# mita**block 450**
## automatic hotmelt section gluing machine



We deliver the mita**block 450**
in the following regions only:
**Europe, Canada, North America**

digi**book**⁺
technology

# mita**block 450**
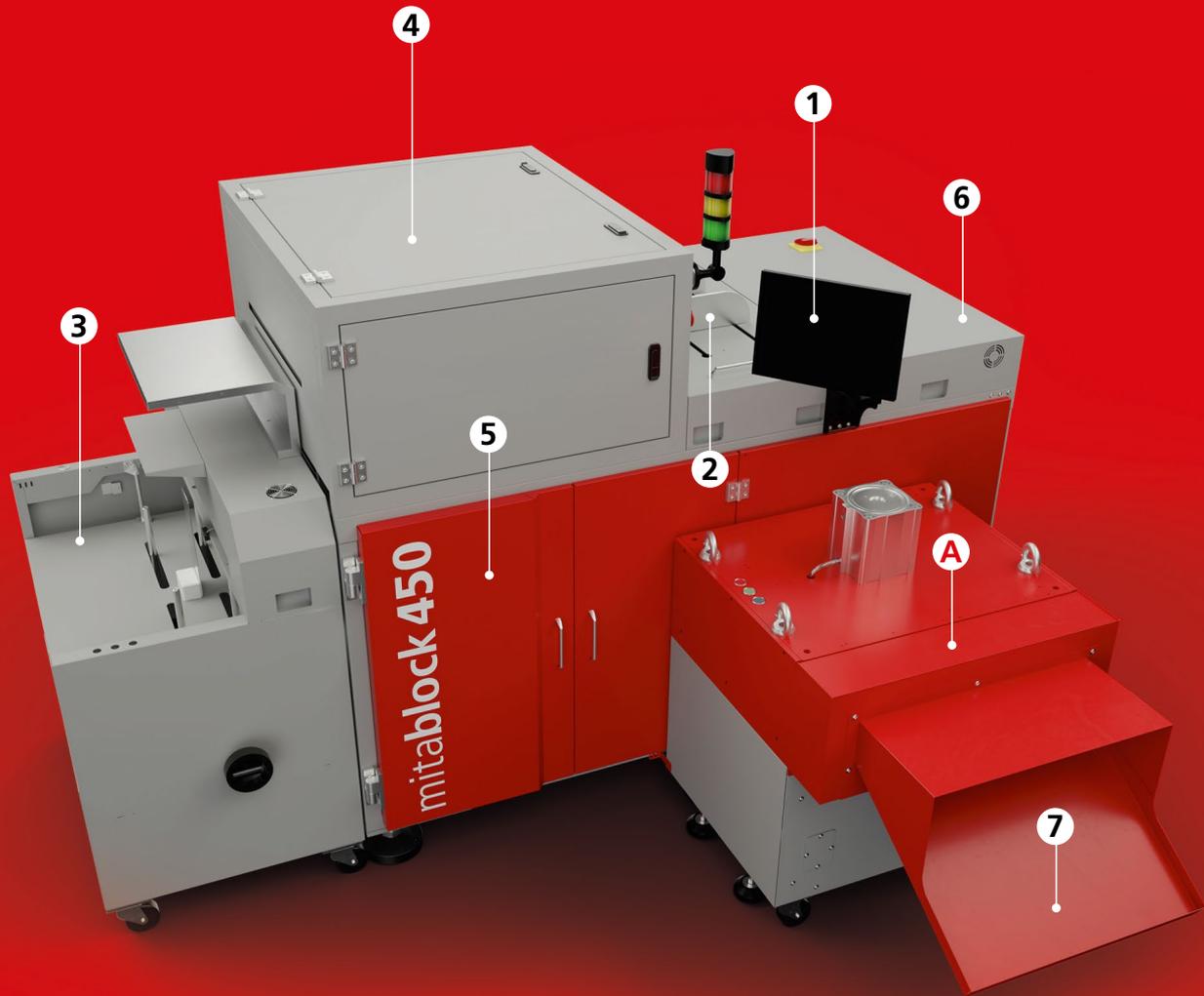# automatic hotmelt section gluing machine

The mita**block 450** is a fully automatic layflat hotmelt section gluing machine designed especially for the production of high-quality layflat book blocks in single- to very short-runs. Thanks to the high degree of automation with simple format setup times, ease of operation and small footprint, it achieves a unique position in the layflat book-on-demand sector in the lower speed range (up to 900 gluings/h).

## Special features

▶ The machine is loaded via the pile feeder and the separate board feeder. Thereby an exact alignment as well as a double sheet control takes place. Different infeed sequences are possible via the board feeder.

▶ There is no need for makeready for different formats, as the format data is transferred to the press via the manually adjustable side guides of the feeder and automatic measurement of the sheet length.

▶ The machine is set-up by entering the number of signatures to be glued and the desired board scheme. Alternatively, the machine can be controlled via a print mark or a barcode that passes on the signal when a block is complete. In this way, blocks with different page packs can be produced continuously without having to change over the machine.

▶ Very different paper and board thicknesses and qualities can be processed. The creasing tools can also be converted to different geometries if required.

▶ The very thin hotmelt glue application (less than 20 g/m²) is carried out via a stationary glue roller.

▶ The book block is assembled horizontally on a table. Exact alignment is ensured by sensor-controlled re-adjustment of each individual folded sheet.

▶ The machine is operated by one operator who, due to the speed of the machine, can also perform other tasks on the side.
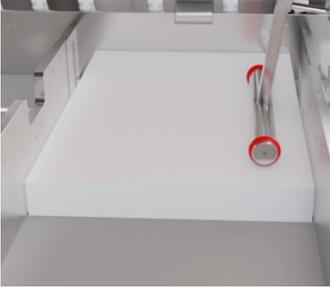
## Options

▶ **barcode reader** in the infeed for completeness verification

▶ **barcode printer** (scan & print) for printing barcodes on the last page of the block

▶ **inline pressing** device at the machine exit

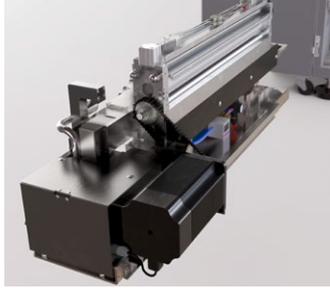▶ **offline pressing** device for additional pressing of finished book blocks

**mitablock 450**

1. touch screen
2. pile feeder
3. card board and/or endsheet feeder
4. measurement/creasing / folding
5. hotmelt glueing
6. gathering and pressing
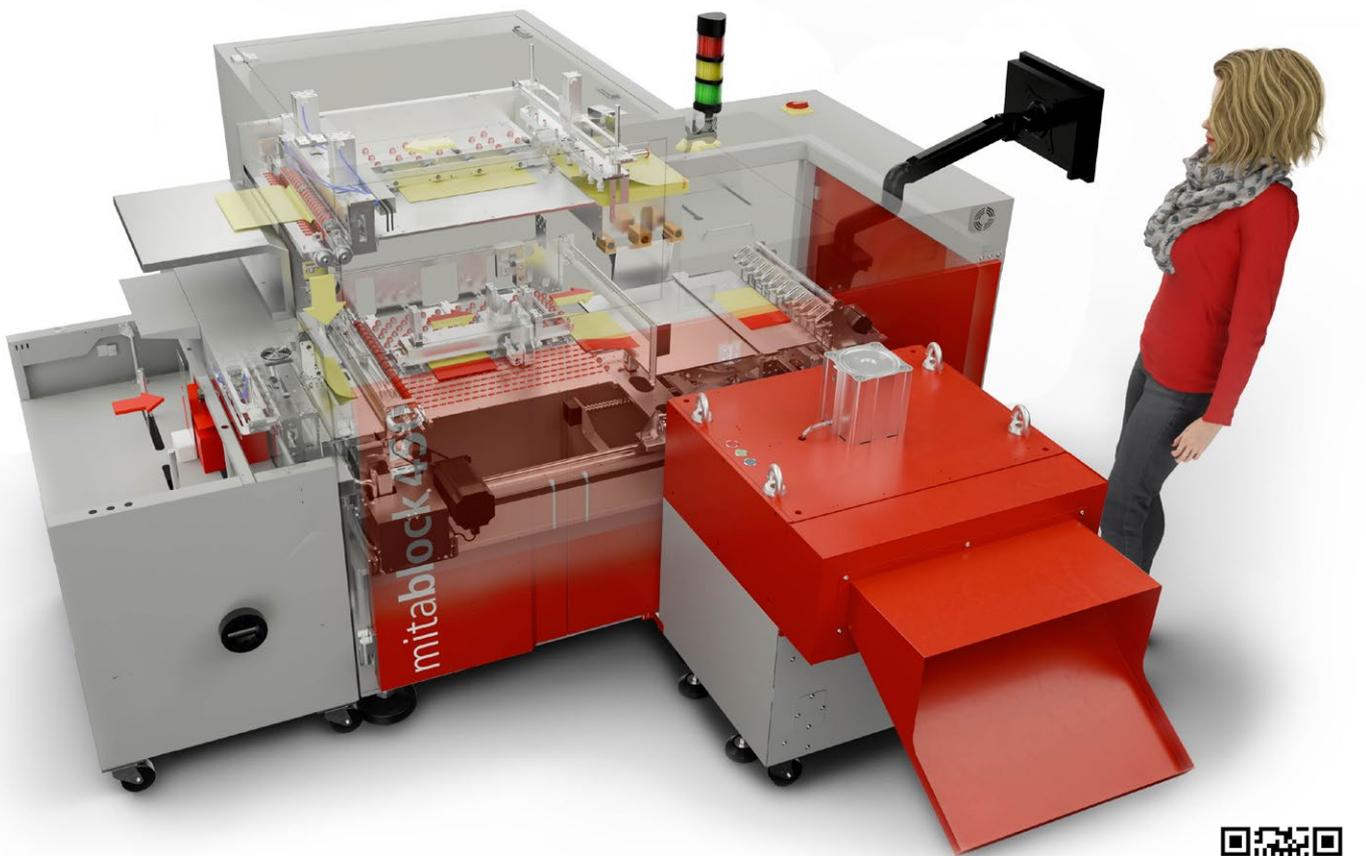7. exit
A. additional pressing

pile feeder for printed sheets


removable glue roller with glue tank


vacuum table with book block


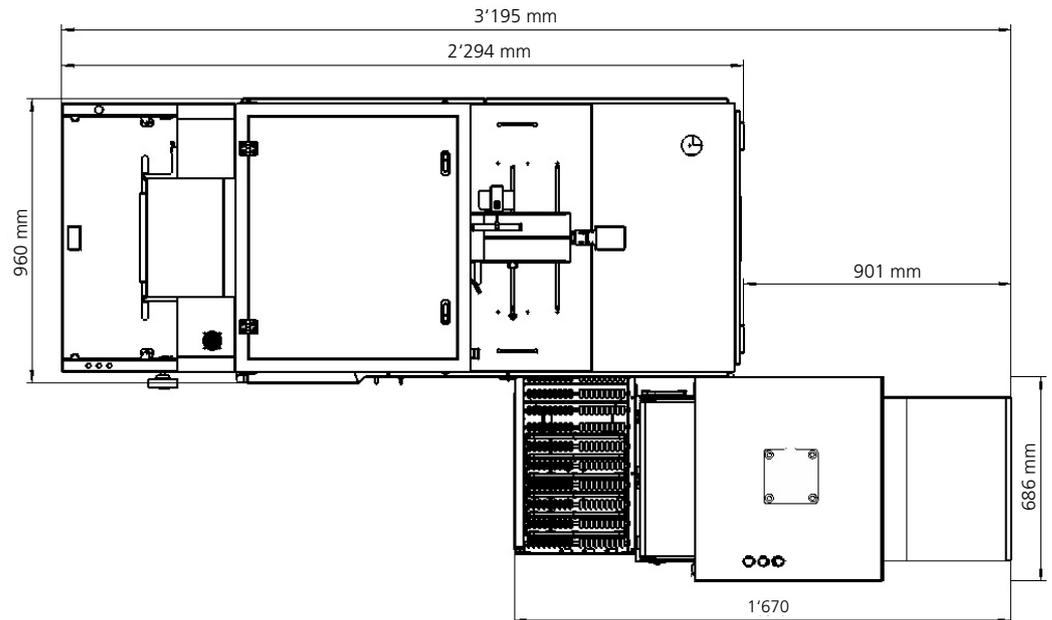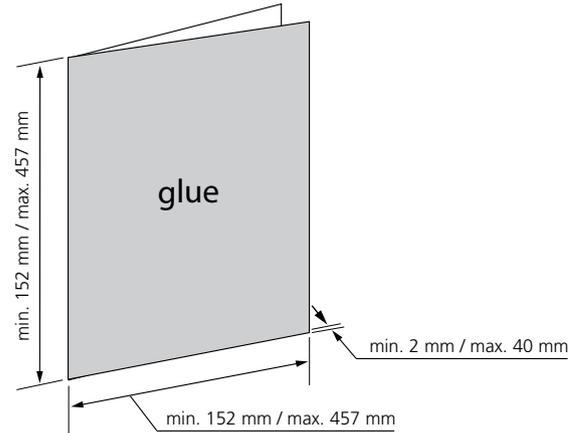full surface pressing




mita**block 450**

# Operation

The mita**block 450** is set up via data input or "recipe retrieval" on the touch screen. One-side printed sheets are fed into a pile feeder in the correct sequence. The individually removed sheets are separated from the pile by means of suction and fed to the creasing station. The creased sheets are then folded and transported to the gluing station.

Gluing of the signatures is done by means of hotmelt glue. All signatures, except the first one of each book block, are glued over the entire surface. The signatures are precisely conveyed to the worktable by transport rollers, where they are set down in register.

Pressure rollers press each individual signature against the preceding signature. The finished book block is automatically discharged from the worktable onto a delivery surface.

An additional pressing station at the exit is available as an option.

**formats glued folded sheet**

min. 152 mm / max. 457 mm

glue

min. 152 mm / max. 457 mm

min. 2 mm / max. 40 mm

3'195 mm

2'294 mm

960 mm

901 mm

686 mm

1'670

# Technical specifications
mitablock 450

| | | |
|---|---|---|
| **Production speed** | 900 sections / h – depending on format | |
| **Open sheet format / standard** (height x width) | min. 152 mm x 305 mm<br>max. 457 mm x 914 mm | min. 6″ x 12″<br>max. 18″ x 36″ |
| **Intermediate cardboards format** (height x width) | min. 152 mm x 152 mm<br>max. 457 mm x 457 mm | min. 6″ x 6″<br>max. 18″ x 18″ |
| **Paper thickness** | min. 0.15 mm<br>max. 0.30 mm | min. $\frac{1}{128}$″<br>max. $\frac{1}{64}$″ |
| **Cardboard thickness** | min. 0.35 mm<br>max. 1.00 mm | min. $\frac{1}{64}$″<br>max. $\frac{3}{64}$″ |
| **Electrics** | 2 KW, 220 V, 50 Hz | |
| **Air consumption** | 100 Nl/min. at (6 bars) | |
| **Glue consumption** | approx. 15 – 20 g/m² (depending on paper-/cardboard surfaces) | |
| **Floor space** (closed) | 2.30 m x 0.90 m (approx. 8 ft x 3 ft) | |
| **Weight** | approx. 650 kg (1'500 lbs.) | |

*Technical specifications subject to change without notice*

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