Libra 800
Real Book on Demand

Technical Specifications

Finished Book

Soft cover size	3.93." x 5.11"(H) to 11.69" x 12.00"(H) 100 x 130(H) mm to 297 x 305(H) mm	
Hard cover size	3.93" x 5.11"(H) to 11.69" x 11.69"(H) 100 x 130(H) mm to 297 x 297(H) mm	
Thickness	0.08" - 2.36"	2 - 60 mm
Paper weight	60 - 250 gsm (when input from 2-up roll max 120 gsm)	40# text - 10.5 pt

Book Block

Size	5.51" x 5.51"(H) to 12.20" x 12.40"(H) 140 x 140(H) mm to 310 x 315(H) mm	
Thickness	0.08" – 2.36"	2 - 60 mm

Soft Cover

Size	11.02" x 5.51"(H) to 26.77" x 12.59"(H) - 280 x 140(H) mm to 680 x 320(H) mm	
Paper weight	200 - 300 gsm	75# - 110# cover
Type	coated / laminated paper	

False Cover

End sheets	5.90" x 7.48" (H) to 12.00" x 12.00"(H) - 150 x 190(H) mm to 305 x 305(H) mm	
End sheet weight	standard up to 150 gsm	standard up to 55# cover
False cover size	11.81" x 7.48" (H) to 24.40" x 12.00"(H) - 300 x 190(H) mm to 620 x 305(H) mm	

Productivity

Soft covers production:	up to 800 books per hour
Hard cover production:	up to 400 books per hour

Floor Plan
Depends on the line configuration

	Length	Width	Height
BINDER with input conveyor & cover system	232" 5900 mm	154" 3900 mm	79" 2000 mm
TRIMMER	150" 3800	98" 2500	79" 2000

Power & Air Requirements

400 V, three phase, 4000 Nl/h (each, binder & trimmer)

TECNAU
w w w . t e c n a u . c o m

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Book On Demand Solutions
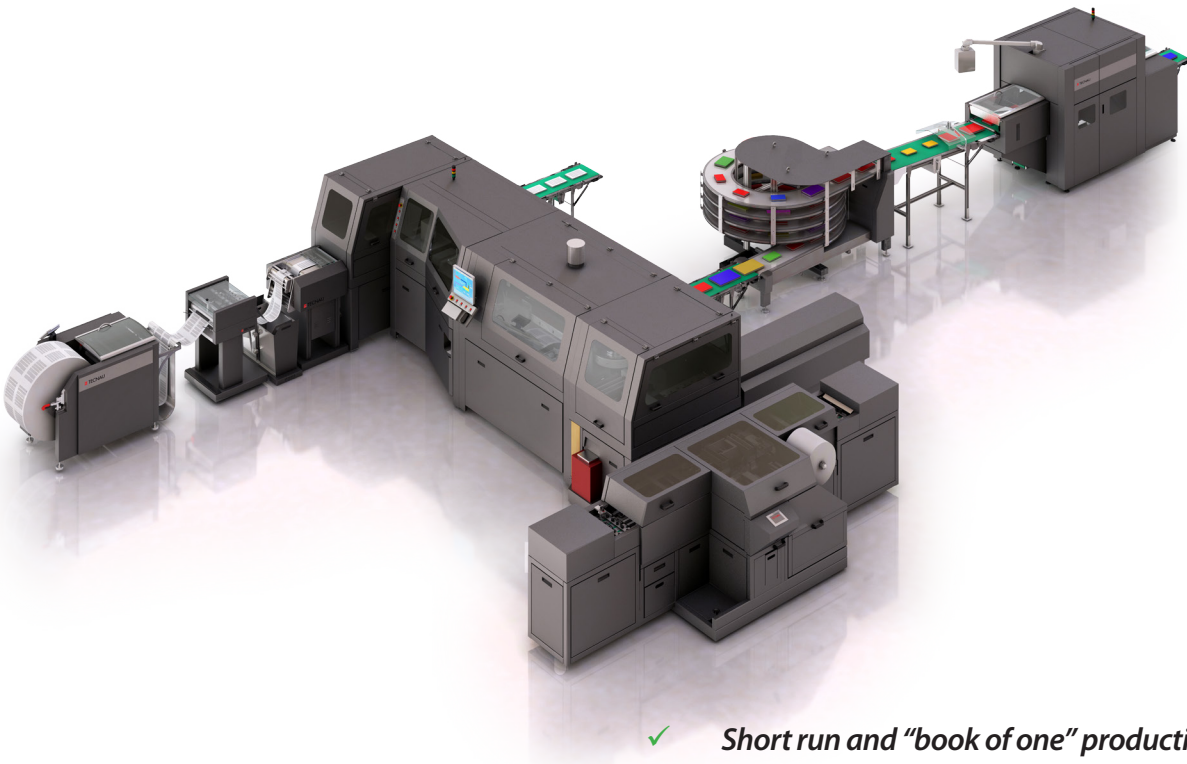
Versatile and configurable

book production

✓ **Short run and "book of one" production**

✓ **Book dimensions variable in L/W/H**

✓ **Soft cover and hard cover preparation**

✓ **Variable binder**

✓ **Variable three-side trimmer**

Assemble books on demand from high-speed digital print, each book unique from one to the next in width, length, thickness and cover type. Libra™ 800 provides full flexibility and high productivity: it is the ideal finishing solution for short runs, personalized books and books on demand, with productivity up to 800 books per hour.

Input for the system may be provided from a single roll unwinder, Tecnau's Zero Speed Splicer u40, and/or pre-assembled book blocks. The assembling & mixing station allows two books to be produced at the same time. Book blocks are either perfect bound with soft covers (standard or with flaps), or false covers (end sheets and gauze) are added in preparation for off-line case binding.

Tecnau's Libra 800 software controls sequencing and composition of each book, ensuring book integrity and avoiding human error.

Tecnau solutions increase productivity, cut labor and paper costs, and even make new applications possible. Global service and around-the-clock support help ensure our reputation as the industry's reliability leader. Innovative products combined with award winning support and service make Tecnau the essential partner for your print operation.

TECNAU
Empowering Digital Print

CONFIGURATION EXAMPLES:

LIBRA 800 - LINE COMPOSITION

| 1	Dual or single paper input from roll: Unwinder - Merger - Dual Cutter (2-up printing mode)
2	Book block manual/automatic input
3	Assembling & mixing station
4	Transport with loading robot to binder
5	Variable perfect binder
6	Soft cover-maker system (feeder, cutter, scoring & folding system)
7	False cover-maker system: end sheet feeder, cut & trim; gauze unwinder, cut & trim; gluing system
8	Cooling tower
9	Output conveyor
10	Variable three side trimmer
11	System control software
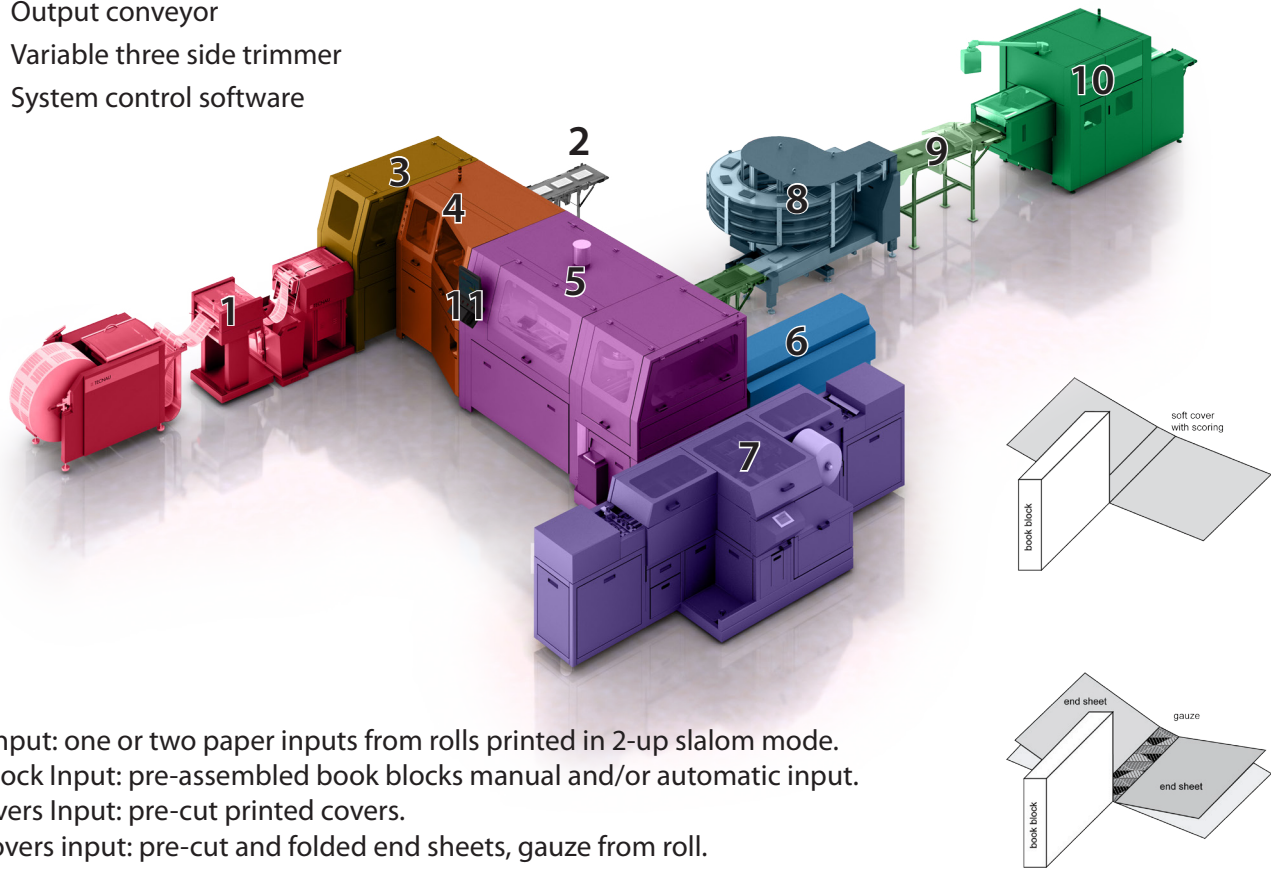
INPUT
Paper Input: one or two paper inputs from rolls printed in 2-up slalom mode.
Book Block Input: pre-assembled book blocks manual and/or automatic input.
Soft covers Input: pre-cut printed covers.
False covers input: pre-cut and folded end sheets, gauze from roll.

BOOK COMPOSITION
The rolls are cut in pages at the required length, defining the books length dimension.
There are two methods for book composition:
• two books can be produced at the same time (one book cut by each cutter) for maximum productivity.
• one book is produced in one input line and inserts or photographic color pages are cut in the other input line for maximum graphic quality.

SOFT COVER
The covers are fed, scored, appropriately cut and, if required, folded to match the book.

FALSE COVER
The preparation for hard cover books is done by gluing together the two end sheets with the gauze, all appropriately cut and trimmed to match the book size and thickness.

PERFECT BINDER
The cover matches the book block, it is glued with PUR technology on the spine & hot melt on the sides.

COOLING TOWER
The books are cooled on the cooling station for up to 12 minutes.

THREE-SIDE TRIMMER
The automatically-adjustable three knife trimmer cuts each book down to the final size..

FRONTAL TRIMMER (optional)
Book with flaps are processed in the frontal trimmer to cut appropriately the front side.

OUTPUT CONVEYOR
The finished books exit on the output conveyor.

SYSTEM CONTROL
The entire process is controlled via 2D code, printed on pages and covers. This information drives the system and keeps control of book integrity.
A touch screen display starts and controls the system, selects the input line, sets up each module, and displays errors and alarms. The PC stores records of productivity and error conditions. The line can operate fully automatically or via manual/automatic feeding of already composed book blocks to be bound and finished.

BOOK CODIFICATION
Input from roll: each page can have a printed code to ensure the verification of the book composition, the control of the binder (spine position, thickness and length) and the cover matching.
Input from book block: the code can be printed on the last page only and it relays information to the binder for the book size and to the cover-maker system for the cover preparation (scoring and side slitting) and the correct book matching.

COVER CODIFICATION
The code printed on the cover ensures the correct matching with the book block, controls the three-side trimmer and, in case of cover with flaps, the frontal trimmer.

LIBRA 800 EXAMPLES OF POSSIBLE CONFIGURATIONS	ex. SOLUTIONS			
	A	B	C	D
Dual input paper channel from roll with variable book assy and transport to binder	x			
Single input paper channel from roll with variable book assy and transport to binder		x		
Manual input from pre-assembled book-blocks		x	x	
Automatic input from pre-assembled book-blocks			x	x
Variable binder with loading robot, soft cover feeder with cutter and scoring system	x		x	
Variable binder with loading robot, false cover making system		x		x
Cooling tower	x	x	x	x
Variable three-side trimmer	x	x	x	x
Variable frontal trimmer (in case of books with flaps)	x			
Variable frontal trimmer (in case of books with flaps)	x	x	x	x

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