

# B12

köster



## The Task

- The market needs a reliable, mobile and ergonomic counting machine to check the quantity of small print formats such as banknotes.
- Operators need space on the counting table to store the individual product bundles before and after counting.

## The Solution

- Our new Köster HPC B12, a machine with an ergonomic counting head position at a 45° angle.
- An easily height-adjustable machine table for standing and seated operation of the machine.
- The mobile construction on castors ensures that the machine can be easily relocated within production.
- The largest counting disc range available on the market allows the processing of products from 35 to 500 GSM.

## 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.

# B12

### The Standard Machine

- Ergonomic 45° counting head configuration.
  - Counting head in the center.
  - Avoids operator fatigue.
  - Avoids one-sided body strain.
- Counting at the corner.
- HPL (high pressure laminate) machine table.
- Plug & Play commissioning.
- Standard power supply 230V-AC / 50-60Hz.

### The Formats

- Bundled or loose products.
  - From 80 x 160mm.
  - To 400 x 600mm.

### 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

## Machine Features

### B12

#### 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

- Security Counting:  
Results are compared with the pre-set value, if they do not match, the product is not automatically released.
- 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.
- Firmware or Program Update:  
Firmware or program version updates are easily carried out using an USB memory stick.

#### The Options

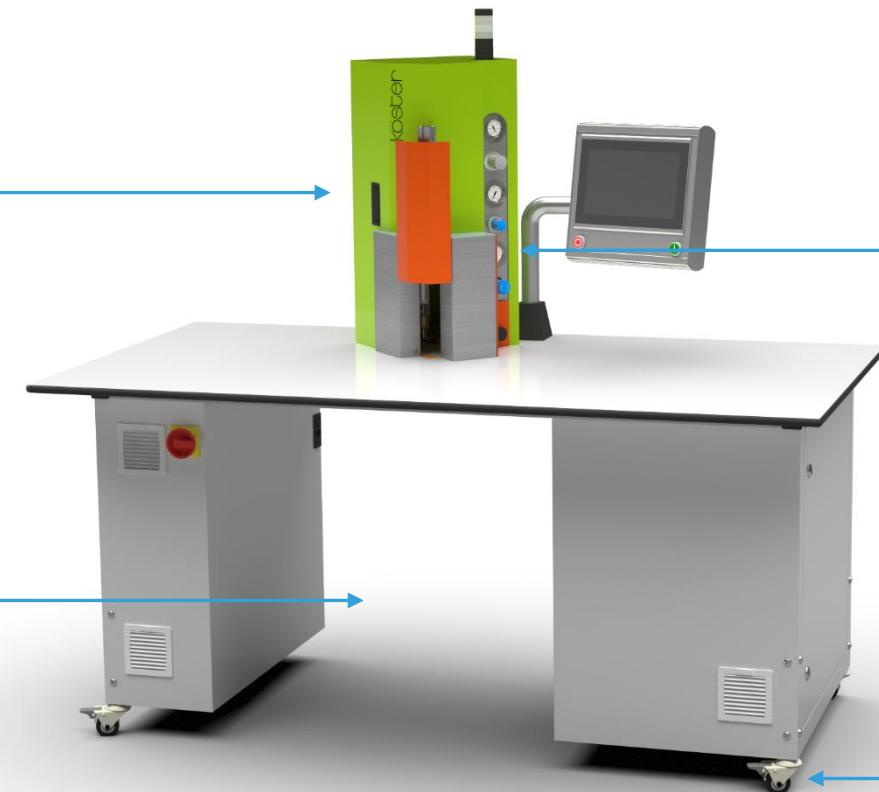
- Tab inserter.
- Integrated compressor.
- Individual counting table sizes and versions upon request.
- Printer kit.
- Warranty extension 24 months except wear parts.

## The Standard Version

### B12

Ergonomic counting head angle of 45°.  
Encapsulated counting head to reduce noise during counting.

Adjustment of the weight of the counting head, the vacuum power and the pressing force of the press plates via pressure regulators.



Generous legroom for the operator during machine use.

Machine on wheels for easy relocation.

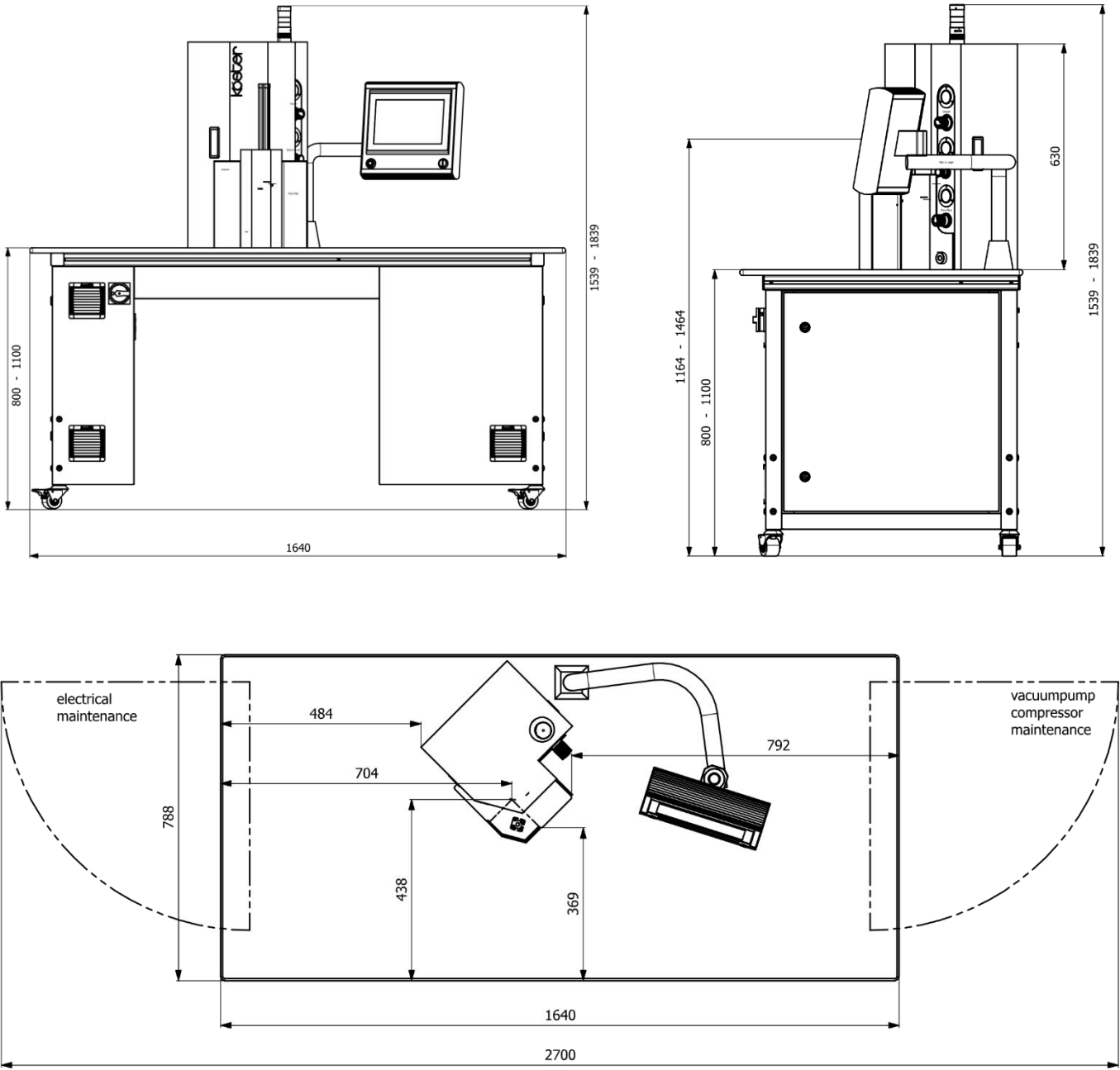
Technical Specifications

B12

Dimensions	L	W	H
Overall (mm):	1640	788	1539-1839
Table (mm):	1640	788	
Working height (mm):	800 - 1100		
Machine weight (kg):	230		
Supplies			
Electric:	Single-phase 230V-AC / 50-60Hz / max. back-up fuse 16A / full load current 5A		
Pneumatic:	Min. 6 bar / oil and water-free / consumption 200 l/h		
Layer height			
Min. (mm):	10		
Max. (mm):	200		
Formats	L	W	
Min. format size (mm):	80	60	
Max. format size (mm):	400	600	

Machine Layout

B12



Technical Specifications

B12

Counting Technology	Disc				
Counting Direction:	Top to Bottom				
Counting Speed	Max. RPM	Type	Segments	Sheets/Min.	Sheets/Sec.
Rated RPM:	2.000	C	3	6.000	100
Rated RPM:	2.000	C	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				

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.

Since 1991

## Discs



Made in Germany –  
Made for the world



**köster**

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