PowerSquare™ 160 | 160VF

// Plockmatic Group

POWERSQUARE™ 160 AND 160VF

Unique and innovative…
the **complete book making system**

The all NEW PowerSquare™ 160 and 160VF deliver professionally finished SquareBack™ booklets to help meet the needs of mid to high volume digital production printers. With an increasing number of printing systems able to handle long sheets, the production of A4 landscape booklets is becoming a more and more important application.

The PowerSquare™ 160 and 160VF booklet maker combines optimum book quality with robust and reliable performance. All the key processes needed to produce high quality SquareBack booklets—stapling, folding, spine forming, and face trimming—are combined into a single, compact system.

POWERSQUARE™ 160

"The most **practical solution** for low volume digital printed jobs, where **ease of set-up** and **flexible media sizes** are important."
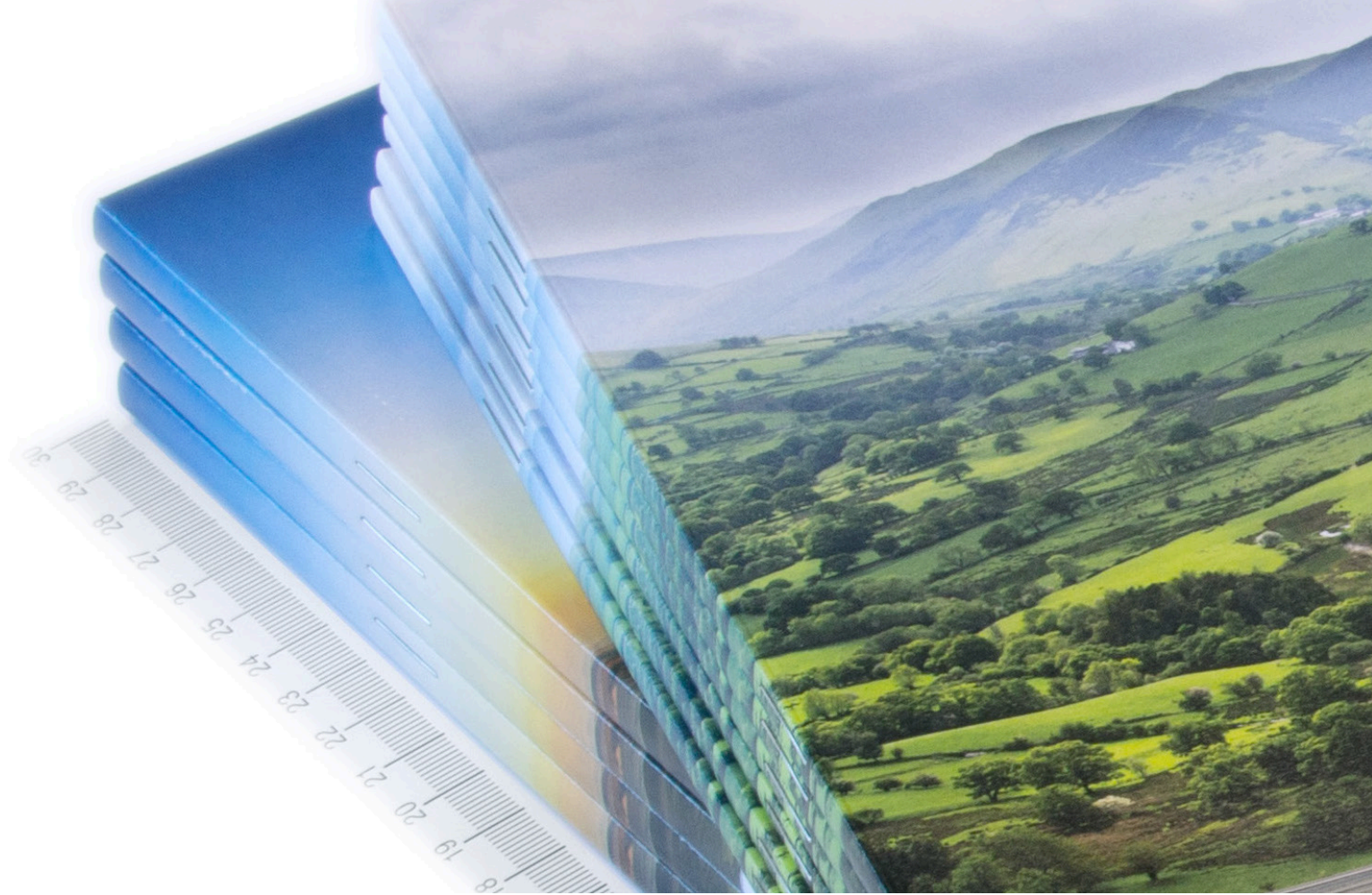
Hand feeding is often the most practical solution for low volume digital printed jobs, where ease of set-up and flexible media sizes are important. Book quality is never a compromise with the fully featured Hand-feed PowerSquare™ 160.

Integral face trimming completes the booklet by removing the shingle-edge caused by folding multiple sheets, leading to a professional sharp finish. Full bleed two-knife trimming is also available as an option.

All the key elements in the process—stapling, folding, and book forming—are housed inside a solid one-piece chassis giving a very compact design which will fit neatly into most printing operations, taking up minimal floorspace.

All booklet making operations are controlled by an intuitive touchscreen user interface. As well as standard sheet and book sizes, bespoke job formats can be stored for easy recall of repeat jobs.

POWERSQUARE™ 160VF

Produce **A4 landscape booklets** with the PowerSquare™ 160 and **160VF**

The NEW PowerSquare™ 160VF, with its high capacity dual bin feeder, offers a flexible solution for a wide range of booklet types and sizes. The system is fed by the VF vacuum-assisted feeder, which has a loading capacity of up to 21", giving long, uninterrupted production runs. Pre-collated sets can be placed into both bins for longer runs, or covers can be placed into one of the bins when they need to be merged with collated sets. The feeder can also be loaded on the run with automatic bin switching.

Optional barcode readers can be fitted to the VF for variable page count jobs or to ensure set integrity.

SQUAREBACK BOOKLETS

With an ever-increasing demand for high quality booklets on a wider range of media, the PowerSquare™ 160 and 160VF will deliver booklets finished with the unique SquareBack finish to the spine. SquareBack books can carry print on the spine, just like a perfect bound book, and are easy to handle, stack, and pack.

The Power Square™160 and 160VF can produce a wide range of formats including 5.5" x 4.25", 5.5" x 8.5", 8.5 x 11", and 8.5" x 11" landscape on stock up to 400gsm (300gsm on the 160VF). Booklets of up to 160 pages of 20lb bond, or up to a thickness of 0.3", can easily be produced, replacing the need for perfect binding of many publications.

"**The PowerSquare™ 160VF fits neatly** into most printing operations. **It's 'L' shaped configuration results** in a **very compact, ergonomic machine** taking up minimal floorspace."

KEY FEATURES:

- **Paper Size 160VF** – Min: 7.8" x 8.25" to Max: 13.7" x 24.4"
- **Paper Size 160** – Min: 5.5" x 7.8" to Max: 14.5" x 24.4"
- **Stock Range 160VF** – 16lb bond - 82lb cover, dependent on paper
- **Stock Range 160** – 16lb bond - 105lb cover, dependent on paper
- **Book thickness:**
  - Minimum set thickness – 1 sheet 20lb bond (when folded makes a 4-page leaflet)
  - Maximum finished book thickness – 0.3" (approx 160 pages 20lb bond)
  - Maximum set thickness – 0.15" (approx. 40 sheets 20lb bond)
- **Stapling** – Auto-adjusting staple pitch according to sheet size, range 4"- 6"
- **Staples per cartridge** – 5000

POWERSQUARE™ 160VF WITH TWO-KNIFE TRIMMER

The PowerSquare Two-Knife Trimmer (P2T) is an optional compact module that can be added to both the handfed PSQ160 and the PSQ VF160 to complete the booklet making process. It trims the top and bottom edges of the book, removing the need to guillotine before processing. This provides a professional solution for full-bleed printed work, which is especially important for color printed applications.
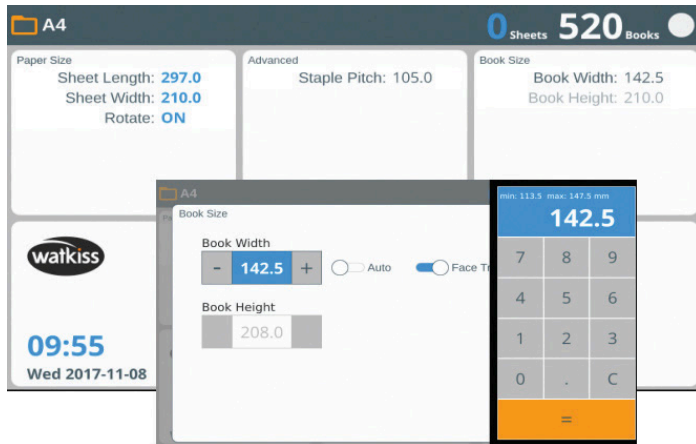
Fully automated from the PowerSquare's user interface, up to 40mm can be trimmed from each end of the book, and the trim position can be offset to match the image position. All trimmings are transported outside the machine to a high capacity external waste box, allowing continuous operation.

This compact trimmer fits neatly into the delivery, maintaining the small footprint of the overall system.

POWERSQUARE™ 160VF

"Automatic **'staple-to-fold'** tracking gives **improved quality** with **consistent** and **accurate staple position** on the spine."

USER INTERFACE

The PowerSquare™ 160VF has a state-of-the-art control system including remote diagnostics. The intuitive GUI is easy to navigate and sets up all machine functions quickly. The control systems include a detailed service and diagnostic system which can be remotely accessed for preventative maintenance, fault analysis, and system monitoring, leading to greater efficiency and utilization of the machine.

OPTIMUM QUALITY STAPLING

The PowerSquare 160 and 160VF is supplied with a low impact stapler cartridge system. Staples are supplied in cartridges of 5000, and are easily changed in a few seconds. The cartridges contain extra-high tensile steel staples to ensure perfect results on a wide range of coated and uncoated stock.

The staple pitch is automatically adjusted dependent on the thickness of the book.

MONITORED PAPER FLOW

Unique paper transport with constant position monitoring helps to ensure accurate and consistent paper handling for optimal sheet management and fold quality even with long sheets.
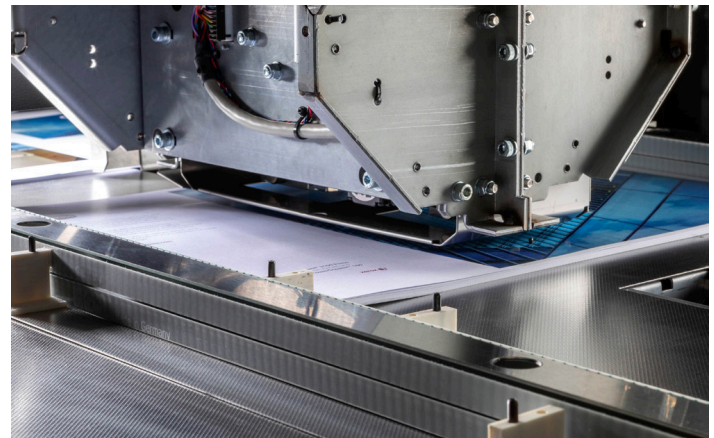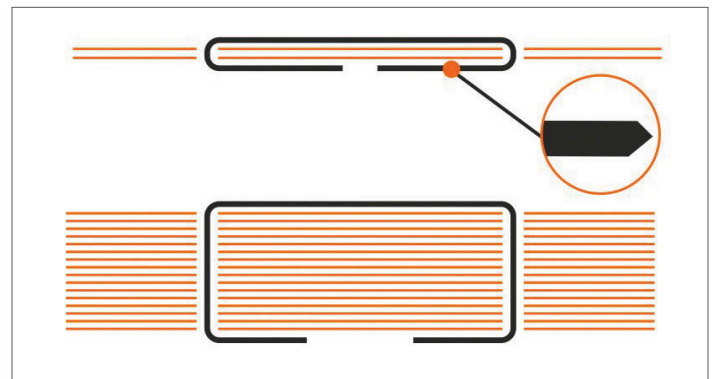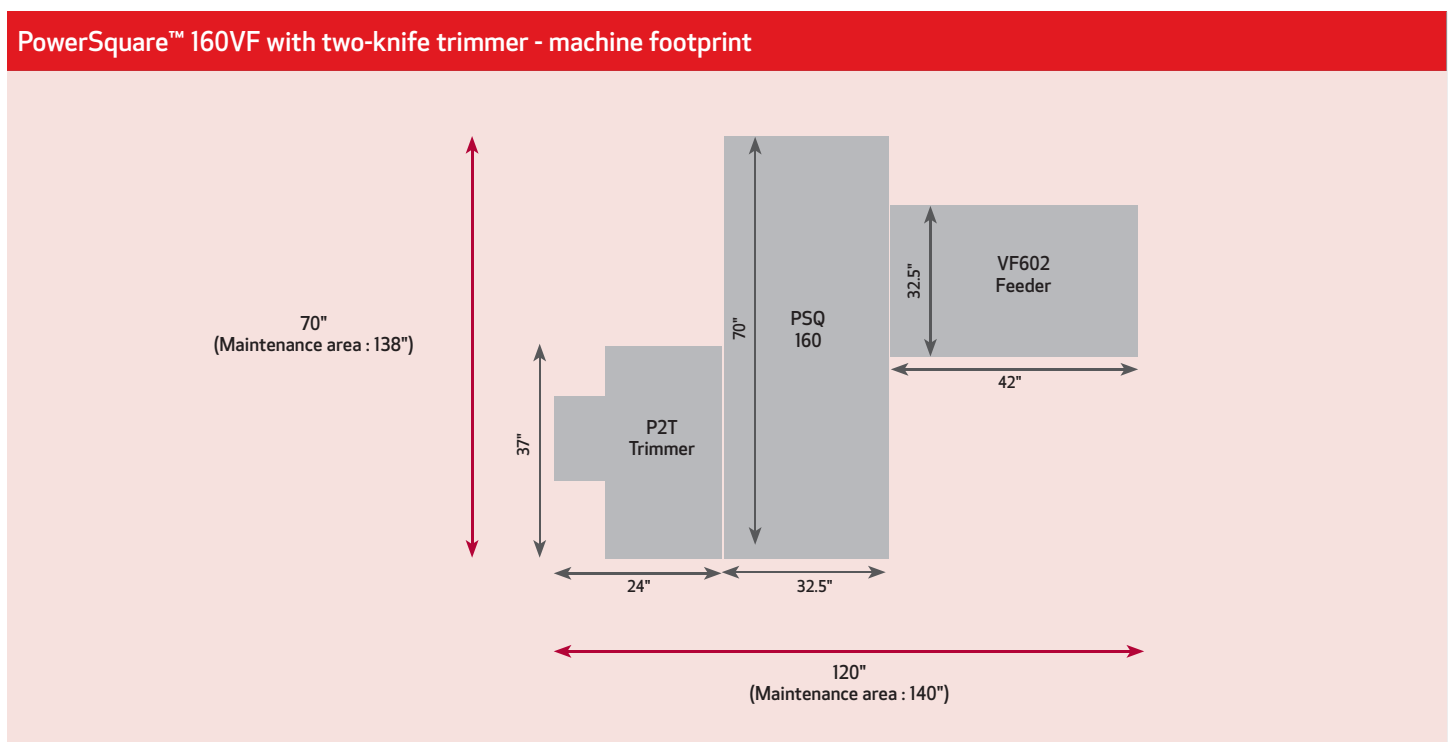

Collating station with the "tumbler" folding a sheet over to the station

Stapling Station

TECHNICAL SPECIFICATIONS

PowerSquare™ 160	
Paper Size	Minimum: 5.5" x 7.8" to maximum: 14.5" x 24.4"
Stock Range	60 - 400gsm dependent on paper type and quality
Book Thickness	• Minimum set thickness – 1 sheet 80gsm (when folded makes a 4-page leaflet) • Maximum finished book thickness – 0.3" (approx 160 pages 20lb bond) • Maximum set thickness – 0.15" (approx 40 sheets 80gsm)
Stapling	• 2 low-impact staple heads with moving clinchers • Auto-adjusting staple pitch according to sheet size, range 4"- 6"
Staples per Cartridge	5000
Dimensions	W32.5" (55" including catch tray) x D69" x H52.5"

PowerSquare™ 160VF	
Paper Size	Minimum: 7.8" x 8.25" to maximum 13.7" x 24.4"
Stock Range	60 - 300gsm dependent on paper type and quality
Book Thickness	• Minimum set thickness – 1 sheet 80gsm (when folded makes a 4-page leaflet) • Maximum finished book thickness – 0.3" (approx 160 pages 20lb bond) • Maximum set thickness – 0.15" (approx 40 sheets 80gsm)
Stapling	• 2 low-impact staple heads with moving clinchers • Auto-adjusting staple pitch according to sheet size, range 4"- 6"
Staples per Cartridge	5000
No. of Bins	2
Bin Capacity	2 x 270

PowerSquare™ 160VF with two-knife trimmer - machine footprint

70"
(Maintenance area : 138")

70"

32.5"

PSQ 160

VF602 Feeder

37"

P2T Trimmer

24"

32.5"

42"

120"
(Maintenance area : 140")

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