























Every precious cargo deserves the best, tailored to size, sturdy and reliable packaging. At Zemat Technology Group we are passionate about creating innovative technological solutions for packaging and shipping industry.

In our design and manufacturing process we implement **over 60 years of European and American expertise** providing exceptional equipment for the packaging industry, where customized, short run production series are the key to achieving the market success and satisfying even the most demanding customers.

We are providing a wide range of corrugated box making machines designed for short run production needs to help your company to save time, increase productivity and create sustainable production flow, while decreasing costs and waste.

Our machines offer full technological flexibility in any corrugated cardboard converting organization, with state-of-the-art box design software, unsurpassed quality of tools and assembly and the XXI century machine design implementing the best components and industrial solutions.

The design, engineering and manufacturing team is based in Europe. We have offices in the USA, UK and commercial and technical presence in many countries around the world, including Australia.

www.zemat.com





The newest High Definition corrugated box making system for highly demanding short run manufacturing processes



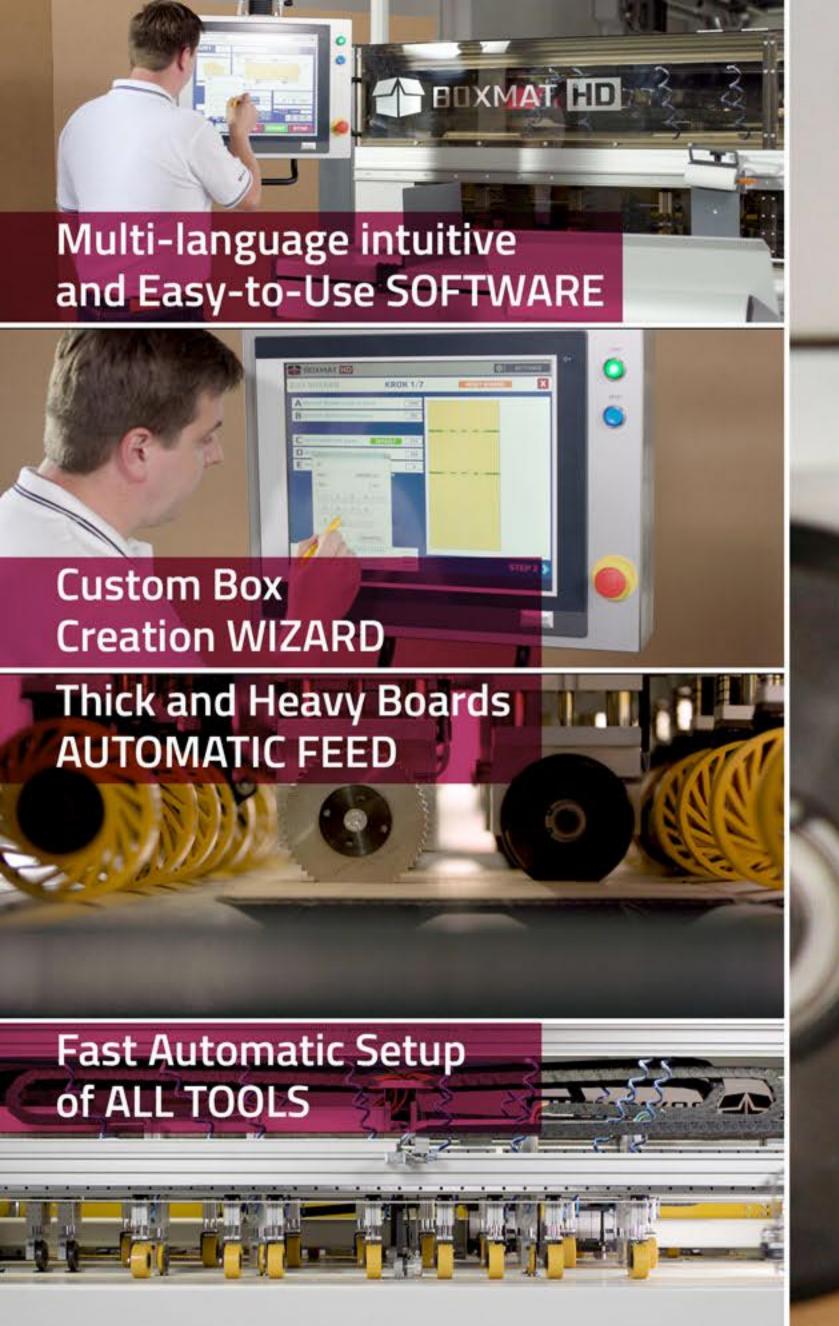
Boxmat HD is the fifth generation of short run box making machines designed and built in Europe by Zemat Technology Group.

The new design of Boxmat HD incorporates the universality of using corrugated Sheets and/or Fanfold for manufacturing short run boxes.

- Detachable precision cardboard feeder. The machine can be fully configurable to be used with manual feed, printer or fully automatic feeder
- The new design of beams provides much less wear of the slotting knives.
- Reinforced chassis construction assures less vibrations during production process
- The die cutting system with extra built-in beam equipped with two die-cutting units and work area of 210x130 mm (8.25 x 5.1") each, with independent drives to set in the right position. It enables cutting out handles, revisions or angular cuts in corrugated box panels
- Additional shaft for feeding the corrugated board. By reducing the distance between shafts machine can use much shorter boards for production and also to enter the next one more quickly in the automatic production process
- A new design of scoring/creasing/knives beam
- 2 linear guide strips with 4 tools nests on each for total of 8 tools (with expansion to 12 tools)
- Independent drive for each tool nest provides very fast position setup Each tool nest can handle either scoring/creasing wheels or knives
- Automatic recognition of the specific set tool
- The beam equipped with counter-creasing and counter-knife system
- Ability to set the tools inline, one-after-another, e.g. for double creasing of heavy boards
- The minimum distance between tools: 30 mm















Boxmat PRO is the most advanced and universal machine revolutionizing the short run and serial production process of corrugated cardboard boxes.



NO CORRUGATED CARDBOARD CONTRACTS

We give you freedom to choose your own corrugated supplier and make your own boxes on demand!







THE COMPLETE SOLUTION



GLUING SYSTEM





Our innovative cold gluing system gives a fresh and exceptional approach to the corrugated board gluing cycle.

With the double nozzle applicator integrated with a cross-cutting knife we apply cold glue in the same cycle as trimming the board - saving time and streamlining the box production cycle. The unit is using single or double nozzles for dotted, dashed or continuous glue line application. Especially helpful with the production of large boxes.

STACKING UNIT

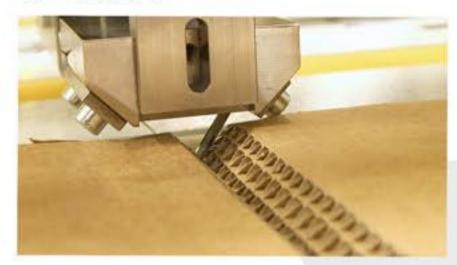
- Pneumatically controlled board receiving / drop arms
 - Stacking height for palettizing: 800 mm
 - Board reception width: up to 2400 mm
- ■Length of stacking boards: up to 3000 mm (or by request)
 - Gravitational precision stacking with guide plates
- Quick manual setup only compressed air, no electric required!
 - Rigid aluminum frame and smooth glide rolls



THE INNOVATIVE SIDE-BY-SIDE **BOXES PRODUCTION**

With the use of optional Multiproduction module you can double your production capacity on the Boxmat PRO machine. The Side-by-Side Multiproduction assembly requires installation of additional center-location slotting knives and upgrading the pneumatic controls and control software. When fully installed, you can remove the middle slotting knives for a standard production and reinstall them again, if needed, in less then 10 minutes. With Multiproduction machine can deliver up to 1200 standard RSC/Fefco 201 boxes per hour.

V-CUT



HAND HOLE



SCORING WHEELS



PERFORATION



flexomat

FLEXOGRAPHIC PRINTER

The FLEXOMAT printing unit integrates inline with all box making machines (Boxmat PRO / HD / 2) or it can be used as stand alone printer.

Standard configuration has one 760 mm (30") wide print drum/cylinder which is fully programmable and automatically adjustable across the width of the machine, to print image onto different panels, utilizing the full 2400 mm (94") size.

Optionally, the **FLEXOMAT** can be fitted with a second drum/cylinder to double the print area or utilize the use of second color.







EXPANDABLE SOLUTION PRINT YOUR FULL SIZE BOX UP TO 2400 MM (94")

Features:

- Special design steel/AL profile structure for vibration free printing
- Single or double print cylinders
- 1 or 2 color printing
- Ultra-Raster printing with ceramic anilox cylinder
- FRR Fast Repeat Rotation of print cylinder
- Print width: 760 mm (30") single cylinder
- Print length: 900 mm (35") with FRR for multi-panel printing
- Max. working width: 2400 mm (94")
- Independent drives and motion control of each cylinder
- Servo control for maximum print quality
- Infeed and outfeed system for precision registration
- Dynamically balanced ink applicator rolls
- Easy access for clean up and quick changeover of polymer plates
- Intuitive touch screen HMI for easy setup and control
- EPC Edge Position Control
- Automatic ink feed system by ink pump from containers

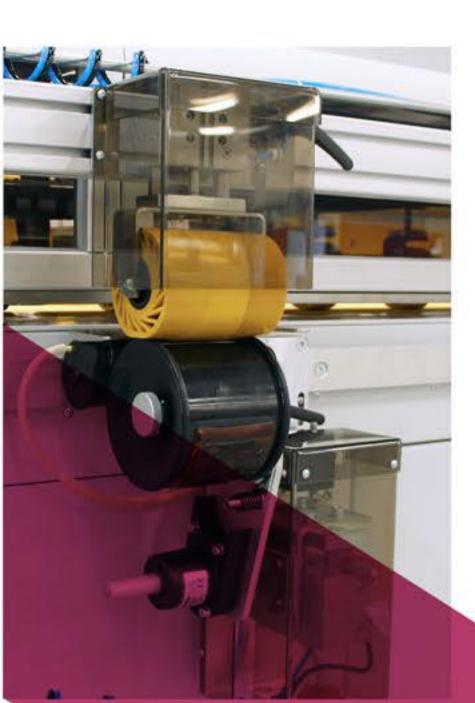


MINIPRINT

BOX PRINTING & MARKING

- One color mini-flexo technology printing
- Printing/marking from the bottom-up
- Automatic indexing of print area
- Multiple box panel printing
- Full control of the printing area with start/stop setup
- Printing area: 100 mm (4") width and up to 300 mm (12") long
- Ability to connect additional MiniPRINT modules in series to print various areas of the box with different colors
- Integrated ink container and applicator
- Rigid aluminum frame and smooth glide rolls







THE YOUNGER BROTHER



BOXMAT 2 is a semi-automatic box making machine providing perfect and simple solution for short run production of boxes or a large format box manufacturing.

The machines are designed for companies requiring in-house production of cardboard boxes and flexibility of a quick box size change. The use of BOXMAT machines allows efficient manufacturing of a single box or hundreds, depending on demand.

With the use of a touch screen HMI and some uncomplicated manual setup you can start production of boxes in mere minutes. The machine has the most common FEFCO/RSC styles of boxes preprogrammed in the HMI. Using the FreeStyle software option you can compose your own box project on a touch screen and store it in machine memory, with over 1000 other individual projects.

The blank corrugated sheet is positioned to the left edge with automatically set bumper. This feature allows for the use of straight blade knife for cutting off the cardboard excess and a glue flap. Board size adjustment is made without the need for precutting the blanks to the exact size (e.g.: on a separate machine). The use of soft grip rolls and special anti-slip feeder assembly prevent cardboard skewing and allows smooth and even feed through of small and large blanks. The slotting and scoring section has a special hardened steel feeding roll for increased precision and extended productivity.





Technical data:

Maximum board size: 2500 mm (98") width x unlimited length Minimum board size: 250 mm (10") width x 650 mm (25") length Maximum distance between slotting knives: 2200 mm (86.5")

with 100 mm (4") L / 200 mm (8") R

Minimum distance between slotting knives: 70 mm (2%")

Slot width: 8 mm (5/16")

Sectional slotting knives: 100 mm (4") each

Standard slotting knives length: 500 mm (20") each side Min/max slotting knives length: 200 - 700 mm (8 - 27 ½")

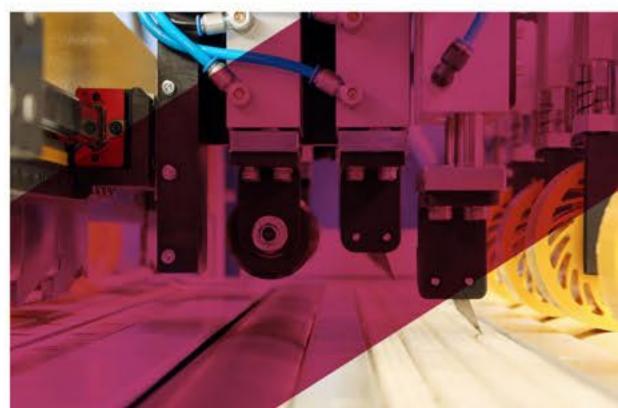
Cardboard used: single and double wall (triple wall with limitations)

Power supply: 3 x 380/415/480V (per request)

Compact footprint: 3300 x 1400 x H1600 mm (130" x 55" x H63")







INTELIGO HIMI SYSTEM

Every intelligent machine needs a smart programming to interact with its human operator.

The INTELIGO system creates the most user friendly interface for the Boxmat series of machines. The logic behind this creation is to make the interaction with the machine intuitive and allow it to think ahead – to predict the next move of the operator, to help to create the best box in a fastest time frame available.

Large 19" touch screen HMI providing the most user friendly, multi-panel, ergonomic operator interface.

Box Design WIZARD allows to create any box intuitively right on the screen. It will show and place the scoring/creasing and cutting lines exactly where they will be in the finished box.

Job Queue System JQS can be programmed each day for smart scheduling of the box production flow process or synchronized (with custom modification) with any internal MRP, MES, ERP, MOM and production control software.

3D Product Scanning and data input capability. With **INTELIGO** system you can scan dimension and weight of the product to be packaged and send this data directly to the machine which will calculate the required box size.

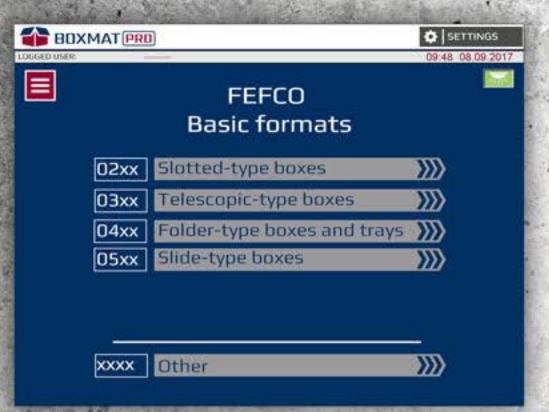
Barcode Scanner integration allows for fast and efficient production data input into the work flow scheduling process.

We use the state-of-the art PLCs and programming platforms to achieve the best results, both visual and logical. Our team designs and builds highly reliable HMI/PLC system that delivers safe, cost-effective, consistent, and intuitive performance which relies on the application of engineering best practices throughout design, panel layout, production, testing, and quality assurance processes. They apply a thorough knowledge of technical ergonomic, design, and manufacturing standards ISO, IEEE, ANSI, CE which are fundamental to HMI system design. Each HMI/PLC system we provide has built in secure VPN interface allowing remote calibration, servicing and updating.

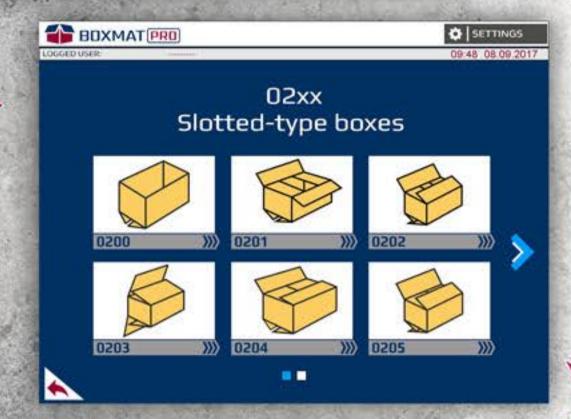








PROGRAMMED INTUITIVE SMART LOGIC PLC TO MAKE YOUR JOB EASIER





Use multiple preprogrammed box styles or make your own creation with FreeStyle programing option

BUILT IN VPN
INTERFACE
FOR ONLINE
CONNECTIVITY



UNIVERSAL SOLUTIONS



- Used cardboard: corugated sheets
- 4 (max. 8) cutting knives for blank formatting and cutting off glue flaps
- Circular knife for board length (cross cut) adjustment
- 4 wheels (max. 8) for longitudinal scoring/creasing
- Pressure for creasing/scoring wheels set from touch panel
- Working width: up to 2400 mm
- Independent drive for each tool nest / very fast position setup
- Pads production available
- Each creasing/scoring wheel and knife set independently
- Multiproduction: longitudinal standard, side-by-side soon
- Right cardboard bumper locked automatically
- Interior LED lights
- MiniPRINT module not available
- Gluing system available
- Works with FLEXOMAT printer
- Dimensions (L x W x H): 3500 x 1950 x 1750 mm

ONLY IN BOXMAT HD:

- Double die cutting system 210 x 130 mm (8,25x5,1") each
- Counter-knife system set automaticaly with knives
- Counter-scoring/creasing system set automatically

AS STANDARD IN BOXMAT HD:

- Large 19" touch screen HMI
- NEW, extended user friendly GUI
- Job Queue System JQS production scheduling
- Box Design WIZARD interface
- Cut/Score Allowances correction and editing
- Integration with MRP/ERP manufacturing systems



- Used cardboard: corugated sheets
- 4 (max. 8) cutting knives for blank formatting and cutting off glue flaps
- Circular knife for board length adjustment (cross cut)
- 4 wheels (max. 8) for longitudinal scoring/creasing
- Pressure for creasing/scoring wheels set from touch panel
- Working width: up to 2400 mm
- Each of 4 (8) knives set independent and automatically by servo drive
- Pads production available
- Each creasing/scoring wheel and knife set independently
- Multiproduction: longitudinal standard, side-by-side optional
- Right cardboard bumper locked automatically
- Interior LED lights
- MiniPRINT module available
- Gluing system available
- Works with FLEXOMAT printer
- Dimensions (L x W x H): 3300 x 1600 x 1600 mm



AFTER UPGRADING TO BOXMAT PRO INTELIGO:

- + Large 19" touch screen HMI
- + NEW, extended user friendly GUI
- + Job Queue System JQS production scheduling
- + Box Design WIZARD interface
- + Cut/Score Allowances correction and editing
- + Integration with MRP/ERP manufacturing systems



- Used cardboard: corrugated sheets
- 2 knives for cutting off glue flap, +1 knife for removing excess board
- No board length adjustment (cross cut)
- 2 wheels for longitudinal scoring/creasing
- Pressure for creasing/scoring wheels set with adjustment knob
- Working width: up to 2500 mm
- Knife for removing excess set manually
- Pads production not available
- Creasing/scoring wheel and cut-off knife in line with slotting knife tip
- No multiproduction
- Right cardboard bumper set and locked manually
- No interior lights
- MiniPRINT module available
- Gluing system not available
- Works with FLEXOMAT printer
- Dimensions (L x W x H): 3300 x 1400 x 1600 mm

OPTIONALLY FOR BOXMAKERS:

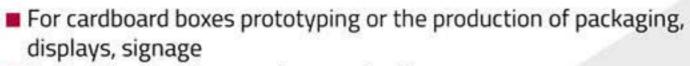
INTEGRATION WITH:

- Flexographic printers
- Automatic stackers
- Industrial production line





DIGITAL FLATBED CUTTING TABLE

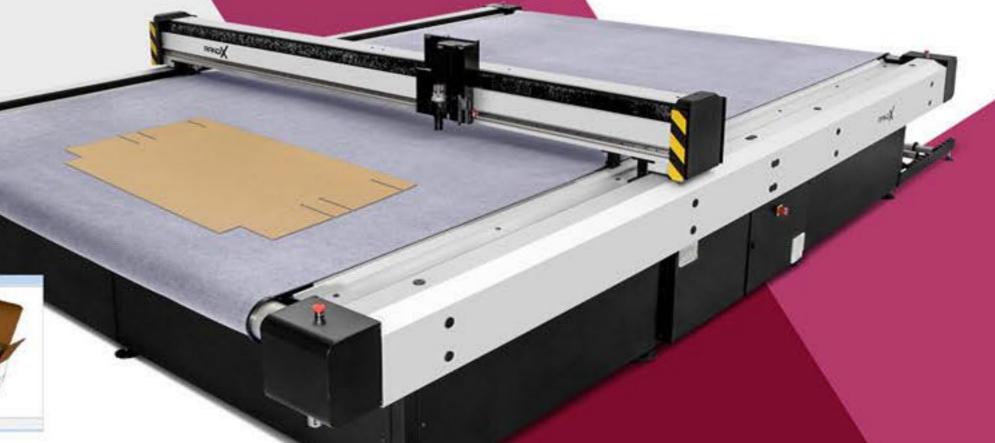


- Perfect for short run custom production
- No dies and very short set-up time with special software
- Upload and cut your own design in seconds
- Extraordinary throughput and speed
- A wide range of versatile tools for corrugated or thin paper board and honeycomb



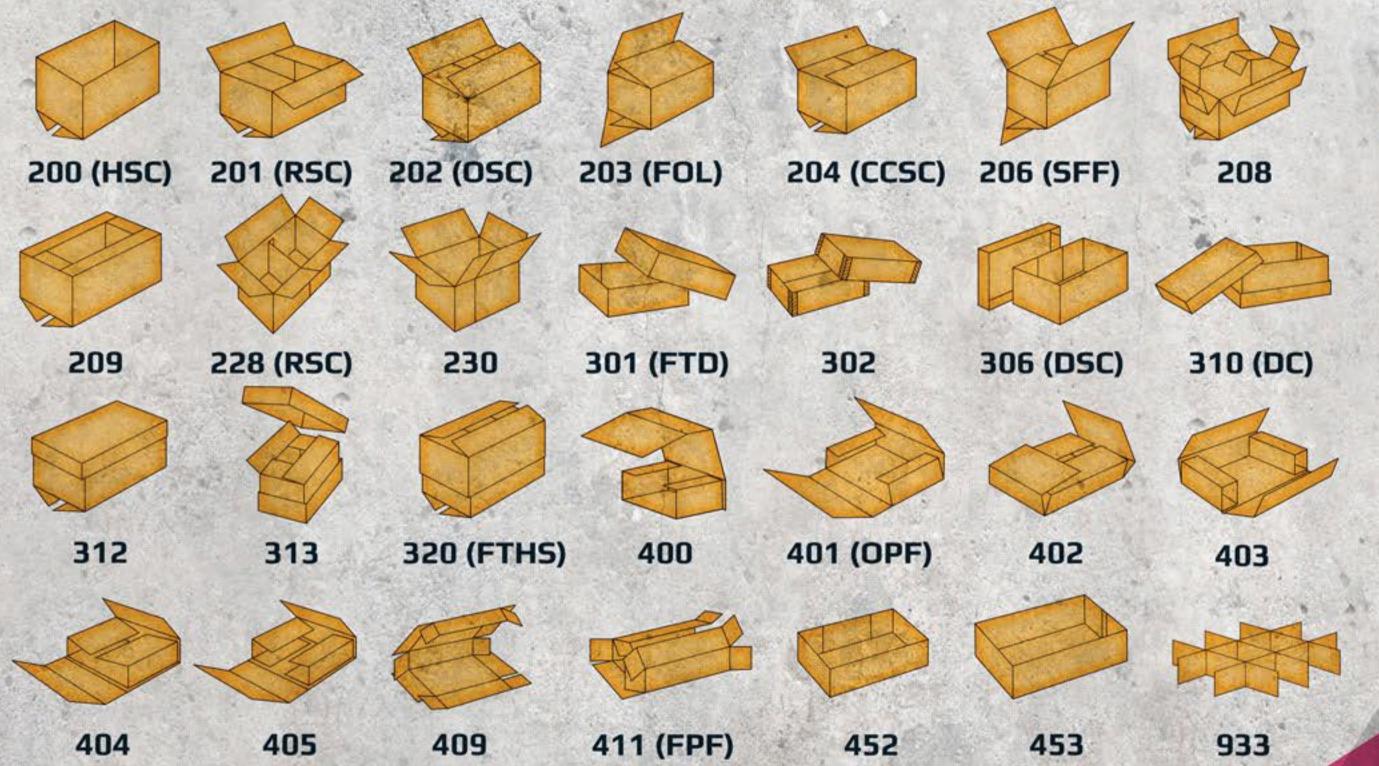






100+ FEFCO STYLES WITH FREE STYLE. IT'S ALL YOU NEED!















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