



PowerSquare™ 160 | 160VF

PowerSquare™ 160 and 160VF

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

PowerSquare™ 160 and 160VF

The all NEW PowerSquare™ 160 and 160VF deliver professionally finished SquareBack™ booklets to 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.



“The most **practical solution** for low volume digital printed jobs, where **ease of set-up** and **flexible media sizes** are important”



PowerSquare™ 160

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 touch screen 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**



PowerSquare™ 160VF - NEW Feeder

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 540mm, 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 A6, A5, A4, and A4 landscape on stock up to 400gsm (300gsm on the 160VF). Booklets of up to 160 pages of 80gsm, or up to a thickness of 8mm can easily be produced, replacing the need for perfect binding of many publications.

PowerSquare™ 160VF



“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.”



PowerSquare™ 160VF with 2 knife trimmer

Key features:

- **Paper Size 160VF** - Min: 140 x 210mm to Max: 350 x 620mm
- **Paper Size 160** - Min: 140 x 200mm to Max: 370 x 620mm
- **Stock Range 160VF** - 60 - 300gsm dependent on paper
- **Stock Range 160** - 60 - 400gsm dependent on paper
- **Book thickness:**
 - Minimum set thickness - 1 sheet 80gsm (when folded makes an 4 page leaflet)
 - Maximum finished book thickness - 8mm (approx 160 pages 80gsm)
 - Maximum set thickness - 4mm (approx 40 sheets 80gsm)
- **Stapling** - Auto-adjusting staple pitch according to sheet size, range 105-150mm
- **Staples per cartridge** - 5000

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, providing a professional solution for full-bleed printed work, especially important for colour 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

User Interface

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



Monitored Paper Flow

Unique paper transport system with constant position monitoring ensures accurate and consistent paper handling. This ensures optimal sheet management and fold quality even with long sheets.



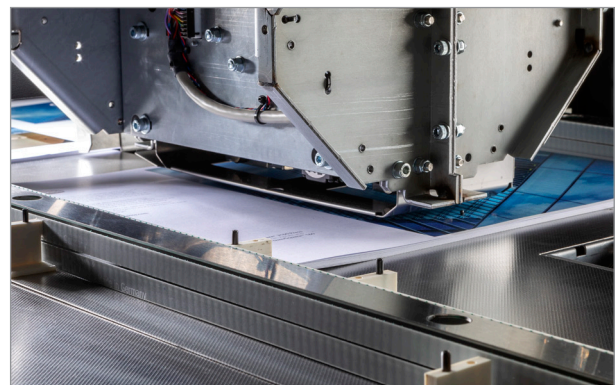
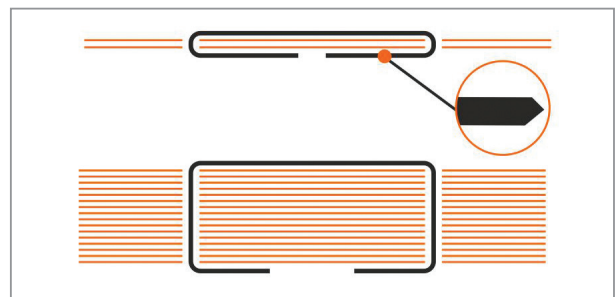
Collating station with the "tumbler" folding a sheet over to the station

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

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 dependant on book thickness.



Stapling Station

Technical Specifications

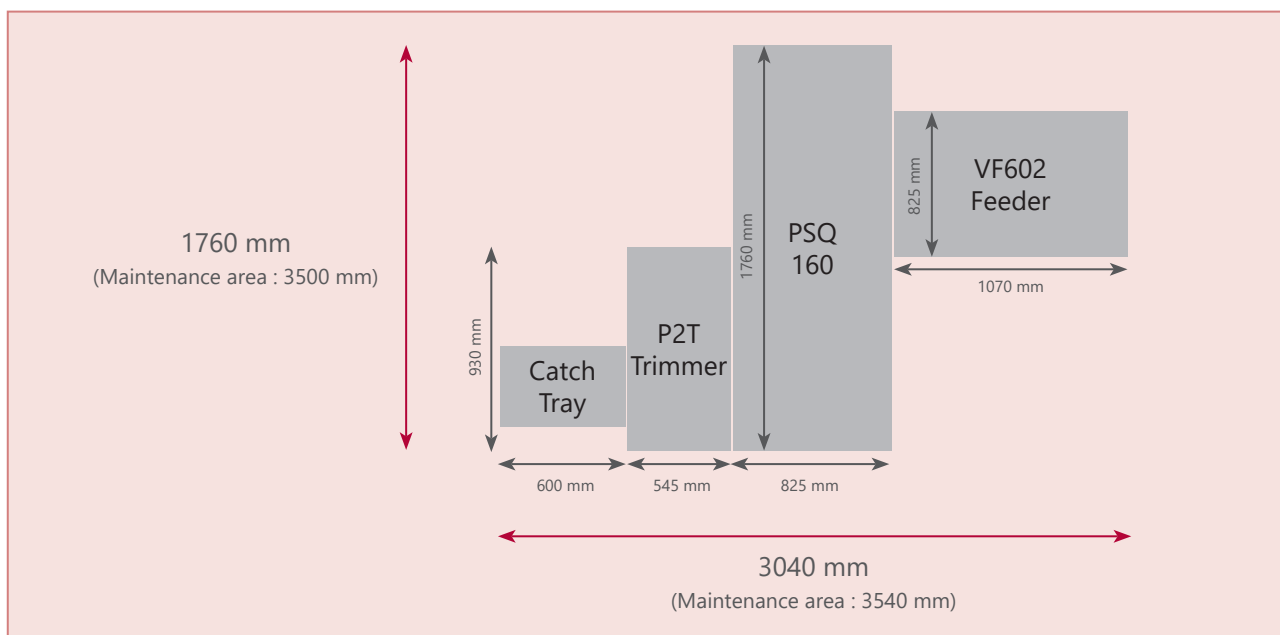
PowerSquare™ 160

Paper Size	Minimum 140 x 200mm to maximum 370 x 620mm
Stock Range	60 - 400gsm dependent on paper type and quality
Book thickness	Minimum set thickness - 1 sheet 80gsm (when folded makes an 4 page leaflet)
	Maximum finished book thickness - 8mm (approx 160 pages 80gsm)
	Maximum set thickness - 4mm (approx 40 sheets 80gsm)
Stapling	2 low impact staple heads with moving clinchers. Auto-adjusting staple pitch according to sheet size, range 105-150mm
Staples per cartridge	5000
Book Stacker	Stacks books up to 930mm (cannot handle A4 landscape books)

PowerSquare™ 160VF

Paper Size	Minimum 140 x 210mm to maximum 350 x 620mm
Stock Range	60 - 300gsm dependent on paper type and quality
Book thickness	Minimum set thickness - 1 sheet 80gsm (when folded makes an 4 page leaflet)
	Maximum finished book thickness - 8mm (approx 160 pages 80gsm)
	Maximum set thickness - 4mm (approx 40 sheets 80gsm)
Stapling	2 low impact staple heads with moving clinchers. Auto-adjusting staple pitch according to sheet size, range 105-150mm
Staples per cartridge	5000
No. of bins	2
Bin capacity	2 x 270mm
Book Stacker	Stacks books up to 930mm (cannot handle A4 landscape books)

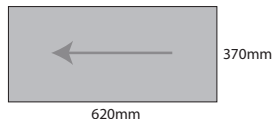
PowerSquare™ 160VF with 2 knife trimmer - machine footprint



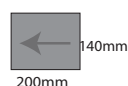
PowerSquare™ 160 and 160VF

PowerSquare™ 160 Hand fed book sizes

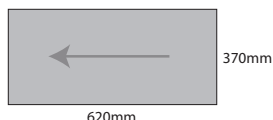
Max: Paper size :
620mm x 370mm



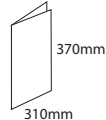
Min: Paper size :
200mm x 140mm



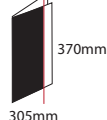
Max. Paper size :
620mm x 370mm



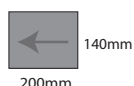
Max. Folded size :
310mm x 370mm



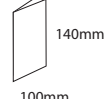
Max. Book size :
305mm x 370mm (5mm trim)



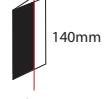
Min. Paper size :
200mm x 140mm



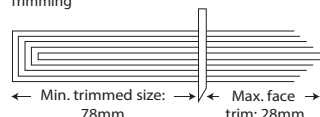
Min. Folded size :
140mm x 100mm



Min. Book size :
140mm x 78mm



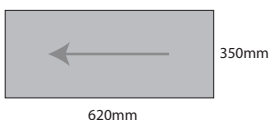
Trimming



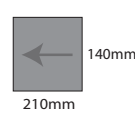
Max. face trim: 28mm
Recommended min face trim : 1mm
Min. trimmed book size : 78mm
Max. trimmed book size : 305mm

PowerSquare™ 160 VF book sizes

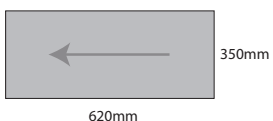
Max: Paper size :
620mm x 350mm



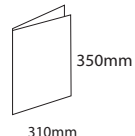
Min: Paper size :
210mm x 140mm



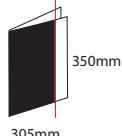
Max: Paper size :
620mm x 350mm



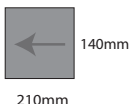
Max. Folded size :
310mm x 350mm



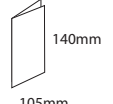
Max. Book size :
305mm x 350mm (5mm trim)



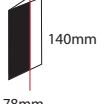
Min. Paper size :
210mm x 140mm



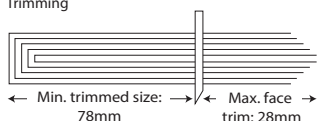
Min. Folded size :
105mm x 140mm



Min. Book size :
78mm x 140mm



Trimming



Max. face trim: 28mm
Recommended min face trim : 1mm
Min. trimmed book size : 78mm
Max. trimmed book size : 305mm

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*Disclaimer As part of our continued product improvement plan, specifications and information published here are subject to change without notice. All specifications are dependent on application, type of stock, temperature, RH and print engine used. Specifications quoted were measured on uncoated and unprinted stock. E & OE.