

B15

köster



The Task

- The most reliable method of checking the number of sheets in a ream is to count all four corners.
- Conventional checks with double-head counting machines are associated with high manual effort and low productivity.
- The market demands more effective systems.

The Solution

- Our new Köster HPC B15 quad-head counting machine.
- For use in existing and new production lines.

The Formats

- Min. 430 x 430 mm
- Max. 850 x 850 mm
- Min. layer height 10 mm
- Max. layer height 150 mm

The Flexibility

- All types of substrates used in the global security printing industry can be processed with the highest speed and accuracy.

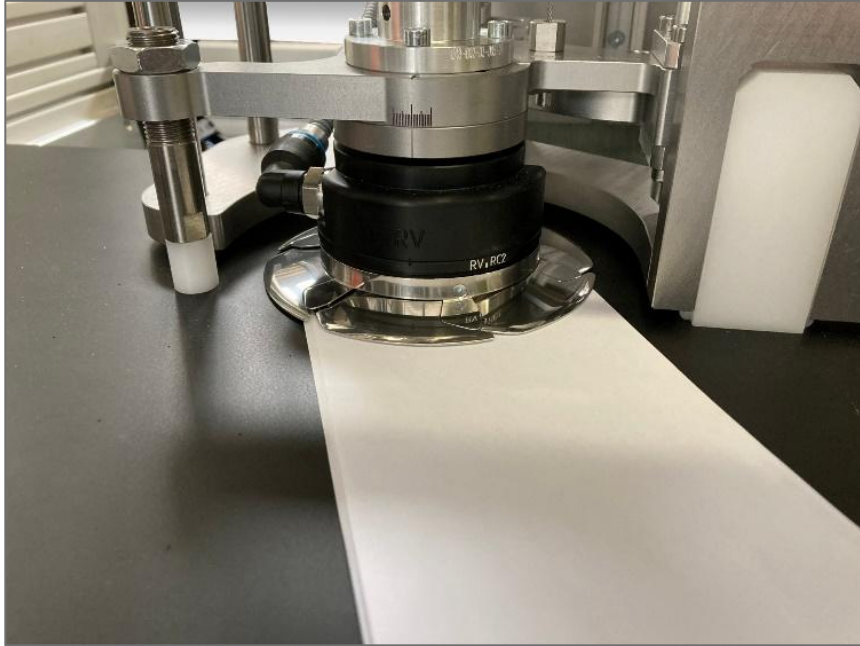
The Substrates

- Cotton based products
- Coated products
- Hybrid products
- Laminated products
- And much more

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Machine Features

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The Machine Design

- Generous, space-saving access thanks to sliding doors.
- Smallest footprint in this machine class.
- All components are high-quality products from global manufacturers.
- The uncomplicated machine design ensures easy maintenance and low maintenance costs as well as maximum machine availability.
- The high performance and availability of the machine result from its robust and precise construction in steel and aluminium.
- The main axes are servo-driven with absolute encoders:
 - No references need to be approached
 - No position loss in the event of a power failure
 - Extremely accurate positioning
- One-piece, powder-coated steel base cabinet including floor and control cabinet.
- Guarantees stability, easy transport and installation.
- The counting devices are mounted on a cross table to ensure precise travel geometry.
- Continuous micro-perforated, hard-anodised air table with 2 separate air chambers over the entire length of the machine.

Machine Features

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The Precision

- Concentricity and axial runout of the counting disc $<0.025\text{mm}$.
- Smooth running and safe counting signals at any speed.

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 on the air table.

The Equipment

- Selection of counting processes:
Results are compared with the preset value. If there is a discrepancy, the product can be recounted at all four corners in a second counting process.
- Format adjustment:
In addition to the format values transmitted via the interface from the higher-level control system, individual offset values can be parameterized.
- Parameterization:
All production-related values can be adjusted or changed via the user interface.

Technical Specifications

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Dimensions	L	B	H
Overall (mm):	2810	1942	2175
Installation dim. (mm):	2300	960	920 - 1000
Working height (mm):	920 – 1000		
Machine weight (kg):	1100		
Supplies			
Electric:	3/N/PE 400V±10% AC~50 Hz. /16A / 5,2KW		
Pneumatic:	1890 NI/h at 90 reams/h		
Layer height			
Min. (mm):	10		
Max. (mm):	150		
Formats	L	B	
Min. format size (mm):	430	430	
Max. format size (mm):	850	850	
Counting Technology:	Disc		
Counting Direction:	Top to bottom		
Qualities:	35 – 150 GSM		

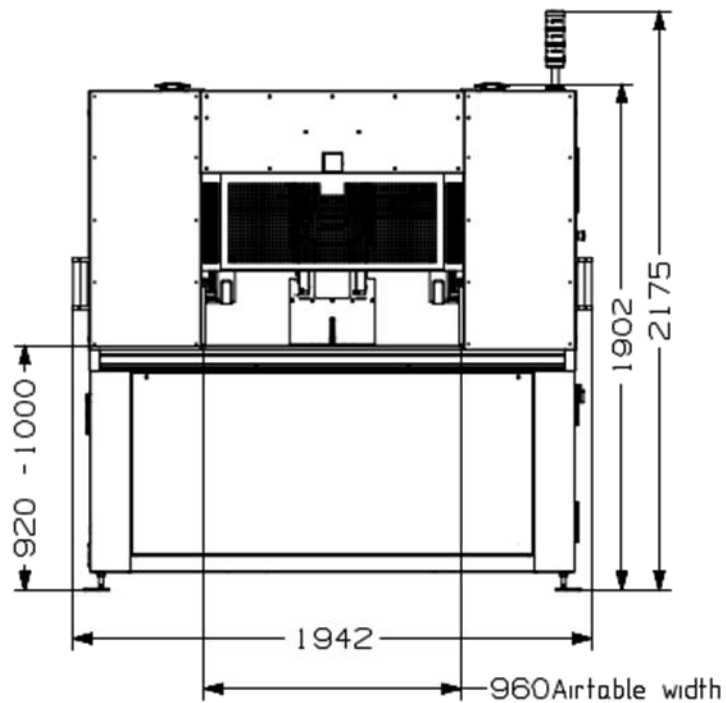
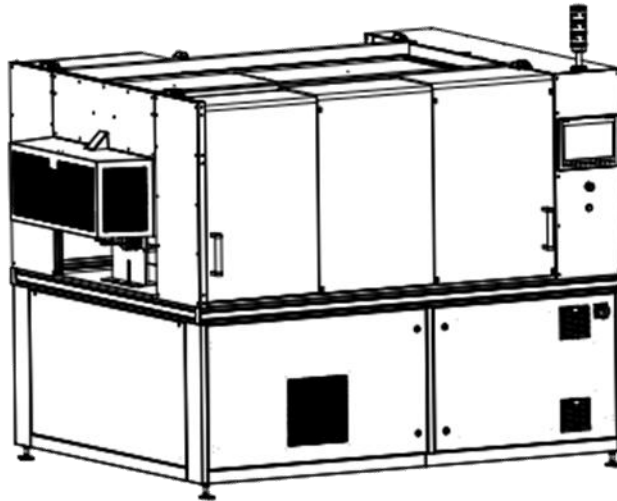
Technical Specifications

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Speed	Max. RPM	Type	Segments	Sheets/min.	Bogen/sec.	Position
Rated RPM:	1200	C	6	7200	120	Corner
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 human-machine interface with pictograms					
Interfaces:	By arrangement					
Operating Noise						
Max. dB(A) at 1200 U/min.:	78,5					
Environmental Conditions		Min.	Max.			
Recommended temperature range (+°C):		15	45			
Recommended relative humidity range (%):		35	45			
Certification	By agreement, in accordance with applicable European standards.					

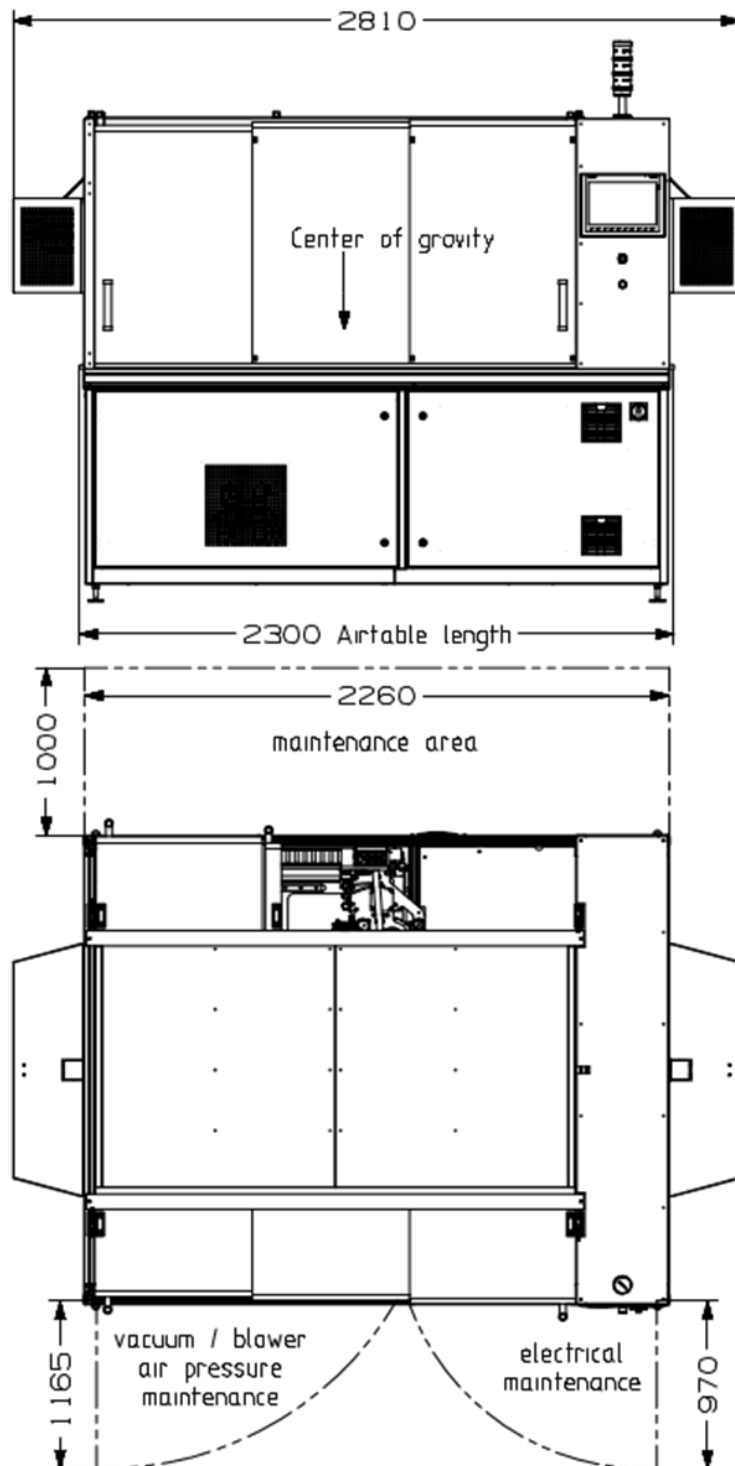
Machine Layout

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Machine Layout

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Since 1991

Discs



Made in Germany –
Made for the world



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Köster GmbH · Robert-Bosch-Straße 4 · D-74182 Obersulm-Willsbach
Telefon: +49(0)71344051 · E-Mail: service@koester-gmbh.de · Internet: www.koester-gmbh.de