



# SMYTH

SEWING AT ITS BEST

*YOUR PARTNER IN BOOK FINISHING SOLUTIONS*

# DX-70

**AUTOMATIC FOLDING AND BOOK  
SEWING SYSTEM FOR DIGITAL PRINTING**



The new fully-automatic “sheet fed” **SMYTH DX-70** collates and sews signatures composed of 4-page digitally-printed inserted sheets to create sewn books.

The system connects the large size automatic Smyth pile feeder in-line to the new FX-70 book-sewing machine.



The **B2 size (500 x 700 mm)** loading table, complete with self-positioning head, vacuum separation system, and suction wheel for sheet feeding.



Sheets are accurately driven to **sheet alignment** via the ball rail table. A Pepperl & Fuchs ultrasonic sensor manages **electronic sheet control** and detects single sheet thickness to avoid any potential doubles. An **automatic** version of the self-positioning alignment table is also available upon request.



Two slitter shafts guide each single sheet into the **Scoring Station**. Here the special **Tech-ni-fold Tri-Creaser Fast Fit** device guarantees the highest possible quality creasing and folding, including landscape format.



The **Sheet Plow Folding** Station cross-folds the sheets into “four pages”. After folding, each single sheet is driven inside the new pressing roller guides. Sheet transport pulleys are equipped with a fine adjustable system to cater to different paper types and increase / decrease the friction between the transport polycord belt and the sheets.

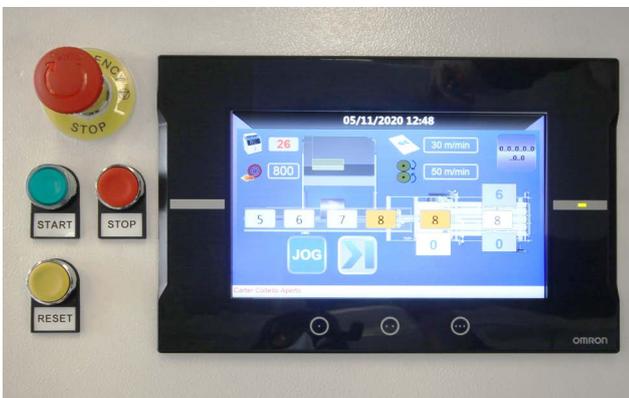
# AUTOMATIC FOLDING AND BOOK SEWING SYSTEM FOR DIGITAL PRINTING



The **New Roller Guide** presses each single folded sheet to achieve excellent quality folded signatures before sewing. Springy sheet transport rollers allow the system to adapt to sheet thickness with improved control and fine adjustment.

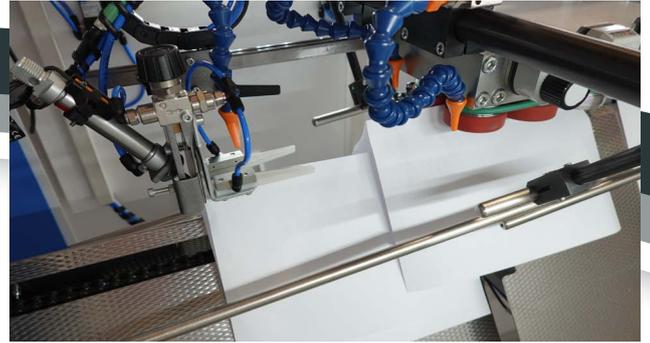


The **New Heading-Up** system boasts three side open signatures and consists of a fix header on the tail side and alignment gripper on the signature head. The precision of this mechanism ensures the correct sliding and alignment of all signature types on the head.



The **operator interface** comprises a 9" touch screen to enable all machine operating and book program parameters.

**Smyth DX-70** is also standard equipped with a network device for both wired and wireless **free remote** online **technical support**.

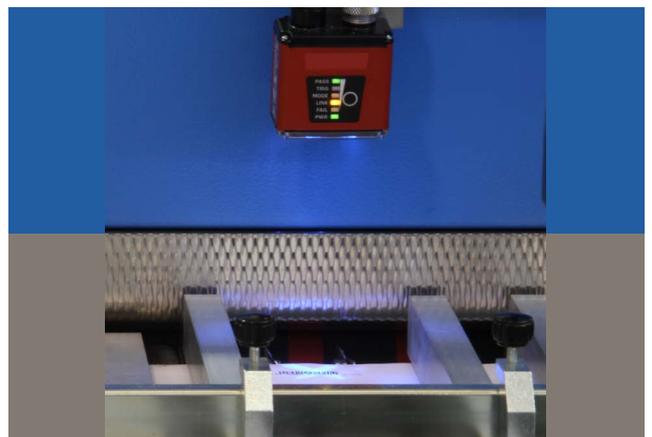


Various numbers of 4-page sheets can be inserted in the **Collating Station** to achieve signatures made up of different pages in the same book. After being collated, the 4-page sheets are released onto the fix sewing saddle. Synchronized saddle pusher movements ensure the signatures are driven accurately to the accelerating wheel.



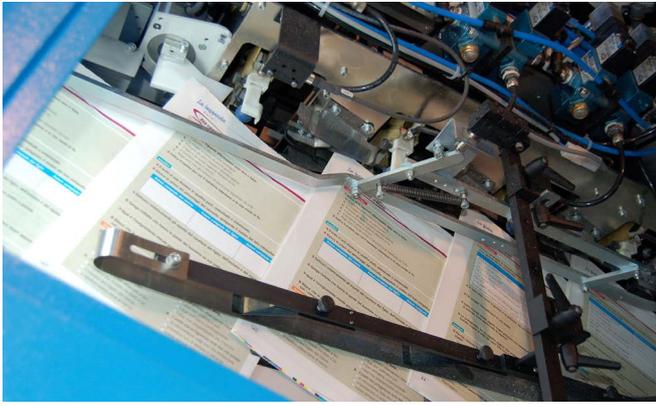
Sewn book blocks are delivered onto a compactly-designed **delivery table** spine-up for easy unloading.

An automatic book separating system connected to the Smyth Easystack automatic book stacker is also available **upon request**.



The **Sequence Control System** is carried out by an **OMRON MICROHAWK V430-F camera**.

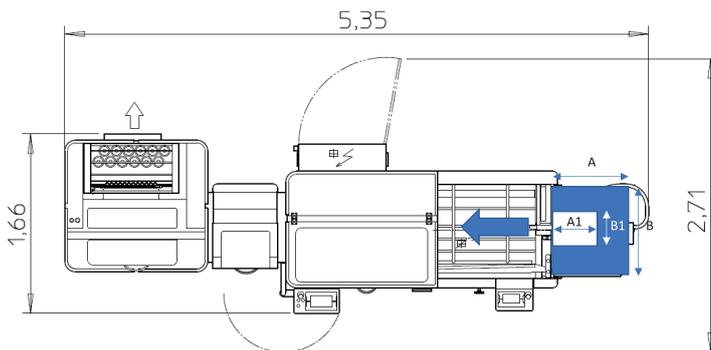
A 1D/2D code-reading system ensures the highest possible degree of control by performing continuous measurements on each individual sheet (**optional**). Potential production issues are accurately filtered in order to avoid false alarms and unnecessary machine downtime.



Upon request, the new DX-70 can be connected to the FX-70 book sewing machine **equipped with the Smyth 4D feeder** for offset signature printing. This configuration allows the system to run **“Digital printed”, “Hybrid” or “Offset printed”** books.

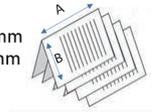


**DX-70** is also available in **WEB-FED** version. Connected in line with **unwinder & cutter**, it can run digitally-printed sewn-book blocks on a reel.



## LAYOUT DX-70

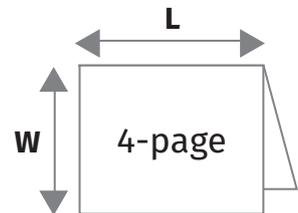
**SIGNATURE SIZE**  
Max. 420 (A) x 320 (B) mm  
Min. 180 (A) x 100 (B) mm



**SHEETS SIZE**  
Max. 420 x 640 mm A x B  
Min. 180 x 200 mm A1 x B1

## TECHNICAL SPECIFICATIONS

<b>Max. mechanical speed:</b>	up to 200*mt/min <i>*paper, size and signature composition depending *sewn with the grain direction</i>
<b>No. of sewing stitches:</b>	12
<b>Sewing stitch length</b>	24 mm
<b>Air consumption</b>	Max 280 NI/min. at 5** bar <i>**The air (externally supplied) must be dry to optimize the correct functioning of the machine</i>
<b>Paper weight</b>	Min. 50 gsm – Max 180 gsm
<b>Sewing thickness</b>	Max 3 mm
<b>Rated Power</b>	5 Kw
<b>Standard voltage</b>	400V – 50 Hz – 3Phases - Ground
<b>Total weight DX-70</b>	2400 Kg
<b>Dimensions</b>	5,35 x 1,66 x H 1,7 mt.



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