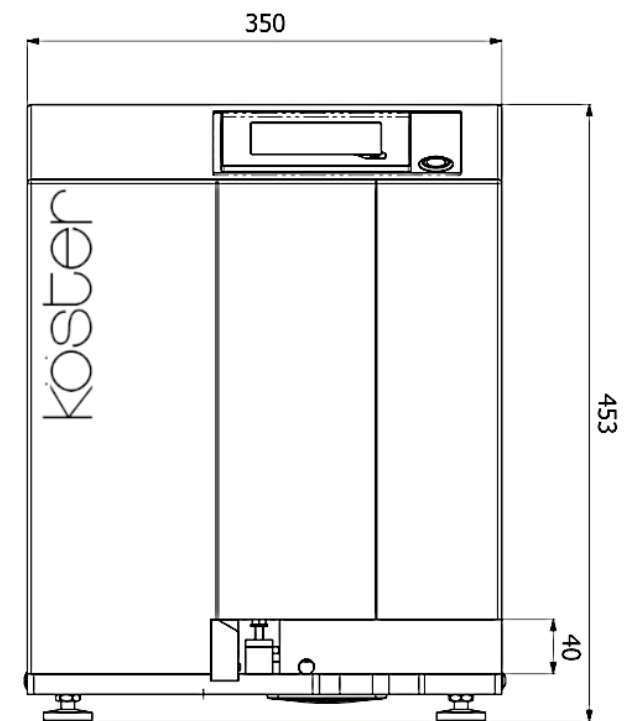
# B04

## 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.					
<b>Processable Substrates</b>					
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.				
<b>PLC Control</b>					
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 /				
<b>Operating Noise</b>					
Max. dB(A) at 2000 RPM:	78				
<b>Environmental Conditions</b>					
	Min.	Max.			
Recommended temperature range (+°C):	15	35			
Recommended relative humidity range (%):	35	45			
<b>Certification</b>					
CE Certificate:	Complies with all applicable European standards.				

# B04

## Machine Layout



## Counting Discs – Since 1991



## HPC – HIGH PERFORMANCE COUNTING

### 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.

**koester**  
Maschinen- und Werkzeugbau

**Made in Germany –  
Made for the world**