



High quality and high production Spreader Feeder !

SONIC

SONIC-ES3 & ES3V



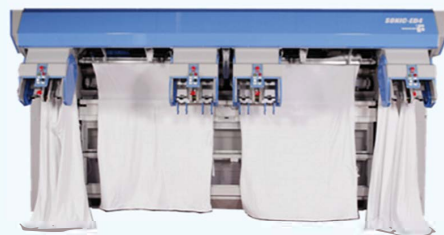
- 3 station + 2 Spreading clamps
(2 Clamps x 1 Pair)
- 1Lane Operation
- Max 1000 pcs/h

SONIC-ES4



- 4 station + 4 Spreading clamps
(2 Clamps x 2 Pairs)
- 1Lane Operation
- Max 1260 pcs/h

SONIC-ED4



- 4 station + 4 Spreading clamps
(2 Clamps x 2 Pairs)
- 1 & 2 Lane Operation
- Max 1Lane : 1260 pcs/h
- Max 2Lane : 1620 pcs/h



TOTOFOLDER MANUFACTURING CO.,LTD.

Very Unique Feeding Station



Feeding stations

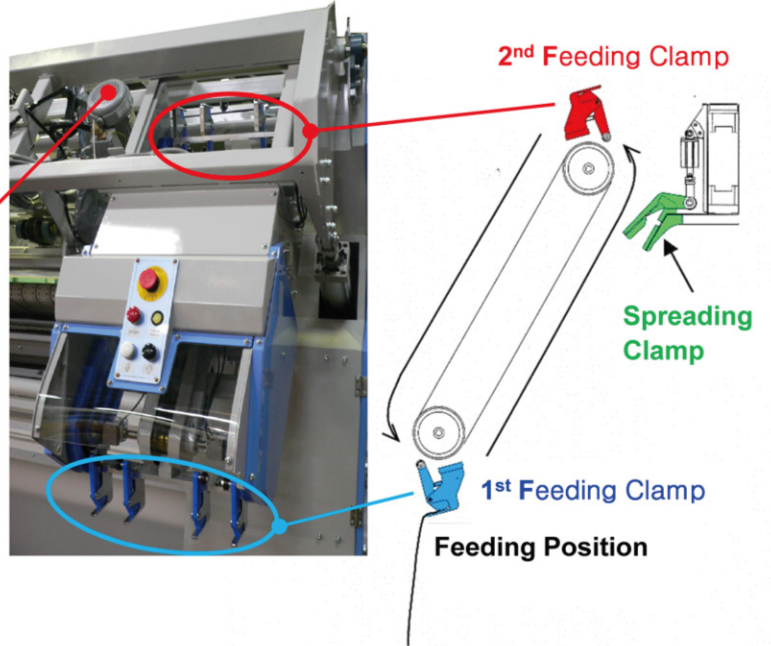
Any special skill is not needed for putting linen on the clamps. After putting it on, feeding starts automatically. When disentangling of the linen is needed after putting it on the clamp, manual start after manual disentangling is available, too.

Handling linen accurately by motor control

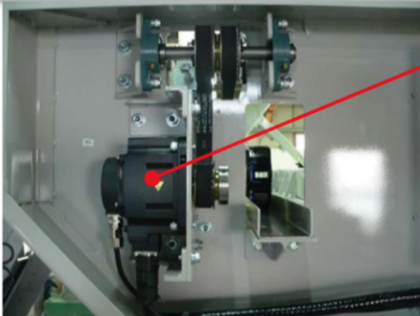
Rising and lowering of feeding clamps are made accurately by 3 phase frequency controlling motor with high speed.

2 sets of feeding clamp in each feeding station

By adapting rotation system, when delivery of linen to spreading clamp is completed, another set of feeding clamp is ready for clamping next linen. Operator need not wait for returning of feeding clamp. Speedy clamping work secures sufficient production capacity.



High-speed Spreading Clamps



Servo motor control

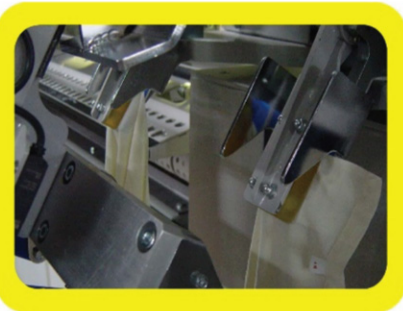
Each spreading clamp is driven by a separate high-speed servo motor and toothed belt.

Advantage : Extreme dynamic drive of the spreading clamps, resulting in fast and very precise positioning of the sheet. The servo motors also are very responsive to changes in tension, which leads to a straight leading edge.



Lint free guiding rail

The spreading clamps run on a robust and heavy caliber guiding rail. The rail is chrome coated, making it extremely smooth and lint does not accumulate.



The Transfer Plate moves back and forward and picks up the sheet from the spreading clamps to deposit on the output conveyor.

The transfer plate has suction for better grip.

But next to the suction the transfer plate has other features, which are real Unique Selling Propositions below an overview.

Servo motor control

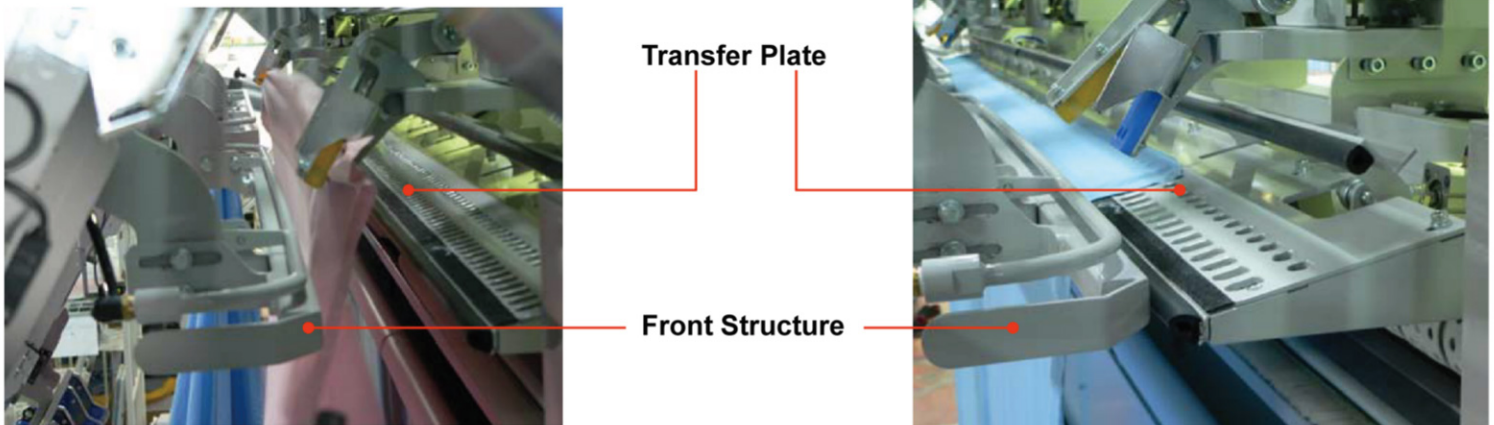
A high speed servo motor assures optimal speed synchronization between transfer plate, spreading clamps and output conveyor.

Advantage : High speed feeding without compromising the feeding quality (straight leading edge,...)

Front structure

The 'front structure' is a fixed bar. When the transfer plate takes over the linen from the spreading clamps it moves towards the 'front structure' and presses the linen against it.

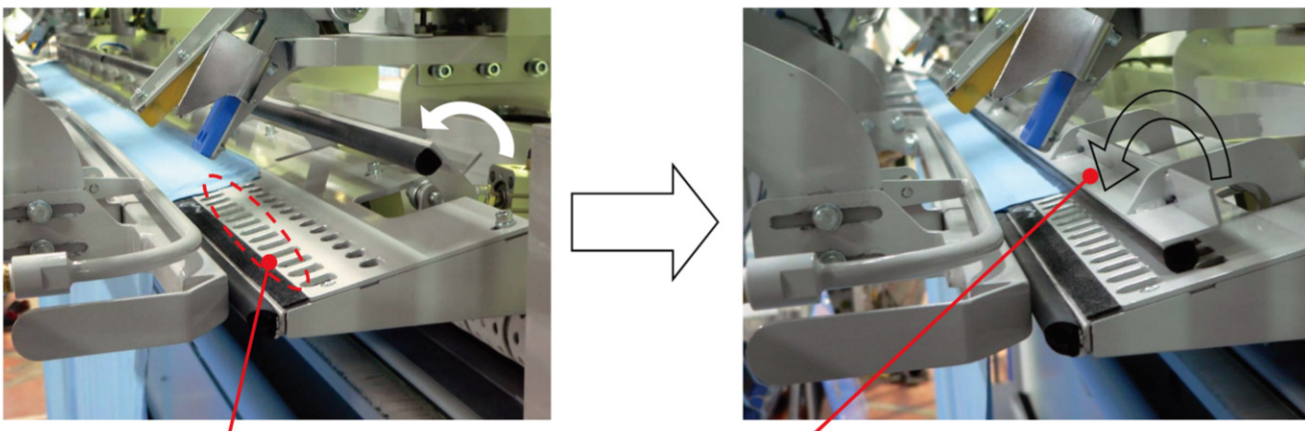
Advantage : Sheets, even heavy (table linen, duvets,..) stay in place and do not slip when going over from spreading clamps to transfer plate.



Pinch Clamp

Pinch clamp is mounted on the transfer plate and holds the sheet in position while the plate is moving backward to deposit the sheet on the exit conveyor.

Advantage : The sheets are held in place during transfer to the out-put conveyor. The pinch clamp prevents the sheets from moving or sliding and therefore the transfer plate can move at high speed.



"Vacuum catch"

Ejection pipe is installed inside transfer plate. Linen is sucked and held through it when delivering linen to transfer plate

"Pinch clamp"

Pinch clamp places a leading edge of the linen securely on the transfer plate mechanically. It is specially effective for heavy and slippery linen.

Smoothing brush & "Suction Flap"



Smoothing brush (For SONIC-ES3)

This unit is installed just under the delivery conveyor.

Linen is held by delivery conveyor with front end, and sucked in by suction vacuum with tail end.

Smoothing brush works for removing small vertical wrinkle effectively with brushing the linen toward outside.



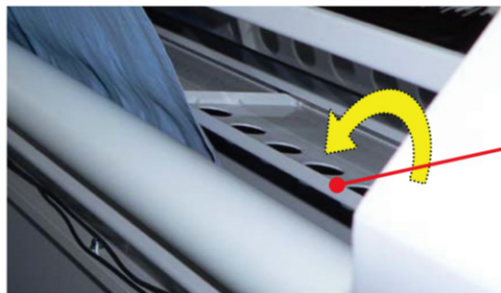
Vacuuming Spreading belt (For SONIC-ES3V, ES4, ED4)

This unit is installed just under the delivery conveyor.

The linen is extended by the vacuuming belt method.

It is effective for sucking out the air that enters into duvet cover.

Vacuuming belt works for removing small vertical wrinkle effectively with brushing the linen toward outside.



"Suction Flap" structure (For All SONIC)

Movement (open/close) of flap controls efficiency of suction.

It is effective for giving finer shaking so that more beautiful feeding quality is obtainable.

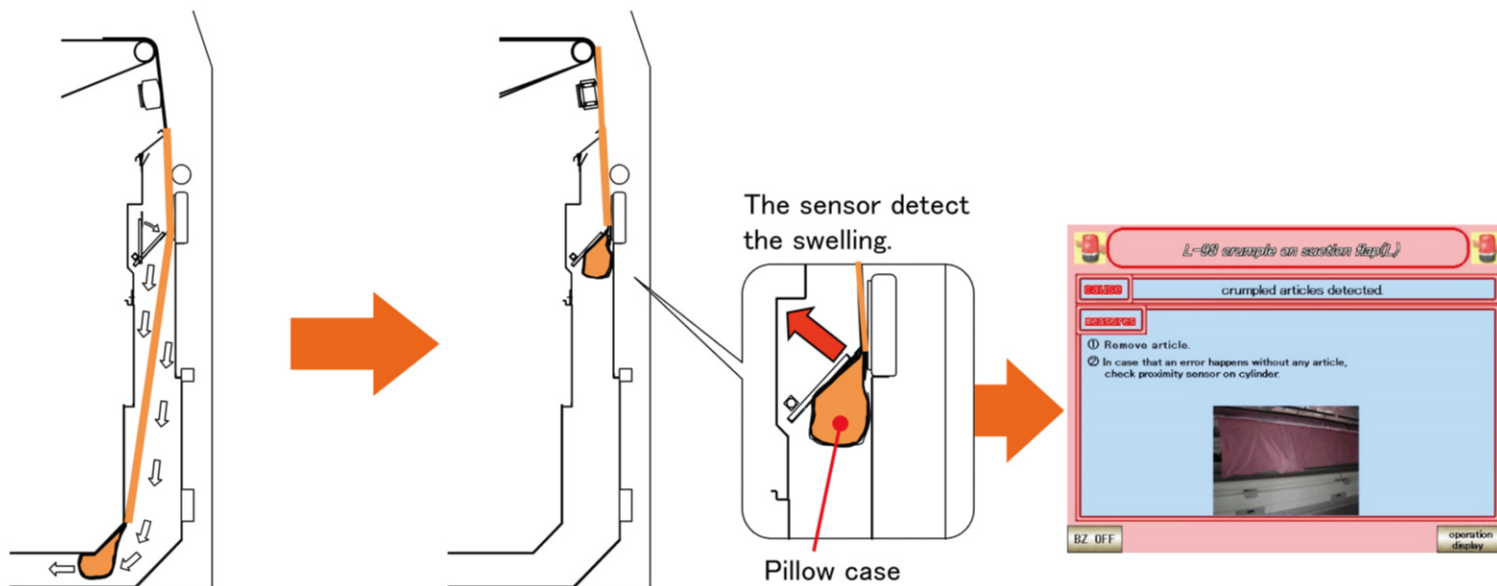
Swelled articles detecting system.

When a pillow case is in the duvet cover, the tail end of duvet cover is swelled.

It is cause a big trouble, if this go to the ironer without removing the pillow case.

When there is swelling, the flap board is lifted up by swelling.

At this moment, the sensor on the flap board detect the swelling. And the machine stop for safety.



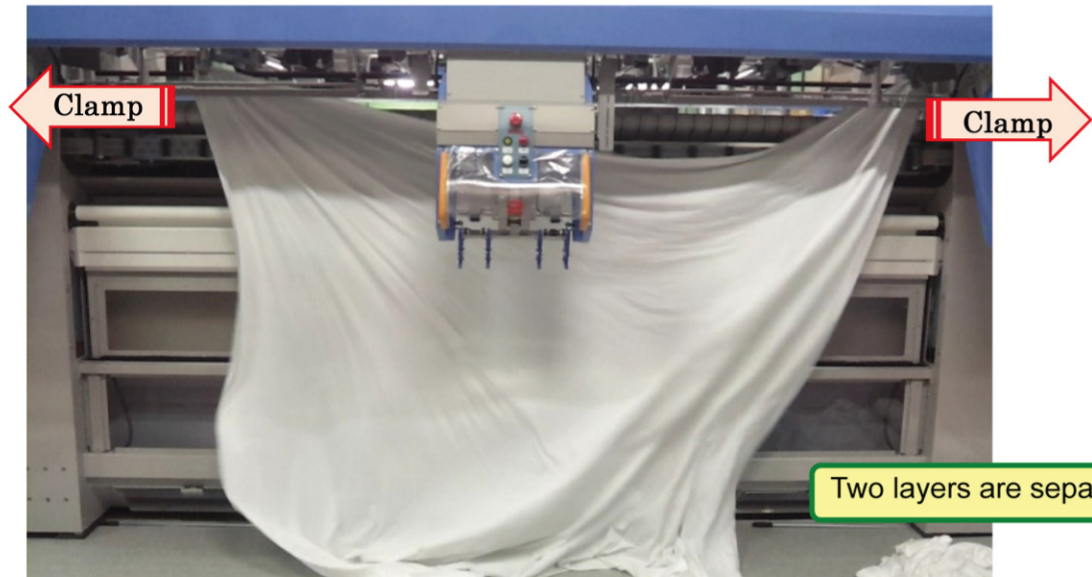
Duvet Cover Shaking Action !

Patent application

★Duvet cover is swayed and wrinkles are removed !

In the duvet cover feeding, most of the reason of wrinkles are that the surface of two layers are shifted each other during washing process.

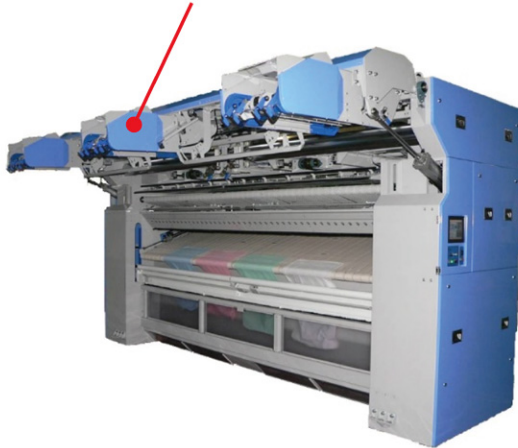
By the function of " Duvet cover shaking action", the spreading clamps move right and left after spreading the duvet cover so that shake the duvet cover. By the effect of this action, two layers of duvet cover separate each other and wrinkles would be removed.



Bypass conveyor for manual feeding

Feeding stations open

Operator can access closely to conveyor.



Pillow case, napkin, etc.

Items such as small piece and napkin which can not be fed by feeding clamp is put directly on the bypass conveyor by hand. When putting pillow case on the bypass conveyor, input roller takes it in suction box.

Feeding is made with removing the small wrinkle by vacuum fan.



Touch Screen for easy operation

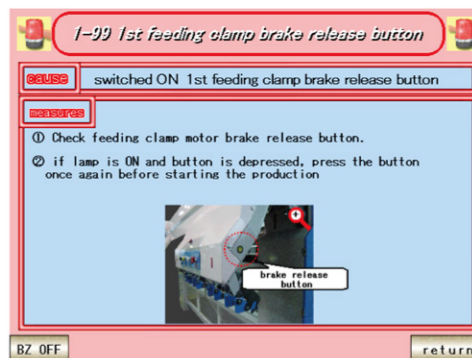
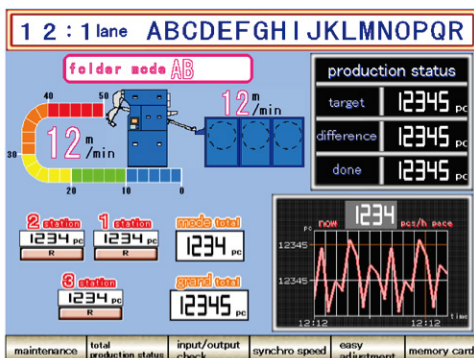
10 inch colour touch Screen

Large LCD touch Screen is easy for sight and operation.

Detail of trouble can be seen easily by photo and picture.

Up to 32 programmes can be memorized.

Interface(program selection, speed synchronization, etc.) with ironer and folder is available.

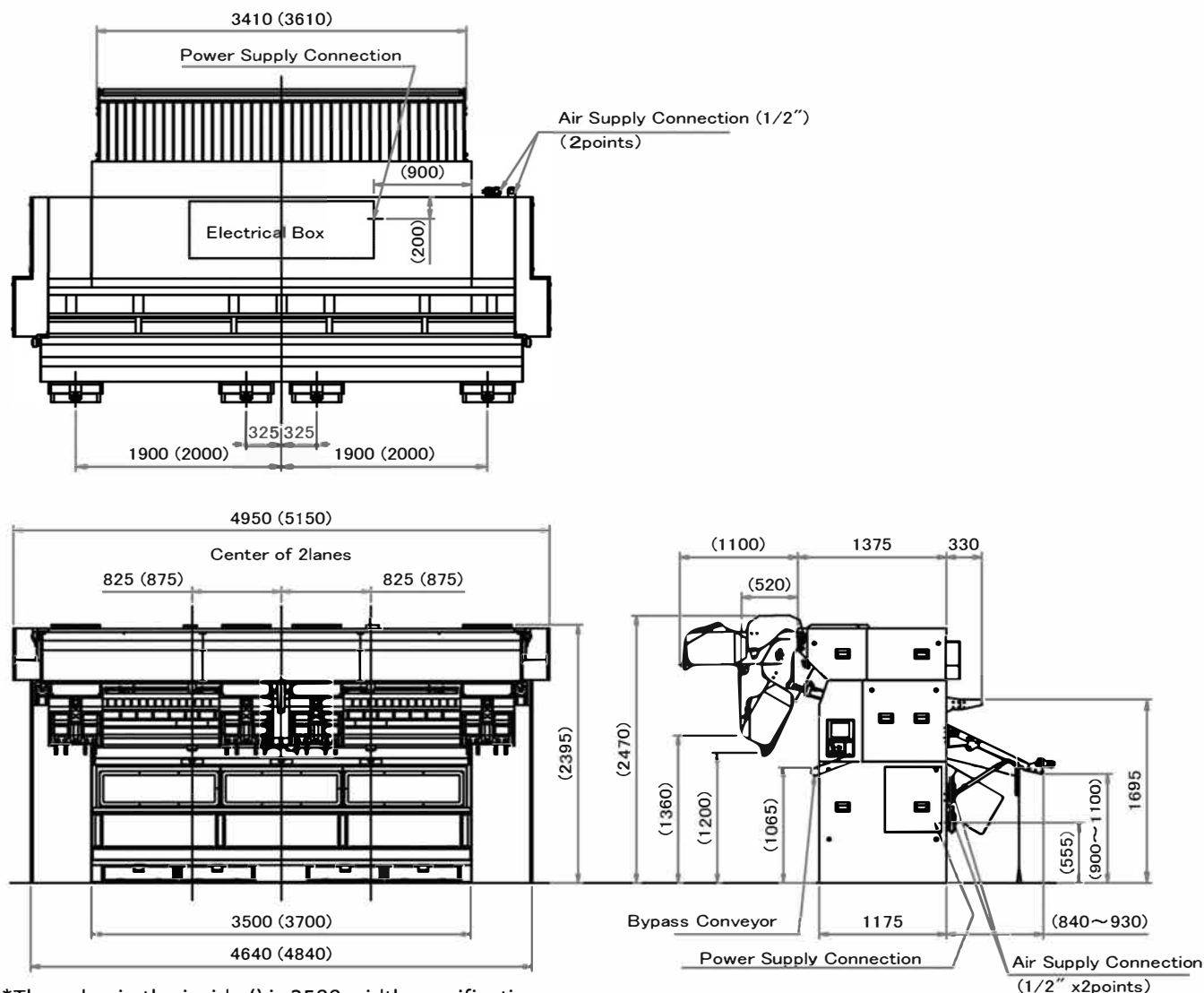


SPECIFICATIONS

Model No.		SONIC-ES3,ES3V	SONIC-ES4	SONIC-ED4
Applications		Sheets, Table cloth, Duvet cover, etc		
Production capacity		1Lane:1000pcs/h ※1	1Lane:1260pcs/h ※1	1Lane:1260pcs/h ※1 2Lane:1620pcs/h ※2
Maximum size of article applied	3300mm	1lane W:3300 x L:3000	1lane W:3300 x L:3000	1lane W:3300 x L:3000 2lane W:1600 x L:3000
	3500mm	1lane W:3500 x L:3000	1lane W:3500 x L:3000	1lane W:3500 x L:3000 2lane W:1700 x L:3000
Number of stations		3	4	4
Number of Spreading Clamp		2	4	4
Conveyor Speed		10-45M/min	10-60M/min	10-60M/min
Power supply		200VAC 50/60Hz		
Power capacity		7.7Kw	11.05Kw	11.45Kw
Circuit breaker		40A	60A	60A
Air	Pressure	0.6Mpa		
	Consumption	500L/min	600L/min	600L/min

※1:Data with a sheets size of W2700 x L1800mm for 1Lane feeding.

※2:Data with a sheets size of W1500 x L1800mm for 2Lane feeding.



*The value in the inside () is 3500 width specification.

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