

Horizon

CUTTING AND CREASING

SmartSlitter

Crease, Perforate,
and Cut in One Pass.



SHEET CUTTING, CREASING, AND PERFORATING IN ONE PASS.

A quality finishing process for digitally printed sheets.



BENEFIT

LABOR SAVING

The creasing, perforating and sheet cutting can be performed in one pass for various applications such as business cards, shop cards, invitation cards, greeting cards, laminated sheets, and covers for perfect binding.

APPLICATION FLEXIBILITY

The SMSL-PR optional perforation cassette enables skip perforation for various applications such as coupons, tickets and checks.

USER-FRIENDLY OPERATION

New high resolution color touch screen display for easy and intuitive operation.

HIGHEST PRECISION

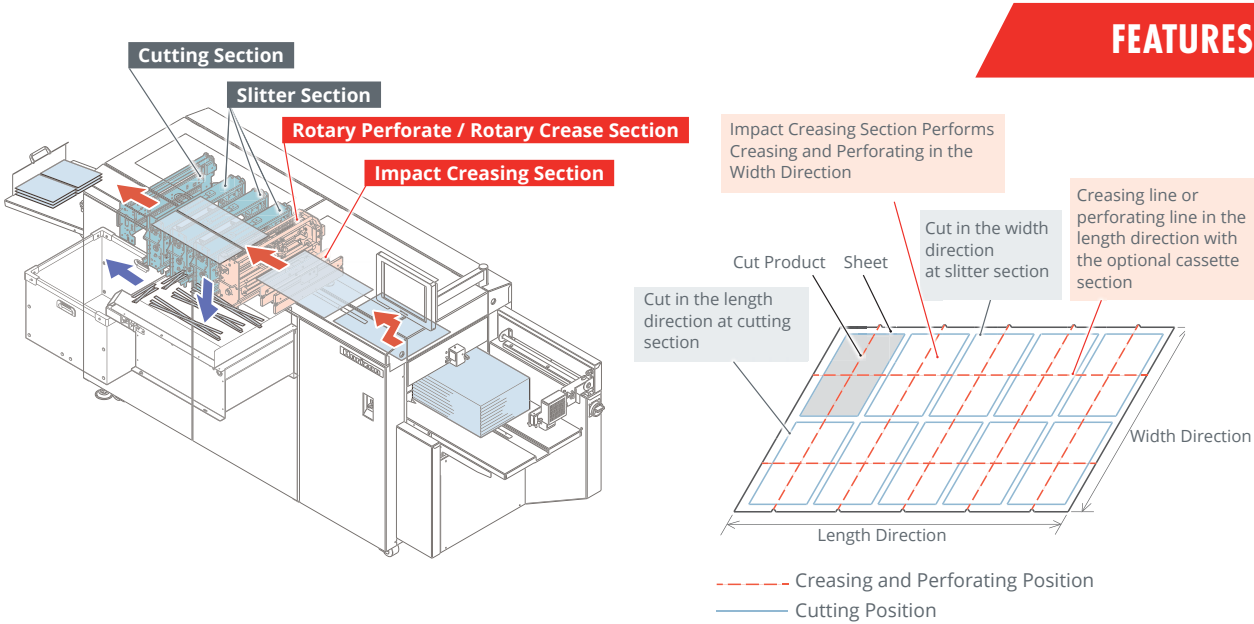
The camera device detects the print registration by reading the barcode or mark printed on the sheet. The position of the slitter, creaser, and cutting position are adjusted according to image shift.

MANAGE YOUR BINDERY WITH PXNET

System can be enhanced with JDF workflow from upstream to postpress using the Horizon pXnet Bindery Control System.

KEY FEATURES.

The SmartSlitter performs various finishing styles in a single pass including cutting, creasing and perforating.

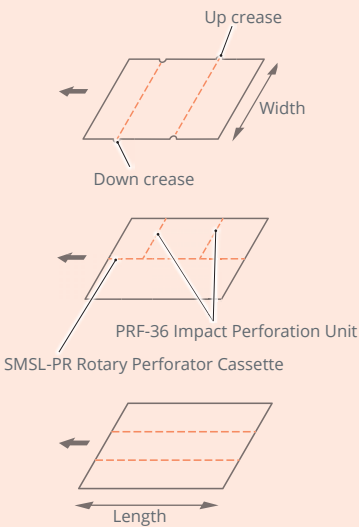


Impact Creasing Section

The creasing lines and perforating lines are made in the width direction.

Up and down creasing can be selected from the touch screen, depending on fold direction.

Perforation can be performed by using the PRF-36 perforation tool. Partial perforation can be also performed by cutting the perforation blade by the desired length.



Rotary Perforate / Rotary Crease Section

Creasing lines or perforating lines can be made in the length direction.

Either SMSL-PR rotary perforator cassette or SMSL-CR rotary creasing cassette can be used according to desired finish style.

Skip perforation is available with SMSL-PR perforation cassette.

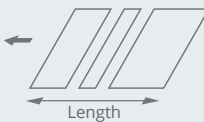
Slitter Section

The slitter blades cut each sheet into three parts at maximum in the width direction. (Single cut or gutter cut for image bleed)



Cutting Section

The cutting knives cut each sheet in the length direction. (Single cut or gutter for image bleed)



DETAILS FOR EACH DEVICE.

From start to finish.

1 OPERATION CONSOLE

Changeovers including sheet size, imposition, cutting position and processing type (creasing or perforating) can be done easily at the newly equipped high resolution touchscreen. Up to 200 jobs can be stored in memory for easy recall.



2 FEED SECTION

Uniquely designed suction belt feeding system enables stable feeding performance even with heavier sheets. An ultrasonic sensor ensures miss or double detection regardless of the print image or thickness of sheets.



3 TRANSPORT SECTION

The sheets will be aligned via the vacuum registration system during transport. The optional camera device detects the print registration by reading the barcode or mark printed on the sheet. The position of the slitter, creaser, and cutting position are adjusted according to image shift.



4 IMPACT CREASING SECTION

Up to 20 creasing lines can be made with the standard equipped creasing unit. The positive and negative creasing lines can be made in one pass. The creasing depth can be adjusted according to the sheet thickness. The creasing interval can be adjusted by 0.1 mm or 0.004".



5 ROTARY PERFORATION ROTARY CREASING SECTION

Select the SMSL-PR rotary perforation cassette or the SMSL-CR rotary creasing cassette according to the applications. Cassette removal designed for easy maintenance.



6 SLITTER SECTION

Six rotary slitters accommodate bleed trim or gutter-cuts for 3-up output. These cassettes are easy to maintain.



7 CUTTING SECTION

The cutting knives cut each sheet across the feed direction. Single cut or bleed/gutter cut is possible.

8 STACK TRAY

Processed sheets are delivered on the tray.

OPTIONS.

Performance Enhancing Options.

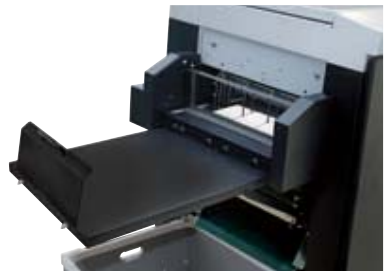
SMSL-CV/CONVEYOR

- Motor driven conveyor. The finished product can be delivered on the motor driven conveyor. Batch and pausing can be performed by the pre-set number set at the touch screen.



SMSL-ST/STACKER

- Stacker delivery device. Suitable to receive small products such as business cards or greeting cards. Stacker tray height descends automatically. It can stack up to 90 mm or 3.54" height.



OPTIONS.

Performance Enhancing Options.

PRF-36 IMPACT PERFORATION UNIT

- Perforation lines can be made in the width direction by replacing the first creasing unit with the optional PRF-36.



IMPACT CREASING UNIT

- Different widths of creasing lines are available using this unit:
 - Standard width is 0.8 mm or 0.031"
 - 0.5 mm or 0.020" (thin)
 - 1.3 mm or 0.512" (thick)
 - 2.0 mm or 0.079" (thick)



SMSL-CA CAMERA DEVICE

- This camera reads the print registration mark or barcode to adjust the cutting, perforating and creasing position according to image position. This camera is also used to read the barcode for automatic job set-up.



SMSL-PR ROTARY PERFORATION CASSETTE

- Perforation is performed in the direction of paper feeding.
- Two rotary perforation units are equipped. Skip perforation can be performed.



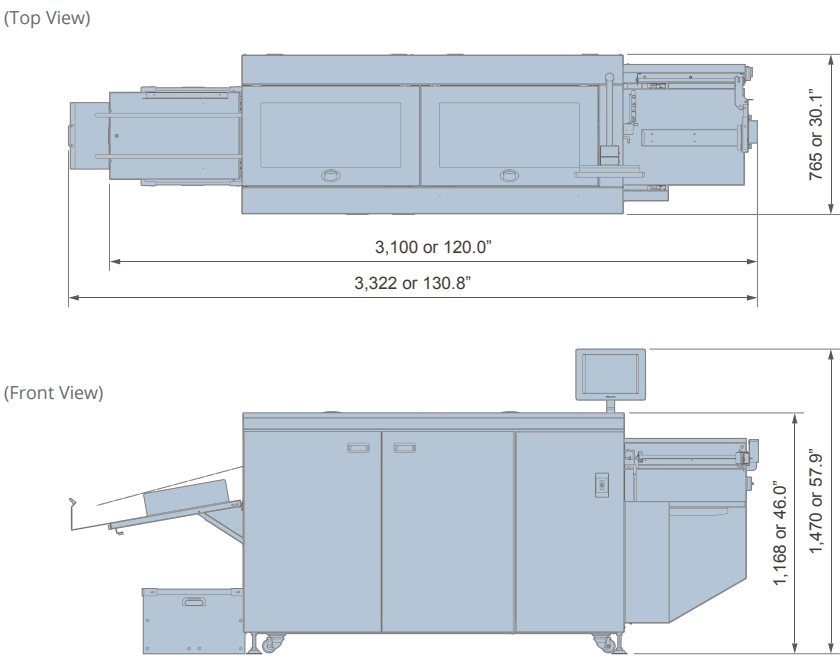
SMSL-CR ROTARY CREASING CASSETTE


- Creasing is performed in the direction of paper feeding.
- Two rotary creasing units are equipped.



SPECIFICATIONS.

Machine Dimensions. (Unit: mm or inch)



SMSL-100 SPECIFICATIONS		
Installation Type	Floor Model	
Sheet Feeding System	Air Suction Feed Belt	
Sheet Size		Width x Length Max. 370 x 670 mm or 14.565" x 26.375" Min. 200 x 200 mm or 7.875" x 7.875"
Finished Sheet Size	Width x Length Max. 370 x 670 mm or 14.565" x 26.375" Min. 48 x 50 mm or 1.890" x 1.970"	
Sheet Weight Range	Normal Paper: 82 to 350 gsm Coated Paper: 105 to 350 gsm	
	SMSL-PR Rotary Perforate Cassette / SMSL-MPR Manual Perforation Cassette / PRF-36 Impact Perforation Unit: Normal Paper: 82 to 209 gsm Coated Paper: 128 to 256 gsm	
Feeder Stack Height	150 mm or 5.9"	
Impact Creasing Mechanism	One positive, one negative	
Number of Impact Creasing Lines	20 crease lines	
Production Speed	54 sheets per minute (A4 short-edge feeding, two cuts, one crease line) 48 sheets per minute (JIS B3 short-edge feeding, two cuts, one crease line)	
Voltage/Frequency	Single Phase 200 to 240 V, 50 or 60 Hz Single Phase 208 to 220 V, 50 or 60 Hz	

Rated Current	Single Phase 200 to 240 V, 50 or 60 Hz, 4.5 A Single Phase 208 to 220 V, 50 or 60 Hz, 4.4 A
Leak Current	Single Phase 200 to 240 V, 50 or 60 Hz, 3.121 mA
Machine Dimensions	W3,100 x D765 x H1,470 mm or W120" x D30.1" x H57.9" (when the tray is used) W2,495 x D765 x H1,470 mm or W98.2" x D30.1" x H57.9" (when the tray is folded) W3,495 x D765 x H1,470 mm or W137.6" x D30.1" x H57.9" (when the optional SMSL-CV is used)
Machine Weight	SMSL-100: 546 kg or 1,202.7 lb SMSL-CR: 14 kg or 30.9 lb SMSL-PR: 17 kg or 37.5 lb SMSL-MPR: 17 kg or 37.5 lb SMSL-CV: 27 kg or 59.5 lb SMSL-ST: 10 kg or 22.1 lb

*The machine design and specifications are subject to change without any notice.

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