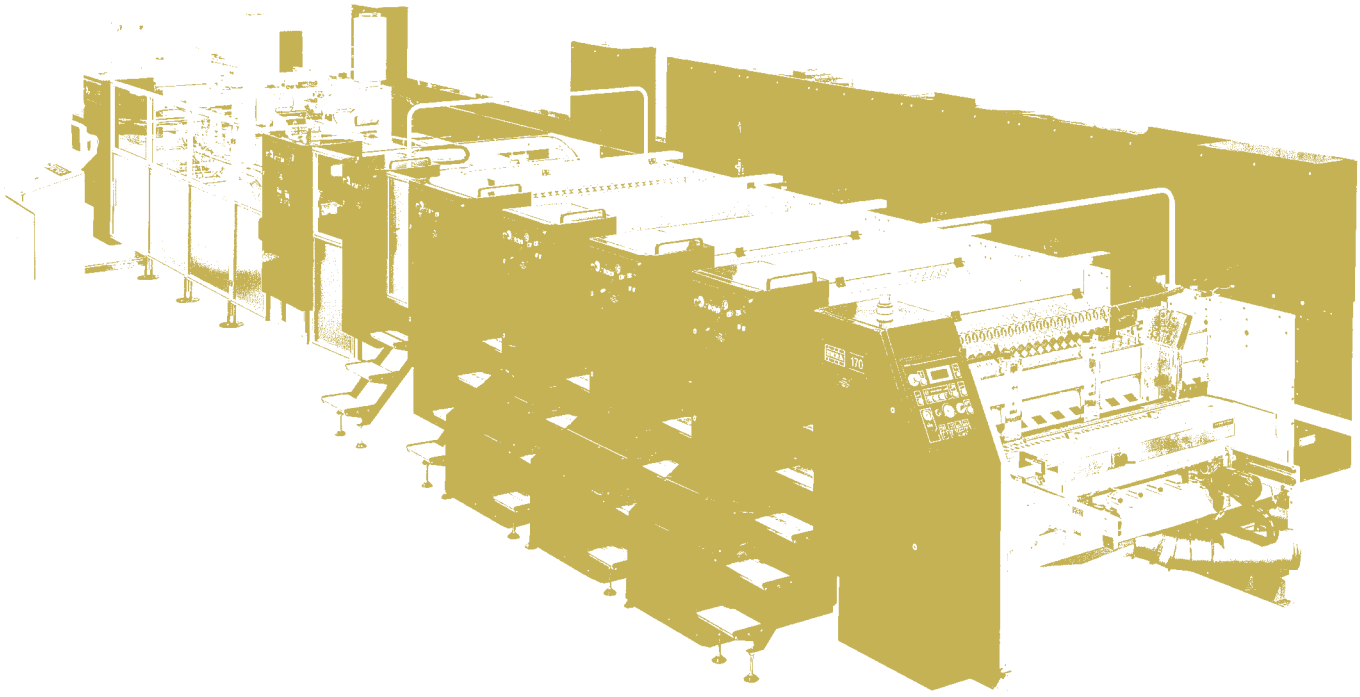
EMBA 170 QS



– makes perfect boxes all the time

EMBA

Berg Group

Highest precision

EMBA 170 QS, the first choice for boxmaking

The machine shown is equipped with optional features

EMBA Machinery has set a new standard in the world of corrugated machinery. This, of course, is due to a high performance design that allows flexibility, quick set order changes and very effective communication between crew and machine.

We have always been the leader in design and development of corrugated converting machinery. That's why we are able to set the standard as the best mini Flexo Folder Gluers (FFG) in the World, with the highest quality kiss touch printing, folding and gluing, as well as maintaining the FCT value of the board.

Productivity

Unchallenged quick set up time together with fast production speed are key factors for extremely high output figures, even for short orders with multiple printing and die-cutting.

The 170 QS now follows the success of the 245 QS from EMBA, and is now also available with fully automatic setting of the caliper through the entire machine. This means that the 170 QS, which is already known for fast set-up, can now be set even faster.

Box Quality

The overall flexibility for box size range, paper quality, printing, slotting, die-cutting and folding demands is maintained and secured thanks to smart, sophisticated and reliable construction solutions, like computerised control system with Windows based operators interface, lead edge vacuum feeding vacuum transport, timing belt transmission etc.

at very high speed

today and for the demands of the future

Reliability

Safe and accurate transfer of the sheets in the machine is a key factor for reliable production with constant box quality. The EMBA machine has a superior design solution to secure the transfer of sheets as the vacuum bed supports the sheets from underneath, creating increased efficiency of the vacuum transfer. The requirements for maintenance in time and parts are very low, thanks to well tested construction concepts and our high quality demands on parts and systems integrated in the machine.

Operator friendly

The open access of the top print design allows superior and easy inspection of the machine operation, which together with the smart and logical operators interface make the machine extremely simple and quick to learn and operate.

Installation

The machine requires very narrow floor space and is installed on the existing floor with anchor bolts for very fast and easy installation.

After sales support – EMBA Comfort

EMBA Comfort involves four areas, Service, Spare Parts, Upgrades and Training, to maintain the highest productivity and keep the machine at the top level of technology.

The aim of EMBA Comfort is to increase your productivity and quality during the entire machine life cycle, through the tools that suit your needs best. Make a selection in the EMBA Comfort toolbox, whether it is an upgrading or training, we have a tool for your machine and your crew.

Shortest set-up

A combination of all these features makes possible the fastest order change in
This, together with high quality kiss touch printing, has made

Feeding

The EMBA lead edge Feeder is perfect for the fast running small machine from EMBA. It will secure a very accurate feed even at the highest machine speed. The setting is simple and requires no operator interventions for optimal function. This means that the Feeder is immediately ready to run after automatic setting, without manual intervention.

Printing

The vacuum belt transport through the print units gives extremely close print register at all speeds, without accumulating error between the print units. The distance between units contributes to the supreme print quality, as only one unit is printing a board at any time, also giving more drying time for wet on wet printing.

Top printing provides easy and quick access for pre-mounting of plates on units in the stand-by position, while the machine is running.

The quick adjustable/reversible hose ink pump guarantees a minimum of ink loss and wash water requirement, key factors for fast wash up times at ink change.

Slotting

The dual slotting shaft concept gives maximum flexibility for box height in relation to slotting depth and the need for taking out knives is minimised.

The unique EMBA design with separated drive and support shafts for the slotting heads offers extremely high reliability, combined with the smallest minimum panel sizes on the market.

The machine is equipped with separate creasers and pre-creasers, permitting optimal handling of various board qualities.

Steel to steel glue-tab cutting without caliper setting gives a reliable function, with a minimum of adjustments.

Easy and quick glue-tab extension is also included in the glue-tab cutting concept.

Die-Cutting

The die-cutting unit is designed to match the fast set up time of the rest of the machine. The standby position of the tool shaft for mounting the die-cutting tools while the machine is running allows short set up times even when running die-cut boxes. An optional quick locking device for the die-cutting tools is now also available, making the tool handling easier and reducing the set up time even further.

times in the world

the World, maintained FCT value, reliability and low maintenance costs.
the EMBA 170 QS the most productive mini FFG in the world.

Folding

Board transport is secured by full vacuum upper transport belts, with lateral guides for minimised variation.

Motorised setting for board caliper and angle for the twisted "fold up" belts, gives consistent accuracy for exact set up of the unit for different sizes and board qualities. It will contribute to a safe and reliable folding, as it simplifies the optimal machine setting for the operator.

The long folding section guarantees excellent and consistent folding accuracy for all box sizes.
Another feature in the machine is the integrated waste handling section at the entrance of the folding beams.

The extruded glue system is integrated in the set-up function of the machine.

Counter-Stacker

Sandwich belt conveyors transport the boxes into the stacking-squaring magazine, where lift rollers reduces the load of the stack. Adjustable height and angle in the entrance gives full flexibility for different box and caliper sizes. The divider and ejector are separated for very quick, but consistent and reliable, performance at top speed for all box dimensions.

Operator's control

The Operator's Interface is the tool for the operator to handle the machine.
The WindowsNT based interface uses icons/ picture for "quick to learn - easy to use" feature for the machine operators.
Main features of the Operators Interface includes:

- Setting/presetting of new orders (boxes)
- Article database for down loading of the actual machine settings of an order running for repeat orders, contributing to extremely fast order changes. Up to 100 000 articles can be stored.
- Trouble-shooting and alarm menus
- Service menu
- Instruction menu
- Modem connection

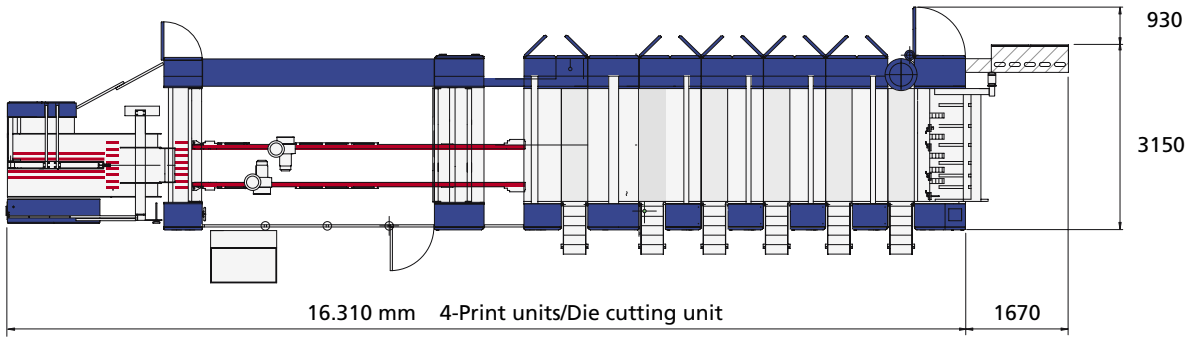
Machine control

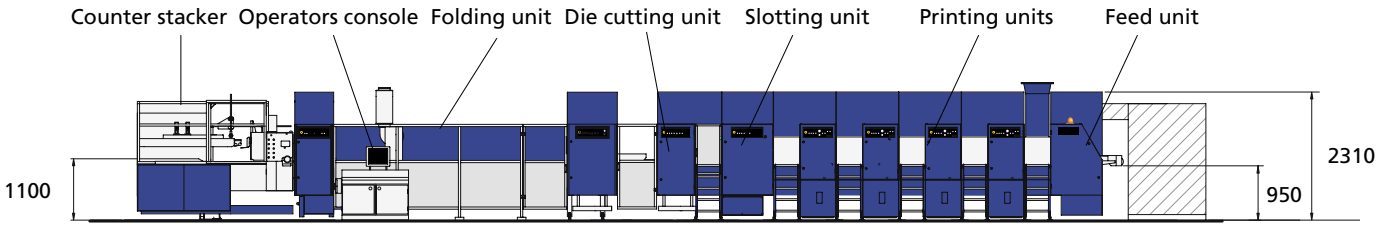
A PLC system controls the basic logical control of Inputs/Outputs. A setting system with motor encoders for rapid and high accuracy settings of the machine provides the key feature for short set up time and first box saleable.

The machine is prepared with easy access for communication with a production planning system, computer network, auxiliary equipment etc.

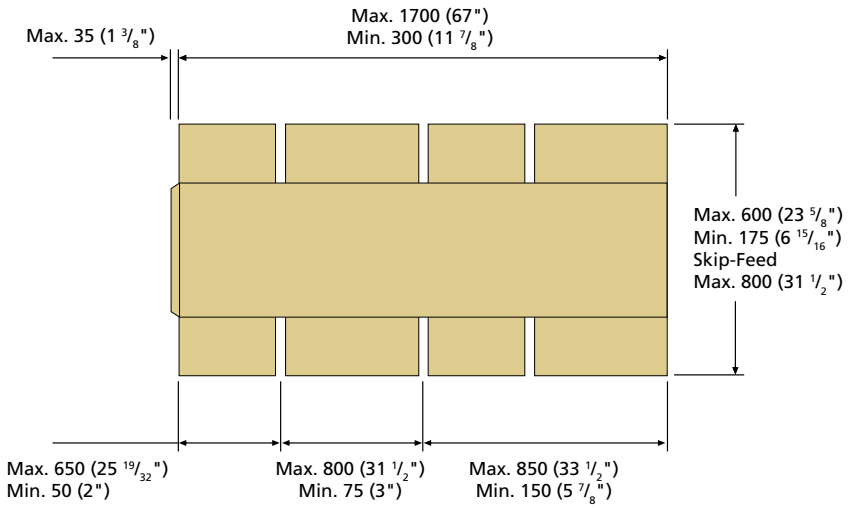
The setting system can optionally also include motorised caliper settings throughout the machine.

EMBA 170 QS – facts,





Metric/Inch



Basic Technical Data

Board caliper:	1.2–7 mm
Running speed:	17.5–440 sheets per minute depending on size, quality etc.
Main drive:	DC Drive 33.6 kW / 2340 rpm
Rated power:	105 kVA
Power consumption:	Approx. 80 kVA
Required air pressure:	600–700 kPA (6–7 kg/cm²)
Air consumption:	Appr. 250-500 l/min of free air depending on machine configuration
Nominal Print cylinder diameter:	∅ 218.3 mm (including printing plates)
Max. printing area:	600 x 1700 mm (full machine size)
Unfolded sheets:	Max. sheet size 800 x 1700 mm (With Drop-sheet 600 x 1550 mm)

numbers and options

Standard/Option

Feed unit	Standard	Option
Lead edge vacuum feeder	•	
Skip-feed	•	
Motorised rear sheet support	•	
Side-pusher and motorised squaring plate		•
Sheet cleaner		•
Print unit		
Pre-mounting of printing plates on units in stand by position	•	
Doctor roll ink system, incl. quick wash	•	
Chamber blade ink system, incl. quick wash		•
Ceramic anilox rolls	•	
Matthew fastening system for mounting of printing plates	•	
Ink dryers mounted in the space between the units		•
Ink system on operating side	•	
Semi automatic ink cabinettes		•
Peristaltic hose ink pump	•	
Slotting unit		
Dual slotting shafts	•	
Steel to steel glue flap cutting with fixed caliper	•	
Easy extension of glue flap	•	
Pre creaser	•	
Creaser	•	
Die cutting unit		
Pre-mounting of die cutting tools on unit in stand by position	•	
Die cutting cylinder with holes for tool mounting	•	
Individual free wheeling anvils on slide rings	•	
Anvil grinding		•
Lateral oscillation for equal wearing of die cutting anvil	•	
Lateral adjustment (manual) of tool cylinder	•	
Quick lock tool mounting system		•
Folding unit		
EMBA self circulating glue wheel system		•
Glue flap on inside or outside	•	
Extruding glue system with set up from machine	•	
Glue detection/marking system		•
Drop sheet system (sheet limitations)		•
Vacuum transport	•	
Tab remover		•
Waste evacuation at entrance	•	
Glue station opposite side		•
Counter-stacker unit		
Counter-stacker unit type up stacker	•	
Control system		
Windows based Operators Interface	•	
Control system equipped for storing a large number of orders and production reports		•
Article database for repeat settings	•	
Operator assistance on display screen including fault tracing function	•	
Control system with access to computer communication/network etc.		•
Jam detector system	•	
Automatic setting for box dimensions	•	
Modem		•
Automatic setting of calipers		•
Right hand operated		•

We reserve the right to change the design or specification of the equipment without notification.

Berg Group

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