HPC – HIGH PERFORMANCE COUNTING
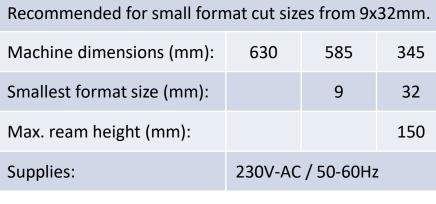
HPC Counting Equipment Overview

köster
Maschinen- und Werkzeugbau

B03 Single Head Counting Machine

Recommended for small format cut sizes from 9x32mm.

Machine dimensions (mm):	630	585	345
Smallest format size (mm):		9	32
Max. ream height (mm):			150
Supplies:	230V-AC / 50-60Hz		

B04 Single Head Counting Machine

Recommended for 100 notes bundles amount checking.

Machine dimensions (mm):	495	350	453
Smallest format size (mm):		80	60
Max. ream height (mm):			40
Supplies:	230V-AC / 50-60Hz		

B06 Single Head Counting Machine

Counting direction from bottom to top. Recommended for fast and accurate amount batching.

Machine dimensions (mm):	680	790	1370
Smallest format size (mm):		80	60
Max. ream height (mm):			260
Supplies:	230V-AC / 50-60Hz		

B07 Single Head Counting Machine

Recommended for small and medium format cut sizes. Table options can be easily fitted to customer needs.

Machine dimensions (mm):	852	750	770
Smallest format size (mm):		80	60
Max. ream height (mm):			200
Supplies:	230V-AC / 50-60Hz		

B10 Double Head Counting Machine

Recommended for sheets ream counting, offline or inline use as part of a production line.
Corner or edge counting positions possible.

Machine dimensions(mm):	1680	1300	2125
Smallest format size (mm): (without tab inserter)		158	80
Max. ream format (mm):	1200	900	200
Supplies:	230V-AC / 50-60Hz		

B11 Single Head Counting Machine

Recommended for medium and large format cut sizes. Highly variable counting head position ensuring best ergonomics within the requested table size upon customer order.

Machine dimensions (mm):	1150	1118	1759
Smallest format size (mm):		80	60
Max. ream height (mm):			200
Supplies:	230V-AC / 50-60Hz		

B12 Single Head Counting Machine

Recommended for medium format cut sizes. Variable counting head position ensuring best ergonomics straight and 45° right turned upon customer order.

Machine dimensions (mm):	1640	900	1626
Smallest format size (mm):		80	60
Max. ream height (mm):			200
Supplies:	230V-AC / 50-60Hz		

B15 Quad Head Counting Machine

Recommended for automated inline sheets ream counting as part of a production / finishing line.

Machine dimensions (mm):	2810	1942	2175
Smallest format size (mm):		430	430
Max. ream height (mm):			150
Supplies:	3/N/PE 400V±10% AC		

B17 Single Head Counting Machine

Universal counting machine, compatible with all counting discs from our range. All necessary counting positions can be reached by moving the counting head and the stops.

Machine dimensions (mm):	840	912	2080
Smallest format size (mm):		160	75
Max. ream height (mm):			200
Supplies:	230V-AC / 50-60Hz		

B22 Double Head Counting Machine

Widely customizable double-head sheet counting machine in various configurations also available as a single-head machine. Compatible with all counting discs from our range.

Machine dimensions (mm):	1680	1270	1931
Smallest format size (mm):		200	80
Max. ream height (mm):			200
Supplies:	230V-AC / 50-60Hz		

Counting Discs

Corner or edge counting discs.

Ø	min. / max. (mm):	112		158
GSM	min. / max.:	35		600
RPM	min. / max.:	300		3000
Seg.	min. / max.:	3		6

Features

The Machines
- Optimized ergonomics
- Plug & Play commissioning
- No external compressed air supply required for most machines
- No external components required
- Standard power supply 240 VAC ~50 Hz.
- Side edge or corner counting, depending on machine version
- Different counting directions, from bottom to top / top to bottom / left to right

The Advantages
- High efficiency   - increase productivity through simple operation
- High accuracy   - 99%
- High flexibility   - qualities from 35 - 500 g/m²
- High durability   - solid, high quality construction
- High cost effectiveness   - Low maintenance costs

The Counting Discs
- Gentle and soft counting disc profile
- Low counting disc diameter
- Low immersion depth
- Low deformation of the product
- Lowest possible impact on the product
- No damage to the sheet corner or sheet edge
- No wrinkling of the sheet corner or sheet edge
- No marks on the corner or edge of the sheet
- Sheet to sheet scaling within high tolerances can be processed
- Up and down corners curl can be processed within high tolerances

The Formats
Bundled or loose formats from 9 x 32mm and sensitive products such as:
- Banknotes
- Postage stamps
- Tax stamps
- And much more

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

The Technology

The 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 300 sheets / second
- Ensures   - accurate stopping on last count and batching

The Machine Design

- Maintenance access is provided through large openings in the machine housings.
- 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.
- The high performance and availability of the machines results from the robust and precise construction in steel and aluminum.

The Equipment

Already available as standard, depending on the machine type:

- **Security Counting:**
  Results are compared with the preset value, if they do not match, the product is not automatically released, the operator is alerted by a message.

- **Comparison count:**
  Results are compared with the preset value, and if they do not match, a message alerts the operator.

- **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.

- **Separation Knife:**
  Increase gap visibility for the operator during bundle quantity checking of, for example, 100-note bundles in 1000-note stacks. Not compatible with the processing of tax and postage stamps.

- **Tab Inserter:**
  During the counting process, a length-adjustable strip is inserted into the stack after a preset number of sheets. Can be combined with 3- and 6-segment discs, operation can be selected and deselected.

- **Firmware or Program Update:**
  Firmware or program version updates are easily carried out using an USB memory stick.

- **User Management:**
  Depending on the machine version, integrated user administration incl. password and access levels.

- **Recipe Management:**
  . Depending on the machine version, integrated recipe management. The operator can configure and store different recipes / counting programs. Taking into account the user level, these can be created, changed or deleted and loaded.

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.

köster
Maschinen- und Werkzeugbau

Made in Germany – Made for the world