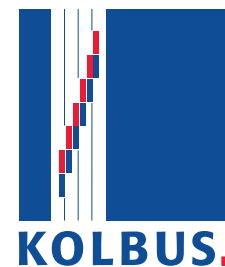


Technical data



Book production line BF 530

70 cycles/min



KOLBUS Book production line BF 530

For rounding, backing and casing-in of book blocks in hard covers and subsequently pressing and joint-forming of books. Alternatively gluing, gauzing, backlining and headbanding, depending on the equipment of the machine, is possible.

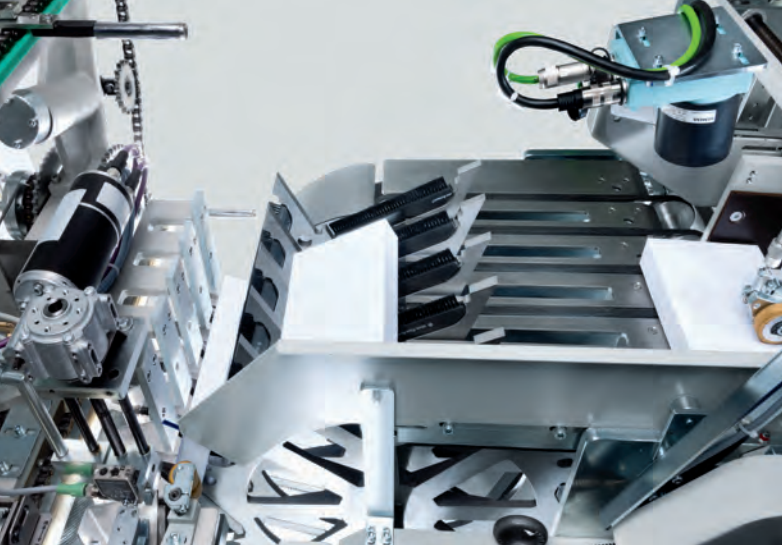
Equipment variations

Standard equipment

- Copilot system with four touchscreens
 - ☐ Choice of production mode
 - ☐ Format memory
 - ☐ Operator guided changes of the production mode
 - ☐ Automatic format settings
 - ☐ 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
- Block supply via telescopic infeed conveyor from the left, barrier and star feeder (eightfold star)
- Block spine heater in the infeed for adhesive bound and hotmelt glued blocks (hot-air-heating)
- Block position detection device (spine and front cut) with vacuum
- Automatic block thickness control
- Rounding and backing station
- Pressing station with teflon band and an integrated foam rubber rub-down element (Station E)
- Case prestacking conveyor
- Case bending machine
- Double case control
- Case forming station with counter holder
- Case magazine
- Spring-loaded block thickness batch splitter
- Pointed and bottom splitter for flimsy papers and gilt edge
- Rubbing down unit and thin block device
- EMP glue pump monitoring
- Timer for glue preheating
- Electrically heated joint forming rails 45°
- Heater monitoring unit
- 1 pressing station up to 100 KN
- Automatic central lubrication systems
- 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 and optional equipment

- Machine frame for 3 stations (only for station C, D and E)
- Machine frame for 5 stations (with an additional touchscreen)
- Stations
 - ☐ Station A
 - ☐ Spine gluing unit with circulation, incl. one set of glue rollers for the size range mentioned and incl. a glue roller for square back book blocks exceeding a thickness of 20 mm up to approx. 55 mm
 - Premelter with automatic glue feeding for a controlled glue level in the pot
 - ☐ Hotmelt spine gluing unit, incl. one set (...)
 - ☐ Spine gluing unit (...) without premelter
 - ☐ Station B
 - Alternative equipment
 - ☐ Gauzing station
 - ☐ Paper station
 - ☐ Headbanding station
 - ☐ Gauzing and paper station
 - ☐ Gauzing and headbanding station
 - Optional equipment
 - ☐ 2nd pre-roller
 - ☐ Headbanding control
 - ☐ Station C
 - ☐ Spine gluing unit with circulation, incl. one set of glue rollers for the size range mentioned and incl. a glue roller for square back book blocks exceeding a thickness of 20 mm up to approx. 55 mm
 - Premelter with automatic glue feeding for a controlled glue level in the pot
 - ☐ Hotmelt spine gluing unit, incl. one set (...)
 - ☐ Station D
 - Alternative equipment
 - ☐ Headbanding station
 - ☐ Gauzing and headbanding station
 - Optional equipment
 - ☐ 2nd pre-roller
 - ☐ Headbanding control



▲ Gentle infeed via star feeder



▲ Gauging and headbanding station with 2nd pre-roller

Alternative equipment

- Standard format dependent parts/standard forming rails
- Special sets of format dependent parts for block, case and spine gluing (USA/Japan)
- Forming rails for flat rounds (USA)
- Delivery
 - ☐ Left-hand delivery, transport of books lying flat, front cut first
Delivery lift or ascending belt
 - ☐ Right-hand delivery, transport of books lying flat, spine first
Delivery lift or ascending belt

Optional equipment

- Sequential setting
 - ☐ Block thickness for products with flat spine
 - ☐ 3D (height, width, thickness) for products with flat spine
 - ☐ 3D (height, width, thickness) for products with flat and round spine
- Code-Matching (comparison) between book block and case via data matrix code Barcode sensor: Cognex camera (Technical conditions on request)
 - ☐ Requirements barcode:
 - ☐ Resolution: 600 dpi
 - ☐ Pixel size min.: 0,34 x 0,34 mm²
- Equipment for processing undersize formats
 - ☐ Size range book block
 - ☐ Block height: min. 100 mm
 - ☐ Block width: min. 70 mm
 - ☐ Block thickness: 2 – 30 mm
 - ☐ Size range opened case: min. 155 x 105 mm
- Hotmelt nozzle gluing unit (Control via Copilot system)
 - ☐ for spine gluing in the EMP
 - ☐ for joint gluing in the EMP
 - ☐ for spine and joint gluing in the EMP
 Premelter for all hotmelt nozzle gluing units required
- Marking ribbon gluing device
Only for marking ribbons which were previously inserted by machine or by hand.
For several marking ribbons the following restriction is valid:
 - ☐ Min. block thickness: sum of marking ribbons widths.
 - ☐ The 1st station must be equipped with a spine gluing unit.
 - ☐ When using the marking ribbon gluing device with a following backlining station, please note: Height max. 320 mm

- ☐ Using the marking ribbon gluing device with a machine frame for 3 stations please note:
 - ☐ Gluing of only 1 marking ribbon
 - ☐ Marking ribbon width: max. 4 mm
 - ☐ Size range book block:
 - Thickness: min. double marking ribbon width
- ☐ The customer has to provide:
 - Compressed air requirement: 0.8 Nm³/h,
 - Factory line pressure: 6 bar
- Special equipment for the processing of covers with pre-scored flaps – width x height x thickness
Block size: max. 278 x 310 x 50 mm/
min. 100 x 100 x 12 mm
Flap width: max. 100 mm/min. 30 mm
- Special equipment for processing of book blocks with wire-O – width x height x thickness
Block size: max. 305 x 375 x 25 mm/
min. 105 x 105 x 2 mm
Wire diameter: max. 25 mm/min. 5 mm
Gap block thickness to wire diameter: max. 10 mm
- Viscosity control device for automatic water supply to ensure constant glue viscosity (with pump and water tank/for manual filling)
Alternative equipment for the viscosity control device:
 - ☐ Viscosity control device for 1 spine gluing unit
 - ☐ Viscosity control device for 2 spine gluing units
- 1 set of joint forming rails 15° (20 pieces)
- 1 set of forming rails for flat pressing in the joint area (20 pieces)
- Special equipment for processing books with a centre strip width up to 4 mm wider than the block thickness (e.g. photo books)
- Special equipment for processing books with a centre strip width up to 7 mm wider than the block thickness (e.g. photo books and CD booklets)
- Special equipment for processing asymmetric cases
- Special equipment for processing of books without case
- Special equipment for processing of flexible cases
- Data transfer with line network
 - ☐ Coupling with stacker/turning device, model DS 392
- Electrical connection for power supply and control of an upstream conveyor
- Moveable electrical cabinet
- Equipment for remote diagnosis, coupling with KOLBUS 3-60 model AFS 702
- Antistatic table available

Technical data

Size range book block

Width x height x thickness

- max. 280 x 375 x 80 mm
- max. 305 x 375 x 30 mm
- min. 100 x 100 x 2 mm

Size range opened case

- max. 660 x 385 mm
- min. 210 x 105 mm
- Thickness: max. 7.0 mm/min. 0.1 mm

Note:

Block width 277 – 305 mm:
limited rounding stroke of max. 45 mm to min. 19 mm
depending on the block width

Size range finished book

- max. 285 x 385 x 90 mm
- max. 315 x 385 x 30 mm
- min. 105 x 105 x 5 mm

Intermediate sizes on request

Mechanical speed

- up to 70 cycles/min
- Net production is subject to sizes, materials etc.

The customer has to provide:

Compressed air requirement

- 21 Nm³/h
- Additional 6 Nm³/h (flexible cases)

Factory line pressure

- 6 bar

Compressed air supply

- see extra sheet

Machine dimensions

- Length
12,500/13,800 mm (frame for 3/5 stations)
- Width
5,300 mm
- Height
3,000 mm

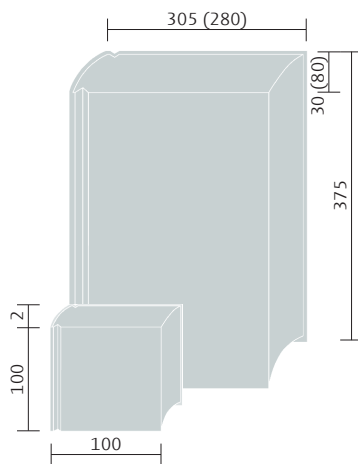
Weight

- 27,450 kg (3 stations)
- 29,100 kg (5 stations)

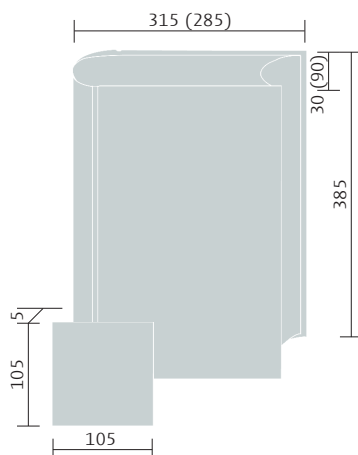
Electrical equipment

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

Size range book block

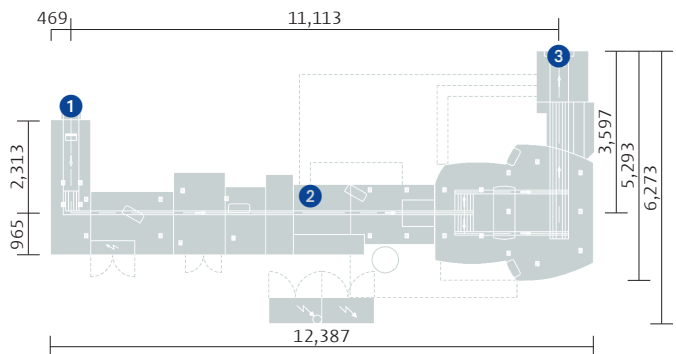


Size range finished book



Footprint book production line BF 530

3 HL-Stations



- ① Infeed height approx. 900 mm
- ② Compressed air supply
- ③ Delivery height approx. 920 mm

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