

HPC – HIGH PERFORMANCE COUNTING

B15 Quadhead Counting Machine



Features

The Machine

- Simultaneous counting on the 4 corners of a ream
- Centering of the ream by simultaneous approach of the corners
- For automatic inline operation as part of a production line

The Advantages

- High efficiency - Increase productivity through automation
- High accuracy - 99%
- High flexibility - Qualities from 35 - 150 g/m²
- High durability - Solid, high quality construction
- High cost efficiency - Low maintenance requirements

The Formats

- Min. 430 x 430mm
- Max. 850 x 850mm
- Min. product height: 10mm
- Max. product height: 150mm

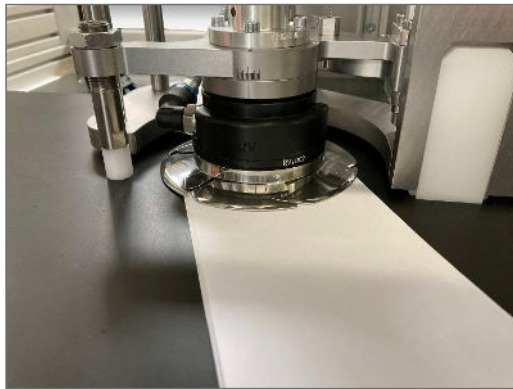
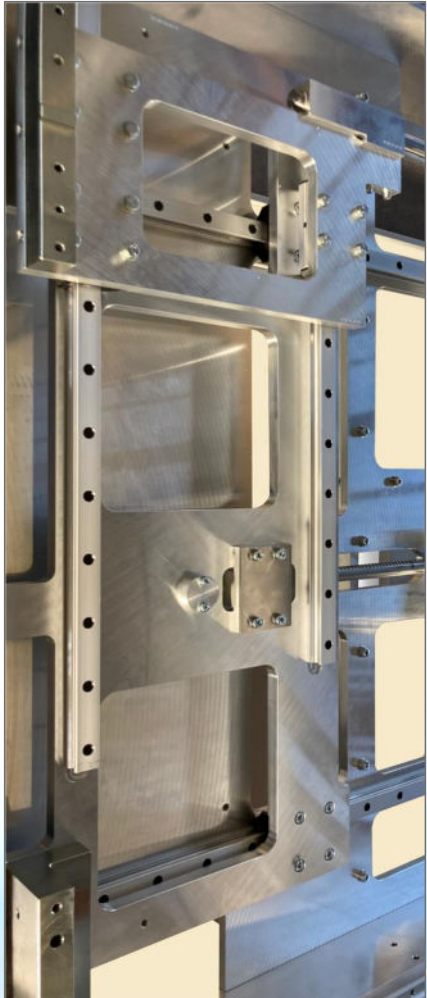
The Flexibility

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

B15

Features



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The Machine Design

- Generous, space-saving access through sliding doors.
- Smallest footprint in this machine class.
- All installed components are high-quality products from global manufacturers.
- The unsophisticated machine design ensures easy maintenance and low maintenance costs as well as maximum machine availability.
- The high performance and availability of the machine results from the robust and precise construction in steel and aluminium.

- The main axes are servo driven with absolute encoders:
 - No references have to be approached
 - No loss of position in case of power failure
 - Extremely accurate positioning

- One-piece powder-coated steel base cabinet incl. floor and control cabinet guarantees inherent stability and easy transport and installation.
- Construction of the counting devices on a cross table ensures precise traversing geometry.
- Continuous micro-perforated, hard-anodised air table with 2 separate air chambers over the entire length of the machine.

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

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The Drive

- Fast - up to 120 sheets / second
- Powerful - Torque at any speed

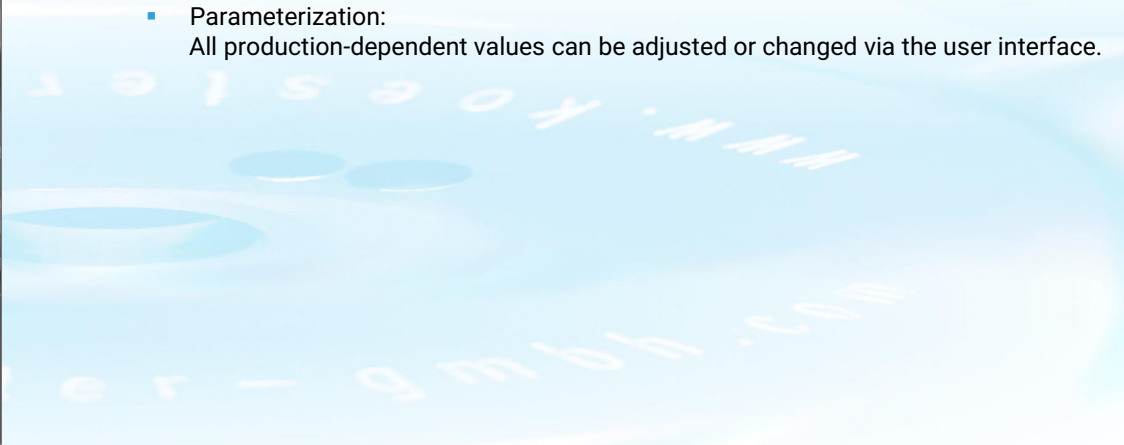
The Technology

- Unique counting discs that combine accuracy, speed and dimensional deviations of the product to be counted with damage-free counting.
- Counting is performed directly onto the air table.

The Equipment

Autonomous machine control interface allows:

- Selection of the counting processes:
Results are compared with the pre-set value, if they do not match, the product can be recounted at all 4 corners in a second counting process.
- Format adjustment:
In addition to the format values transmitted via the interface from the higher-level control, individual offset values can be parameterized.
- Parameterization:
All production-dependent values can be adjusted or changed via the user interface.



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Technical Specifications

Dimensions	L	W	H	
Overall (mm):	2,810	1,942	2,175	
Inline installation dimensions (mm):	2,300	960	920 – 1,000	
Weight				
Machine weight (kg):	1,100			
Working Height				
Working height (mm):	920 – 1,000			
Supplies				
Electrical connection:	3/N/PE 400V±10% AC~50 Hz. /16A / 5,2KW			
Compressed air:	1,890 NI/h at 90 reams/h			
Format Sizes	L	W	H	
Min. layer height (mm):			10	
Max. layer height (mm):			150	
Min. format size (mm):	430	430		
Max. format size (mm):	850	850		
Counting Technology				
Counting method:	Disc			
Counting direction:	Top to Bottom			
Counting Discs	Min.	Max.	Type	Position
GSM (g/m ²):	35	150	C2	Corner
Depending on the stiffness and quality of the products, these values may deviate during processing.				

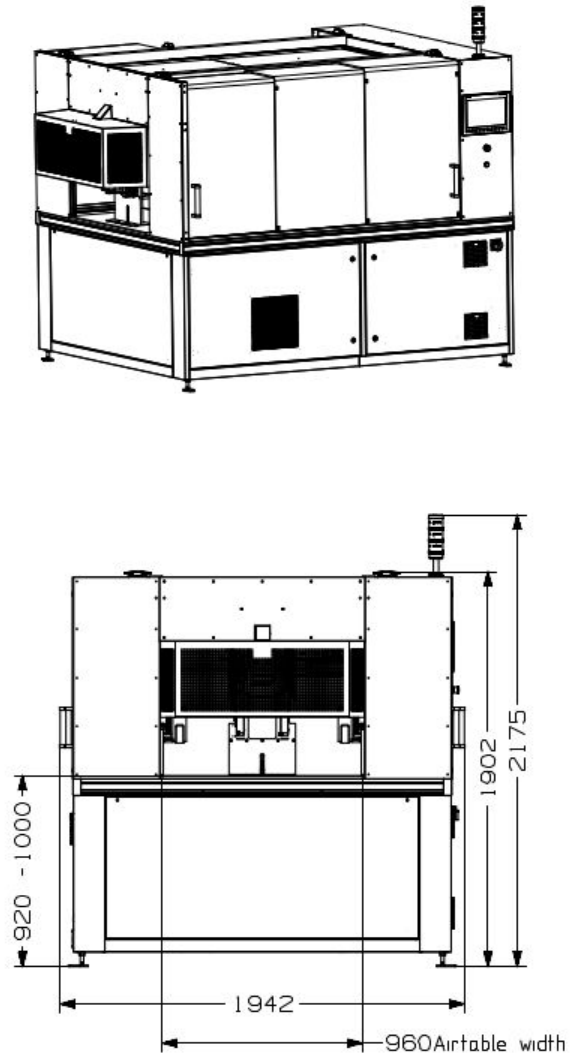
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Technical Specifications

Counting Speed	RPM	Type	Segments	Sheets/Min.	Sheets/Sec.
Rated RPM:	1,200	C2	6	7,200	120
Depending on the stiffness and quality of the products, these values may deviate 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 and much more.				
PLC Control					
Brand:	Siemens				
Touchscreen:	Colored, multilingual, main HMI with pictograms				
Connections and interfaces:	By agreement				
Operating Noise					
Max. dB(A) at 2000 RPM.:	78,5				
Environmental Cond.	Min.	Max.			
Recommended temperature range (+°C):	15	35			
Recommended relative humidity range (%):	35	45			
Certification					
By agreement:	Following the applicable European standards.				

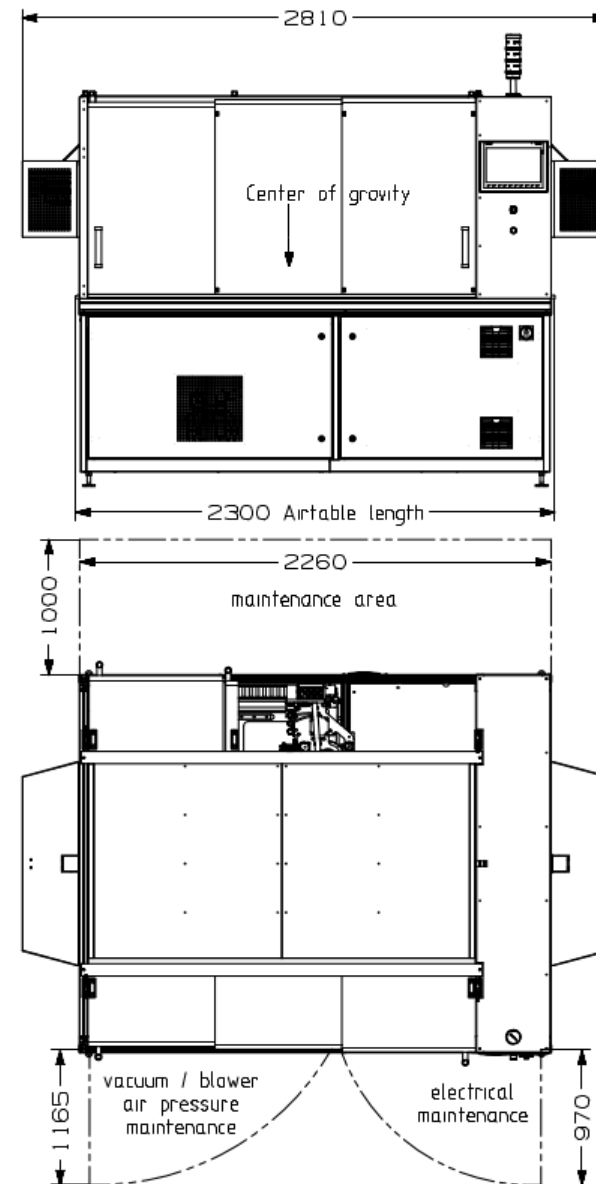
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Machine Layout



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Machine Layout



Counting Discs – Since 1991



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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.