



TECNAU

EMPOWERING
DIGITAL PRINT

LIBRA 800

UP TO 800 BOOKS/HOUR

THE ULTIMATE FINISHING EXPERIENCE
SHORT RUNS AND BOOK OF ONE PRODUCTION

OPEN UP NEW OPPORTUNITIES

- ▶▶ Explore niche segment of book printing
- ▶▶ Personalized books and limited editions

STREAMLINE YOUR WORKFLOW

- ▶▶ Produce shorts runs efficiently
- ▶▶ Eliminate inventory and unsold output

A RESPONSE TO DECLINING VOLUMES

- ▶▶ Cost-effective approach for book runs up to 2,500 books/title

REDUCE INVENTORY AND WASTE

Publishers, distributors and book shops can order smaller stocks or even single copies in order to reduce time to market, dramatically drop inventory and create new market opportunities with niche publications, new authors and the backlist. Choose among a number of alternative lines for production of book blocks and finished books to best match your operation.

Today digital printing offers increasing opportunities to both broaden market reach and optimize production processes.

Libra 800 has continuously evolved to respond to the demand for flexibility, automation and productivity necessary to exploit the benefits of digital printing technology.

Building on the Libra VB Variable Binder and Libra VT Variable Three-side Trimmer, Libra 800 enables an integrated book factory, with versatile configuration options, from roll or sheet-fed feeding alternatives on the front-end to varying book-finishing alternatives on the back-end.

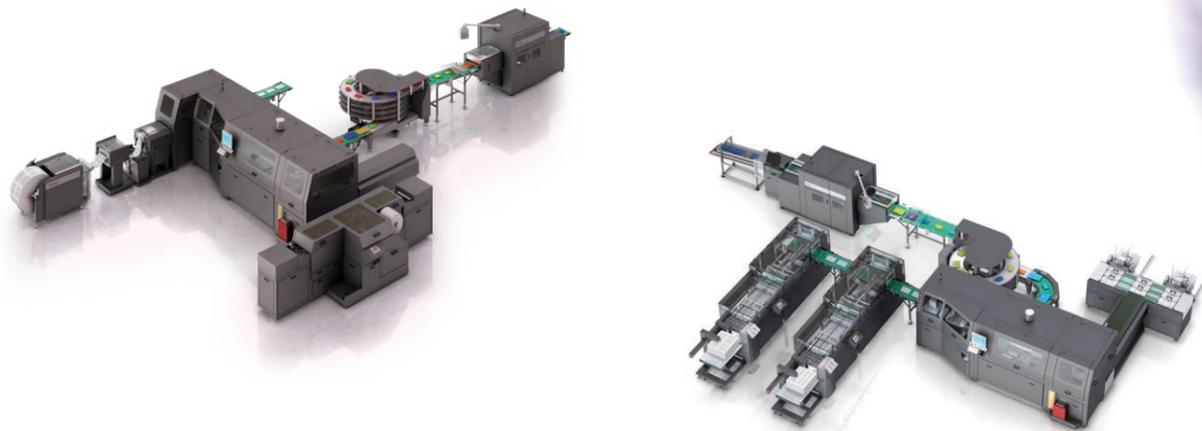
WORKFLOW AND LOGISTIC OPTIMIZATION

Libra 800 makes it possible to reorganize book production workflow by printing only the books actually sold, producing books by contract rather than by format, batching jobs by priority or geographical destination instead of by size, in order to optimize internal and external logistics.

Real Book on Demand

Full flexibility and high productivity

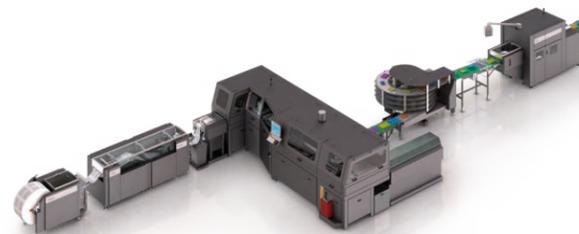
- ▶ Fully automated solution
- ▶ Short run and "book of one" production
- ▶ Book dimensions variable in L/W/H
- ▶ PUR or Hotmelt glue system
- ▶ Soft cover and soft cover with flaps
- ▶ Hard cover preparation
- ▶ Cover making process fully automated
- ▶ Fully variable heavy duty Three-Knife Trimmer



Highly configurable and customizable solution



Awarded as the best book on demand post print solution 2018



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.

MAX SPEED: 800 BOOKS/hour

Smart Book Production

Book Size Change on the Fly

THE ULTIMATE FINISHING EXPERIENCE

LIBRA VB Variable Binder & LIBRA VT Variable Three-Knife Trimmer change book format on the fly with zero make-ready time.

Throughput is not affected by book format and job variability is available in all 3 dimensions allowing a complete workflow optimization without job "ganging" required, for an improved overall process.

**FINISHED BOOKS
READY TO BE SHIPPED**



From Start To Finished Book

Fully automated and highly customizable solution

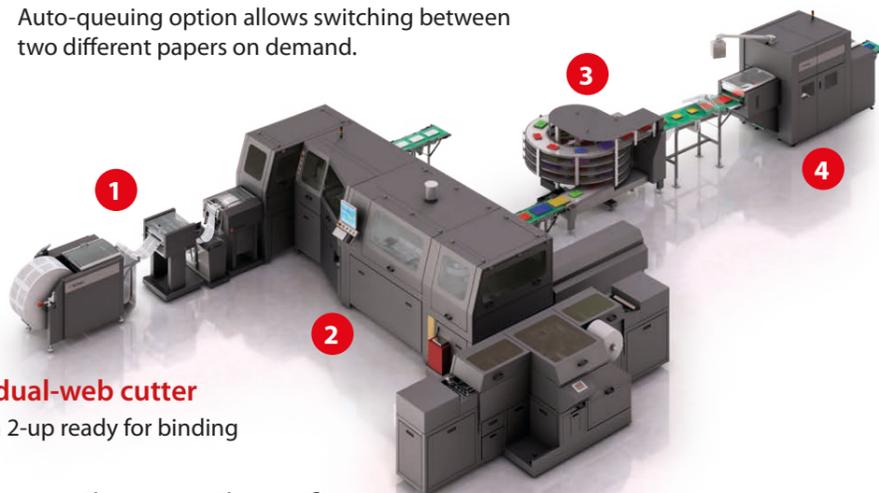
Tecnau offers production lines supporting both continuous web and cut-sheet for fully variable book binding and variable three-knife-trimming solutions, with a multitude of infeed alternatives



The Zero Speed Splicer u40

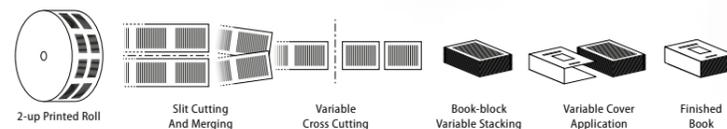
Automatically changes input rolls, thus eliminating printer stoppages for roll changes and keeping your printer running at full speed and full productivity.

Auto-queuing option allows switching between two different papers on demand.



1 Unwinder with slit merge & dual-web cutter

For 20" or 30" paper rolls printed in 2-up ready for binding



2 LIBRA VB Variable Binder

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 offline case binding.

Covers matching the book-blocks are glued with PUR or Hot-MELT technology depending on the configuration selected.

3 Cooling Tower

PUR glued books ready for trimming cool up to 12 minutes before entering the three-knife trimmer for automatic on-the-fly cut to size finishing.

The specially designed long tower path allow glue cooling after binding, thus avoiding book damage during the trimming stage.

4 Libra VT Variable Trimmer

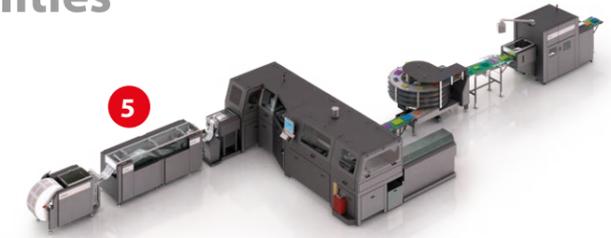
Three-knife trim a broad range of book sizes and thicknesses without operator adjustments. A fully automated on-the-fly system reads a barcode printed on each book cover to cut every single book with no operator intervention.

A special FRONTAL TRIMMER is available as an option on the Libra VT system for books with flaps finishing.

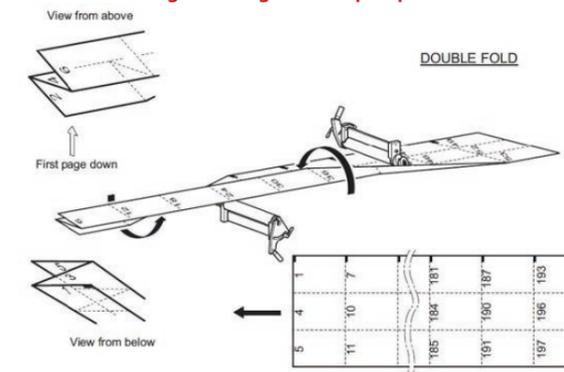
Alternative input capabilities

5 Roll to StreamFolder

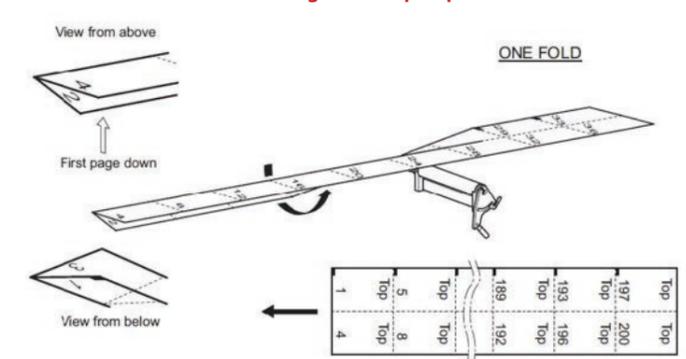
4/6 page signatures, stacked and separated, merged to one stack. Z-fold signatures for increased reliability, superior book quality and no page curl



Single folding with 2-up imposition

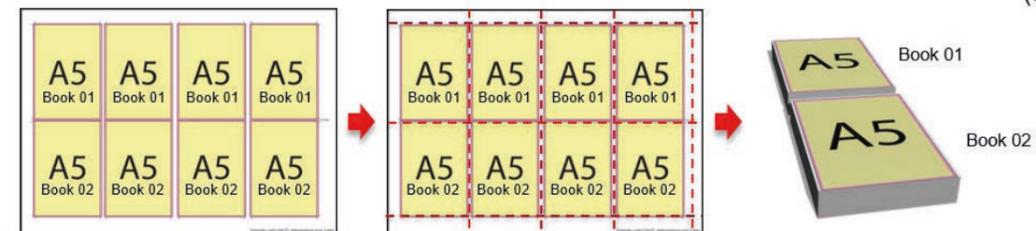
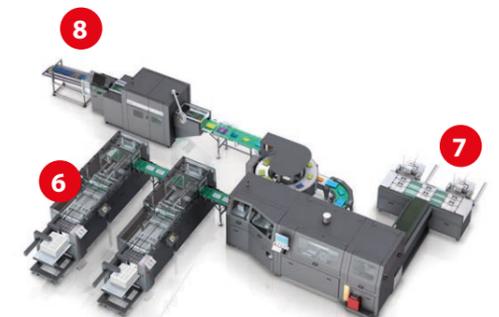


Double folding with 3-up imposition



6 Sheet-fed B2 Input Channel

The sheet-fed Libra 800 B2 dynamic book block cutting and gathering system can process paper up to 50x70 cm (19.7"x27.8"), B2 format. The system is extremely versatile and can automatically handle the parameters for various formats, ranging from A5 to 17 x 21 cm (6.7"x8.3") and from 21 x 21 cm (8.3"x8.3") to A4, both in landscape and album format. Multiple input channels can be configured for improved performances and further variability.



7 Multiple Soft Cover Maker

With this solution, up to three inputs are configurable. The system selects the proper channel and automatically trims and scores the book cover to properly match the book-block size inside the central binding unit.

8 Exit Conveyor

Finished trimmed books are diverted on different conveyor levels according to easily adjustable parameters. Book output may be arranged by book type, dimensions or order ID.



Cover Preparation

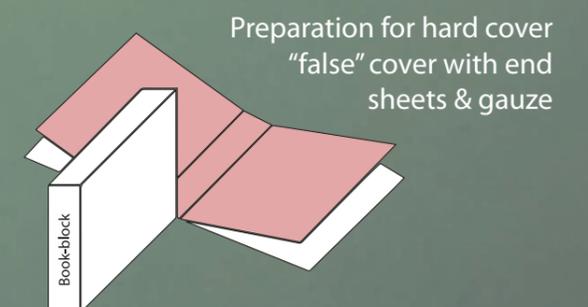
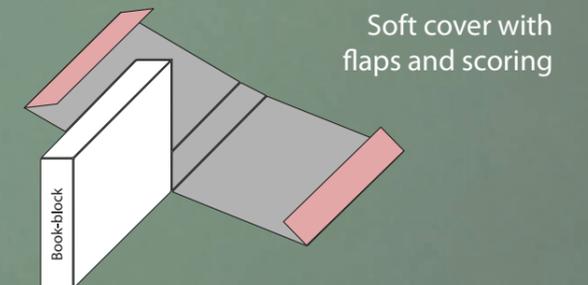
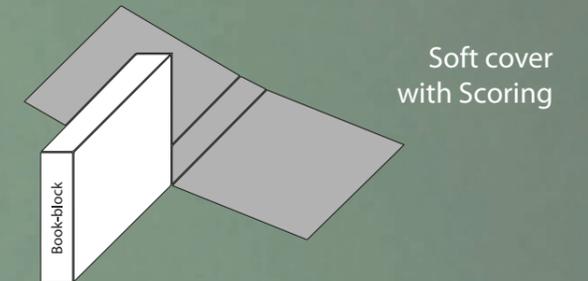
Patented Process

LIBRA VCM Variable Cover Maker feeds covers from A3+ size:

- ▶▶ CUT
- ▶▶ SIDE TRIM
- ▶▶ SCORE

OPTIONAL folding module for "French flaps" while still accommodating book trimming

LIBRA FCM False Cover Maker Pre-folded end sheets of standard size can also be cut, side trimmed and glued with variable gauze strip for offline case binding



The new LIBRA 800 offers additional flexibility and enhanced specifications to support the widest range of applications for short runs and book of one productions.

TECNAU CONNECT

Tecnau Connect is a control software which records every activity performed by the line, from both technical and productivity perspectives.

OPERATIONS. The system is controlled through a central PC station which facilitates the operation of a complex system.

CONTROL. Output integrity is very important and becomes key in short runs and book of one production. The system verifies, via 2D code, correct composition of each book, cover matching, job completion. In case of deviation an alert is generated and operator intervention required.

SUPPORT. Tecnau engineers can connect remotely and verify the status of the line, review log files and error reports, guide the operators and local service technicians towards problem solving.

STATISTICS. Reports are generated based on production statistics for operations and preventive maintenance.

REMOTE
SUPPORT &
DIAGNOSTIC

DATA TRACKING
FOR PRODUCTION
STATISTICS

DATA TRACKING
FOR PREVENTIVE
MAINTENANCE



BOOK & JOB
INTEGRITY
CONTROL

TRACK SYSTEM
LOG AND
OPERATOR
ACTIVITY

CUSTOM
INTEGRATION TO
CUSTOMER MIS

FIELD PROVEN TECHNOLOGY

PROVEN PERFORMANCE & RELIABILITY

LIBRA 800 technology is proven in production environments with 24/7 operations. Multiple lines are installed in multiple countries producing a combined output of over 20,000,000 books per year.

LIBRA 800		
Feeding	Continuous form or book blocks	
Web width	max 775 mm (30.5") with StreamFolder max 660 mm (26") with Slit&Merge	
FINISHED BOOKS		
Paper weight	min 65 gsm (45# text)	max 130 gsm (90# text)
Width	min 100 mm (3.9")	max 300 mm (11.8")
Height (spine)	min 130 mm (5.1")	max 305 mm (12")
Thickness	min 2 mm (0.079")	max 60 mm (2.36")
LIBRA VCM - VARIABLE COVER MAKER		
SOFT COVER		
Cover weight	max 250 gsm (94# cover)	
Width	min 280 mm (11")	max 520 mm (20.5") max 680 mm (26.77")*
Height (spine)	min 145 mm (5.7")	max 320 mm (12.6")
FALSE COVER		
Sheet weight	up to 150 gsm (55# cover)	
Width	min 305 (12")	max 680 mm (26.7")
Height (spine)	min 190 (7.5")	max 305 (12")
End Sheets		
width	min 150 (5.9")	max 230 mm (9.06") max 310 (12.2")*
Height (spine)	min 190 (7.5")	max 305 (12")
Imposition	1-up & 2-up; 3-up & 4-up	
LIBRA VT - VARIABLE THREE-KNIFE TRIMMER (Stand Alone)		
RAW BOOKS		
Width	min 120 mm (4.7")	max 350 mm (13.8")
Height (spine)	min 130 mm (5.1")	max 400 mm (15.7")
Thickness**	min 2 mm (0.079")	max 60 mm (2.36")
FINISHED BOOKS		
Width	min 100 mm (3.9")	max 320 mm (12.6")
Height (spine)	min 130 mm (5.1")	max 360 mm (14.2")
Thickness**	min 2 mm (0.079")	max 60 mm (2.36")
Trimsize***	min 2 mm (0.079")	max 60 mm (2.36")

*at reduced speed

**Above 60 mm requires application review

*** On front edge, multiple cuts are possible at reduced speed

Tecna offers a complete product portfolio dedicated to paper handling, monitoring, processing and finishing for the digital printing industry.

We provide integrated solutions to support the broadest array of applications for Transactional Printing, TransPromo, Direct Mail, Publishing, Graphic Arts, Book on Demand and Short Run.

Our products are compatible with today's most advanced digital printers and can be adapted to meet your printing needs. We maintain vital product development partnerships with our customers and every major printer manufacturer.

Our history and background in industrial automation opens the door to customized solutions to support specific requests. Several of our products were inspired by customer requests: technology meeting unsolved needs may give rise to the most surprising and advanced innovations. We put at your disposal our engineering skills; indeed, this is how we innovate.

More information available at www.tecna.com

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