

B26

köster



The Task

- The market demands the physical counting of very different products, which requires the use of different counting discs. The higher the GSM value or stiffness of a product to be counted, the deeper the counting disc usually must immerse into the product, which increases the diameter of the counting disc.
- This leads to different disc diameters and different counting positions as well as distances, whereby the desired counting position also changes, or the 'classic corner' used for high security printing cannot be always used for higher GSM values.

The Solution

- Our new Köster HPC B26, a machine on which all counting positions (corner and side edge counting) can be adapted depending on the configuration.
- A machine table that can be adapted to the format and product to be counted, in terms of dimensions, with or without air supply and in terms of the materials used (aluminum, HPL, stainless steel).

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Machine Features

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The Counting Head

- Köster air suspension instead of the conventional mechanical weight compensation.
- Quick and easy adjustment of the weight of the counting head, the vacuum power and the pressing force of the press plates via independent pressure regulators.

The Standard Machine

- Left-sided counting head:
 - Fixed.
 - Corner counting position.
- HPL ((high pressure laminate) machine table, size 880 x 900mm.
- Plug & Play commissioning.
- Standard voltage supply Single-phase 230V-AC / 50-60Hz .

The Formats

- Bundled or loose products:
 - From 80 x 160mm.
 - Up to 1680 x 900mm, in the version with the largest table.

The Options

- Tab inserter.
- Individual counting table sizes and versions upon request.
- Castors.
- Printer kit.
- Warranty extension 24 months except wear parts.

The Substrates

- Coated products
- Hybrid products
- Laminated products
- Polymers
- Paperboards
- Cardboards
- And much more

The Products

- Labels
- Packagings
- Kraft papers
- High security products
- Tax and post stamps
- And much more

The Operation

- Counting direction from top to bottom
- Precise and fast product handling
- User friendly HMI

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 layer is completely counted.
- Comparing:
Results are compared with the pre-set number, if they do not match, a visual alarm is displayed.
- Batching:
A pre-set number can be easily batched to obtain a ream.
The counting disc is used for separation to provide a gap for the operator to easily separate the reams.
- Security Counting:
Results are compared with the pre-set number, if they do not match, the product is not automatically released.
- Difference counting:
A pre-set number is compared with the amount in the layer.
Under or over quantities can be removed or added in the ream according to guided instructions to obtain the required quantity. The counting disk is used for separation to provide the operator with a gap for easy removal of the excess quantity.

The Corner Counting Version

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Corner counting position

- Counting head at the corner
- Corner alignment stop.



The Edge Counting Version

B26-M

Edge counting position

- Counting head at the center.
- Fixed stops on the left and right of the head.



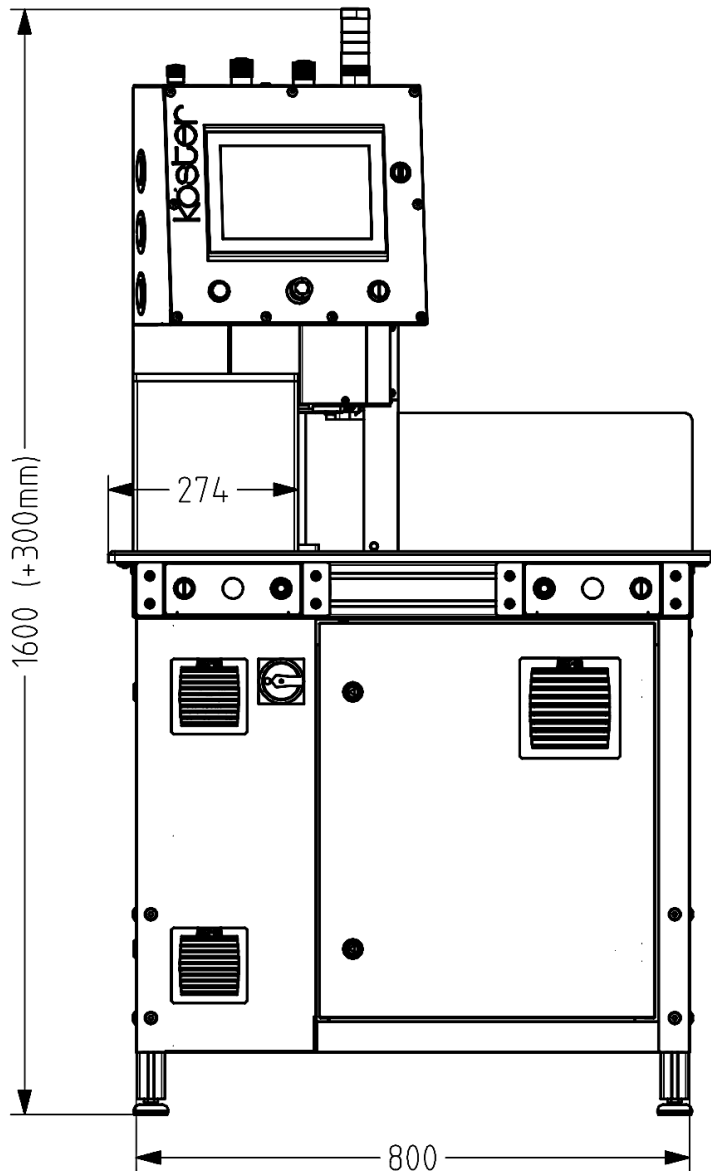
Technical Specifications

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Dimensions	L	W	H
Overall (mm):	880 – 1680	900-1325	1600-1900
Standard Table (mm):	880	900	
Table Max. (mm):	1680	900	
Working height (mm):	790 - 1100		
Machine weight (kg):	180 - 280		
Supplies			
Electric:	Single-phase 230V-AC / 50-60Hz / max. back-up fuse 16A / full load current 8A		
Pneumatic:	Min. 6 bar / oil and water-free / consumption 200 l/h		
Layer height			
Min. (mm):	10		
Max. (mm):	200		
	Standard table with stop		Max. table with stop
C-Discs	L	W	L W
Min. format size (mm):	160	75	160 75
Max. format size (mm):	606	900	1406 900
	Standard table with stop		Standard table without stop
S-Discs	L	W	L W
Min. format size (mm):	190	75	190 75
Max. format size (mm):	606	900	880 900
	Max. table with stop		Max. table without stop
S-Discs	L	W	L W
Min. format size (mm):	190	75	190 75
Max. format size (mm):	1406	900	1680 900

Machine Layout

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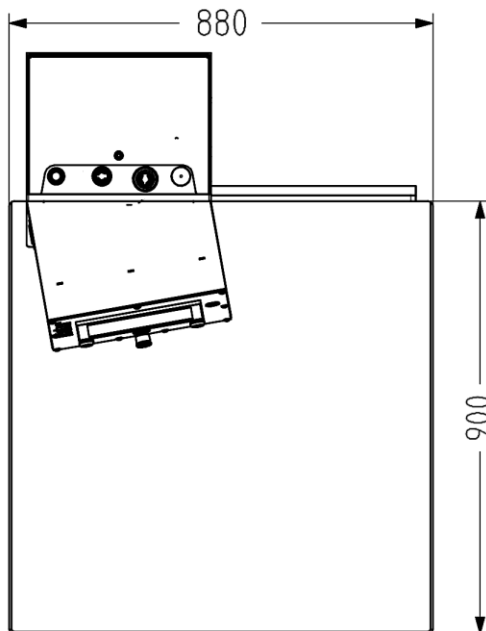
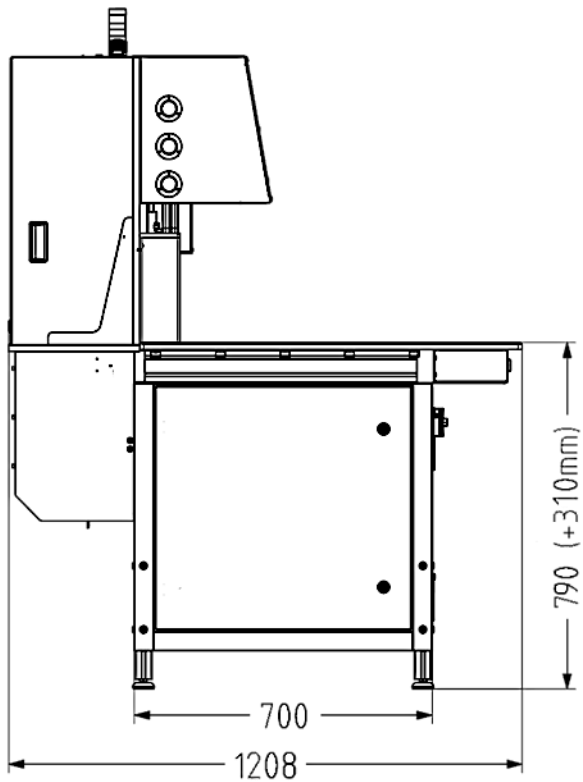
Technical Specifications

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Counting Technology	Disc				
Counting Direction:	Top to Bottom				
Counting Speed	Max. RPM	Type	Segments	Sheets/Min.	Sheets/Sec.
Rated RPM:	2.000	C,S	3	6.000	100
Rated RPM:	2.000	C,S	4	8.000	133
Rated RPM:	2.000	C,S	5	10.000	166
Rated RPM:	2.000	C,S	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:	10,1" 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				

Machine Layout

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Basic Information

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.

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 of 24 months optionally available.
- Warranty coverage except wear parts.

HPC – HIGH PERFORMANCE COUNTING

Since 1991

Discs



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



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