

LX Perfect Bind



The LX Perfect Bind solution for Muller Martini SigmaBinder includes the LX550 Unwind, LX561 Cutter, LX566 Stacker and conveyor system.

- **Perfect bound books created in-line**
- **Lightweight compatible**
- **Easy application changes**

Perfect binding, perfected

Print on demand with the ultimate in ease and flexibility. The LX Perfect Bind solution works with the Muller Martini SigmaBinder to provide in-line perfect binding of books, manuals and training materials. The finished result is a custom made, ready-to-use perfect bound book, delivered when required.

The modular LX Perfect Bind system provides maximum flexibility and upgrade options to meet future needs in a rapidly changing Print On Demand marketplace. In addition to in-line perfect binding, LX Perfect Bind provides stacked output for distribution or near line finishing, depending on your applications. Book blocks can be delivered 1-up, 2-up or 3-up.

As with all of our products, the LX Perfect Bind solution is compatible with today's most advanced digital printers and can be adapted to meet your printing needs. Global service and around-the-clock support help ensure our reputation as the industry's reliability leader. Count on Lasermax Roll Systems to help you do more with digital print.

LX Perfect Bind

The LX Perfect Bind solution for Muller Martini SigmaBinder uses the LX550 Unwind, LX561 Cutter and LX566 Stacker and conveyor system to create perfect bound books inline.

The center-shaft driven LX550 Unwind feeds a roll of paper up to 20.5" wide and 52" in diameter into the printer for continuous printing. Once the paper is printed, the LX561 Cutter uses a rotary knife to cut printed output to the desired length and slits the web for 2-up or 3-up forms. The LX566 Stacker positions the sheets to create book blocks. LX Perfect Bind's stacks are clean, tight, and prepared for further finishing.

For in-line perfect binding, each set of 1, 2, or 3-up book blocks is delivered to the conveyor system and transported to the SigmaBinder. The SigmaBinder measures every book and automatically adjusts for length, width and thickness. Each book block is then combined with the appropriate cover to create a finished perfect bound book.

Alternatively, for near-line finishing, the LX566 Stacker stacks and offsets book blocks in stacks up



Offset stacks.

to 10" tall. The stacks are delivered automatically or when the operator-programmed stack height is reached. They are then easily transported to the hand-feed/measuring station of the SigmaBinder or to

other near line finishing units, such as Folders or Stitchers.

Output delivery options are easily switched with no movement of modules, to offer the flexibility you need for your print on demand applications. All components are modular, compact, and are designed to dramatically improve workflow.

Optional Capabilities

Lightweight Paper

For lightweight paper applications, add the optional LX530 Buffer to the LX Perfect Bind system. Positioned between the printer and the LX561 Cutter, the LX530 Buffer accumulates the lightweight paper web and weaves it through

rollers that rise and fall, filling the buffer and allowing job delivery without stopping the printer.

Slit Merge



LX535 Merger

The LX535 Merger option allows a 2-up printed web to be slit and merged into a single, collated paper stream. Positioned between the printer and the LX561 Cutter*, the web enters the

LX535 Merger and is slit in the center. A sensor continuously monitors the web for side-to-side variations or movement and the slitter automatically adjusts to cut precisely at the center of the web. The resulting two webs are then merged right-over-left or left-over-right, depending on the requirements of the application.

*Pinless slit merge applications require the LX562 Cutter.

LX562 Cutter

Same features as the LX561, plus the ability to process pinless slit merge applications.

Web Vision™

Monitor print, data and workflow quality.

Specifications

Performance / Media-Stacking

Speed Max.	450 ft/min	2.25 m/sec
Feeding	Pinfed or pinless	
Paper weight	11# bond–110# index	40–200 gsm
	(Testing mandatory for paper less than 55 gsm)	
Web width	5.5"–20.5"	140 mm–520 mm
Form length	3.5"–19.5"	90 mm–495 mm
Stack Height	Max. 10"	250 mm
Output options	1-, 2-, 3-up with offset	

Binding

Book width	4 7/8"–9 1/16"	125 mm–230 mm
Book thickness	1/8"–1 9/16"	3 mm–40 mm
Spine length	4 3/4"–12 5/8"	120 mm–320 mm
Paper weight	20–32# bond	70–120 gsm

Electrical

Power	208 VAC, 1 Phase, 15A, or 200–240 VAC 50/60 Hz, 10A
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Configuration Example

