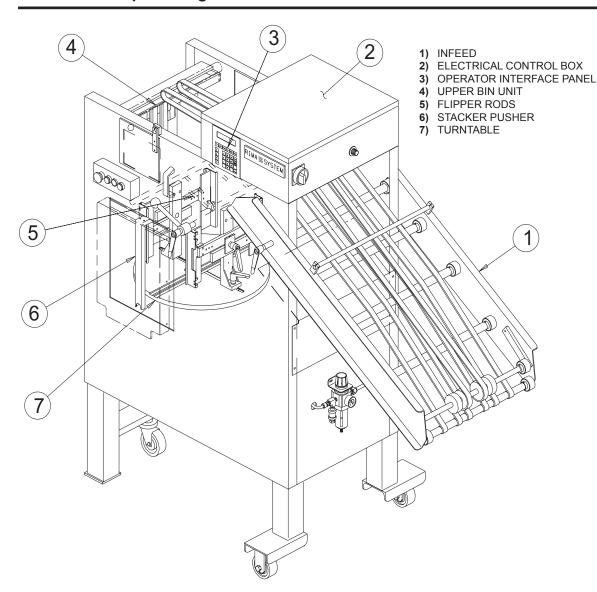


Model: RS-10S

Machine: Compensating Counter Stacker



Application

The RS-10S Compensating Counter Stacker integrates counting, jogging and compensated stacking into a single automated operation to minimize manning requirements. It works behind saddle stitchers, perfect binders, and inserters with simple and quick non-tool setup or change-over regardless of product size, thickness and running speed (within specifications). The output stacks are of excellent quality, ready for packing into boxes, shrink-wrapping, etc.



Machine: Compensating Counter Stacker Model: RS-10S

Function

Individual, side-by-side, or stacks of products are delivered from an upstream system, preferably with the spine leading, and is conveyed by the positive control belt system on the inclined Infeed. The products, or stacks of products are accurately counted just prior to entering the upper bin.

Products accumulate in the bin up to a maximum quantity as selected during the setup procedure. When the "bin count" is reached, the flipper rods in the bottom of the bin rotate and release the products down into the basket on the turntable.

If compensation is desired, the turntable will rotate 180° while products continue to accumulate in the upper bin unit. These operations are repeated until the total number of products selected for the stack is reached. When the stack is complete, it is pushed out (ejected) on to the delivery table.

Features

- Heavy duty steel design
- Caster-mounted for easy transport
- Inclined Infeed ramp with belts and height adjustment
- Photocell product counter
- Minimal drop distance (127mm/5.00") of products into the (upper) bin unit, improving stack integrity
- Upper bin unit product jogger
- Pneumatic Stack ejector (pusher), adjustable in speed
- Pneumatically actuated gates on the turntable basket (optional)



Machine: Compensating Counter Stacker Model: RS-10S

Advantages

- Excellent quality stacks
- Manpower reduction
- Low space requirement
- Very open for viewing product flow and ease of maintenance
- Large, satisfied customer base
- Minimal marking
- Mobile
- Accurate product counts
- Low maintenance
- Time proven design
- Operator interface panel and high speed industry standard PLC. Simple text prompt to set counters and timers. Job parameters such as counter and timer values may be assigned a job number and stored on-line for recall when the same format is run again. Screen displays running speed and totalizer.



RIMA ENTERPRISES does not warrant operating capabilities of equipment. The equipment described herein is powered to cycle mechanically as indicated. However, it must be understood that actual operating capabilities vary under different conditions for which RIMA ENTERPRISES can assume no responsibility. The warranties contained in RIMA ENTERPRISES standard terms and conditions are the only warranties applicable to this equipment. RIMA ENTERPRISES reserves the right to change the specifications of this equipment without notice.



Contents of these documents are the exclusive property of Rima Enterprises and Rima System and may not be used or reproduced in part or whole without expressed written permission. Rima Enterprises and Rima System reserve the right to make changes at any time without prior notification.

Release Date: 12 January '09 Page 3 of 14

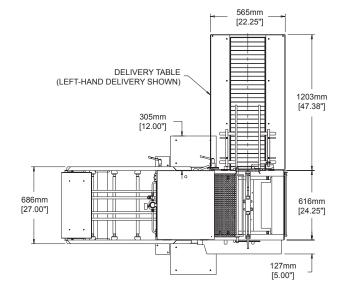


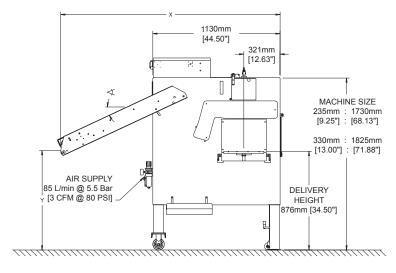
Machine: Compensating Counter Stacker Model: RS-10S

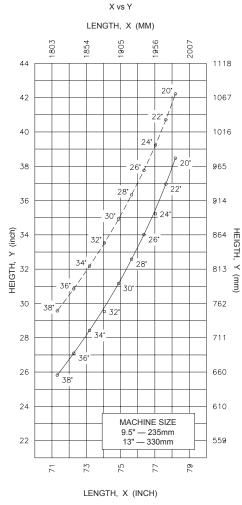
Floor Plan

Dimensions and infeed angles of the RS-10S are shown below.

Suggested infeed angles are based on length (X) and height (Y).









Model: RS-10S

Machine: Compensating Counter Stacker

Product Size		Minimum	Maxin	num		
B	"A" Dimension Standard Optio	n 102mm (4	.00") 320mi	m (12.63")		
D D	"B" Dimension Standard Optio	152mm (6 n 127mm (5	/ ///lm	m (18.50")		
TRAILEL .	"D" Dimension	Limited by	"A" & "B" 520m	m (20.50")		
	Thickness	1mm (0.04	1") 32mm	(1.25")		
		Size 235m	nm (9.25") Size 3	30mm (13.00")		
Stack Height (Maximum)	Upper Bin	127mm (5	.00") 127mi	m (5.00")		
	Total Stack	235mm (9	.25") 330mi	m (13.00")		
Infeed Height	Minimum	660mm (2	6.00") 750mi	m (29.50")		
(See Floor Plan)	Maximum	990mm (3	9.00") 1079n	nm (42.50")		
Delivery Table Height	876mm (34.50")	,			
Product Orientation	Spine Leading	Spine Leading (Preferred)				
Input Power (Standard)	1.5 KVA 50/60 I	1.5 KVA 50/60 Hz 240/280V, 380/400/416V				
Input Power (Servo)	3.0 KVA					
Air Doguiroment	Normal:	45 L/min 2 5.5 b	/min 2 5.5 bar (1.6 CFM @ 80 psi)			
Air Requirement	Maximum:	Maximum: 76 L/min 2 5.5 bar (2.7 CFM @ 80 psi)				
Weight	500 kg (1,100lb)					
Operating Speed	2000 S 19500 p 19000 e 18500 d 18000 , 17500 p 16500 p 16000 h 15500	60mm 200	oper hour vs Product	n 300mm		
	(6") (8") (10") (12") "A" Product Size, mm (in) Stack Cycle Rate (Max) Books/Stack vs. Cycling Speed (Max)					
	Stack/minute	Compensation	4 Books	9,000 pph		
	38	none	5 Books	11,000 pph		
	19		6 Books	13,500 pph		
	12	two	7 Books	15,750 pph		
			8 Books	18,500 pph		
Noise Level DIN 45635 Section	on 27	85 dB(A) N	/laximum			



Model: RS-10S Machine: Compensating Counter Stacker

Specification Numbers

Must Select One Counter/Stacker **RS-1012S** Counter/Stacker

235mm (9.25") stack height with 127mm (5.00") upper bin capacity, single eject

system (left or right), caster-mounted, programmable controller, AC drive.

RS-1013S Counter/Stacker

> 330mm (13.00") stack height with 127mm (5.00") upper bin capacity, single eject system (left or right), caster-mounted, programmable controller, AC

drive.

RS-1015S Counter/Stacker (Front Delivery)

235mm (9.25") stack height with 127mm (5.00") upper bin capacity, single eject system (straight-out only), caster-mounted, programmable controller, AC drive. Size restrictions apply. Minimum "A" dimension 152mm (6.00"); "B" dimension 127mm (5.00"). Maximum "A" dimension 320mm (12.63"); "B"

dimension 320mm (12.63"). (See page 4 for product orientation)

RS-1016S Counter/Stacker (Front Delivery)

> 330mm (13.00") stack height with 127mm (5.00") upper bin capacity, single eject system (straight-out only), caster-mounted, programmable controller, AC drive. Size restrictions apply. Minimum "A" dimension 152mm (6.00"); "B" dimension 127mm (5.00"). Maximum "A" dimension 320mm (12.63"); "B"

dimension 320mm (12.63"). (See page 4 for product orientation)

Standard Features: Pneumatic Stack Eject system (Pusher), Single stage Upper Bin, PLC

Control with Operator Control Panel, AC Main Drive, caster mounted.

Basic Configuration

Must S	Select (One	Input Power

Note: When S- Servo Option is selected, double the Amperage (3.0KW)

RS-1000-001	208V, 3~, GND, 50/60 Hz
RS-1000-002	480V, 3~, GND, 60 Hz
RS-1000-003	200V, 3~, N, PE, 50/60 Hz
RS-1000-004	380V, 3~, N, PE, 50/60 Hz
RS-1000-005	416V, 3~, N, PE, 50/60 Hz
RS-1000-007	400V, 3~, N, PE, 50/60 Hz
RS-1000-008*	115V, 1~, GND, 60 Hz
RS-1000-009	240V, 3~, GND, 60 Hz
RS-1000-020	220V, 3~, GND, 60 Hz

^{*}Not Available with the RS- Servo Options.



Machine: Compensating Counter Stacker Model: RS-10S

Must Select One Scales RS-1000-028 Inch RS-1000-029 mm **Must Select One** Color

RS-1000-080-01 **Light Gray**

RAL7035

RS-1000-080-02 **Dark Gray**

RAL7011

RS-1000-080-03 **Light Two-tone Gray**

Heidelberg ST Series Bindery Equipment

RS-1000-080

Other than RAL7035 or RAL7011-Sample may be required.

Must Select One Delivery Direction

> Note: Direction is relative to the product flow into the stacker. If no Delivery

> > Direction is specified, LEFT will be selected.

RS-1000-050 **Delivery to the Left**

RS-1012S or RS-1013S only.

RS-1000-051 **Delivery to the Right**

RS-1012S or RS-1013S only.

Must Select One Nameplate Language

RS-1000-019 Available in English and EU required languages.

May Select Any Manual-Operation/Maintenance

> One Hard Copy of the Operation/Maintenance Manual is provided at no Note:

charge. Available in English and EU Required Languages. Other Languages

can be provided on a per quote basis.

RS-1000-150 Manual-Operation/Maintenance

Additional Hard Copy

RS-1000-150-CD Manual-Operation/Maintenance

CD with Digital Copy in PDF format.

Release Date: 12 January '09 PRODUCT SPECIFICATION REV: I



Machine: Compensating Counter Stacker Model: RS-10S

Optional Features

May Select Any Delivery Table

See the RS-16 Specifications for Delivery Table Options.

May Select Any Infeed Options

The standard RS-10S Infeed height Range can be found on Page (5)

RS-1000-030 Stacker power cord

Power cord with 8 Pin Cam-Loc plug. Includes Stacker RUN output signal.

RS-1000-031 Interface—Mail Control (Townsort)

Standard 120V mail control. The Mail Table controls the Drop, Compensate and Eject Totals. Includes a Stacker Infeed Belt Encoder Pulse for the Mail Table to track the book up the stacker Infeed. Includes a 2.7M (9') Communication Cable with Amphenol Plug (3106A-28-12S, Female, 26 Pin). Non-Heidelberg applications includes RS-1000-030 power Cord with Cam-Loc Plug. Includes Stacker Stopped Light. Recommend: RS-1000-043 Divert Gate— 110V

(Controlled Externally)

RS-1000-031-24 Interface–Mail Control

24V DC mail control. The Mail Table controls the Drop, Compensate and Eject Totals. Includes a Stacker Infeed Belt Encoder Pulse for the Mail Table to track the book up the stacker Infeed. Includes a 2.7M (9') Communication Cable with Amphenol Plug (208547-1, Female, 24 Pin). Non-Heidelberg applications includes RS-1000-030 power Cord with Cam-Loc Plug. Includes Stacker Stopped Light. Recommend: RS-1000-047 Divert Gate— 24V DC (Controlled

Externally)

RS-1000-031-A Shift Register Townsort–Mail Control

End of bundle control only. Output from the Mail Table or Camera is received as the books start up the stacker Infeed. The stacker tracks the book and Ejects at the preset Belt Travel Distance (Shift Register). When no Eject signal is received, the Stacker runs off the preset Counters in the Operator Interface. Not for use when the stack needs to be Compensated. Includes Communication Cable and Connectors. Recommend: RS-1000-047 Divert Gate— 24V DC

(Controlled Externally)

RS-1000-032 Stacker Power Cord

2.7M (9') Stacker Power Cord without Connector or Receptacle.

RS-1000-033 Interface - Connection to standard McCain trimmers

Consists of special infeed extension. When used with infeed divert gate option,

RS-1000-043 maximum "B" dimension is 356mm (14.00").

RS-1000-034 Cam-Loc Receptacle

8 Pin Cam-Loc Receptacle for use with RS-1000-030

RS-1000-035 Infeed Extension

Omega II saddlebinder.

RS-1000-036 Press-Heating (Belt Splicing)

110 Volt

RS-1000-036-220 Press-Heating (Belt Splicing)

220 Volt



Machine: Compensating Counter Stacker Model: RS-10S

May Select Any Upstream Interface Options

Note: All RS-10S Stackers have an available STACKER RUN SIGNAL. A cable

and connector assembly is provided at no charge when required (see Townsort Options for exclusions). In Heidelberg applications, the Stacker

Run Signal is hadled through Cable 2×3 (see RS-1000-037).

RS-1000-037 Interface with Heidelberg ST-90/100/350/400/450

Includes Power Cord (2×4), communication Cable (2×3) and a panel mounted Stacker Stop Light. Does not include the RS-1000-085-05 Upstream Communication Cable (2×9) required for the ST-400 and ST-450 with Motorized

Adjustment.

RS-1000-037-10 Interface with Heidelberg ST/Non-Heidelberg Applications

Includes the 2×3 and 2×4 Cables plus the required hardware to operate the

stacker as a stand-alone unit.

RS-1000-035M Infeed extension (ST-90)

645mm (16") Long × 508mm (20") Wide Extension.

RS-1000-040 Multiple Up Products

Two-up Option. Includes extra Top Belts and Hardware, Divider Blades and

RS-1000-039 Basket Guides.

RS-1000-041 Air-Operated Gates

Especially useful when operating with low bundle heights.

RS-1000-042 Side Jogger

Results in better stack quality, especially when operating with thin products.

RS-1000-043 Infeed Divert Gate

110V externally controlled, blade style Divert. Simple divert device which drops

books on floor or takeaway system. 12mm Max Thickness. 20000 per Hour

RS-1000-044 Book Orientation Device (pneumatic)

Control for how the stack is delivered to the downstream equipment (the stack can be turned 180 degrees before being ejected). Books coming into the Stacker Spine Leading can be delivered to either Right or Left with either

the Head or Foot Leading.

RS-1000-044-01 Book orientation (Servo)

Control for how the stack is delivered to the downstream equipment (the stack can be turned 90 degrees before being ejected). Includes the RS-1400-044 Book Orientation. Books coming into the Stacker Spine Leading can be

delivered to either Right or Left with either the Head or Foot Leading.

RS-1000-044-02 Book orientation (Servo-Alternating Orientation)

Includes the RS-1400-044-01 Book Orientation. Books coming in the stacker Spine Leading can be delivered to either Right or Left with either the Spine

Leading or Trailing.

Release Date: 12 January '09 Page 9 of 14



Machine: Compensating Counter Stacker Model: RS-10S

May Select Any Optional Features

RS-1000-047 Infeed Divert Gate 24V DC (RS-10)

24V DC externally controlled, blade style Divert .

RS-1000-046 Split Infeed Divert Gate (twin divert)

(See page 5 for limitations)

NOTE: RS-1000-046 can be used with RS-1020S twin pusher stacker only.

RS-1000-052 Straight-Out Delivery (28.00")

Used for pushing stack into downstream equipment (RS-1015 and RS-1016

only). Limits infeed height.

RS-1000-053 Extended Pusher Delivery 711mm (28.00")

Useful when pushing stack into downstream equipment. (Increases cycle

time). For RS-1015S or RS-1016S only.

RS-1000-054 Pneumatic pusher, two-piece

Allows left, right, or straight-out delivery. Requires RS-1000-058 Servo

Turntable. Infeed height restrictions apply.

RS-1000-056 Dual eject pusher

Left, right or alternating operator interface panel select. RS-1012S and

RS-1013 stackers only.

RS-1000-057 Servo Pusher—Straight-out High Speed

Allows straight-out delivery. Servo motor driven – faster, guieter operation.

Reduced cycle times. Precise speed and push out distance control.

RS-1000-059 Servo pusher — two-piece

Allows left, right or straight-out delivery. Servo motor driven — faster, quieter

operation. Reduced cycle times. Precise speed and pushout distance control.

Requires RS-1000-058 Servo Turntable.

RS-1000-076 Servo pusher — left, right or alternating delivery

Precise speed and pushout distance control through Operator Interface. (RS-10

style, belt driven).

RS-1000-058 Servo Turntable Drive

Turntable can move in 90 degree increments between 0 and 270 degrees.

Includes RS-1400-044-01 Book orientation.

Note: Requires a 3.0KW Transformer and will double the Amperage requirement

of the basic Stacker.

RS-1000-087 Table pick-up option

Turntable rises to meet product, decreases the drop distance into the basket

assembly.



Machine: Compensating Counter Stacker Model: RS-10S

RS-1000-120 RS-10 "B" Dimension

127mm (5.00") RS-1012S/RS-1013S

RS-1000-122 Minimum "B" Dimension 95mm

Special Gate Assemblies to reduce the Minimum B Dimension to 95mm

(3.75").

Note: This option reduces the Maximum B Dimension to 445mm (17.5")

RS-1000-141 Stack Side Guides-Product Delivery

Attaches to the Gate Support Plates to help bridge the gap between the Gates

and the Delivery Table when running small "B" dimension products.

May Select Any Advanced Software Control RS-1000-250 Software—Computer to PLC

Allows PLC program Monitoring for troubleshooting and maintenance. Includes

programming Cable.

RS-1000-260 Software-Computer to Operator Interface

Includes Programming Cable.

RS-1000-226-01 Operator Interface

External right mount

RS-1000-226-02 Operator Interface

External left mount

RS-1000-226-03 Operator Interface

External back mount

RS-1000-302-2 RS-10 "A" Minimum .89mm (3.50") RS-1000-306 Turntable (stack compression).

Provides stack compression in the basket assembly. Improves stack quality.

RS-1000-307 Alarm Light–Stacker Stopped

Included with RS-1000-031 and RS-1000-031-24 Townsort options.

RS-1000-341 Turntable

May Select Any Special Options

RS-1000-360 Cooling Fan/ Vent Control Box

Included with RS-1000-058 Servo Turntable Drive, RS-1000-076 Servo

Pusher.

RS-1000-210 UL-Electric Code 508A

Release Date: 12 January '09
PRODUCT SPECIFICATION REV: I



Machine: Compensating Counter Stacker Model: RS-10S

Motorized Product Size Adjustments

RS-1000-041-201 Motorized Adjustment

Allows the turntable basket to be adjusted for different product sizes in the "A" and "B" dimensions while the stacker is in operation. The turntable basket size is adjusted through the Operator Interface panel by entering the product size or increment/decrement keys for smaller adjustments. Applies to all bindery

stackers without table pickup.

RS-1000-085-01 Bin Unit (motorized size adjustment)

Allows the bin unit to be adjusted for different product sizes in the "A" dimension while the machine is in operation. Adjustable through the Operator

Interface.

RS-1000-042-02 Side Jogger (motorized size adjustment)

Controls the Upper Bin "B" Dimension. Requires RS-1400-041-201 Turntable

Basket Motorized Size Adjustment.

RS-1000-085-05 Up-Stream communication for size adjustment

RS-422 Communication Cable (2×9) for Heidelberg ST-400 and ST-450

applications.

Spare Parts

Spare parts kits are defined for various models. Because of revisions and improvements in the basic stacker, spare parts are subject to change without notice.

Spare kits for some models are defined as Level I, Level II and Level III. Level I is a minimal kit, while Level III is a comprehensive set. Every stacker is equipped with the very basic spare parts required for operation.

RS-1000-100 Spare Parts for RS-1012S/1013S – Level I Spare Parts for RS-1012S/1013S – Level II **RS-1000-402** Spare Parts for RS-1012S/1013S – Level III



Delivery table is no longer supplied with machine and, therefore, must be ordered separately. See specification sheets for details on delivery tables (RS-16) and conveyors (RS-26).



Machine: Compensating Counter Stacker Model: RS-10S

Revisions

Date	Revision		Description	
Jan '94			First issue	
Apr '96	В	Page 8:	RS-1000-037 added.	jl
		Page 9:	RS-1000-046; -052; -060 revised	
		Page 9:	RS-1000-260 deleted.	
		Page 3:	Dimension change on infeed arm of stacker.	
		Page 9:	RS-1000-080 moved from page 10.	
		Page 5:	Product Size diagrams revised.	
Jan '98	С		Date revised (Header)	jl
Feb '98	D	Page 3:	Graph revised.	jl
		Page 4:	Infeed Height dimensions (Minimum and Maximum) revised.	
Jan. '01	E	Page 9:	Added Motorized Turntable Basket Adjustment section	jl
Jun '01	F		Date revised (Header)	sa
		Page 3:	Updated Floorplan	
		Page 4:	Added "Servo Input Power" to "Standard Specifications" table.	
		Page 6:	Changed DC to AC, (all)	
		Page 7:	Updated "Input Power" format	
			Added: RS-1000-015, Nameplate Language—Dutch	
			Added: RS-1000-016, Nameplate Language—Portuguese	
Aug '01		Page 8:	Added: RS-1000-030, RS-1000-031, RS-1000-031-A, RS-1000-034	
			Added: RS-1000-042, RS-1000-043, RS-1000-047	
			Added: RS-1000-042-02, RS-1000-044-01, RS-1000-044-02	
			Added: RS-1000-044-01, RS-1000-044-02	
			Added: 110V to RS-1000-043 text,	
		Page 9:	Added: RS-1000-050, RS-1000-051, RS-1000-054, RS-1000-056	
			Added: RS-1000-057, RS-1000-058, RS-1000-059, RS-1000-087	
			Added: RS-1000-120, RS-1000-302-2, RS-1000-360	
				İ
		Page 10:	Added: RS-1000-306, RS-1000-341	İ
		-	Added: RS-1000-226-01, RS-1000-226-02,RS-1000-226-03	
		1		
Can 104		Derica	Removed: "Must be used with RS-1000-62 (90° turn) or RS-1000-	
Sep '01		Page 9:	058 servo turntable." from option RS-1000-056	
Jan '02	G	Page 8:	Added Nameplate languages: RS-1000-017-01 — Danish,	sa



Model: RS-10S

Machine: Compensating Counter Stacker

			RS-1000-017-02 — Swedish, RS-1000-017-03 — Finnish,	
			RS-1000-017-04 — Greek	
May '06	Н	Pages 1-14	Re-linked all missing EPS images, updated fonts, removed missing fonts, changed page formats, live text, live tables, added new product numbers.	ga
july '08	I	All	Applied new standard formatting and added parts/descriptions from price list. New floorplan drawing with roller table (page 4). RS-1000-041-201 (Motorized Adjustment) description updated.	ga