Technical data

KOLBUS.

Perfect binder KM 600

4,200 – 7,000 cycles/h

KOLBUS perfect binder KM 600

with KOLBUS Copilot® technology, 21 or 27 transport clamps, 4,200 up to 7,000 cycles/h, for the production of brochures and book blocks

Available Equipment

Copilot® system with TFT touchscreen at the infeed and TFT visualizing monitors featuring:

- Choice of production mode
- Format memory
- Operator guided changes of the production mode
- Automatic format adjustments
- Automatic adjustment of the glue length for spine and side gluing unit
- Automatic adjustment of cover register to book block
- Hang-out adjustments (depending on the machine equipment)
  - ☐ Automatic hang-out adjustments (infeed, pressing stations)
  - ☐ Manual hang-out adjustments (spine processing, gluing stations, lining station, delivery)
- 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

- LED lighting at the gluing station
- 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
- Number of clamps: 21 or 27

Infeed

- Infeed incl. coupling to a gathering machine ZU
- Infeed incl. coupling to a gathering machine ZU and a channel extension to lead the conveyor belts underneath
- Infeed with hand feeding unit incl. coupling to a gathering machine ZU
- Infeed with hand feeding unit without coupling to a gathering machine ZU
- Infeed incl. coupling to an end sheet gluer, model VA 423.A
- Optional equipment for hand feeding unit:
  - ☐ Feeding conveyor, model AB 125, from the right **or** left side with timed gate for sewn book blocks (mech. speed: max. 4,200 cycles/h, max. size: DIN A4)
  - ☐ Coupling with a book block feeder, model XMT 280, from the right **or** left side for sewn book blocks

Spine processing stations

- Milling station standard (swivellable for tool change), incl. back edge adjustment
- Milling station (swivellable for tool change) with adjustable front joint pressing disc and pressing disc at the back, incl. back edge adjustment
  Alternative/optional equipment for milling station:
  - ☐ Milling head for dust cutting
  - ☐ Milling head for strip cutting
  - ☐ Cutter holding fixture for strip cutter (for wet grinding)
  - ☐ Exhaust control
- **Spine processing station for roughening** with one tool with back edge adjustment
- **Spine processing station for notching** with one tool, automatic correction of the notching distance with back edge adjustment
  Spare tool for spine processing stations
  - ☐ Roughening tool
  - ☐ Notching tool
- Brushing station with roller brush

Gluing stations

- Spine gluing unit
  - ☐ EVA-hotmelt
  - ☐ Cold glue
  - ☐ PUR-hotmelt
  - ☐ PUR-hotmelt nozzle spine gluing system
- Side gluing unit (in various application widths)
  - ☐ EVA-hotmelt
  - ☐ Nozzle side gluing system (in various application widths)
    - ○ EVA-hotmelt
    - ○ PUR-hotmelt
- Alternative and optional equipment for the side gluing unit
  Filling of the side gluing unit
  - ☐ Filling the EVA-hotmelt side gluing unit by premelter, model LH 375.A
  - ☐ Manual filling
- Accessories for gluing units, e.g. incl.
  - ☐ Side swilling device for one hotmelt-glue spine gluing unit for gluing of book block spine edges (block thickness and back edge manual adjustable)

Spine strengthening

- Lining station for the production of lining material and gauze
  Optional equipment:
  - ☐ Manual swivelling mechanism
  - ☐ Venturi-nozzle for removing of lining stripes

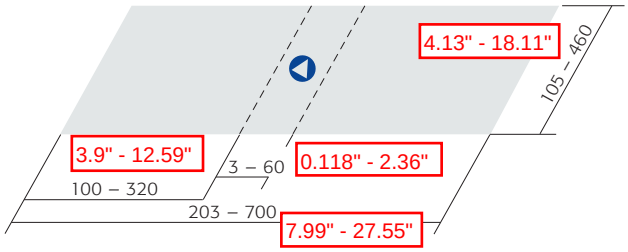
Heating

- IR-heater 6 kW for intermediate drying after the first cold glue application
- IR-heater in the curve area (to extend the open time of the hotmelt)

Cover feeder

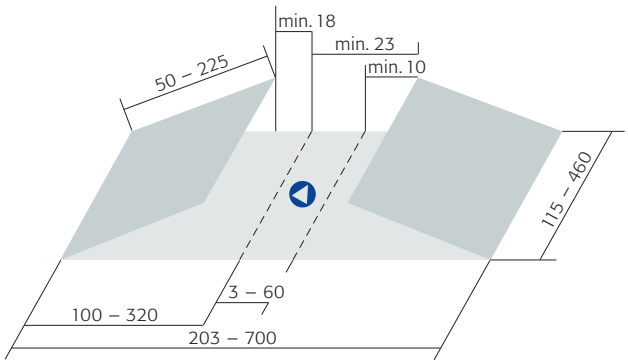
- Cover feeder, model RA 49.A
  Separation from the stack being in an angled position
  - ☐ Miss sheet control
  - ☐ Low stack level control in the magazine
  - ☐ Cycled blast air in the magazine
  - ☐ Magazine jogging
  - ☐ Transport zone allowing a precise alignment for the transfer to the scoring station
  - ☐ Motorized asymmetric adjustment of the cover alignment
  - ☐ Adjustable transport chain for inclined position of the cover

  Optional equipment for cover feeder, model RA 49.A
  - ☐ Double sheet control
  - ☐ Special equipment for the production of covers with pre-folded and folded-in covers
- Cover feeder, model SAL 413.A
  Separation from the shingled stream from above
  - ☐ Conveyor for shingled pre-stacking
  - ☐ Miss sheet control
  - ☐ Transport zone allowing a precise alignment for the transfer to the scoring station
  - ☐ Motorized asymmetric adjustment of the cover alignment
  - ☐ Adjustable cover guide rails for inclined position of the cover
  - ☐ Special equipment for the production of covers with pre-folded and folded-in covers
- Cover format range, model RA 49.A and SAL 413.A



- Cover feeder with integrated device for folded-in covers, model UKV 600.A
  Separation from the shingled stream from above
  - ☐ TFT touchscreen in the area of the scoring station
  - ☐ Fine adjustments via +/– keys during running production
  - ☐ Motorized format adjustments via Copilot of the KM 600
  - ☐ Conveyor for shingled pre-stacking
  - ☐ Cover feeder for wide cover sizes
  - ☐ Miss sheet control
  - ☐ Transport zone allowing a precise alignment to the cover scoring
  - ☐ Rotative scoring tolls for 1 score and adjustable matrix in wide
  - ☐ Quick adjustable scoring depth via product sample
  - ☐ Pneumatic stroke device for cover scoring and folding-in zone
  - ☐ Folding-in zone in the plough joint system
  - ☐ Transport zone allowing a precise alignment to the book block scoring
  - ☐ Synchronisation with servo-drive

  Optional equipment for cover feeder
  - ☐ Double sheet control
- Cover format range, model UKV 600.A



Scoring station

- Scoring station and cover transport
  Alternative equipment: Scoring tools for 4 or 6 scores

Pressing stations

- 1st pressing station
- Pressing roller
- 2nd pressing station
- Pressing rails for the processing of milled or thread-sewn products (block or brochure production/swiss brochures) and pressing rails incl. scoring-tools for mode of operation lay flat binding method I + II
  - ☐ Optional equipment: Integrated device for holding the pressing rails

Delivery

- Straight delivery for the connection with a lay down device or a transport system as cooling and drying unit
- Lay-down device (plate chain) to the left, automatic speed adjustment, laterally adjustable **without** or **with** shingled stream function
- Additional TFT touchscreen at the delivery

- Additional LED lighting at all operating sections
- Equipment for remote diagnosis, coupling with KOLBUS 3•60, model AFS 702
- Antistatic table available

▼ Pressing station

Technical data

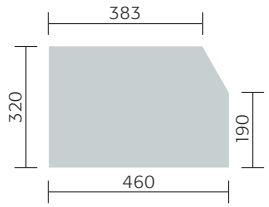
Mechanical speed

- 4,200 up to 7,000 cycles/h
- 4,200 cycles/h with hand feeding unit
- Coupling to a gathering machine ZU:
  5,000 or 7,000 cycles/h
- Perfect binder infeed: channel width max. 70 mm
  Net production is subject to format, materials, machine equipment etc.

Block format range

- Width x height x thickness
  max. 320 x 383 x 60 mm | max. 190 x 460 x 60 mm
  min. 100 x 105 x 3 mm

Max: 12.59" x 15.07" x 2.36"
Max: 7.48" x 18.11" x 2.36"
Min: 3.9" x 4.13" x 0.118"



- Block hang out after spine processing:
  min. 8 mm | max. 15 mm

Min: 0.31"
Max: 0.59"

Cover format range

- Results from the cover feeder ordered

The customer has to provide:

Compressed air required

- 0.7 Nm³/h for central lubrication
  + 35 Nm³/h if coupled with a cover feeder

Factory line pressure

- 6 bar

Compressed air supply

- See extra sheet
- Additional air blast for the infeed and delivery

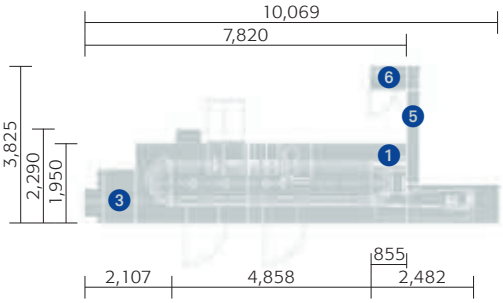
Electrical equipment

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

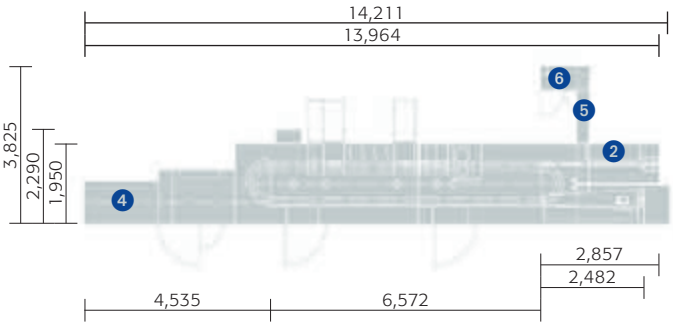
Required exhaust capacity

- Spine processing stations complete:
  3,000 m³/h, 1,800 Pa./2x ∅ 160 mm
- Hotmelt fume/for 1 spine gluing unit and
  1 side gluing unit combined, perfect binder with 21 clamps:
  400 m³/h, 200 Pa./2x ∅ 160 mm
  - ☐ 200 m³/h, 200 Pa./∅ 160 mm
  - ☐ 200 m³/h, 200 Pa./∅ 160 mm
- Hotmelt fume for 2 spine gluing units and
  1 side gluing unit combined, perfect binder with 21 clamps:
  700 m³/h, 200 Pa./2x ∅ 160 mm
  - ☐ 350 m³/h, 200 Pa./∅ 160 mm
  - ☐ 350 m³/h, 200 Pa./∅ 160 mm
- Hotmelt fume for 2 spine gluing units and
  1 side gluing unit combined, perfect binder with 27 clamps:
  700 m³/h, 200 Pa./3x ∅ 160 mm
  - ☐ 200 m³/h, 200 Pa./∅ 160 mm
  - ☐ 200 m³/h, 200 Pa./∅ 160 mm
  - ☐ 300 m³/h, 200 Pa./∅ 160 mm

Footprint perfect binder KM 600
21 clamps/coupling ZU/cover feeder RA 49.A



Footprint perfect binder KM 600
27 clamps/coupling ZU with handfeeding/ cover feeder SAL 413.A



1. Infeed with coupling to a ZU
2. Infeed with hand feeding unit and coupling to a ZU
3. Cover feeder, model RA 49.A
4. Cover feeder, model SAL 413.A
5. Cable channel height approx. 3,000 mm
6. E-cabinet height approx. 2,000 mm

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