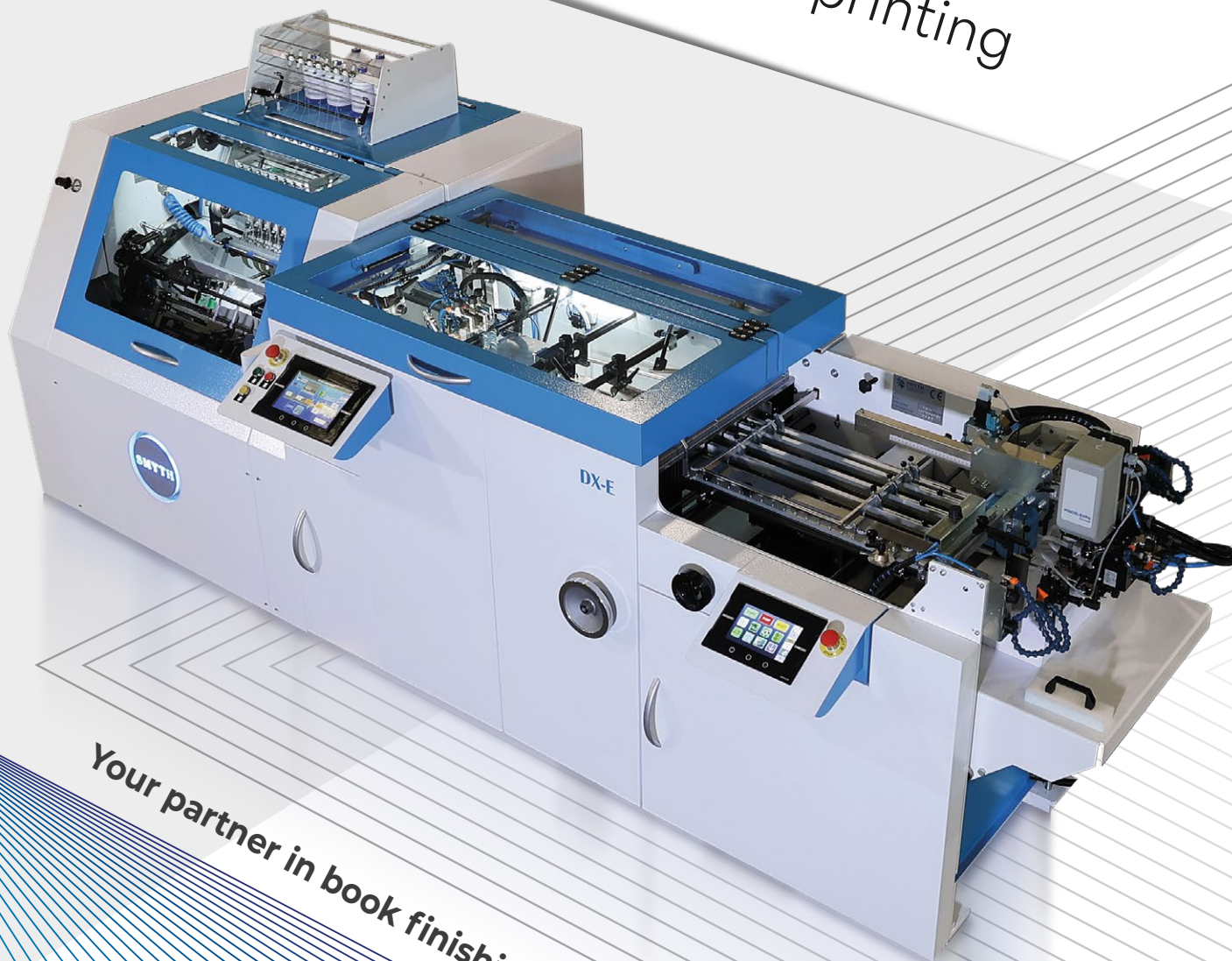


DX-E

Automatic folding and book
sewing system for digital printing



Your partner in book finishing solutions



The new fully-automatic “sheet fed” **SMYTH DX-E** collates and sews signatures composed of 4-page digitally- printed inserted sheets to create sewn books. The system connects the automatic Smyth pile feeder in-line to the new FX-E book-sewing machine.



Smyth pile feeder supplied 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.



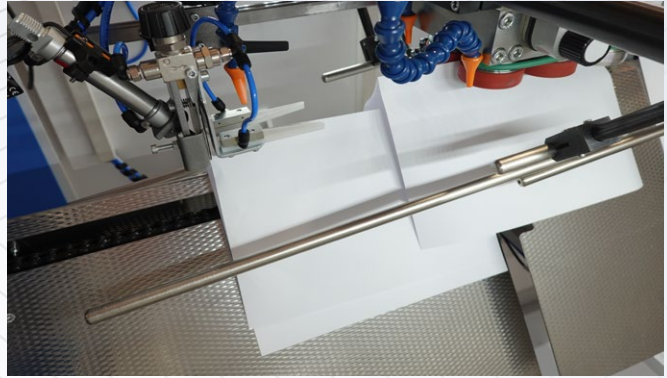
Two slitter shafts guide each single sheet into the **Scoring Station**. Here the special **Tech-ni-Fold Tri-Creaser Fast Fit** device guarantees the highest possible quality creasing and folding, including landscape format.



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.

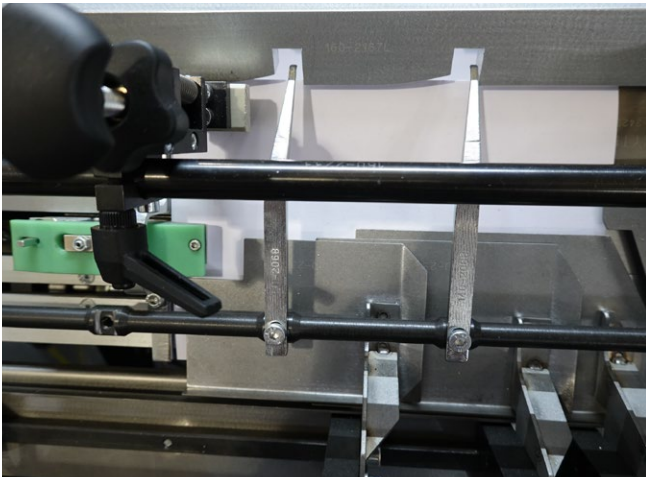


The **New Roller Guide** presses each single folded sheet to achieve excellent quality folded signatures before sewing. Springy sheet transport rollers allow the system to adapt to sheet thickness with improved control and fine adjustment.



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.



The **New Heading-Up** system 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.



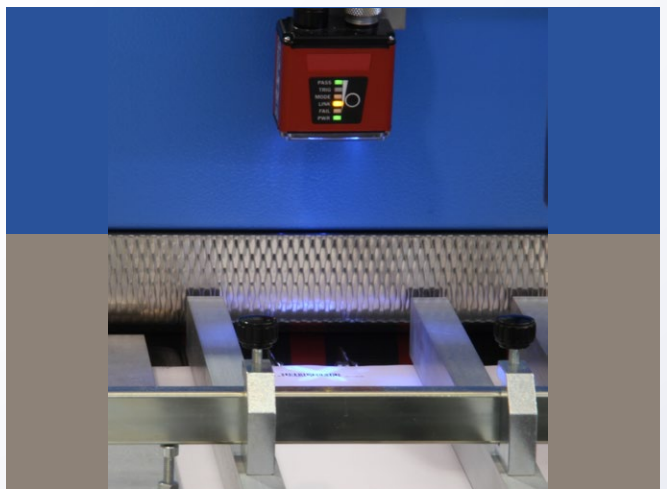
Sewn book blocks are delivered spine-up onto a compactly-designed **delivery table** for easy unloading.

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



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

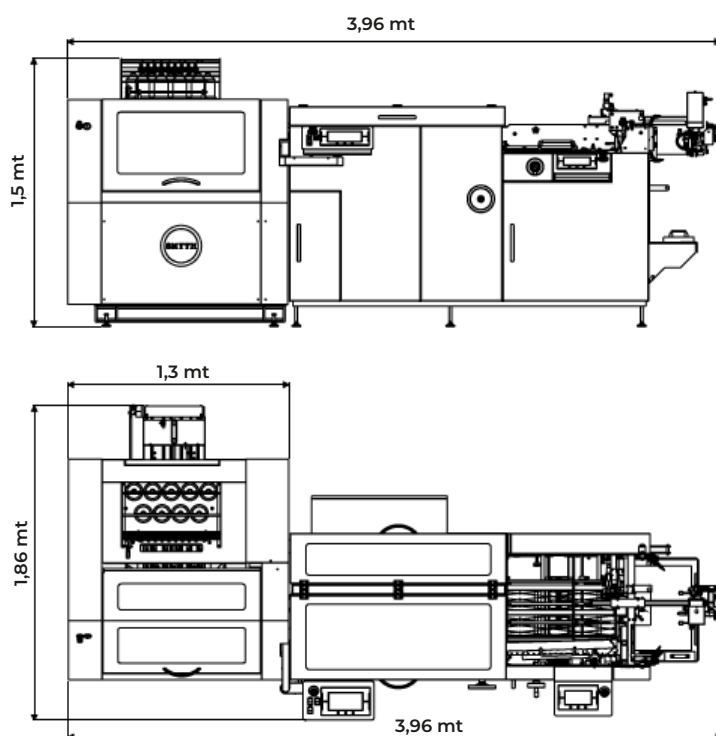
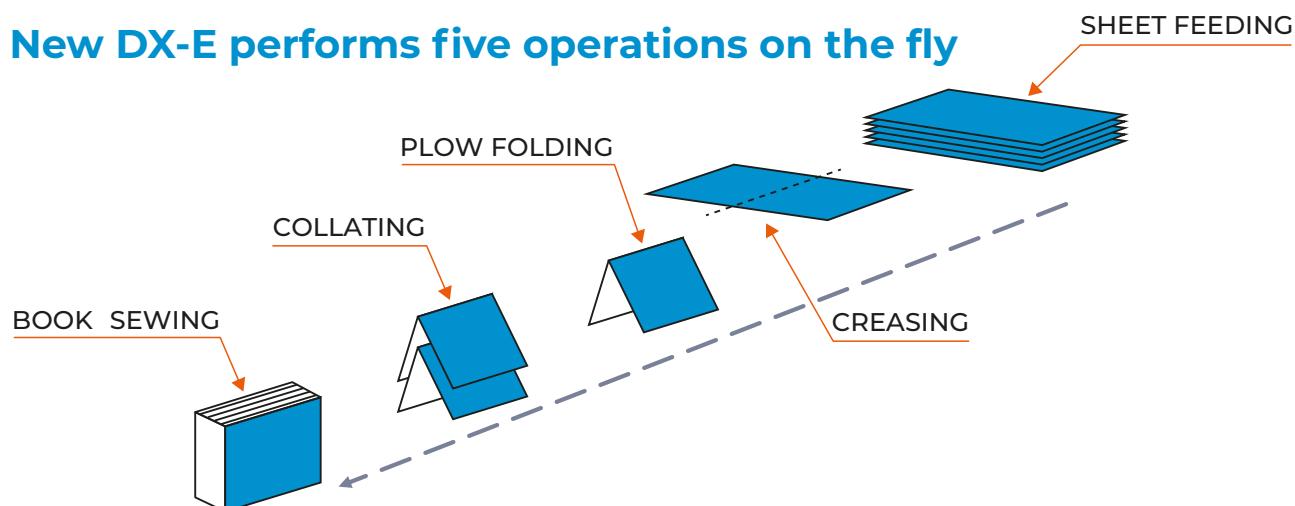
Smyth DX-E is also standard equipped with a network device for both wired and wireless **free remote** online **technical support**.



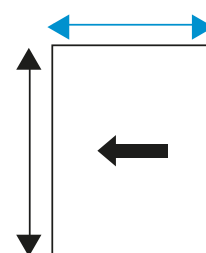
The **Sequence Control System** is carried out by an **OMRON camera**.

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.

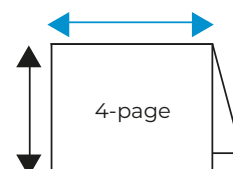
New DX-E performs five operations on the fly



Sheet size:
Min: **180** x 200 mm
Max: **390** x 500 mm



Signature size:
Min: **180** x 100 mm
Max: **390** x 250 mm



Technical specifications

Max. mechanical speed: up to 200*mt/min
Paper weight: Min. 50 gsm – Max. 180 gsm
Number of sewing stitches: 9
Sewing stitch length: 18 mm
Standard voltage: 400V – 50Hz/3 Phase + Ground

Rated Power: 5,8 kW
Electrical consumption: 3,2 kW (real data)
Max. air consumption: 280 NI/min. at 5 bar**
Total weight: 3350 kg
Dimensions: 3,96 x 1,86 x H 1,50 mt

*Paper, size and signature composition depending. Sewn with the grain direction

**The air (externally supplied) must be dry to optimize the correct functioning of the machine.

 SMYTH automatic folding and book sewing system mod. DX-E bears CE safety mark.

