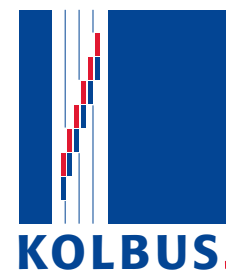


Technical data



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
- Right-hand **or** left-hand infeed for stacks- and single block processing
- Single-product-infeed with timed gate incl. automatic thickness measurement
- Device for automatic registration in the cutting station
- Blowing nozzles at the knife holders for the waste removal
- Device for an automatic speed synchronisation by the downstream machine
- Barcode processing
- 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
- Safety standard according to CE directives and specifications

Alternative equipment

- Infeed
 - ☐ Right-hand **or** left-hand infeed with intermittent roll for integrated counting and stacking
- Product alignment
 - ☐ Product alignment in flow direction on the right **or** left side
- Trim waste extraction system
 - ☐ Prepared for connection to a central trim waste extraction system (1 connecting piece)
 - ☐ Prepared for connection to a central trim waste extraction system with **separate** off-cut removal ducts (2 connecting pieces for side and front off-cuts)
- 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‹)
- Extended delivery with accelerating conveyor (necessary for direct cross transfer)
- Book turning device for turning 2 x 90° (required for direct coupling with a book production line)
- Device for a manual registration of the upstream machine speed (optical speed indication)
- 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
Left-hand/right-hand infeed: max. 320 x 450 x 80 mm
The block height which can be processed
results from the ordered table sizes.

Stack height

- max. 80 mm

Pressing power

- max. 20 kN

Off-cut width

- max. 40 mm

Mechanical speed

- up to 4,200 cuts/h

Feeding

- Right-hand or left-hand infeed with intermittent roll
for integrated counting and stacking
max. 7,500 single products/h*
max. 4,200 single products/h*
from 40 mm product thickness on

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

The customer has to provide:

Compressed air requirement

- 40 Nm³/h

Factory line pressure

- 6 bar

Air requirement for off-cut removal

- 3,000 m³/h, approx. 1,000 Pa./Ø 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

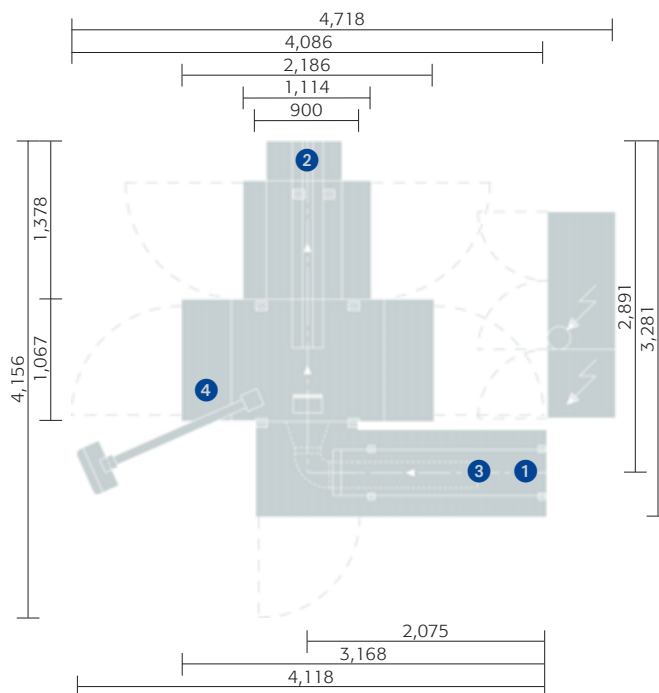
- 6,200 kg

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 Ø 200 mm
- ④ Connection compressed air

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