mita**case**
automatic casemaker

digibook⁺
technology
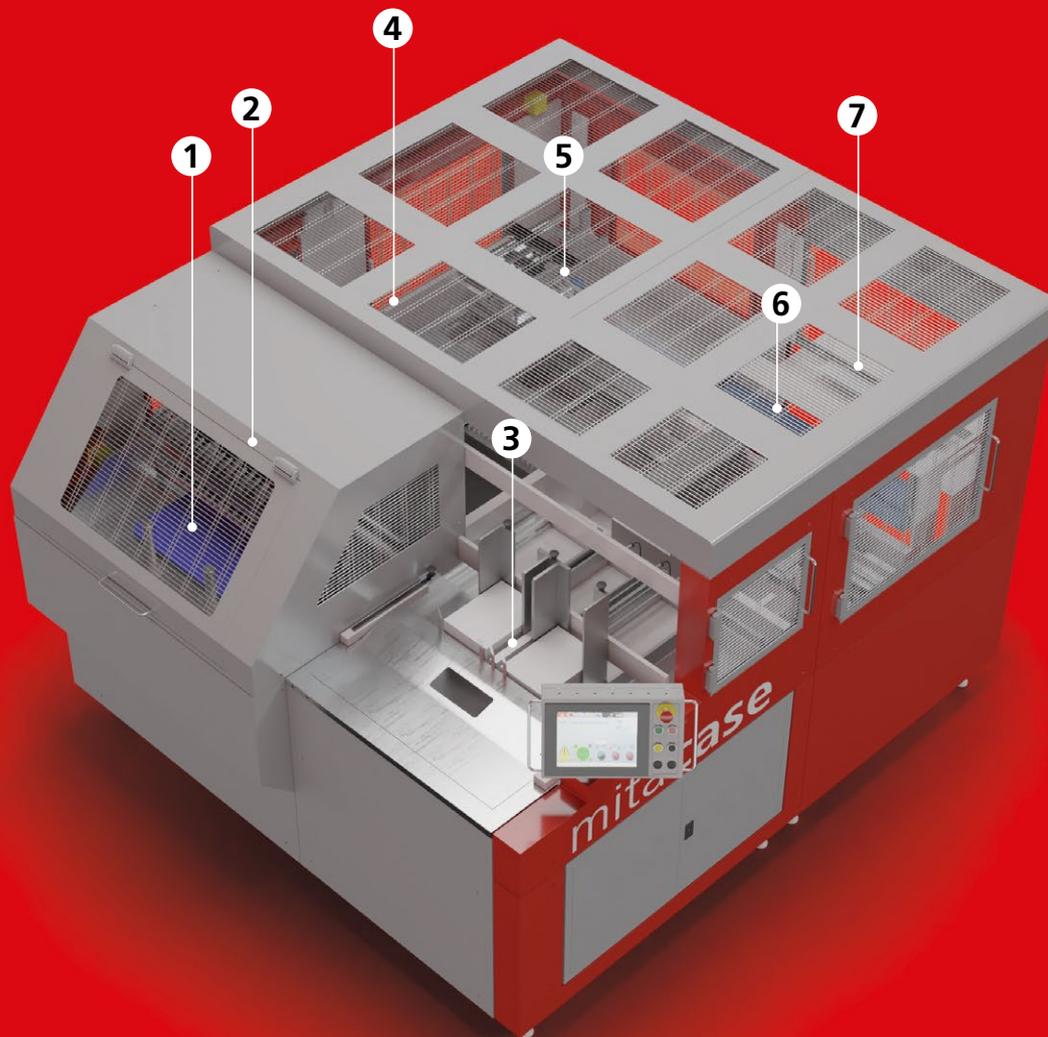
mita**case**
automatic casemaker

The mita**case** is a fully automatic casemaking machine designed in particular for the production of high-quality book cases in single to short-runs. Thanks to its high degree of automation with simple format setup times, ease of operation, and comparatively low complexity and space requirements, it has achieved a unique position in the hardcover book-on-demand sector in the lower speed range (up to 400 cases/h).

Special features

▶ Automatic feeding of the printed covers, spine and cardboard material. These are loaded by the operator via stacks in magazines. The processing of the spines and cardboard material allows for more loading of material during running operation.

▶ Integrated glue application system (animal hotmelt). The heated glue tank can be switched on via a timer before the start of the shift, thus avoiding unnecessary downtime. A viscometer (optional) allows the glue to be permanently adjusted to the optimum viscosity by means of a controlled water supply.

▶ Mechanical corner wrapping stations that not only wrap very precisely via press plates, but also produce a very accurate corner.

▶ Easy operation by only one operator and motorized quick format adjustment via central touch screen monitor. Storage of formats with absolute repeatability after format changes.

▶ Small footprint of only approx. 2.7 m x 3.4 m (8.8 ft x 11 ft)

Options

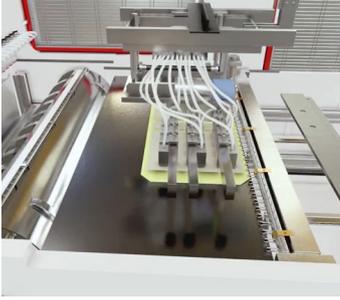▶ **automatic viscosity control** with viscosity check and automated water control

▶ **double sheet detector** to avoid misfeeds

▶ **one-piece case** option

▶ **flexible spine:** with spine unwinder, cutting roller and cross cutter

▶ **corner cutter** option (external auxiliary device for corner cutting of covers)

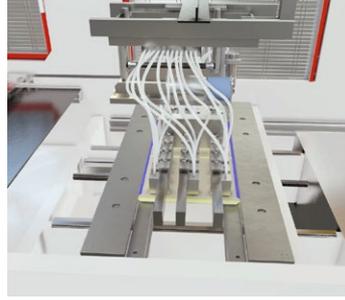▶ **spine cutter** option (external add-on device for cutting accurate spine thicknesses)

1 cover feeder
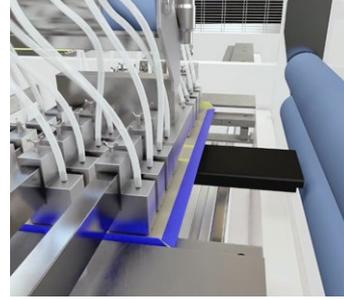
2 glueing drum

3 cardboard feeder

4 pick and place

5 fold I and corner turn-in

6 fold II

7 exit

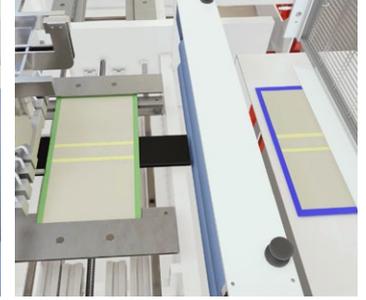alligning of boards and cover sheet

fold I

fold II

exit

mitacase

Operation

The mita**case** is set up via data input or "recipe retrieval" on the touch-screen. The cardboards and the cover material are inserted into the respective feeding magazines.

An electronically controlled suction arm (pick-and-place), which serves four stations, picks up the automatically fed cardboards and guides them over the automatically fed and fully glued cover material.

By lowering the pick-and-place, the boards and cover material are joined. Without releasing the boards, which are glued to the cover material, the pick-and-place guides the laminate into the mechanical head and foot wrapping station, where the corners are also drawn in at the same time. Further on, the cover is fed to the side wrapping station by means of the pick-and-place for finalizing.

The pick-and-place releases the now finished case. The case passes through pressure rollers and is deposited on the delivery table. The result is precise, neatly folded hardcover case.

The pick-and-place returns to its original position and picks up the cardboard quadrants for the next production cycle.

raw formats

min. 250 mm / max. 850 mm
min. 100 mm / max. 385 mm
min. 7 mm / max. 70 mm
min. 125 mm / max. 420 mm
min. 155 mm / max. 450 mm

finished case

min. 223 mm / max. 800 mm
min. 15 mm / max. 20 mm
min. 15 mm / max. 20 mm
min. 125 mm / max. 420 mm

4'670 mm

510

3'356 mm

4'350 mm

glue tank

2'680 mm

Technical specifications

mitacase

Production speed	up to 7 cases / min – depending on pressing times	
Finished case size (width x height) *)	min. 223 mm x 125 mm max. 800 mm x 420 mm	min. 8 $\frac{7}{8}$" x 5" max. 31 $\frac{1}{2}$" x 16 $\frac{1}{2}$"
Cover material (width x height x thickness) *)	min. 250 mm x 155 mm max. 850 mm x 450 mm x 1 mm **)	min. 9 $\frac{7}{8}$" x 6 $\frac{1}{8}$" max. 33 $\frac{3}{8}$" x 17 $\frac{5}{8}$" x $\frac{3}{64}$" **)
Board dimensions (width x height x thickness) *)	min. 100 mm x 125 mm x 1 mm max. 385 mm x 420 mm x 5 mm ***)	min. 4" x 5" x $\frac{3}{64}$" max. 15 $\frac{1}{8}$" x 16 $\frac{1}{2}$" x $\frac{13}{64}$" ***)
Spine (width x height x thickness) *)	min. 7 mm x 125 mm x 1 mm max. 70 mm x 420 mm x 5 mm	min. $\frac{9}{32}$" x 5" x $\frac{3}{64}$" max. 2 $\frac{3}{4}$" x 16 $\frac{1}{2}$" x $\frac{13}{64}$"
Turn-in (up/down and side) *)	min. 15 mm ****) – max. 20 mm	min. $\frac{5}{8}$" ****) – max. $\frac{3}{4}$"
Size change	1 – 5 minutes	
Electrics	12 kW, 400 V, 3 PNE, 50 Hz	
Air consumption	800 Nl / min. (6 bar)	
Water consumption	1.5 Liter/h	
Floor space (closed)	2.68 m x 3.36 m (8.8 ft x 11 ft)	
Weight	approx. 2'900 kg (6'400 lbs.)	

*)   In case of deviations between inch and mm, mm is considered binding.
**)   Depending on the material flexibility – then note the turn-in.
***)   max. width of the boards leads to limitations in the spine and fold due to the max. size of the finished case.
****)   smaller is possible, depending on material flexibility.

Technical specifications subject to change without notice

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