

HPC – HIGH PERFORMANCE COUNTING

B07 Desktop Counting Machine



köster
Maschinen- und Werkzeugbau

Featuring:

State of the art HPC Disc Counting Machine

Desktop HPC single head counting machine for flexible use on different locations within the production, especially designed for smaller formats high speed counting.

- High speed - Up to 200 sheets / second
- High efficiency - No compressed air required
- High accuracy - 99%
- High flexibility - GSM range 35 – 150 / more on request
- High durability - Lowest maintenance costs

State of the art HPC Disc Counting Technology

Counting direction from top to bottom grants:

- Lowest possible impact to the product

Corner counting position assures:

- No damages to the sheet corner
- No folding to the sheet corner
- No marks to the sheet corner
- Sheet to sheet misalignment within high tolerances can be processed
- Up and down corner curl within high tolerances can be processed

All kinds of substrates used in the global printing industry can be damage-free counted on highest speed and highest accuracy:

- Cotton based substrates
- Coated substrates
- Hybrid substrates
- Laminated substrates

The low impact disc design allows the operator to avoid critical security zones on the substrates as security threads, holographic, applications, codes, intaglio printing, etc.

State of the art HPC Disc Segment Recognition System

The built-in disc segment counting position recognition system assures that the disc stops accurate depending on the different counting operations definitely to avoid miscounting or mismatching due to non counted but already separated next sheet.

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Featuring:

State of the Art HPC PLC Control

Integrated various range of counting operations and equipment functions:

- **Counting**
- **Security Counting**, results are compared with presetted value, on mismatch the product is not automatically released.
- **Layers batching**, a preselected amount of sheets can be easily batched to a layer. The counting disc is used as separation to provide the operator a gap for easy layer unloading.
- **USB firmware or program update**, updates of firmware or program version are very easily performed using an USB memory stick.

State of the Art HPC Machine Design

- All supplied components are high class products from global manufacturers, mostly available ex stock.
- The non-sophisticated machine design assures easy to handle maintenance, lowest grade and costs as well as highest production availability.
- The counter head is guided on hardened shafts with recirculating ball bushings, the precision-ground drive shaft is mounted in generously dimensioned ball bearings. The robust and precise structure in steel and aluminium including lowest production tolerances results to the high performance machine capability.
- Due to the modular machine design different table tops in various dimensions can be supplied assuring highest flexibility for production line integration.

Available Options:

- Warranty extension 24 months except wear parts
- EPSON® Label printer



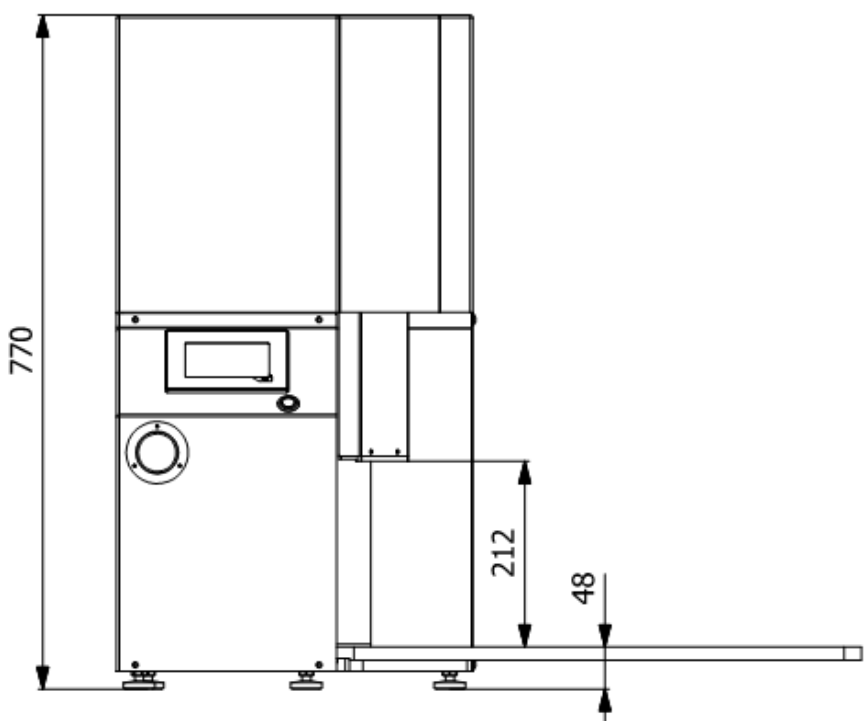
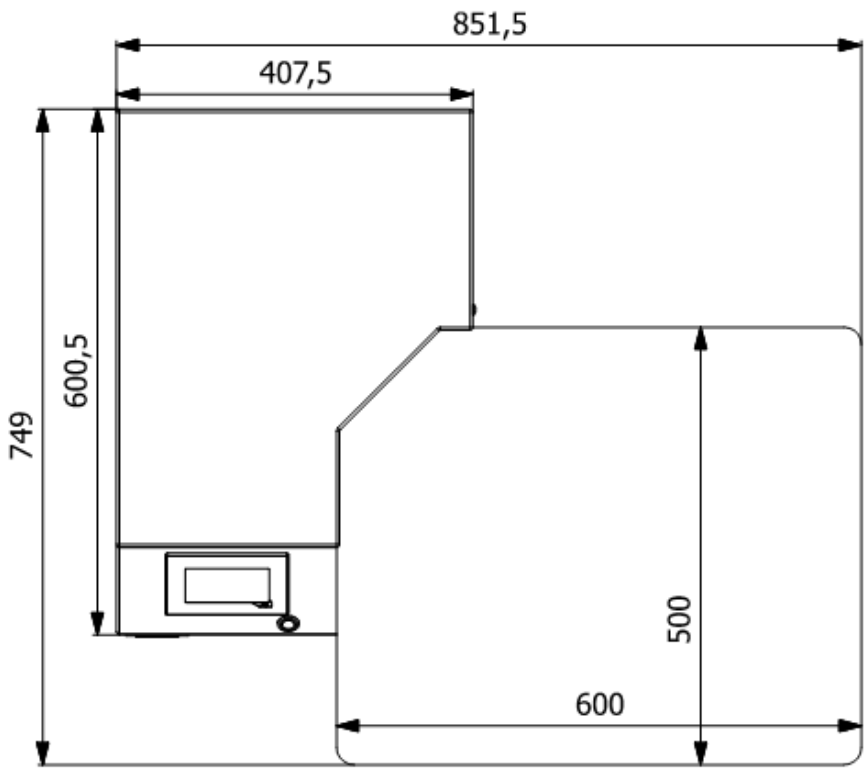


Technical Specifications

Dimensions		L	W	H		
Over all with standard table (mm):		852	750	770		
Machine weight		Min.				
Machine weight (kg.):		65				
Working height						
Working height (mm):		Depending to used desk height				
Supplies						
Electrical connection:		Single Phase 230V ± 10% AC~50 Hz./ IEC C14 socket plug & play				
Compressed air:		Not required				
Format sizes		L	W	H		
Minimum layer height (mm):				10		
Maximum layer height (mm):				200		
Minimum format size:		80	60			
Max. format size (mm) with standard table:		600	500			
Counting Technology						
Counting method:		Disc				
Counting direction:		Top to bottom				
GSM and disc range		Min.	Max.	Disc Type	Counting position	Optionally
GSM (g/m ²):		35	150	C2	Corner	All C discs
Values are subjected to rigidity sensitivity and quality of processed products. During processing of the products values might differ.						
Counting speed standard		RPM	Disc Type	GSM range	Segments	Sheets / min. Sheets / sec.
Rated RPM:		2000	C2	35 - 150	6	12000 200
Values are subjected to rigidity sensitivity and quality of processed products. During processing of the products values might differ.						
Counting speed optionally		RPM	Disc Type	GSM range	Segments	Sheets / min. Sheets / sec.
Not available						
Values are subjected to rigidity sensitivity and quality of processed products. During processing of the products values might differ.						
Processable substrates						
Currency Industry		Currency and documents paper, coated or uncoated, polymers and hybrids.				
Consumer Industry		Consumer paper, coated or uncoated, laminated, plastics and polymers				
PLC Control						
Brand:		B&R				
Touchscreen:		4,3" B&R coloured 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				
Environmental conditions						
Rec. temperature range (+°C):		15	35			
Rec. relative humidity range (%):		35	45			
Certification						
CE Certificate:		In conformation to all applicable European standards.				

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Machine Layout



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Basic information concerning HPC- Equipment

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 attained 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.

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.

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