StreamFolder 2030 for short-run books
Efficient books of one and short-runs

The StreamFolder system for short-run books includes the Unwinder 550, Buffer 530, StreamFolder f20, Cutter c20, Stacker s30 and conveyor system.

- ✓ **Short-run books**
- ✓ **Increased reliability**
- ✓ **Z-fold signatures**
- ✓ **Superior book quality**
- ✓ **Minimize blank pages**
- ✓ **Easy application changes**

Print on demand with the ultimate in ease and flexibility. The StreamFolder™ system for short-run books produces book blocks comprised of 4-panel or 6-panel signatures. The finished book blocks have extremely accurate page registration and the folding process reverses the natural paper curl every other sheet, resulting in very flat, premium quality books.

The StreamFolder system provides unprecedented reliability for short-run digital book printing jobs of varying run lengths including 'books of one.' The StreamFolder folds the web once or twice enabling efficient use of a web-fed press at its maximum print width. This folded web is very strong as the paper is up to three times thicker and has demonstrated dramatic increases in system reliability feeding through the cutter and stacker.

When compared to book blocks created from single cut sheets, the StreamFolder system's signatures eliminate common problems coming from inevitable variations in paper quality. Slight changes in web width will not impact page registration with the StreamFolder system's unique Z-fold design ensuring pages are always precisely registered to the spine edge. In addition, any paper curl is effectively canceled as pages are folded back against each other.

LasermaxRoll 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 LasermaxRoll the essential partner for your print operation.

LasermaxRoll
TECNAUGROUP
The Essential Partner to Print

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The StreamFolder system for short-run books uses the Unwinder 550, Buffer 530, StreamFolder f20, Cutter c20, Stacker s30 and conveyor system to create book blocks.

The center-shaft driven Unwinder 550 feeds a roll of paper up to 52" in diameter into the digital press. Positioned between the printer and the StreamFolder f20, the Buffer 530 accumulates the paper web under light tension for positive web control, allowing job delivery from the Cutter and Stacker without stopping the printer. The StreamFolder f20 folds the web once or twice lengthwise prior to cutting and stacking. The Cutter c20 uses a rotary knife to cut the printed and folded web to the desired length creating either a 4-panel or 6-panel signature. Finally, the Stacker s30 aligns and stacks the signatures to create offset book blocks ready for binding.

For maximum flexibility and efficiency, the StreamFolder f20 enables a 1-up stack of folded signatures to be created from either 2-up or 3-up print streams and can easily be switched according to final book size and paper width. It also features a bypass mode to process 1-up print streams, or when output of 2-up or 3-up single cut sheets is desired.

After printing, the infeed of the StreamFolder f20 uses easily adjustable perforating wheels which prepare the web to be accurately folded. For 2-up printing, one fold station is used to simply fold the web in half. For 3-up printing, two fold stations are used to create a Z-fold. The Z-fold is a unique feature of the StreamFolder f20 and it provides substantial advantages versus competitive C-fold systems. Every roll of paper has slight variations in width. Only the StreamFolder's Z-fold design can guarantee fixed page registration to the spine edge, regardless of these variations. The Z-fold forces web-width variations to the face edge which is cleanly trimmed during binding producing a superior quality book.

Next, folded edges are flattened with pressing rollers in the outfeed of the StreamFolder and infeed of the Cutter, so the ppi of signature book blocks remains the same as cut sheet book blocks ensuring compatibility with existing cover art. The folded web is now cross cut to the required page length in the Cutter c20 and each signature is seamlessly transferred to the Stacker s30 which builds up to 10"-tall stacks of offset book blocks.

Signatures created with the StreamFolder system are neatly stacked and can be quickly and easily jogged for reliable binding.

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 work-flow.
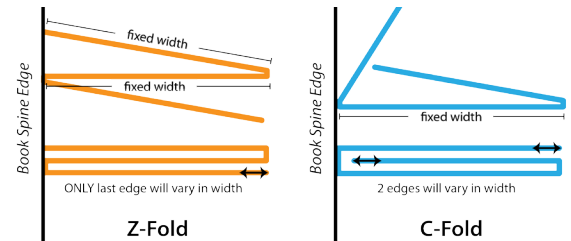
Technical Specifications

Performance / Media

Speed Max	500 ft/min	150 m/min
Feeding	Pinless	
Paper Weight	minimum 40 gsm	
Web Width Input	20.5" max.	520 mm max.
Output	5.5" min.	140 mm min.
Form length	5.5" - 18"	140 mm - 457 mm
Stack Height	Max. 10"	250 mm
Offset	0.6"	15 mm
Print streams	1-, 2-, 3-up (no folding / bypass mode) 2-up (1 fold / 4 panel signatures) 3-up (2 folds / 6 panel signatures)	
Output options	1-up with offset	

Some specifications are application dependent and may require testing.

Electrical

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

StreamFolder Z-Fold vs. Competitor C-Fold

fixed width
fixed width
Book Spine Edge
ONLY last edge will vary in width
Z-Fold

Book Spine Edge
fixed width
2 edges will vary in width
C-Fold

StreamFolder f20 - 3-up printing, Z-fold

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