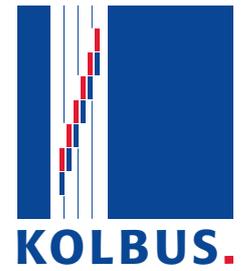


Technical data



Front cutting unit FA 650

4,000 cycles/h



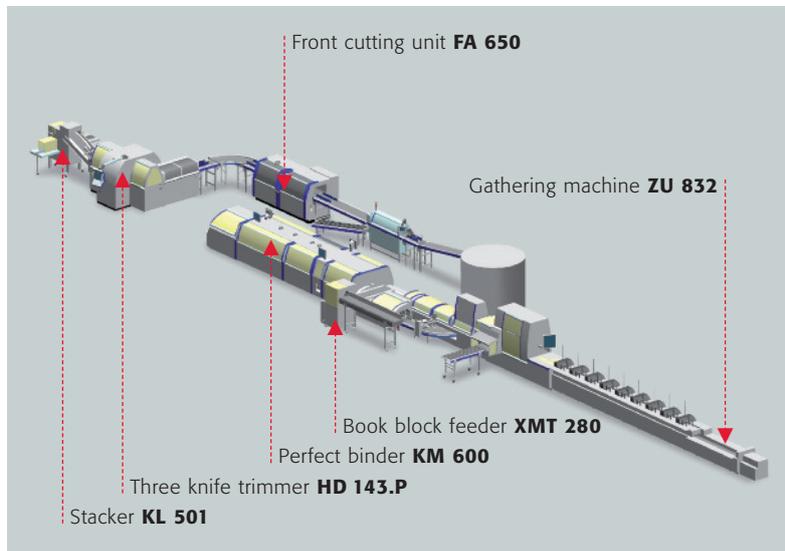
KOLBUS front cutting unit FA 650

Precision front cutting and ultra-careful handling for brochures with folded-in flaps

For an optimal production process and to shorten production times, the FA 650 front cutting unit can be integrated in the KOLBUS perfect binding line either upstream or downstream of the three-knife trimmer (without a bypass). Maximum speed in throughfeed mode is 8,000 cycles/h.

After cyclic infeed, the flap covers are lifted off the moving book block by vacuum belts. This ultra-careful method of lifting the covers avoids damage and the risk of marking sensitive materials. Once they reach the cutting station, products are positioned by a stopper in readiness for front-cutting. The rugged, compact construction of the cutting unit, with its cast iron frame, ensures a quality cut which is precise and repeatable.

For products with only one flap, the vacuum function can be set separately (only front flap or only back flap) at the touchscreen. The design of the front cutting unit, together with dynamic speed adjustment, guarantee a smooth production process with no gaps in the flow of products.



KOLBUS inline production with integrated front cutting unit ►

Products are fed in laid flat with the spine to the right ►



Photo 1 ▼

Cutting station for front cutting – one or two products per cycle

Photos 2/3

The flap covers are lifted very carefully by means of vacuum belts

Photo 4

The FA 650 is operated from a central TFT touchscreen



Equipment variations

Standard equipment

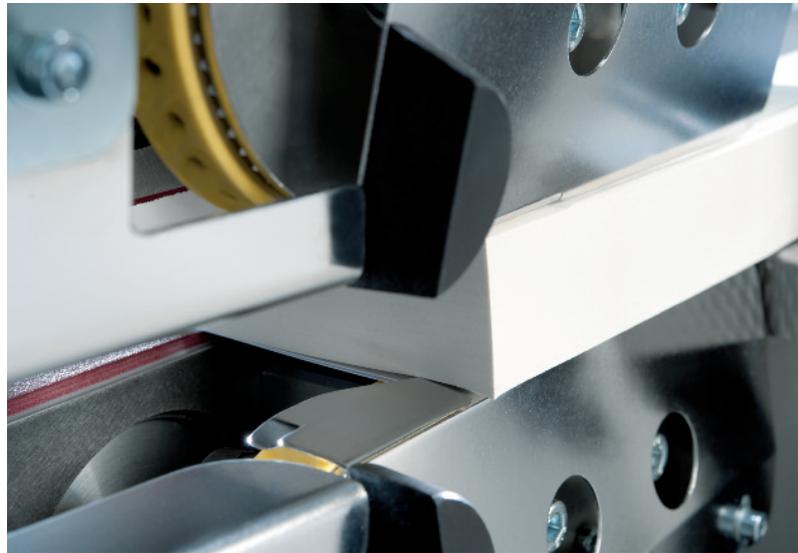
- TFT touchscreen
- Fine adjustments of the block jutting out and block alignment via +/- keys
- Special equipment for cutting two products during one cycle
- Vacuum belts to open the cover
- Opening control
- Cutting unit
- Knife holder (2 pieces)
- Cutting sticks (5 pieces)
- Knife protection sheaths (2 pieces)
- Knife setting gauge with dial indicator
- Operating done from the front side
- Product tracking via machine (no knife stroke without product)
- Machine start via block detection device and light barrier
- Servo-controlled drive technology based on Siemens SIMOTION D
- Smart Line Module for energetic recovery of operating power in the line network
- Safety standard according to CE directives and specifications

Alternative equipment

- Front knife for the cutting unit
 - Standard knife (1 piece)
 - Fine-grained hard metal knife (1 piece)
 - without knives
- Electrical cabinet
 - Swivelling electrical cabinet at the machine
 - Separate electrical cabinet (Installation depending on project planning, the customer being responsible for fastening to the ceiling)

Optional equipment

- Raising of the machine by 150 mm, for using before a three knife trimmer model HD 143
- Raising of the machine by 300 mm, for using before a three knife trimmer model HD 153.M incl. operating platform
- Raising of the machine by 450 mm, for using before a three knife trimmer model HD 153.P, incl. operating platform
- Conveyor belts according to project planning on request
- Equipment for remote diagnosis, coupling with KOLBUS 3•60, model AFS 702



Technical data

Size range

- Thickness x Width x Height
 - trimmed:
max. 350 x 480 x 50 mm | min. 100 x 125 x 3 mm
 - untrimmed:
max. 375 x 480 x 50 mm | min. 105 x 125 x 3 mm

Cutting 2 products during one cycle

- max. 230 mm

Block jutting out over the cover

- (untrimmed) min. 3 mm, max. 25 mm

Flap jutting out to the block

- (trimmed) max. 10 mm
- Off-cut max. 25 mm

Through-feed mode

- Height for single/stream max. 50 mm

Mechanical speed

- max. 4,000 cycles/h

Cutting 2 products during one cycle

- Feeding: max. 6,000 cycles/h with 3,000 cuts/h
- Automatic adjustment of the machine speed to the input capacity. (Also in the through-feed mode).
Net production is subject to sizes, materials, etc.

The customer has to provide:

Air requirement | compressed air supply

- 8 Nm³/h (see extra sheet)

Factory line pressure

- 6 bar

Air requirement for off cut removal

- 2,000 m³/h, approx. 1,000 Pa./∅ 180 mm

Machine dimensions

- Length 3,000 mm | Width 1,510 mm | Height 1,700 mm

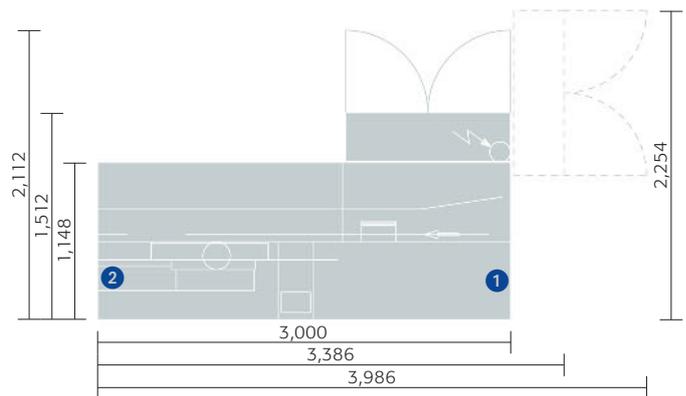
Weight

- 2,500 kg

Electrical equipment

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

Ground plan front cutting unit FA 650



- 1 Infeed height approx. 880 | 1,030 | 1,330 mm
- 2 Delivery height approx. 880 | 1,030 | 1,330 mm
Raising of the machine for using before
a three knife trimmer

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