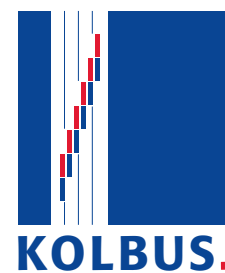


Technical data



## Three knife trimmer HD 143.D

4,200 cuts/h



## KOLBUS Three knife trimmer HD 143.D

For three side trimming of book blocks and brochures, used as an individual machine or as a unit within book production lines. Dynamic axes for continuous fully automatic setting to varying product thickness, without make-readies.

### #Equipment variations

#### Standard equipment

- Copilot system with touchscreen
  - Choice of production mode
  - Format memory
  - Operator guided changes of the production mode
  - Automatic format settings
  - Automatic lock of the side knife adjustment and the pressing block
  - Operating instructions
  - Fine adjustments via +/- keys during running production
  - Product counter (job, shift and start/stop counter)
  - Indication of machine and material flow malfunctions
  - Operator guided malfunction elimination
- Single-product-infeed with timed gate incl. automatic thickness measurement
- Block thickness recognition on the infeed conveyor for sequential production with thickness differences > 20 mm
- Device for automatic registration in the cutting station
- Blowing nozzles at the knife holders for the waste removal
- Prepared for connection to a central trim waste extraction system (1 connecting piece)
- Device for an automatic speed synchronisation by the downstream machine
- 2 sets of knife cassettes
- 2 sets of knife protection sheaths
- 5 pieces of holders for pressing plates
- Cut counter
- Knife setting gauge
- 1 set of one-piece cutting tables incl. pressing plates for the respective size range. (27 tables are available. Thereof 15 tables comprising the most important sizes being supplied as standard. 12 additional tables are available as optional equipment.)
- Automatic central lubrication system
- Scales: mm
- Reference value for the downstream machine
- Line control
- Servo-controlled drive technology based on Siemens SIMOTION D
- Active Line Module for energetic recovery of operating power in the line network
- Safety standard according to CE directives and specifications

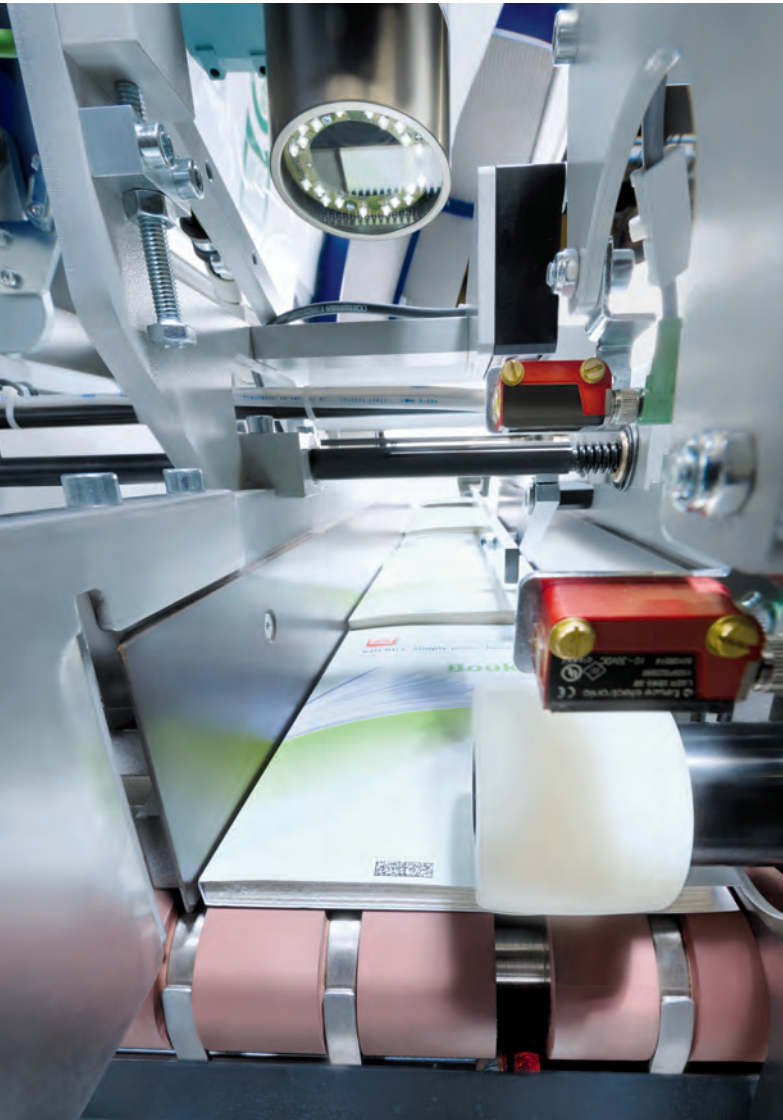
#### Alternative equipment

- Infeed
  - Right-hand infeed with intermittent roll for integrated counting and stacking
- Product alignment
  - Product alignment in flow direction on the right **or** left side
- Knives
  - 1 set of standard knives
  - 1 set of fine-grained hard metal knives
- Cutting sticks
  - 1 set of cutting sticks for standard knives (4 for the front knife and 20 for the side knives)
  - 1 set of cutting sticks for fine-grained hard metal knives (4 for the front knife and 20 for the side knives)

#### Optional equipment

- Spraying device
- Tool cabinet
- Small format attachment
  - Width x height
  - min. size 70 x 100 mm trimmed
  - min. 75 x 104 mm untrimmed
- 1 set of knife protection sheaths
- Cutting tables/pressing plates (see 'standard equipment')
- Device for a manual registration of the upstream machine speed (optical speed indication)
- Data coupling with KL 501 for data transfer to the downstream compensating stacker
- Control of a KOLBUS conveyor line including model TS.ZM or TS.Z according to project planning (Details to be clarified)
- Equipment for remote diagnosis, coupling with KOLBUS 3•60, model AFS 702

▼ Infeed conveyor with thickness measurement and barcode recognition



▼ Infeed and cutting of single products



▲ Products are lifted and delivered by grippers

## Technical data

### Size range machine (trimmed)

- Width x height x thickness  
min. 100 x 100 x 2 mm | max. 305 x 420 x 80 mm

### Size range (untrimmed)

- Width x height x thickness  
Right-hand infeed: max. 320 x 450 x 80 mm  
The block height which can be processed results from the ordered table sizes.

### Pressing power

- max. 20 KN

### Off-cut width

- max. 40 mm

### Feeding

- Right-hand or left-hand infeed with intermittent roll for integrated counting and stacking  
max. 4,200 single products/h\*

\*Net production is subject to variable product sizes, materials, etc.

The customer has to provide:

### Compressed air requirement

- 40 Nm<sup>3</sup>/h

### Factory line pressure

- 6 bar

### Air requirement for off-cut removal

- 3,000 m<sup>3</sup>/h, approx. 1,000 Pa./∅ 200 mm

### Compressed air supply

- see extra sheet

### Machine dimensions

- Length 3,280 mm  
(4,150 mm with open protective coverings)
- Width 3,170 mm  
(4,120 mm with open protective coverings)
- Height 2,000 mm

### Weight

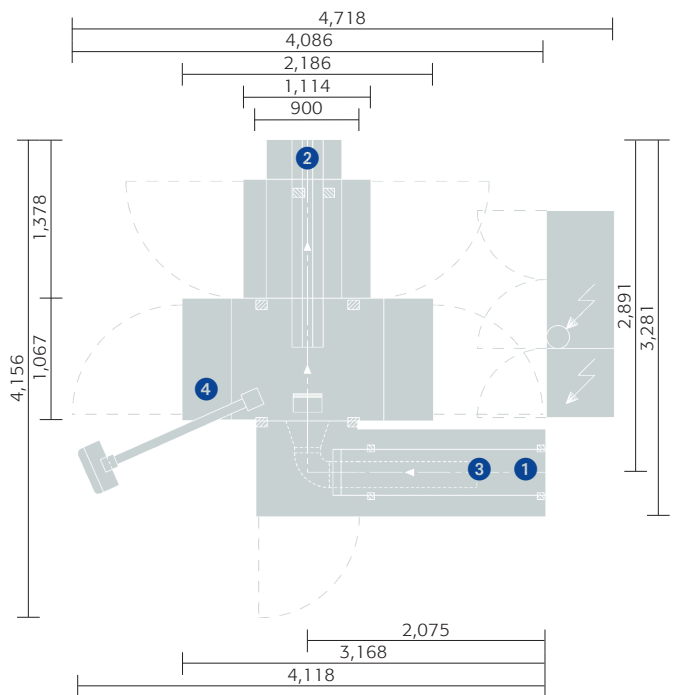
- 6,200 kg

### Electrical equipment

- 3 phase, 400 volt/N/PE, 50 cycles

## Footprint three knife trimmer HD 143.D

Right hand infeed



- 1 Infeed height approx. 1,030 mm
- 2 Delivery height approx. 930 mm
- 3 Waste exhaust ∅ 200 mm
- 4 Connection compressed air

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