BX MOTION PRO

Short-run Autobox Corrugated Boxmaker for single, double
and triple wall boxes. Selectable tool configurations.
Adaptable to specific production needs.

- From E-flute up to AAC-flute
- Set-up time < 60 seconds
- Over 50 FEFCO box styles
- Digitalprint across the complete format
- Automatic loading and stacking
- Inline glue strip application

MODULAR + MULTI-FUNCTIONAL DESIGN

KOLBUS
BOXMAKER

BX MOTION PRO

The ultimate shortrun, quick set Boxmaker

Basic equipment

o Copilot System with touch screen
  o Choice of production mode
  o Job memory
  o Operator guided production change
  o Automatic format change
  o Product counter (job, shift and start/stop counter)
  o Indication of machine and material flow malfunctions
  o Operator-guided fault diagnostics
o Copilot set up of the machine fully automatic and without tools
  o Programmed automatic adjustment for improved operation
o Servo-controlled drive technology
o Remote Service Gateway, model RSG 800
  For optimum production support via KOLBUS
  24h Remote Service
o Safety standard in accordance with EC directives and standards

Optional equipment

Infeed/ Feed section
o Trolley to support the feeding of corrugated board
o Automatic feeder BX 2600 / F

● **Customised short run boxes made from single, double and triple corrugated board with optional digital print and inline gluing**

● **Modular design: each module can be individually adapted to specific customers requirements, including the sequence of individual processes**

● **Transport rollers and tools are positioned automatically according to FEFCO code and format**

● **Automated adjustment of all creasing/cutting tools on the horizontal axis for precise positioning**

Creasing tools for

o **Corrugated cardboard sheets up to 5 mm thickness***
  o Creasing tool Ø 100 mm
    (Top crease, bottom crease roller)
  o Pneumatic controlled stroke of the creasing tool
o **Corrugated cardboard sheets up to 10 mm thickness***
  o Male / Female creasing tools Ø 115 mm
  o Motor-controlled stroke of the Male creasing tool
  o Preset material-dependent creasing depth, as well as correction option by entering correction values
  o Single and double crease
  o 3-point creasing / 5-point creasing
o **Corrugated cardboard sheets up to 16 mm thickness***
  o Male / Female creasing tools Ø 180 mm
  o Motor-controlled stroke of the Male creasing tool
  o Servo-controlled drive of both creasing tools
  o Preset material-dependent creasing depth, as well as correction option by entering correction values
  o Single and double crease
 o 3-point creasing / 5-point creasing

Line cutting tools for

o **Corrugated cardboard sheets up to 5 mm thickness ***
  Line Cut Ø 115 mm, Bottom plastic roller
  o Driven brush roller as counter cut and passively driven line cut
  o Pneumatically controlled lowering of the cutting tool with adjustable pressure for different requirements
o Knife notched / knife perforated
o Knife with stopping points / Knife perforated
o **Corrugated cardboard sheets up to 10 mm thickness ***
  o Shear Cut Ø 115 mm
  o Driven counter-blade and passively driven blade
  o Pneumatically controlled lowering of the cutting tool with adjustable pressure for different requirements
o Knife notched / knife perforated
o Knife with stopping points / Knife perforated

* depending of paper quality
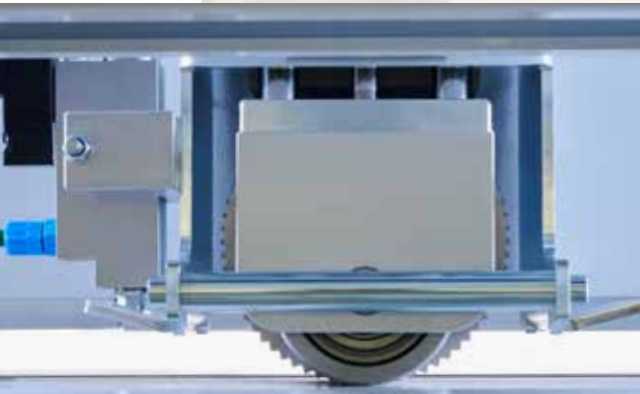
Crease standard, Bottom Crease and Line Cut
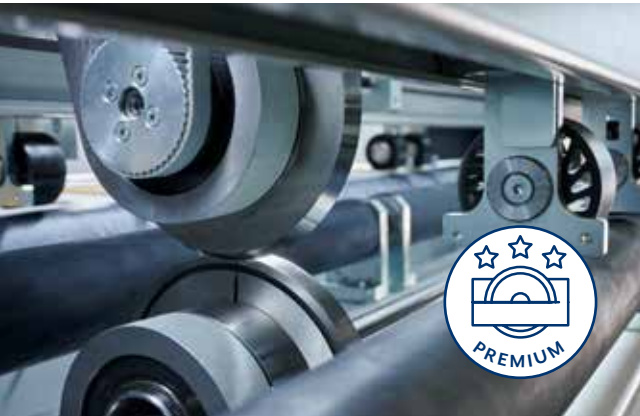
HD Shear Cut

Top Inline Crease

HD Crease Male/Female

Cross Cut + Glue Flap Crush + Nozzle Gluer

HD Line Cutting
- **Corrugated cardboard sheets up to 16 mm thickness***
  - HD Shear Cut Ø 180 mm
  - Servo-controlled drive of both creasing tools
  - Knife notched

Edge trimming
- Waste shredder, the side trim is shredded and transported out of the machine by means of hopper and cross conveyor belt
  - Automated adjustment of the two waste shredders
  - Waste shredder max. egde strip width 120 mm (wider formats also possible without shredder)
  - Material thickness up to 16 mm

Inline Digital Printing
- Each print unit with 2 print heads, print head width 140 mm
- Up to 8 print units possible
- Resolution 360 dpi, monochrome
- Each print unit can be positioned individually and/or as linked heads to produce one larger image - additional colours are possible per unit
- Set-up time per job < 60 s
- SEIKO certified black colour 1l, further colours and cleaner
- Cleaning station for print heads outside of the module

Cross cutting
Pneumatically controlled lowering of the cutting tool

Nozzle Gluer for cold glue, model NG
- Automatic gluing of selected areas (gluing fold)

Glue flap Crush
To reduce the thickness of the material in the area of the adhesive flap and for a more even stacking
- Independent pneumatically controlled lowering of the flap crush with adjustable pressure and transport slide
- Width max. 40 mm

Die Cutting unit
For producing finger holes or contours with punching tools
- Automated adjustment
- Punching tool holder 200 x 200 mm

Slotting unit
- Automated adjustment of the outer knife holder
- Maximum knife holder width = 700 mm
- Manual loading of the knife holders according to specification via the control panel
- Automated cross creasing and correction of creasing depth possible via touch panel
- Cross conveyor belt for waste

Multi-Out
Device for the production of several corrugated cardboard blanks arranged next to each other in one pass
- Multi-Out double and triple (corrugated board blanks arranged next to each other)

Delivery
- Delivery table, collecting aid for stacking the finished products
- Stacker
  - Height max. 950 mm (including pallet)
  - Corrugated board length max. 3000 mm

Further stacking systems on request
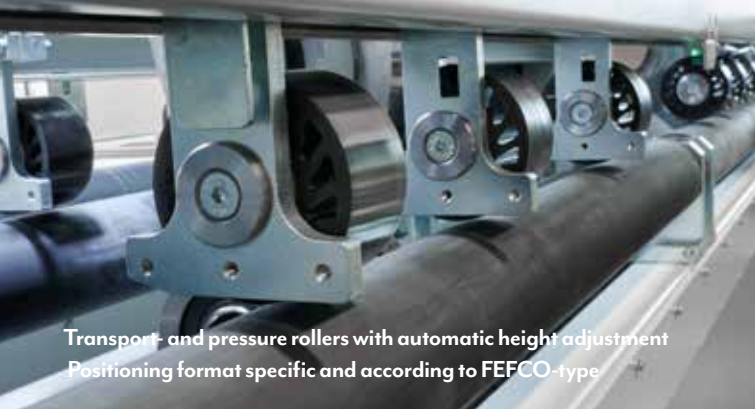
Transport- and pressure rollers with automatic height adjustment
Positioning format specific and according to FEFCO-type

Slitting unit with automated adjustment (knife holder)

Technical data:

Format data BX 2600

- Sheet width min. 100 mm | max. 2600 mm
- Sheet length min. 330 mm | max. 6000 mm
- Blank material: max. 1800 g/m^2

  Corrugated cardboard single, double and triple flutes
- Material thickness: min. 1.3 mm | max. 16 mm

  att. to creasing and slitting tools
- Slotting length: min. 100 mm | max. 700 mm
- Slotting width min. 7 mm and 10 mm

Machine dimensions

- 1 module (Depth x Width x Height)

  660 x 3608 x 1706 mm
- Infeed-/delivery: Height 950 mm
- Mechanical speed: up to 100 m/min

  Production speed and net output depending

  on material and format

To be provided by the customer

- Compressed air requirement 10 Nm3/h
- Operating pressure 6 bar

  Compressed air supply extra sheet
- Electrical equipment 3 phases, 400 volt / N / PE, 50/60 Hz

Digital Printer Format data:

- Sheet width min. 200 mm | max. 2600 mm
- Print image width: up to 1120 mm

  with a total of 8 print units
- Position of the print image to the edge:

  Head ≥ 20 mm | Foot ≥ 20 mm | Sides ≥ 0 mm
- Max. speed of print heads 100 m/min.

Example: BX Motion Pro with 4 modules
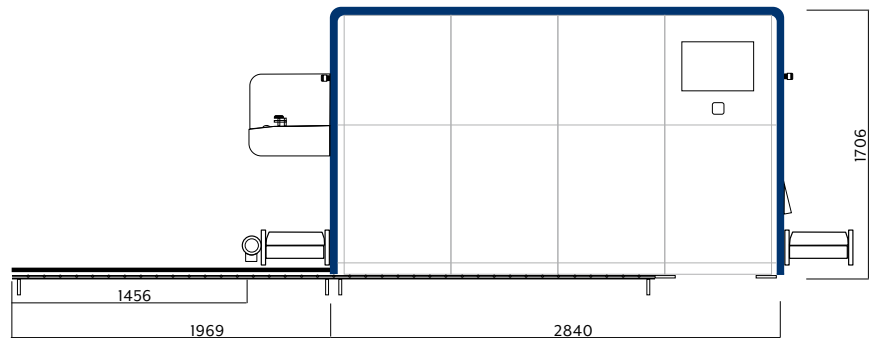
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