

digital **print** goes **binding**

overview



| digi**book**⁺
technology

digibook ...

360° book manufacturing for digital printers

For more than a decade Digibook, former Photobook Technology, has supplied binding equipment for the digital print industry worldwide.

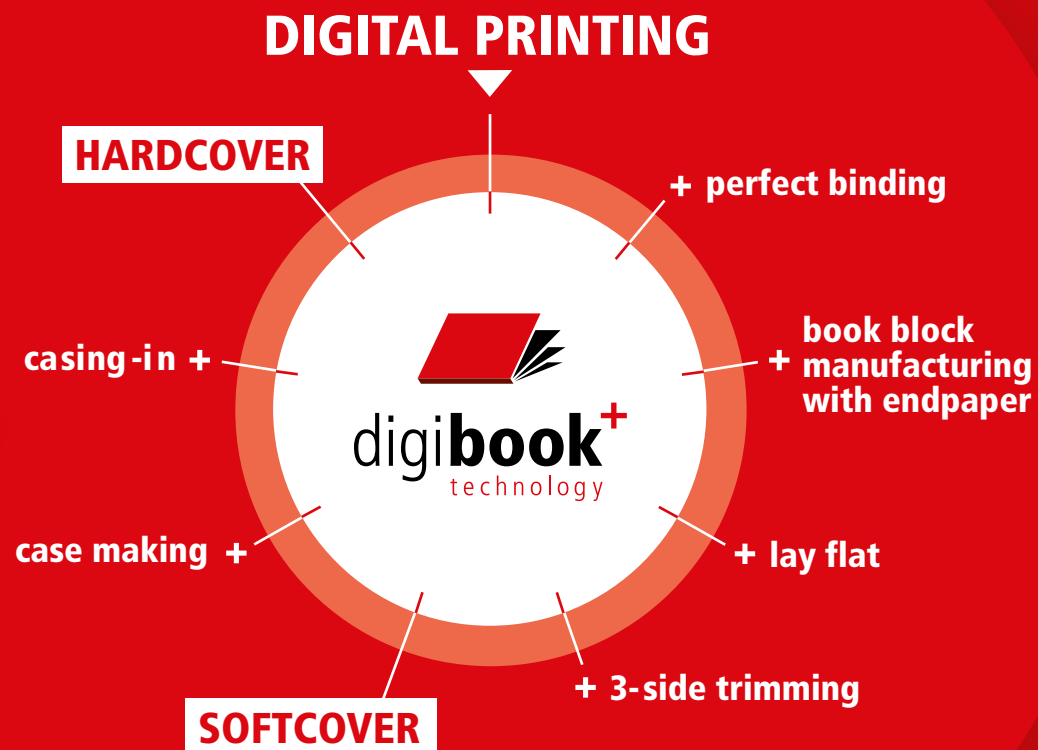
Digibook Technology has now expanded its equipment range to enable digital printers to perform all phases (360°) of book manufacturing. The key factors behind the development of our equipment were the ease and flexibility of producing small book quantities with a high degree of automation and simplicity.

With this new range of equipment, Digibook fills the gap between semi-automatic and industrial book manufacturing equipment.

Many years of experience in short-run book production has taught us to pay special attention to the following points when designing our machines:

- + Ease of operation
- + Computer and barcode assisted motorized format changes
- + Automated production with high degree of reproducibility
- + Medium speed potential
- + Compact and stable design
- + Low maintenance

Digibook embraces the opportunity to work with digital print manufacturers on integrated book production projects.



	page
perfect binding & book block manufacturing	
mita bind short-run perfect binder	02 – 03
mita bind PRO automatic softcover perfect binder	04 – 05
lay flat binding (panorama)	
mita block PRO fully automatic hot melt section gluing machine	06 – 07
mita block 450 fully automatic hot melt section gluing machine	08 – 09
3-side trimming	
mita trim 3-side single knife trimmer	10 – 11
3-knife trimming	
mita trim PRO automatic 3-knife trimmer	12 – 13
case making	
mita case automatic casemaker	14 – 15
casing-in	
mita book fully automatic hardcover casing-in machine	16 – 17

page

perfect binding & book block manufacturing**02 – 05**mita**bind**mita**bind PRO****lay flat binding (panorama)****06 – 09**mita**block PRO**mita**block 450****3-side trimming****10 – 11**mita**trim****3-knife trimming****12 – 13**mita**trim PRO****case making****14 – 15**mita**case****casing-in****16 – 17**mita**book**

index



page

perfect binding & book block manufacturing**02 – 05**mita**bind** | mita**bind PRO****lay flat binding (panorama)****06 – 09**mita**block PRO** | mita**block 450****3-side trimming****10 – 11**mita**trim****3-knife trimming****12 – 13**mita**trim PRO****case making****14 – 15**mita**case****casing-in****16 – 17**mita**book**

index



mitabind

mitabind is a short-run perfect binder for the production of hard cover book blocks with integrated end sheet tipper and backlining station as well as soft cover books.

Operation

The automatic single-clamp perfect binder and book block preparation line can be equipped with an optional end sheet feeder and backlining station. It is an ideal solution for the finishing of digitally printed books with the possibility to connect the binding line to the previous processes like sheeters after unwinding, folding or sewing equipment. Spine gluing can be hot melt or optional PUR. The non-stop cover feeder is equipped with creasing rollers which can be set automatically.

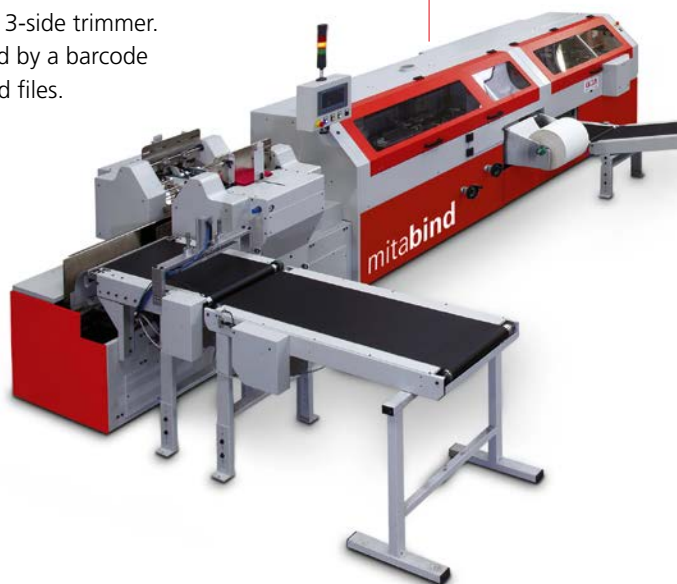
The binding line can produce up to 400 books per hour. After binding books or book blocks can be transferred in line to the mitatrim PRO 3-knife trimmer or mitatrim 3-side trimmer. All adjustments are motorized and activated by a barcode reader, thickness caliper or pre-programmed files.

Special features

- + Ease of operation
- + Motorized size change
- + All settings by touch screen
- + Manufacturing cycle easily visible

Options

- + Bar code recognition
- + Additional spine pressing
- + Inline end sheet application
- + PUR gluing station
- + Backlining station



Technical specifications

Production speed	up to 6 cycles/min*
Clamps number	1
Block formats (width x height x thickness)	min. 100 mm x 150 mm x 3 mm max. 320 mm x 350 mm x 60 mm
Paper grammage	min. 60 g/m ² max. 170 g/m ²
Cover formats (width x height)	min. 205 mm x 150 mm max. 700 mm x 380 mm
Cover grammage	min. 100 g/m ² max. 300 g/m ²
Cover feeder pile height	max. 50 mm
Creasing	double or quadruple
Spine preparation (milling depth)	min. 0 mm max. 4 mm
Electrics	EVA Hotmelt 12 kW, 400 V, 3 PNE, 50 Hz
Air consumption	1'800 NI/min. (6 bar)
Floor space (standard)	5,80 m x 1,81 m (H 1,32 m)
Weight	approx. 1'800 kg (standard) approx. 3'000 kg (with endpaper and back lining)

* The effective performance depends on mode, format, milling depth and pressing time.

Technical specifications subject to change without notice



Options of the perfect binder „mitabind“

- + **External thickness caliper for manual feeding:** This module is designed to measure the thickness of manually fed blocks out-side the machine. It enables instant changeover and various thicknesses production.
- + **Automatic feeding device „Star-Wheel“ with integrated thickness caliper:** With this module, the binder can be automatically fed by connecting a book block feeder, printing, unwinding, sheeters, and folding equipment as well as book sewing machines or another inline solution. (An additional module might be required for inline solutions depending on the previous equipment, not included in price.)
- + **Book spine pressing in the channel** consisting of a pneumatic pressing device to reduce the spine build-up of sewn book blocks
- + **Endpaper station:** In this unit front and back endpapers are glued to the book block. Glue application on the book block by means of a hotmelt nozzle application system using the premelter of the side gluing system. **Attention:** The option **Endpaper station** cannot be retrofitted.
- + **Back lining station:** In the lining station, materials such as gauze or crepe paper can be applied to the book block. The unit consists of a feeding system, a cut-to-size system driven by a servo motor, unwinding system by a gear motor with a compensating shaft to handle tension. Glue application on the book block by means of a hotmelt nozzle application system using the premelter of the spine gluing system.
- + **Double bar code reader** for checking cover and block on consistency.
- + **Bar code printer** for printing bar codes on the end sheets of the blocks for later identification.
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals.
- + **Service and maintenance contract at half price for 12 months** a regular rate for this contract is 340 €/month (with 2 maintenances/year – each for 2 days). With this option the rate will be reduced to the half for the first year. **Attention:** beside the monthly rate there is a fixed travelling rate for each visit
- + **Voltage other than 400V 50Hz 3Ph**

Options spine glue application systems

- + **Basic equipment PUR nozzle system for spine gluing (Option RB 2):**
Instead of Hotmelt nozzle system (RB 1). The PUR nozzle system replaces the standard built-in Hotmelt system and will be delivered with its premelter. The gluing systems for end sheets and side glue stay connected to their separate Hotmelt premelter. A subsequent combination is only possible with RB 1, not with RB 3 and RB 4 (Hotmelt and PUR roller application systems).

- + **Basic equipment Hotmelt roller system for spine gluing (Option RB 3):**

Instead of Hotmelt nozzle system (RB 1). Consists of two application rollers and one counter-rotating spinner roller. The start and stop of the glue application are controlled by scrapers. Interchangeable with a movable PUR roller system (RB 4). A combination with nozzle systems (RB 1 and RB 2) is not possible.

- + **Basic equipment PUR roller system for spine gluing (Option RB 4):**

Instead of Hotmelt nozzle system (RB 1). Consists of two application rollers and one counter-rotating spinner roller. The start and stop of the glue application are controlled by scrapers. Interchangeable with a movable Hotmelt roller system (RB 3). A combination with nozzle systems (RB 1 and RB 2) is not possible.

- + **Additional alternative PUR nozzle spine gluing system (Option RB 2):**

For the alternating operation with the Hotmelt nozzle system. The interchange from Hotmelt to PUR is carried out quickly without any conversion by a switchable Y-pipe section, which is mounted in front of the nozzle. The combination is only possible with the hotmelt nozzle system RB 1. The additional alternative PUR nozzle system is also retrofittable. A combination with roller systems (RB 3 and RB 4) is not possible.

- + **Additional alternative Hotmelt nozzle spine gluing system (Option RB 1):**

For the alternating operation with the PUR nozzle system. The interchange from PUR to Hotmelt is carried out quickly without any conversion by a switchable Y-pipe section, which is mounted in front of the nozzle. The combination is only possible with the PUR nozzle system RB 2. The additional alternative Hotmelt nozzle system is also retrofittable. A combination with roller systems (RB 3 and RB 4) is not possible.

- + **Additional alternative Hotmelt roller system (Option RB 3).**

In this case, the existing PUR roller system can be replaced by a movable Hotmelt roller system. This option is only possible in combination with RB 4 and can also be retrofitted. A combination with nozzle systems (RB 1 and RB 2) is not possible.

- + **Additional alternative PUR roller system (Option RB 4).**

In this case, the existing Hotmelt roller system can be replaced by a movable PUR roller system. This option is only possible in combination with RB 3 and can also be retrofitted. A combination with nozzle systems (RB 1 and RB 2) is not possible.

- + **Slanted discs instead of Hotmelt nozzles for side gluing**

- + **Different glue types for end sheet and/or side gluing**
(e.g. PUR for side gluing)

mitabind PRO

mitabind PRO is an automatic 7 clamp softcover perfect binder and/or book block preparation line with an optional end sheet feeder and backlining station. It's the ideal solution for the finishing of digitally printed books. It can be connected to digital printing machines, unwinding devices, sheeters, and folding equipment as well as book block feeders or book sewing machines.

After binding, books and book blocks can be fed in-line to the mitatrim PRO 3-knife trimmer.

Special features

- + Ease of operation
- + Available for hot melt and PUR glue application
- + Heavy-duty construction

Options

- + Star wheel feeder for feeding of all kinds of block materials (also inline connected)
- + Inline end sheet application
- + Integrated backlining station
- + Double barcode reader for checking cover and book block consistency.



Technical specifications

Production speed	up to 30 cycles/min* softcover production up to 25 cycles/min* block production w. backlining
Clamps number	7
Block formats (width x height x thickness)	min. 100 mm x 150 mm x 3 mm max. 320 mm x 440 mm x 60 mm
Paper grammage	min. 60 g/m ² max. 170 g/m ²
Cover formats (width x height)	min. 205 mm x 150 mm max. 700 mm x 440 mm
Cover grammage	min. 100 g/m ² max. 300 g/m ²
Cover feeder pile height	max. 50 mm
Creasing	double or quadruple
Spine preparation (milling depth)	min. 0 mm max. 4 mm
Electrics	EVA Hotmelt80 A, 400 V, 3 PNE, 50 Hz
Air consumption	xx NI/min. (6 bar)
Floor space (standard)	approx. 2,60 m x 6,00 m
Weight	approx. 5'000 kg

* The effective performance depends on mode, format, milling depth and pressing time.

Technical specifications subject to change without notice

Options of the perfect binder „mitabind PRO“

- + **External thickness caliper for manual feeding:** This module is designed to measure the thickness of manually fed blocks out-side the machine. It enables instant changeover and various thicknesses production.
- + **Automatic feeding device „Star-Wheel“ with integrated thickness caliper:** With this module, the binder can be automatically fed by connecting a book block feeder, printing, unwinding, sheeters, and folding equipment as well as book sewing machines or another inline solution. (An additional module might be required for inline solutions depending on the previous equipment, not included in price.)
- + **Book spine pressing in the channel** consisting of a pneumatic pressing device to reduce the spine build-up of sewn book blocks
- + **Endpaper station:** In this unit front and back endpapers are glued to the book block. Glue application on the book block by means of a hotmelt nozzle application system using the premelter of the side gluing system. **Attention:** The option **Endpaper station** cannot be retrofitted.
- + **Back lining station:** In the lining station, materials such as gauze or crepe paper can be applied to the book block. The unit consists of a feeding system, a cut-to-size system driven by a servo motor, unwinding system by a gear motor with a compensating shaft to handle tension. Glue application on the book block by means of a hotmelt nozzle application system using the premelter of the spine gluing system.
- + **Double bar code reader** for checking cover and block on consistency.
- + **Bar code printer** for printing bar codes on the end sheets of the blocks for later identification.
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals.
- + **Service and maintenance contract at half price for 12 months** a regular rate for this contract is 340 €/month (with 2 maintenances/year – each for 2 days). With this option the rate will be reduced to the half for the first year. **Attention:** beside the monthly rate there is a fixed travelling rate for each visit
- + **Voltage other than 400V 50Hz 3Ph**

Options spine glue application systems

- + **Basic equipment PUR nozzle system for spine gluing (Option RB 2):**
Instead of Hotmelt nozzle system (RB 1). The PUR nozzle system replaces the standard built-in Hotmelt system and will be delivered with its premelter. The gluing systems for end sheets and side glue stay connected to their separate Hotmelt premelter. A subsequent combination is only possible with RB 1, not with RB 3 and RB 4 (Hotmelt and PUR roller application systems).

+ Basic equipment Hotmelt roller system for spine gluing (Option RB 3):

Instead of Hotmelt nozzle system (RB 1). Consists of two application rollers and one counter-rotating spinner roller. The start and stop of the glue application are controlled by scrapers. Interchangeable with a movable PUR roller system (RB 4). A combination with nozzle systems (RB 1 and RB 2) is not possible.

+ Basic equipment PUR roller system for spine gluing (Option RB 4):

Instead of Hotmelt nozzle system (RB 1). Consists of two application rollers and one counter-rotating spinner roller. The start and stop of the glue application are controlled by scrapers. Interchangeable with a movable Hotmelt roller system (RB 3). A combination with nozzle systems (RB 1 and RB 2) is not possible.

+ Additional alternative PUR nozzle spine gluing system (Option RB 2):

For the alternating operation with the Hotmelt nozzle system. The interchange from Hotmelt to PUR is carried out quickly without any conversion by a switchable Y-pipe section, which is mounted in front of the nozzle. The combination is only possible with the hotmelt nozzle system RB 1. The additional alternative PUR nozzle system is also retrofittable. A combination with roller systems (RB 3 and RB 4) is not possible.

+ Additional alternative Hotmelt nozzle spine gluing system (Option RB 1):

For the alternating operation with the PUR nozzle system. The interchange from PUR to Hotmelt is carried out quickly without any conversion by a switchable Y-pipe section, which is mounted in front of the nozzle. The combination is only possible with the PUR nozzle system RB 2. The additional alternative Hotmelt nozzle system is also retrofittable. A combination with roller systems (RB 3 and RB 4) is not possible.

+ Additional alternative Hotmelt roller system (Option RB 3):

In this case, the existing PUR roller system can be replaced by a movable Hotmelt roller system. This option is only possible in combination with RB 4 and can also be retrofitted. A combination with nozzle systems (RB 1 and RB 2) is not possible.

+ Additional alternative PUR roller system (Option RB 4):

In this case, the existing Hotmelt roller system can be replaced by a movable PUR roller system. This option is only possible in combination with RB 3 and can also be retrofitted. A combination with nozzle systems (RB 1 and RB 2) is not possible.

+ Slanted discs instead of Hotmelt nozzles for side gluing

- + **Different glue types for end sheet and/or side gluing**
(e.g. PUR for side gluing)

mitablock PRO

mitablock PRO is a fully automatic hot melt section gluing machine. The open design offers operators an easy way to oversee the production and general operation of the machine. This new binding technique produces a very attractive product for consumers, mainly because of the uninterrupted image over two adjacent pages. Layflat books are not limited to photo books. They are suitable for the creation of promotional books, company profiles, building projects, furniture, cars, etc.

Special features

- + Computer-controlled hot melt glue application with extrusion nozzles
- + Precise alignment of the folded sheets to form a perfectly square book block
- + Simple operation and largely motorized size change
- + Minimal quantity of hotmelt applied

Options

- + Extending glue application to 438 mm (standard 338 mm)
- + Feeder for cardboards between sections or end-sheets
- + Additional block pressing unit: The inline pressing unit at the machine exit reduces the swelling of the book block in the spine area
- + Barcode reader to check the sequence of the sheets as well as to indicate that a block is finished
- + Instead of the pile feeder, the machine can be equipped with an unwinder and a sheeter for roll feeding



Technical specifications

Production speed	up to 1'700 sections/h – depending on size (max. mechanical speed)	
Folded sheet size	Back to front	min. 135 mm max. 450 mm
	Height	min. 145 mm max. 400 mm
Important limitation!	Sheet width and height refer to the measurements of the machine guides – The glued area diverges from these dimensions.	
Block thickness	min. 2 mm max. 40 mm	
Electrics	approx. 14 kW, 400 V, 3 PNE, 50 Hz	
Air consumption	110 NI/min. (6 bar)	
Machine dimensions	approx. 3,5 m x 2,8 m	
Weight	approx. 3'500 kg	

Technical specifications subject to change without notice



The basic lay flat gluing machine „mitablock PRO“ includes:

- Pile Feeder
- Creasing
- Folding
- Additional pressing of fold
- Hot melt application (width 338 mm)
- Block Forming station
- Delivery of Block

Options of the machine „mitablock PRO“

- + **Barcode recognition** on each signature in progress to ensure that it belongs to the book and that it follows the correct order.
- + **Hot melt application up to 438 mm** (to be specified with order – later retrofit not possible).
- + **In-line board feeder** with this option, it is possible to automatically insert a board between sections. The boards are placed into a separate hopper. Prior to building the book block, the board is registered to any desired distance from the edge of the folded section (max. 3 mm). Every board count as one glued sheet and therefore reduces output.
- + **Pressing station for completed book block** depending on paper and glue this option offers an additional pressing behind the block output.
- + **Unwinder and lateral cutter** if the printing process is roll to roll, an unwinder allows to feed the mitablock PRO with material from a roll. The paper from the roll will be cut by a lateral cutter and creased and folded afterwards (the pile feeder needs to be replaced for this option).
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals.

- + **Service and maintenance contract at half price for 12 months.** A regular rate for this contract is 340 €/month (with 2 maintenances/year – each for 2 days). With this option the rate will be reduced to the half for the first year. Attention: beside the monthly rate there is a fixed travelling rate for each visit.

- + **Voltage other than 400V 50Hz 3Ph**

mitablock 450

The mitablock 450 is a fully automatic hotmelt section gluing machine for the production of lay flat book blocks – especially suitable for oversize book blocks (up to 460 mm x 460 mm). This type of block production is particularly useful for the production of albums, photo books, or small runs of cardboards books for kids. Due to its small machine dimensions and comparatively low speed, the mitablock 450 is ideal for getting into the layflat business, or as a backup, or to produce large-format books.

Special features

- + The machine is equipped with a pile feeder for the printed sheets and a separate feeder for cardboards
- + Support for different paper and board thickness and quality of paper
- + Very thin hotmelt full surface roller glue application (below 20 g/m²)
- + The exact alignment is ensured by a sensor-controlled readjustment of each individual folded sheet
- + The operation is done by one operator

Options

- + Inline pressing station
- + Offline pressing station



Technical specifications

Production speed	up to 600 sections per hour (without carton) depending on format up to 420 sections per hour (with carton) depending on format
	Example-section length – speeds: Section length 304,8 mm (12"): A = 7,8 s B = 6,2 s C = 18,0 s Section length 406,4 mm (16"): A = 9,0 s B = 6,8 s C = 19,0 s Section length 609,6 mm (24"): A = 12,0 s B = 9,0 s C = 19,0 s Section length 914,4 mm (36"): A = 15,0 s B = 10,0 s C = 19,0 s <i>A = Time from start until suck in of the 2nd sheet</i> <i>B = Time between 2 sheets (suck in / suck in)</i> <i>C = Time from suck in of the last printed sheet until ejection of the blocks</i>
Open sheet format (standard) H x W	min. 152 mm x 305 mm max. 460 mm x 920 mm
Intermediate cardboards format H x W	min. 152 mm x 152 mm max. 460 mm x 460 mm
Paper thickness	min. 0,15 mm max. 0,30 mm
Paper grammage	min./max. depending from paper texture (details after sampling)
Cardboard thickness	min. 0,35 mm max. 1,00 mm
Electrics	2 KW, 220 V, 50 Hz
Air consumption	100 NI/min. at (6 bars)
Glue consumption	approx. 15 – 20 g/m ² (depending on paper-/cardboard surfaces)
Floor space	2,30 m x 0,9 m
Weight	approx. 650 kg

Technical specifications subject to change without notice



Options of the section gluing machine „mitablock 450“

- + **Offline Pressing Station** for pressing of book blocks after gluing. Blocks can also be pressed in stacks
- + **Inline Pressing Station** replaces the standard delivery, whereby the glued blocks are pressed again over the full surface. Also available as retrofit
- + **Barcode check** on each signature. This enables for changes in the machine setup as well as control over pertinence and correct sequence. Through the given information regarding the total number of signatures, the book block is completed accordingly and is then released
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals
- + **Service and maintenance contract at half price for 12 months with 4+1 maintenances/year each 2 days**
The signing of the maintenance contract is mandatory when ordering the machine. For the first 12 months the monthly flat rate is reduced to 50 % (regular 840 €/month). After these 12 months the reduction will no longer be applied. Apart from the monthly flat rate, there are additional costs for each journey (flat rates for journeys), which cannot be reduced
- + **Voltage other than 200V 50Hz**

mitatrim

mitatrim is a 3-side, single knife, trimmer for the automated trimming of perfect-bound products like hard cover book blocks, soft cover books, and layflat book blocks. The machine is constructed to be connected in line with a perfect binder or a lay flat section gluing machine. Unlike trimmers with 3 cutting stations, the mitatrim is equipped with one knife only. A gripper system takes the product to the respective cutting position by rotation.

The mitatrim is operated via an ergonomically positioned 18.5" touch screen display. Repeat sequences can be stored and trimming recalled at any time. The set-up time is reduced to nearly "zero".

Special features

- + Outstanding cutting accuracy
- + Inline connection possible
- + Format size variable from product to product – no conversion at all needed
- + Large format range
- + 18.5" touch screen: clearly arranged and very easy to operate
- + Programming in less than 1 minute thanks to menu-guided input
- + Multiple settings to optimize the production

Options

- + Inline connection to binder or mitablocks
- + HSS knives
- + Waste container



Technical specifications

Performance	Single block:	220 books/h
	Multiple block:	520 books/h
Block size untrimmed (Width x height x thickness)	min.	20 x 152 mm x 3 mm
	max.	305 x 330 mm x 51 mm
Book block size trimmed	min.	105 x 148 mm
	max.	297 x 325 mm
Top/Front/Bottom trim	2 mm – 100 mm	
Pile height aligning gauge	max. 550 mm	
Clamp pressure	min.	200 daN
	max.	600 daN
Electrics	1.8 kW, 400 V, 3 PNE, 50 Hz	
Air consumption	380 NI/min. (6 or 8 bar)	
Floor space	1,83 m x 2,22 m x H 1,65 m	
Weight	1'200 kg	

Technical specifications subject to change without notice



Options of the 3-side-trimmer „mitatrim“

- + **2 hard metal knives** instead of 2 HSS knives
- + **HSS knife**
- + **Hard metal knife**
- + **Hard metal knife-Premium** (anti-stick knife)
- + **One kit cutting sticks** (10 pcs)
- + **In-line connection to binder / layflat gluing unit (depending on machine and layout)**
- + **Waste container**
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals
- + **Service- and maintenance contract**
- + **Voltage other than 400V 50Hz 3Ph**

mitatrim PRO

mitatrim PRO is an automatic 3-knife trimmer that can be installed in line with a perfect binder or hand-fed as a standalone solution.

Operation

On the way to the cutting center, the barcode or data matrix code is read and all product information is automatically transferred to the control system. All format and thickness relevant components of the machine are adjusted automatically by servomotors. No changing parts like pressing plates need to be. Before entering the first front cutting station the book block or soft cover book is precisely aligned. In the subsequent second cutting station, the head and tail cut is executed.

Special features

- + Precise cutting
- + Ease of operation
- + Rapid motorized size change
- + Heavy-duty construction

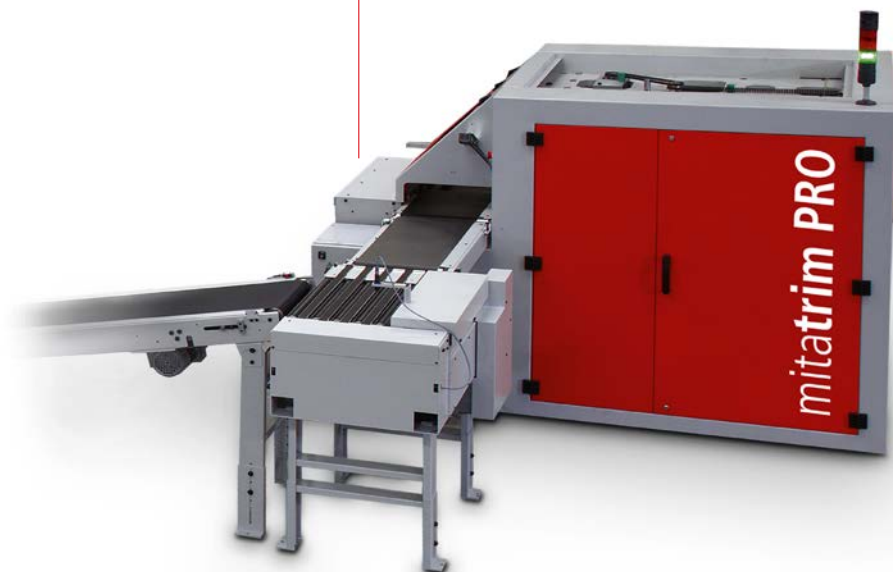
Options

- + Left-side infeed
- + Inline connection to binder or mitablocks
- + Barcode reader
- + Silicon-spraying system
- + Waste extraction belt



Technical specifications		
Production speed	up to 800 cycles/h	
Book size untrimmed	Width	110 – 330 mm
	Hight	160 – 390 mm
Book size trimmed	Width	100 – 320 mm
	Hight	150 – 380 mm
Book thickness	3 – 60 mm	
Electrics	12 kW, 400 V, 3 PNE, 50 Hz	
Air consumption	1'800 NI/min. (6 bar)	
Floor space	1,89 m x 2,30 m	
Weight	approx. 3'000 kg	

Technical specifications subject to change without notice



Options of the 3-knife-trimmer „mitatrim PRO“

- + **Left-side infeed**, instead of standard right-side infeed.
- + **Barcode reader** for automatic size adjustment with pre-set sizes.
- + **Silicon-spraying system at head-and tale knives**
- + **Silicon-spraying system at all knives** – this option is intended especially for the combination with hotmelt lay flat machines
- + **Waste extraction belt** to transport the cut-off directly into a waste box
- + **Connection belts** for the inline connection with the perfect binder mitabind
- + **Additional set of knives**
- + **Knife sticks** (10 for side knives and 10 for front knife)
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals
- + **Service and maintenance contract at half price for 12 months** a regular rate for this contract is 340 €/month (with 2 maintenances/year – each for 2 days). With this option the rate will be reduced to the half for the first year. **Attention:** beside the monthly rate there is a fixed travelling rate for each visit
- + **Voltage other than 400V 50Hz 3Ph**

mitacase

The mitacase is an automatic casemaker for the cost-effective production of hardcover book cases in short to medium quantities. The machine produces cases utilizing hot animal glue. All functions like feeding the case components and full surface gluing are automated. Through the complete production cycle, all components are held firmly with the result of perfect quality cases.

Special features

- + Automatic feeding of side boards, spine and cover material
- + Ease of operation by motorized size change via touch screen
- + Operation by one person
- + Integrated hot animal glue application
- + Mechanical folding stations

Options

- + Automatic viscosity control
- + Double sheet detection
- + One-piece cases
- + Flexible spine



Technical specifications

Production speed	up to 7 cases / minute
Finished case size (W x H)	min. 223 mm x 125 mm max. 800 mm x 405 mm
Cover material (W x H x T)	min. 250 mm x 155 mm max. 850 mm x 450 mm x 1 mm ¹⁾
Board dimensions (W x H x T)	min. 100 mm x 125 mm x 1 mm max. 385 mm x 405 mm x 5 mm ²⁾
Spine (W x H x T)	min. 7 mm x 125 mm x 1 mm max. 70 mm x 405 mm x 5 mm
Turn-in (up/down and side)	min. 15 mm ³⁾ max. 20 mm
Size change	1 – 5 minutes
Electrics	12 kW, 400 V, 3 PNE, 50 Hz
Air consumption	800 NI/min. (6 bar)
Water consumption	1,5 liter/h
Floor space	2,95 m x 2,67 m (H 1,80 m)
Weight	approx. 2'900 kg

1) depending on the material flexibility – then note the turn-in

2) max. width of the boards leads to limitations in the spine and fold due to the max. size of the finished case

3) smaller is possible, depending on material flexibility

Technical specifications subject to change without notice



Options of the automatic casemaker machine „mitacase“

- + **Automatic viscosity control** the viscosity of the glue is permanently checked by a viscometer which automatically controls the water supply
- + **Double sheet detection** a sensor checks the thickness of the cover material. In case of a double sheet, the machine stops and the misfed sheet can be removed with-out damage
- + **One-piece cases** with a modified cover feeder, it is possible to remove side guides from the spine board feeder and the inner side guides of the side boards. This allows to load cardboards covering the full size of the book cover
- + **Flexible spine** This option consists of a roll feed attachment with longitudinal and cross cutting. This unit is installed above the board feeder
- + **Corner cutter** this is a foot-operated corner cutter to prepare the cover material in preparation for the case-making operation. The machine does not require any installation, has no electrical connections
- + **Semi-automatic board cutting machine** this machine can be used to cut center strips and side boards for book cases. Precise, accurate cuts can be achieved thanks to the computer controlled single-piece cut
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals
- + **Service and maintenance contract at half price for 12 months** a regular rate for this contract is 340 €/month (with 2 maintenances/year - each for 2 days). With this option the rate will be reduced to the half for the first year. **Attention:** beside the monthly rate there is a fixed travelling rate for each visit
- + **Voltage other than 400V 50Hz 3Ph**

mitabook

The mitabook is a fully automatic hardcover casing-in machine, specially designed to economically produce digitally printed hardcover books like photo books and personalized children's books in short to medium quantities.

Special features

- + The wingless casing-in concept avoids marks and scratches on the sensitive images in books. PUR adhesive-bound book blocks can be processed even before the full hardening of the adhesive
- + Only one operator is necessary to feed book blocks, cases, and to take off the finished books, which are pressed and formed in the joint area
- + Simple operation with motorized rapid size change using a touch screen. Storage of formats to enable reproductions with absolute precision after size change
- + Automatic on the fly adjustment for varying book block thicknesses

Options

- + Barcode verification
- + Additional hot melt application in fold area
- + Measurement of book block thickness and spine width for variable number of pages
- + Heated joint forming station



Technical specifications

Production speed	up to 7 books / minute – depending on size
Format change	1 – 2 minutes
Book block (W x H x T)	min. 145 mm x 125 mm x 2 mm max. 350 mm x 410 mm x 40 mm
Open case (W x H x T - spine)	min. 320 mm x 130 mm x 1,5 mm – 6 mm max. 750 mm 420 mm x 5 mm – 45 mm
Finished book (W x H x T)	min. 150 mm x 130 mm x 6 mm max. variable*) x 420 mm x 45 mm
Electrics	7 kW, 400 V, 3 PNE, 50 Hz
Air consumption	110 NI/min. (6 bar)
Floor space	2 m x 2,6 m
Weight	approx. 1'000 kg

*) Limitation as a result of spine width and max. open case size.
Maximal book width: 368 mm (at minimum spine-width)

Technical specifications subject to change without notice

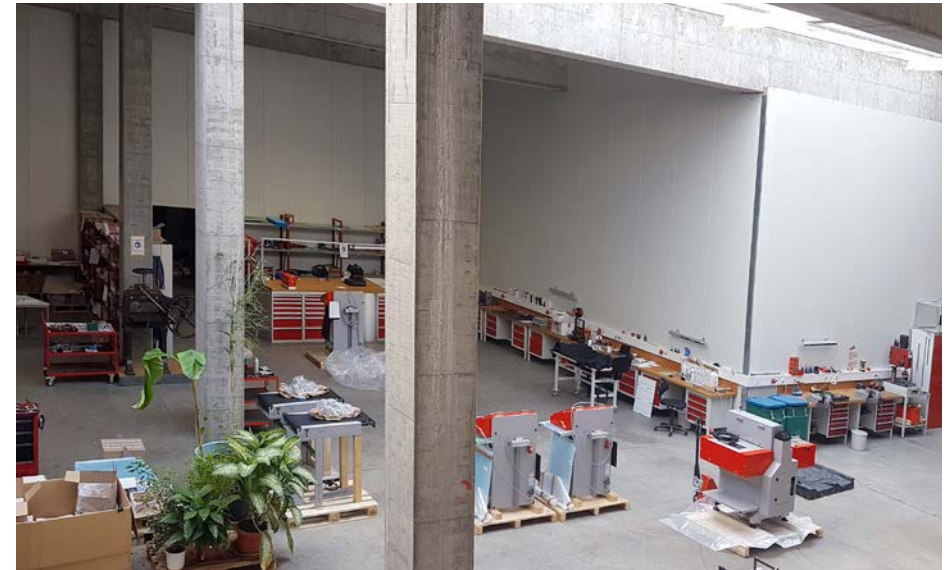


Options of the casing-in machine „mitabook“

- + **Barcode recognition** on case feeder and book block feeder to ensure correct matching of components
- + **Additional hot melt application in fold area** with this additional glue line in the folding area of the open cover a strong hold of the book block in the cover and a very pronounced fold on the completed book are achieved
- + **Measurement of book block thickness and spine board width in book case** with this option it is possible to produce books of same size, but with varying block thickness and corresponding spine inlay, without interruption. When measuring the book block thickness and width of back lining for each product, the machine automatically adjusts to the new dimension and repositions to the new setting of glue application, closing of the cover and resetting pressing station on the fly without interruption. This makes the continuous production of books without presorting or loss of production time due to not having to reprogram the variation of book thicknesses
- + **Heated joint forming station mitaform** at the delivery of mitabook
Independent adjustment of temperature, pressing time and pressing pressure
- + **Stacking table** as replacement of mitaform book delivery to automatically produce stacks of finished books in the desired quantity of pieces
- + **Feed belt** for book blocks with varying thickness
- + **Expert technical training** for instruction of specialized technical personnel. The goal is to become independent in problem recognition and solving. In addition to a functionality and operational overview, a general insight to the mechanical, electrical and control system of the machine is also given. This training is separate from standard operator instruction and only meant for technical professionals
- + **Service and maintenance contract at half price for 12 months** a regular rate for this contract is 340 €/month (with 2 maintenances/year – each for 2 days). With this option the rate will be reduced to the half for the first year. **Attention:** beside the monthly rate there is a fixed travelling rate for each visit
- + **Voltage other than 400V 50Hz 3Ph**

Our Digibook Service GmbH team in Leipzig Germany is responsible for the entire range of machines.

- + The engineering department constructs and produces our perfect binders, mitabind and mitabind PRO as well as our trimmers mitatrim and mitatrim Pro. The entire process, from development to finished product lies in one hand.
- + The technical service on our machines includes on site installation at our customers' premises. After installation the operators are trained for machine operation as well as maintenance, error prevention and troubleshooting.
- + Regular maintenance guarantees the availability of the machines and ensures regular production capability.
- + For technical questions regarding our machines, we use our Digibook ticket system. Problems can be reported via e-mail by using the address support@digibook.tech. As these are received, they get analyzed and then processed in writing, by telephone or video call directly by the service team.
- + Spare parts, consumables such as glue or auxiliary products such as special cleaning compounds can be ordered via e-mail at service@digibook.tech.
- + For the presentations of our machines, from perfect binding to casing-in, we are making an increasing use of online/video presentations. Modern camera equipment allows to show how the machines work from various angles and with different settings. Mobile camera equipment makes it possible to separately present all productions steps of each machine.
- + We produce samples for our acquired and potential customers and partners – often with their own materials. This service also includes the continuous maintenance of our media reference list, where qualified media are listed, especially for products of the finishing sector such as layflat book blocks.
- + The Digibook Service team also offers support to our customers with on-site production assistance. Hereby our service technicians are temporarily part of the customer's operator team.
- + Additional on site operator training, at customers' plants or in our showroom in Leipzig, completes the range of services offered by Digibook Service GmbH.



service

www.digibook.tech

Sales & Administration

Digibook Technology Sagl

Via Angelo Maspoli 21
CH - 6850 Mendrisio, Switzerland
T +41 91 6467930 • F +41 91 9932250
info@digibook.tech

Service & parts

Digibook Service GmbH

Steinbergstrasse 3
DE - 04288 Leipzig, Germany
T +49 (0) 34297 919709,
service@digibook.tech

North America

Digibook Technology USA, Inc.

7905 North Route 130
Pennsauken, NJ 08110, USA
T +1 (888) 5045405
info@digibook.tech



digibook⁺
technology