

Horizon

AF-49SC/544SC

Ultimate Solution
in Parallel Folding



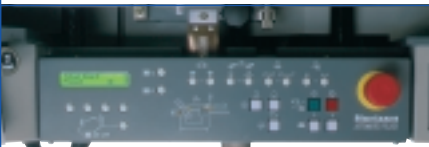
Horizon introduces two new parallel folding machines, AF-49SC and AF-544SC. The AF-49SC features two parallel fold buckles and is suitable for simple single or letter fold jobs. The AF-544SC features four parallel fold buckles. With the optional gate fold buckle, the AF-544SC can fold A4-size finish gate fold.

Buckle (AF-544SC)



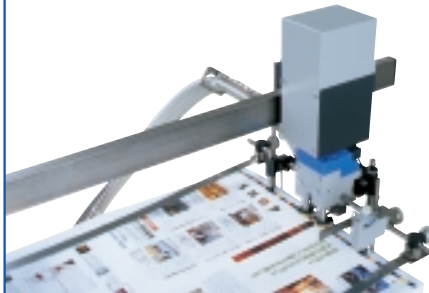
- The specially-coated fold plate creates less friction with the paper to help maintain fold accuracy.

Operation Panel (AF-544SC)

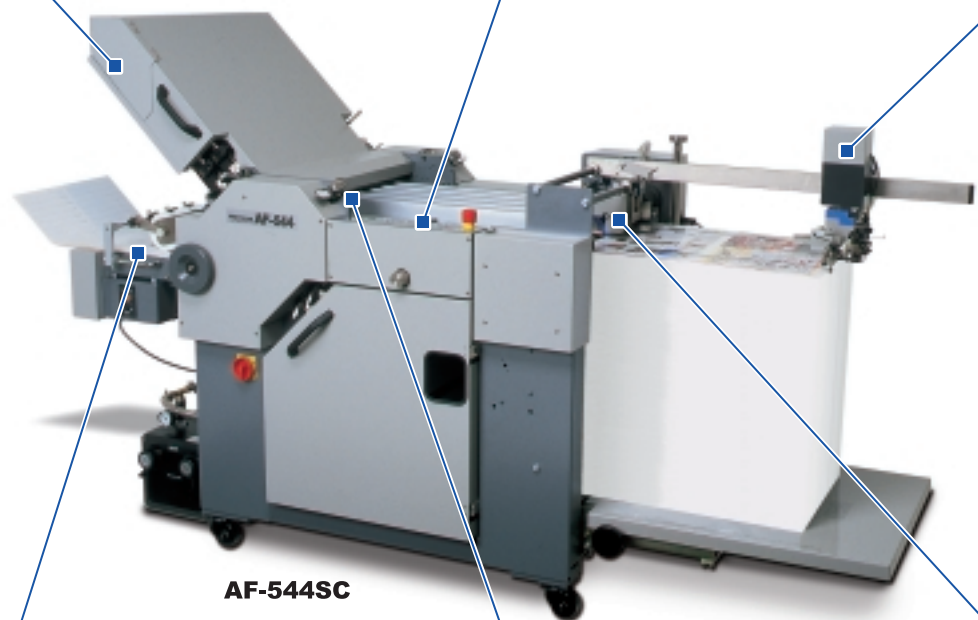


- Feed time and feed interval can be adjusted for constant feed on varying paper stocks.
- Preset stop, preset pause, and continuous feed can be selected.
- In the event of a feed error, the system stops immediately and the display shows nature and location of the error.

Suction Head



- Two cylinder suction head system provides accurate sheet separation for high speed feeding.
- Innovative suction head allows smooth feeding without double feeding even with recycled papers.

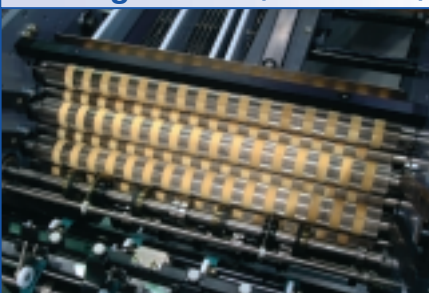


Delivery Conveyor



- The speed of the delivery conveyor is simply adjusted steplessly to best suit your job requirements.
- The delivery conveyor on AF-544SC is prepared for receiving two-up application.

Folding Rollers (AF-544SC)



- The uniquely designed combination of urethane foam (soft PU) rubber and steel rollers have superior grip for sharp, consistent paper folding.
- The fold roller system employs helical gears for quiet operation and flexible cross couplings for quality folding.

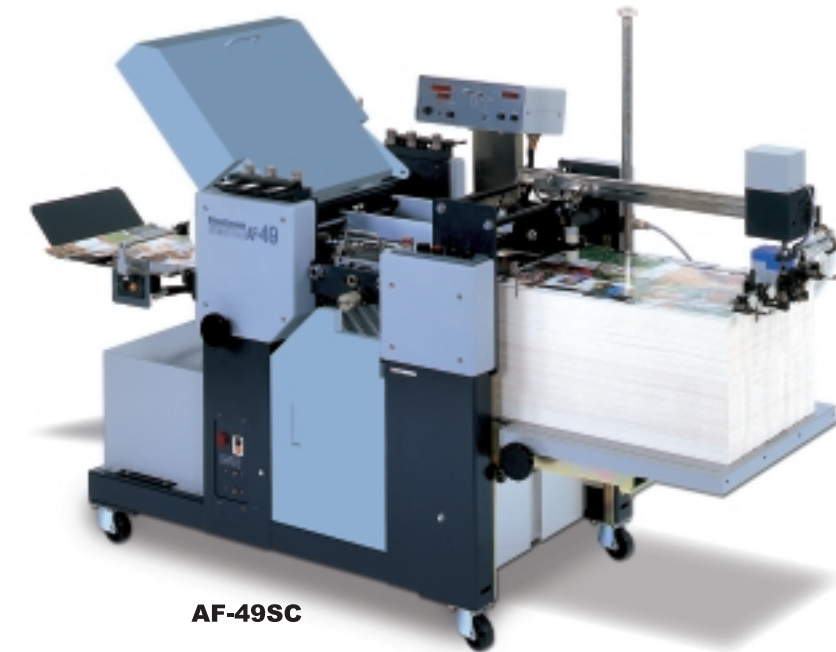
Feed Rotor



- Suction angle can be adjusted for various sheet types.
- The feed rotor employs high quality polyurethane to prevent sheet scratching or glittering.

● Comparison Table of Major Features

Model	AF-49SC	AF-544SC
Number of Buckle	2	4
Production Speed	32,000 (A6 Parallel Fold)	35,000 (A4 Parallel Fold)
Maximum Sheet Size (W x L)	490 x 648 mm (19.2" x 25.5")	538 x 750 mm (21.1" x 29.5")
Feed Table Pile Height	590 mm (23.2")	650 mm (25.5")
Fold Rollers	Steel and Rubber	Steel and Urethane Form Rubber
Buckle Deflector	Flip-over type	Integrated Deflector



AF-49SC/544SC Options

■ **RFU-54 : Round Pile Feeder Unit**
(AF-544SC Only)
The RFU-54 can be attached or detached to the folder without removing the standard flat pile feeding table on the folder.



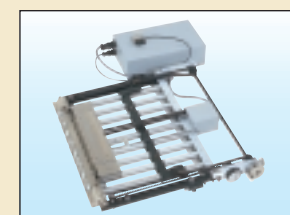
■ **AF-ST5 : Strip Trim Device**
(AF-544SC Only)
Strip trimming is available for multiple-up jobs with slitter.



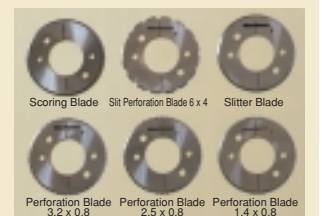
■ **Extension Table**
(AF-544SC Only)
With the extension table and suction head stay, up to 1,100 mm (43.3") long sheet can be loaded for gate folding operation.



■ **GFB-54N : Gate Fold Buckle**
(AF-544SC Only)
The optional gate fold buckle provides for precise, accurate gate folding.



■ **Blades**
(Slit Perforation Blade for AF-544SC Only)
A wide variety of optional blades are available for various applications, including slitter blades, different length perforation blades, and scoring blades.



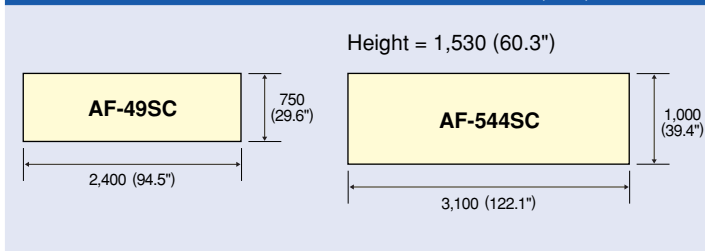
AF-49SC Major Specifications

Machine Structure	2 Buckles		
Max. Sheet Size	Max. 490(W) x 648(L) mm (19.2" x 25.5")		
Min. Sheet Size	Min. 105(W) x 174(L) mm (4.2" x 6.9")		
Sheet Weight Range	35 to 157 gsm		
Buckle Fold Length	1st Buckle	30 to 450 mm (1.2" to 17.8")	
	2nd Buckle	30 to 360 mm (1.2" to 14.1")	
Feeding Mechanism	Air Suction Rotor & 2 Cylinder Separator Head (Feed interval and suction time are adjustable.)		
Maximum Pile Height	Max. 590 mm (23.2")		
Production Speed	32,000 sheets/hr. [A6-Parallel Fold]		
	12,000 sheets/hr. [469.5(W) x 636(L) mm (18.5" x 25.0")-Parallel Fold] Cut : 3.2 mm (0.13"), Blank : 0.8 mm (0.03") (Optional parts are necessary.)		
Perforation	Min. Perforation Distance : 40 mm (1.58")		
	Min. Distance from Sheet Edge : 12 mm (0.48")		
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz		
	3-Phase 400 V, 50 Hz		
Rated Current	3-Phase 200 V	50 / 60 Hz	10.5 / 8.7 A
	3-Phase 400 V	50 Hz	4.5 A
Power Consumption (Including Pump)	3-Phase 200 V	50 / 60 Hz	2.1 / 2.6 kW
	3-Phase 400 V	50 Hz	2.1 kW
Motors	400 W x 1 / 200 W x 1 / 15 W x 1 / 6 W x 1 / 1.5 kW x 1 (Pump)		
Machine Dimensions	2,400(W) x 750(D) mm (94.5" x 29.6")		
Machine Weight	450 kg (992.3 lb.)		

AF-544SC Major Specifications

Machine Structure	4 Buckles		
Max. Sheet Size	Max. 538(W) x 750(L) mm (21.1" x 29.5") [1,100(L) mm (43.3") with optional extension table]		
Min. Sheet Size	Min. 120(W) x 148(L) mm (4.8" x 5.9") [Side Lay Guide Minimum Set Position : 74(W) mm (3.0")]		
Sheet Weight Range	35 to 220 gsm		
Buckle Fold Length	1st Buckle	30 to 450 mm (1.2" to 17.8")	
	2nd Buckle	30 to 360 mm (1.2" to 14.1")	
	3rd Buckle	30 to 360 mm (1.2" to 14.1")	
	4th Buckle	30 to 360 mm (1.2" to 14.1")	
Feeding Mechanism	Air Suction Rotor & 2 Cylinder Separator Head (Feed interval and suction time are adjustable.)		
Maximum Pile Height	Max. 650 mm (25.5") [within 250 kg (551.3 lb.)]		
Belt Speed	50 to 230 m (54 to 250 yd.)/min.		
Production Speed	35,000 sheets/hr. [A4 (8.5" x 11")-Parallel Fold]		
	16,000 sheets/hr. [469.5(W) x 636(L) mm (18.5" x 25.0")-Parallel Fold]		
Standard Fold Roller	Combination of Urethane Foam (soft PU) Rubber and Steel Roller Side cut blades can be attached to the roller.		
Roller Gap Adjustment	Insert the instructed number of sheets into the gap adjust lever. Cut : 2.5 mm (0.1"), Blank : 0.8 mm (0.03")		
Perforation	[Option : Cut 3.2 mm (0.13"), Blank 0.8 mm (0.03") / Cut 1.4 mm (0.06"), Blank 0.8 mm (0.03")]		
	Min. Perforation Distance : 40 mm (1.58") Min. Distance from Sheet Edge : 12 mm (0.48")		
Scoring	Scoring Width : About 1 mm (0.04") (Depends on sheet type)		
Cutters	Standard : 1 Slit Perforation Blade, 2 Perforation Blades Max. 12 blades can be attached.		
Deflectors	1st to 4th Buckle	Buckle Stopper and Deflector	
	Flow	40 m ³ /hr.	
Vacuum Pump	Voltage / Frequency	3-Phase ∇230 / Y400 V ±10 % 50 / 60 Hz	
	Power Consumption	1.8 / 2.2 kW (50 / 60 Hz)	
Voltage / Frequency	3-Phase 200 / 208 / 220 V, 50 / 60 Hz		
	3-Phase 380 / 400 / 415 V, 50 Hz		
Rated Current	3-Phase 200 V	50 / 60 Hz	7.8 / 9.4 A
	3-Phase 208 V	50 / 60 Hz	8.1 / 9.3 A
	3-Phase 220 V	50 / 60 Hz	7.7 / 8.2 A
	3-Phase 380 V	50 Hz	4.5 A
	3-Phase 400 V	50 Hz	4.8 A
	3-Phase 415 V	50 Hz	4.9 A
Power Consumption (Including Pump)	3-Phase 200 V	50 / 60 Hz	2.3 / 2.9 kW
	3-Phase 208 V	50 / 60 Hz	2.4 / 3.0 kW
	3-Phase 220 V	50 / 60 Hz	2.3 / 2.8 kW
	3-Phase 380 V	50 Hz	2.3 kW
	3-Phase 400 V	50 Hz	2.4 kW
	3-Phase 415 V	50 Hz	2.4 kW
Heat Output	3,220 kJ (770 kcal)		
Motors	0.75 kW x 1 / 0.2 kW x 1 / 25 W x 1 / 2.2 kW x 1 (Pump)		
Machine Dimensions	3,100(W) x 1,000(D) x 1,530(H) mm (122.1" x 39.4" x 60.3")		
Installation Space	4,100(W) x 2,000(D) mm (161.5" x 78.8")		
Noise Level	L _A peak : 89.9 dB, L _{Aeq} : 87.2 dB		
Machine Weight	Main Body : 563 kg (1,241.4 lb.), Conveyor : 20 kg (44.1 lb.), Vacuum Pump : 50 kg (110.3 lb.), Transformer : 43 kg (94.8 lb.)		
	Temperature & Humidity		
Temperature 0°C to +45°C, Humidity 20 % to 75 %RH			

Machine Dimensions Unit : mm (inch)



Manufactured by : Taiyo Seiki Co., Ltd.

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

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