

Specification: BOX KING box maker from Klett



Box King - front view



Box King - rear view

Production of large and small boxes in long and short runs

- over 70 different Fefco boxes in one pass
- up to 500 sheets/hour
- 2.8 m working width
- 16 mm material

Function

The corrugated sheet is placed towards the feeders right side.
The program controls the infeed to the different working stations.

in machine direction

- scoring
- flap trimming
- cutting in multiple outs

cross machine direction

- flap slotting
- cross scoring/creasing over desired width, leaves side lane untouched
- programmable sheet cut off or short slittings with servo driven cut off knife.

Standard functions:

- compression/flattening of glue flap
- semi cut for eg boxes with down folded flaps
- programming through 14 inch colour screen

Option:

- trimming of glue/stitch flap
- small die cut outs (eg.holes for hand or ventilation)
- offset scoring, cutting or perforation in machine direction
- internal flexo print unit (max 2), max 300 x 500 mm
- slitting in machine direction
- hydraulic lifting platform at feeder
- automatic feeder
- separate JUMBO flexo print unit
- extra scoring and cutting tools

TECHNICAL DATA

Sheet size, min min	360 x 620 mm 2800 x 10 000 mm
Material	2.5 - 16 mm
Accuracy	+/- 1 mm
Speed	0- 180 m/min, servo adjustable
Capacity	300-500 sheets/hour
Fefco-boxes	over 70 different
Cycle time scoring/cutting shaft	approx. 0.7 sec.
Cycle time sheet cut off	approx. 1 sec.
Minimi distance 2 scorers	30 mm - 1 shaft in machine direction 0 mm - 2 shafts
Minimi distance 2 slitters	50 mm in machine direction
Working height	1 m above floor level
Thickness cross slotting knives	8 mm or 10 mm
Main drive	Servo motor (AC), 22 Nm
Connection	3 x 400 V, 50Hz, 50A
Air consumption	100 NI/hr, 8 Bar
Machine dimensions (excl platform)	6 x 3.25 x 2 m (L x W x H)
Weight	approx. 6 000 Kg

Integrated conveyor for waste removal situated below the slitting tools

Integrated tool deposit, 3 x 0.5 m

Electrical cabinet with CNC and PC with colour screen
1.2 x 0.6 x 1.9 m

CE-mark

above data with reservation for changes

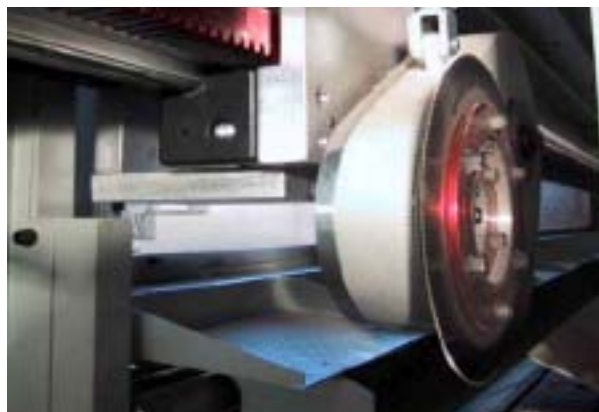


14 inch colour screen

Standard equipment



Feeder with adjustable side walls
The sheets are fed in along the right side.



Cross cutting circular knife
Programmable to cut any slit length or over the entire sheet width.



Cross creasing tool 200 mm.
Saves the side lane if not all sheet width is used.
Up to 2700 mm max width



Cross slotting knives, 8 or 10 mm width.
Up to 2000 mm slitting depth cross machine



Standard slitter, 3 pcs standard



Standard scorers, 4 pcs standard



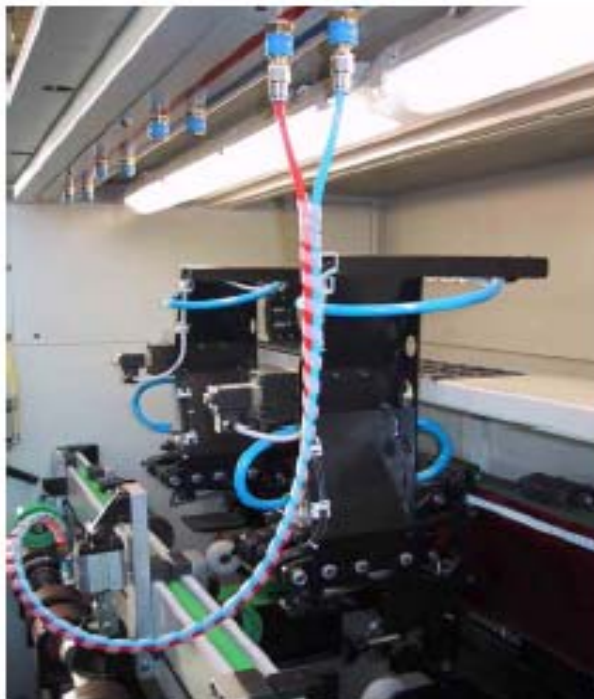
Offset circular knife (option)



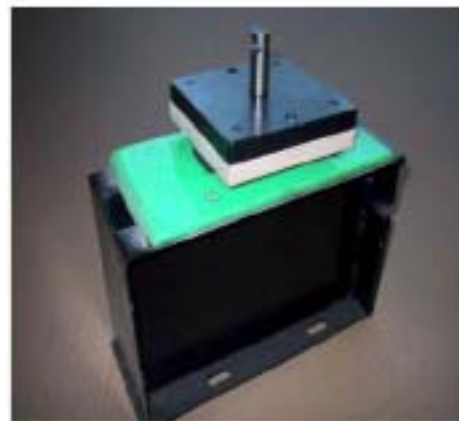
KLEBT

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regulated machinery

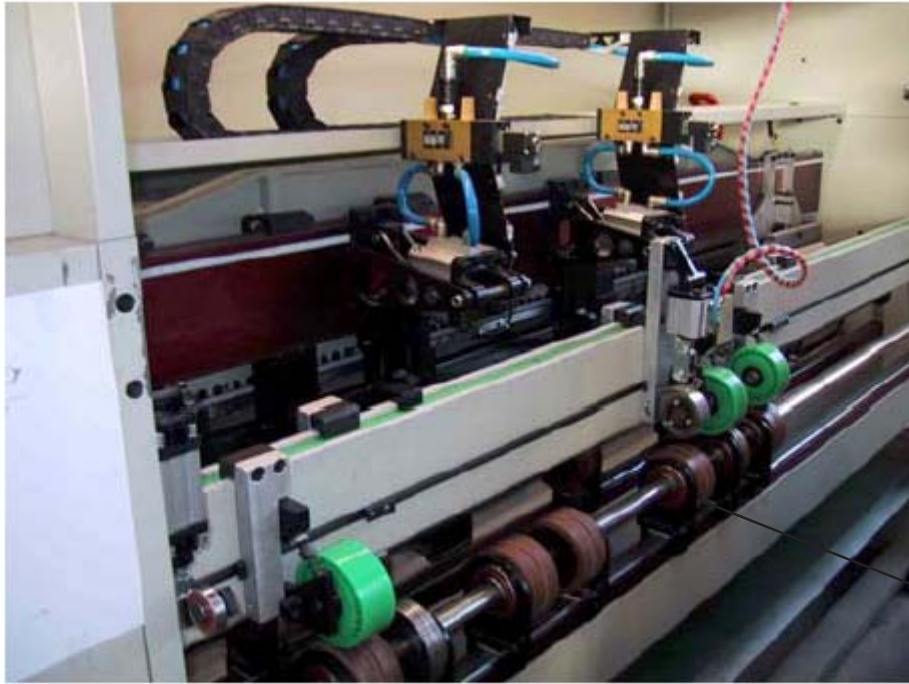
Integrated flexo print unit with ink pan in 300 mm width.
500 mm maximum klisché/stereo length.
Start- and stop point programmable.
The drive is made from the sheet through rubber rings around print unit.
Multiple prints on one sheet or continuous.
Max 2 print units beside each other.



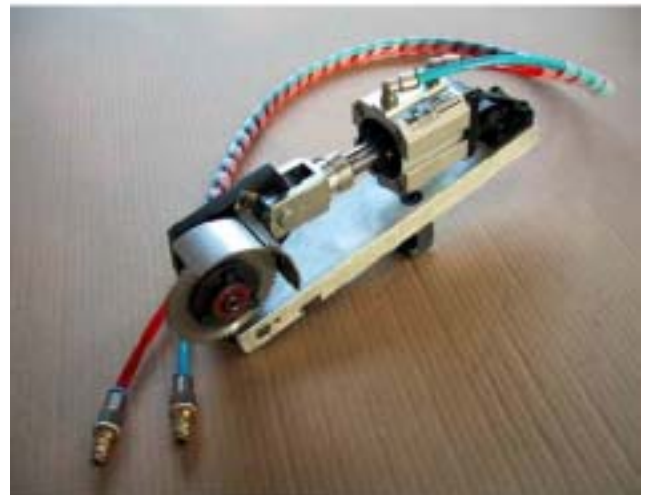
Programmable pneumatic tool holders.
For eg punching of hand holes or ventilation holes.



Tool plates for upper and lower punching tools.

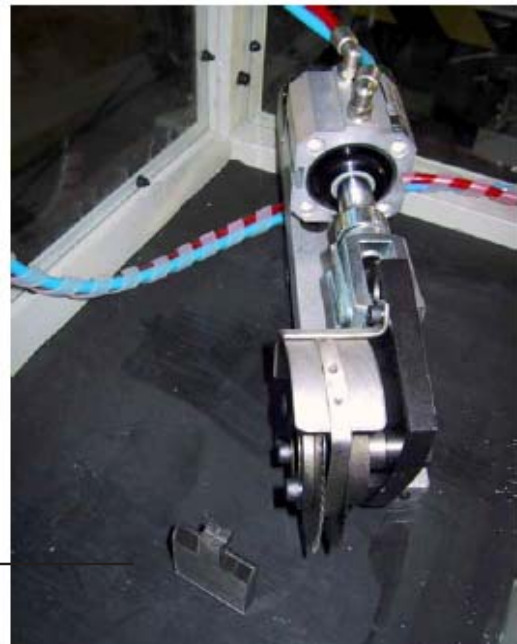


sheet direction



Programmable circular knife. Max 4 pcs.

With the short punch tool short flap openings can be cut out in machine direction.
Eg for very high boxes.



Automatic feeder with hydraulic lifting table for Box King

Sheet size:	min 800x 400 mm max 2800 x 6000 mm	Large table:	Size: 2500 x 6000 mm Lifting height: 2 000 mm , 3000 kg Floor height: 380 mm in lowest position
Material:	2.5 - 16 mm	Standard table:	Size: 2500 x 3-5000 mml Lifting height: 1200 mm, 2000 kg Floor height: 360 mm in lowest position
Machine size:	1700 x 4000 mm, 3000 kg, 4 kW		

The feeder can be pushed back on rails.
The lifting table raises the stack of sheets to a position below the row of suction cups.
The suction cups not being in operation are shut of automatically to save air.



This suction cups are lowered to the sheet and then suck onto the surface of the board.
The suction cups are raised a little and then the cups are making a tilting movement to loose possible double sheets.
The suction cups with the sheet are then moved forward.



A steel guide controls the infeed of the sheet until it is taking over by two motorized feeding soft rollers.
These rollers are inclined to the right in order to move the sheet side ways towards the right side of the feeder.



When the sheets are entered into the Box King and taken over by its feeder, the two feed rollers are raised.

The speed of the feeder is adapted to the speed of the Box King. The infeed of the next sheet is controlled by photocells.
The lifting table is raised automatically according to the infeed of sheets.



The lifting table can be lowered by a push button. A safety breaking bar is placed below the lifting table to prevent injury.

JUMBO- free standing flexo print unit from Klett

JUMBO is a free standing servo driven flexo print unit suitable for the printing of large sheets after a Box Maker.

The unit prints in 1 colour with 1- 4 klischés/stereos around the circumference, each with its programmable starting point.

A pneumatic double membrane ink pump is included.



←
sheet direction

Jumbo flexo print unit from Klett with motorized conveyor (option).



- Material : 2.5 - 13 mm
 Sheet size: max print width 2600 mm
 max print length 2500 mm (diameter print cylinder 800 mm)
- Capacity: max 30 m/min.
- Print system: Rubber roll against anilox with 200 lines/inch (80 lines/cm)
- Klisché/stereo height: 6 mm