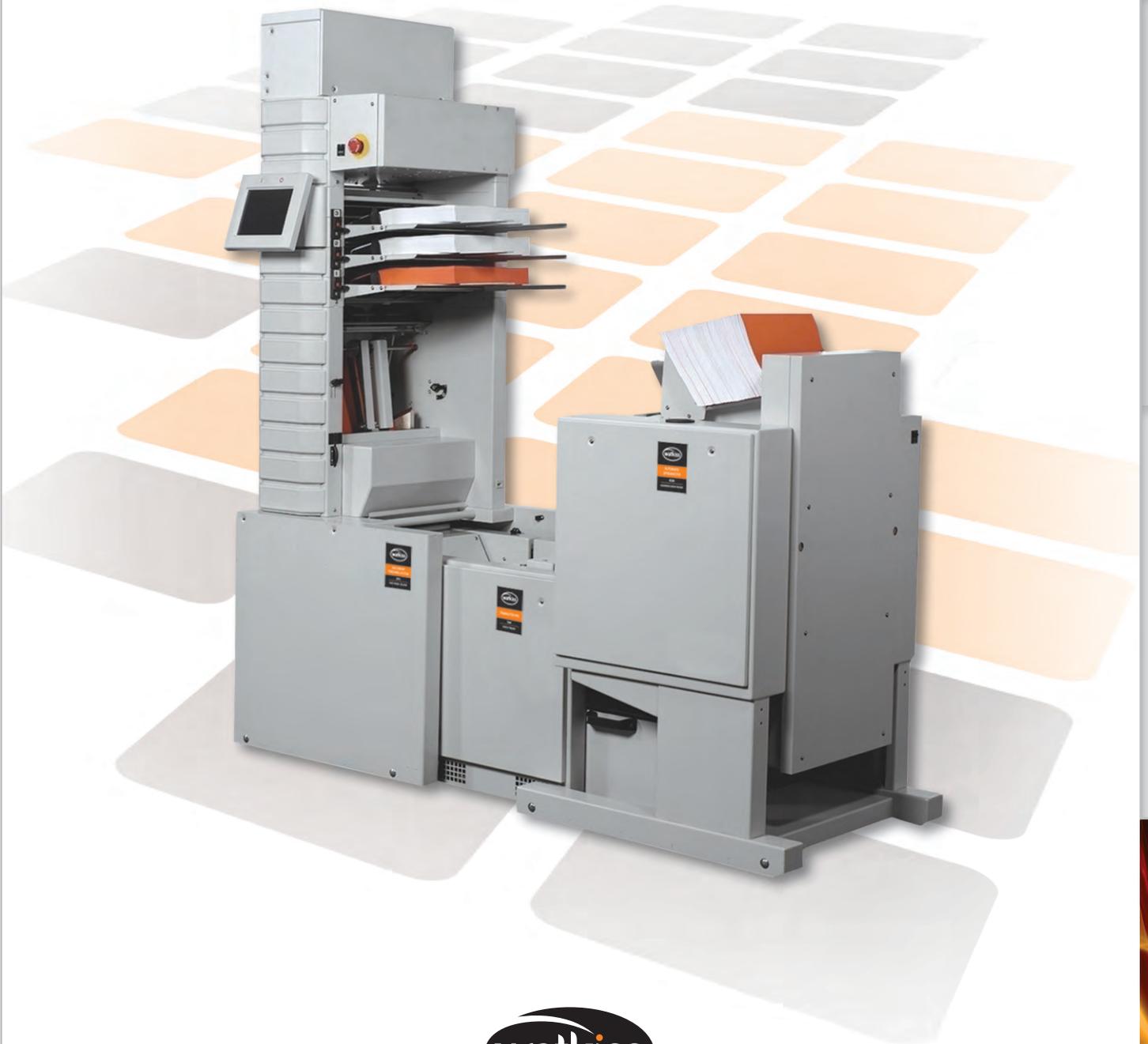


Watkiss Document Finishing System



CREATIVITY | ACCURACY | EFFICIENCY



Watkiss Document Finishing System

“ A reliable and robust machine. You can happily walk away and leave it running. ”

Sharon Doherty
Rolls-Royce

The Document Finishing System (DFS) is a multi-function booklet maker for digital print applications.

To reap the rewards of fast and flexible digital printing, you need a finishing system that can keep pace; and which has the flexibility to cope with the specific and varied demands of a digital environment.

The DFS takes pre-collated sheets directly from the printer and automatically processes them into high quality booklets. If required, additional sheets from other print sources can be inserted; including offset printed covers on glossy or laminated stocks.

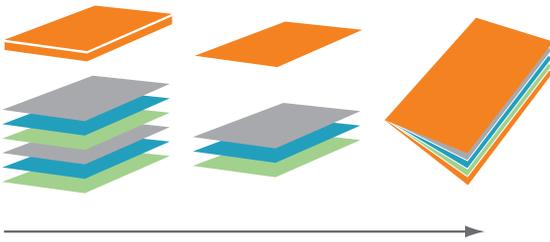


Flexible

The DFS offers the ultimate in flexibility, with two operating modes. It can feed individual sheets or complete sets.

In sheet feeding mode, sequentially-printed sheets are taken from the printer and loaded into the DFS. Additional sheets, such as offset printed covers, can be automatically inserted. Sheets are then fed in sequence, the covers inserted, and the set is made into a booklet.

Finishing Sequentially Printed Sets



In its second operating mode, the DFS works as a normal collator and booklet maker. With the option of up to 8 feeders, the batch-printed sheets are loaded into the feed bins and made into booklets as usual.

Finishing Batch Printed Sets



Since the DFS accepts the output of multiple printers, you can maximise the use of your investment.

Reliable

Trouble-free paper feed and gentle handling of delicate digital printed stocks is at the heart of the DFS. Sensors throughout the system monitor paper flow at all times. Choose between air-assisted friction feed and the patented SlimVAC rotary suction feeder. Both have air knife separation as standard to ensure precise and reliable feeding of a wide range of paper types.

Barcode Reader (DFS-B)

Where verifiable integrity is needed, a barcode reader provides multi-level security verification by checking every sheet, set and document. It can also control the insertion of covers and multiple additional sheets for customised sets. You can configure the system to interpret the barcode characters as required, and save the configurations in easy recall job memories.

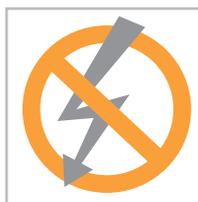
This means that every sheet can be guaranteed accurate; and every set or document can be customized. It extends variable data beyond the printer to the finisher; with the potential for each set or document to include a different combination of additional inserted sheets.





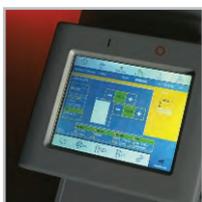
Modular

Part of the world famous Vario range, the DFS is a modular design. You can specify how many feeders you need; and you can upgrade on demand.



Anti-Static

An active anti-static ionising bar is fitted as standard to overcome the high static charge in many digitally printed stocks.



Integrated Control

Control the entire finishing system, collator and booklet-maker from the central colour touch-screen.



Security Verification

The optional barcode reader provides multi-level security verification and controls the insertion of additional sheets for covers and customised sets.



Multiple Feeders

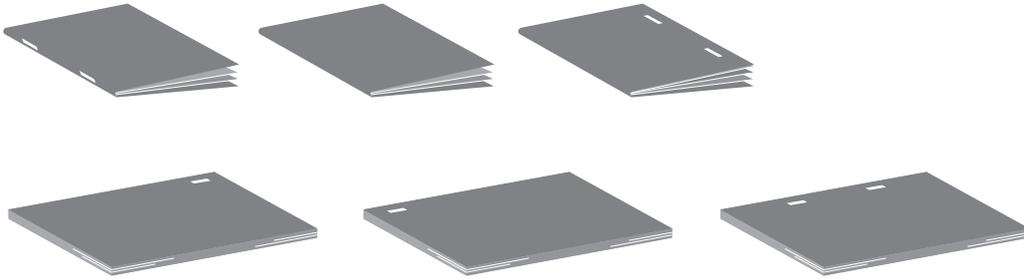
By specifying multiple feeders, the DFS can insert multiple sheets and function as a standard collator for batch printed work.

Additional Benefits

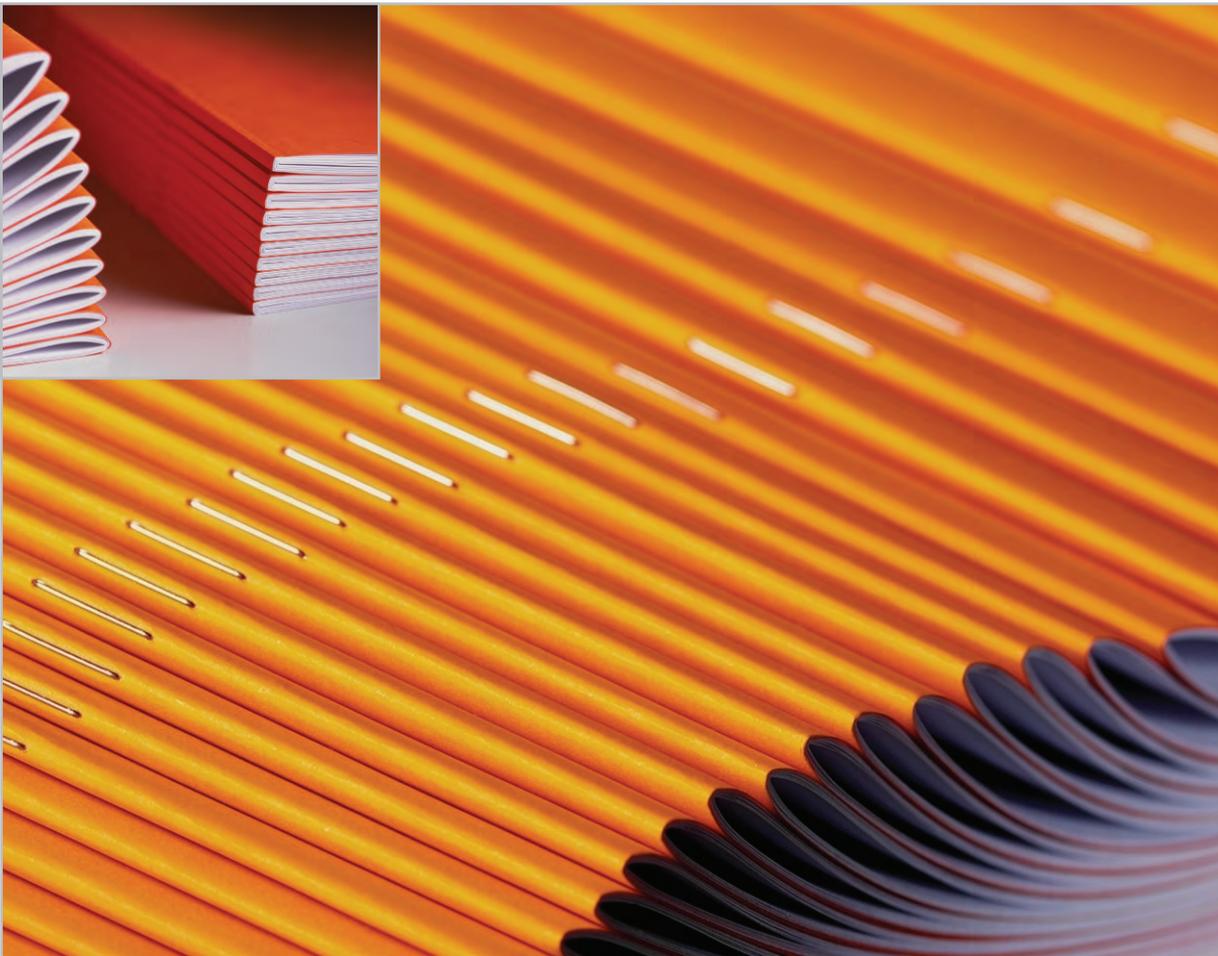
- Feed individual sheets or complete sets
- Finish pre-collated and batch printed sets
- Automatically insert covers or additional sheets
- Automatic self-calibrating miss and double sheet detection
- Wide range of paper types from all feeders
- Colour touch screen graphical user interface with on-screen help system
- Preset sizes, templates and job memories for repeat jobs
- Special feed sequences and selective feeding



Booklet Making



Watkiss booklet makers can fold, stitch-and-fold, edge-stitch, edge-stitch-and-fold, and corner-stitch.



BookMaster Pro30 and TrimMaster Pro30

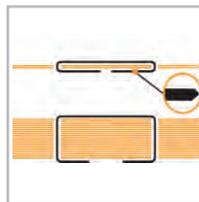
The BookMaster Pro30 booklet maker and TrimMaster Pro30 trimmer combine maximum performance with cost effectiveness. They are simple to operate and low maintenance, making them by far the most advanced, user friendly and reliable staple-fold booklet makers available today.

The BookMaster Pro30 has a unique low impact stapling mechanism that ensures virtually maintenance free operation. The main wearing parts are included in the staple cartridge and are replaced every 5,000 cycles when the cartridge is changed. As a result, over one million cycles can be run before staple head maintenance is required.

The BookMaster Pro30 has automatic set-up to adjust the sidelays, endjog and staple/fold position. The DFS's colour touch-screen runs the entire system.

The optional TrimMaster Pro30 trimmer has a single self-sharpening hardened steel blade to neatly trim the fore-edge of the book.

All trimmings are transported outside the machine to an external waste box allowing continuous operation and finished booklets are delivered onto a high capacity outfeed conveyor, or into the optional SpineMaster. For full-bleed work, the optional two-knife trimmer trims the top and bottom edge of the booklet.



High quality staples

The low impact stapling mechanism with moving clinches produces flat, well formed staples over the full range from 2 to 30 sheets.



Maintenance free staple system

Changing the staple cartridge automatically replaces the main wearing parts.



BookMaster Pro30 booklet maker and TrimMaster Pro30 trimmer

Additional Benefits

- Professional standard build quality
- Staples are well formed from 2 to 30 sheets
- Fully automatic size adjustment
- Top-jog produces good performance with heavy art papers
- External trimmer waste-bin
- Small footprint - the BookMaster Pro30 fits beneath the DFS

2-Knife Trimmer

The Two-Knife Trimmer is a compact unit that trims the top and bottom edge of stitched or stapled booklets. It completes a single-pass booklet making system to give a professional and cost effective solution for full-bleed printed work.

It is perfect for a wide range of traditional and on-demand applications, where the booklets are quickly finished in one streamlined operation without the need for additional handling or finishing steps.



SpineMaster

Add value to your booklets by applying a SquareBack finish with the Watkiss SpineMaster. It gives you the superior appearance of a perfect bound booklet combined with the security of a stitched spine.

The SpineMaster transforms traditional stitch-fold booklets into square-spined SquareBack books that are flat and easy to pack, stack and handle. There is no risk of loose pages and you can even print on the spine.

While traditional booklet making achieves a satisfactory result on thin booklets, the more sheets you use, the more the book will "gape" at the spine. The SpineMaster re-forms the spine into a square shape to produce a long lasting, high quality finish.

Additional Benefits

- SpineMaster SquareBack booklets are the preferred choice of print buyers due to their professional appearance
- Booklets can be opened flat without damaging the spine
- Overall bulk is reduced by at least one third

Watkiss SpineMaster



The SpineMaster fits after the trimmer units and the unique SquareBack process ensures that no additional trimming is required.

After processing, the SquareBack booklets are delivered into a stacking hopper on the top of the unit, where they are easily removed by the operator. If required, booklets can bypass the SquareBack process and are delivered directly to the hopper. Similarly, individual booklets can be hand fed into the unit if required.

SquareBack book technology, which was developed and patented by Watkiss, is now the preferred choice of printers and print buyers all over the world.



Before and After

Traditional stitch-fold booklets are transformed into SquareBack booklets.



SquareBack Booklets

Flat booklets are easy to handle, stack and pack.



Print on the Spine

SquareBack booklets can carry print on the spine, just like a perfect bound book.



Online or Offline

Hand feed or operate online, the choice is yours.

Watkiss Document Finishing System

Specifications	
Feed System	SlimVAC variable profile rotary suction feeder with air separation or Friction feed with air separation
Production	
A4 sheet speed	up to 6,400 sheets/hr (SlimVAC); up to 7,200 sheets/hr (Friction)
A3 sheet speed	up to 5,200 sheets/hr (SlimVAC); up to 7,200 sheets/hr (Friction)
Booklet production (Max)	Up to 2,500/hr
Typical production rate	10 sheets A4: 6,000 sheets/hr (equivalent to 200 ppm) 10 sheets A3: 5,000 sheets/hr (equivalent to 333 ppm)
Feed Bin Capacity	45mm (SlimVAC); 40mm (Friction). Flexible bin linking multiplies bin capacity
Number of Feeders	2 – 8
Stock size	140 x 210mm to 320 x 482mm
Stock Range	60 to 240gsm (SlimVAC); 60-300gsm (Friction) (Coated: minimum 90gsm)
Detection	Electronic detection for miss, double, jam and empty bin. Totally automatic and self calibrating, no adjustment required. Full detection and flow control throughout the entire system. Optional barcode reader.
Booklet Making	Watkiss BookMaster Pro30 (staple-fold and trim)
Options	2-knife trimmer, Watkiss SpineMaster DFS-B with barcode reader. Code 39 or Interleave 2/5. Other types possible on request. Minimum height: 3.5mm preferred (2mm possible).

Booklet Making

Specifications	BookMaster Pro30
Max Booklet Thickness	30 sheets (of 80gsm)
Stapling/Stitching	Low impact stapler with moving clinches 5000 capacity staple cartridge (includes the driver and former)
Max/Min Stitch Pitch	115mm /138mm/corner
Operating Modes	Staple, fold, staple and fold, edge staple, edge staple and fold, corner staple (with optional 3rd staple head)
Fore-edge Trimming (option)	TrimMaster Pro30 Max. 25mm trim
Side trimming (option)	Min/max booklet height before trimming: 204 – 340mm Min/max booklet height after trimming: 200 – 320mm Max. 35mm trim
Delivery	Outfeed conveyor, SpineMaster
SpineMaster (option)	Production: up to 1750 per hour, single pass up to 1150 per hour, double pass* *double pass mode may be used for thick books, with stiff covers; the book is automatically processed twice for optimum results.



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