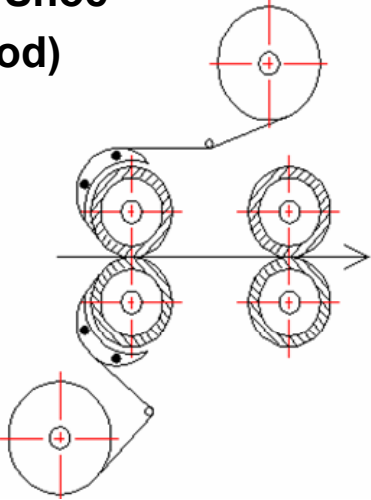
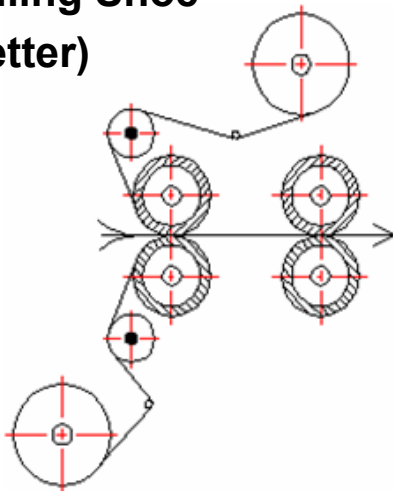
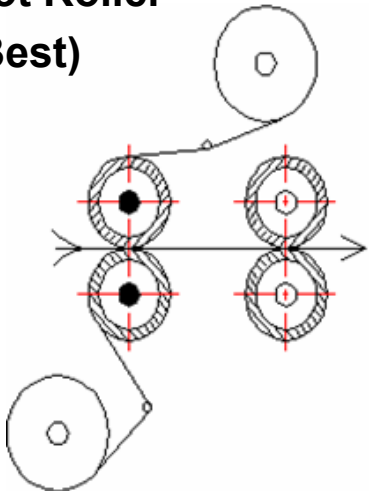




Introduction to Roll Laminators

Royal Sovereign

Types of Roll Laminators

<p>Hot Shoe (Good)</p>  <p>RSS-685/1050</p>	<p>Rolling Shoe (Better)</p>  <p>RSR-685/1050</p>	<p>Hot Roller (Best)</p>  <p>RSH-1050/1650</p>
<p>Heating lamps are placed inside the two shoes. While the film touch and passes the heated shoes resin from the film melts. Front rollers presses the film for bondage . Rear roller presses again for bondage while take away the heat to prevent film curls.</p>	<p>Heating lamps are placed inside the rolling shoes. While the film touch and rolls with the heated rolling shoe resin from the film melts. Front rollers presses the film for bondage . Rear roller presses again for bondage while take away the heat to prevent film curls.</p>	<p>Heating lamps are placed inside the front rollers. While the film touch and rolls with the heated front rollers resin from the film melts. Front rollers presses the film for bondage . Rear roller presses again for bondage while take away the heat to prevent film curl.</p>

Pictures of Roll Machines



RSL-2701



RSS-685/1050



RSR-685/1050

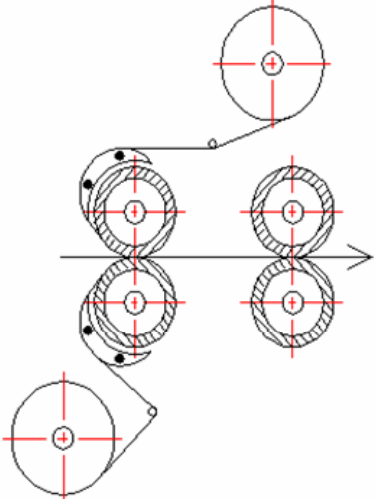
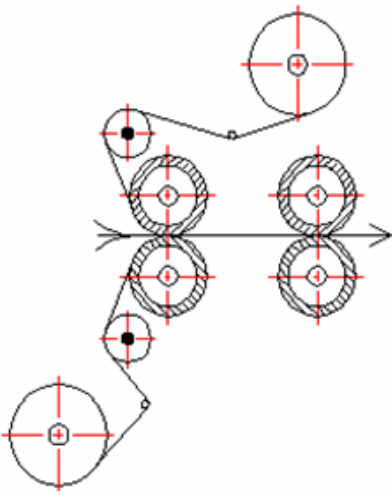
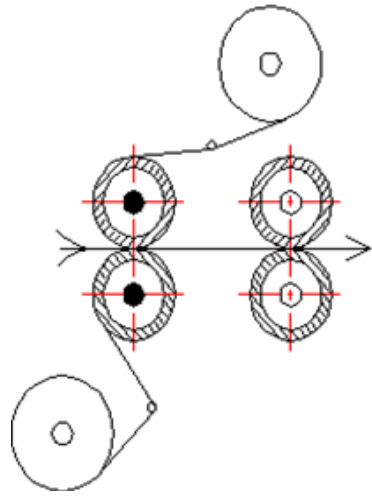


RSC-1650C/H



RSH-1050/1650

Merit & Weak Points

<p>Type</p>	<p>Hot Shoe</p> 	<p>Rolling Shoe</p> 	<p>Hot Roller</p> 
<p>Old Name New Name</p>	<p>RS-685/1050 RSS-685/1050</p>	<p>RS-685N/1050N RSR-685/1050</p>	<p>RS-1050H/1650H RSH-1050/1650</p>
<p>Heating Source</p>	<ul style="list-style-type: none"> • Inside shoe. 	<ul style="list-style-type: none"> • Inside rolling shoe. 	<ul style="list-style-type: none"> • Inside front rollers.
<p>Merit Points</p>	<ul style="list-style-type: none"> • Fast laminating speed. • Capable of wide lamination. • Withstand heavy use. 	<ul style="list-style-type: none"> • Capable of wide lamination. • Fast laminating speed. • Withstand heavy use. • No scratches. • Patented Technology. 	<ul style="list-style-type: none"> • Best laminating quality. • Perfect for photo laminating. • Capable of wide lamination. • Professional series.
<p>Weak Points</p>	<ul style="list-style-type: none"> • Minor scratches. • Quality decreases as film gets thinner. 	<ul style="list-style-type: none"> • More heat loss than hot shoe – smaller diameter. 	<ul style="list-style-type: none"> • Higher cost compare to other RS models. • Slower laminating speed.

Comparing RS & Other Roll Laminators

- RS Provides Rewinder & Roll Paper Plate as an option for continuous lamination.
- Operates smoother and quieter.
- Heavy duty legs for smooth operation.

Specification	RS	GMP	SSI	ATTALUS	CODOR	YOSAN	LAMIREL
Side Cutter	O	O	X	O	X	X	O
Mount Lamination	O	O	O	O	O	X	O
Reverse	O	O	X	O	O	X	O
Cold Lamination	O	O	X	O	X	X	O
Preset (9 Memory)	O	O	-	-	X	X	O
LCD Display	O	O	O	O	X	X	O
Auto Shut-Off & Standby	O	O	-	X	-	-	-
Film Feeding Length Check	New	X	X	X	X	X	X
Change °C with °F	O	O	X	X	X	X	X
Laminating Paper Counter	New	X	X	X	X	X	X
Remote Switch	O	X	X	X	X	X	X
Foot Switch	O	O	X	X	X	X	O
Roller Diameter	RS-1650H 95mm	Excelam-1670S 80mm	-	-	-	-	O
	RS-1050H 80mm	Excelam-1110S 50mm	-	-	-	-	O

Comparison with GMP & RS Roll Laminator

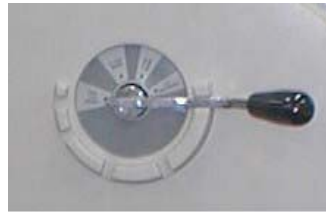
MODEL NAME				FUNCTION															
GMP		RS		TEMP CONTROL		SPEED CONTROL		COLD LAMINATING		MOUNTING		HEATING METHOD		REMOTE		FOOT SWITCH		LAMINATING SPEED	
				GMP	RS	GMP	RS	GMP	RS	GMP	RS	GMP	RS	GMP	RS	GMP	RS	GMP	RS
EXCELAM	355Q1			O		O		O		5		HOT ROLLER		X		-		1.6	
	655Q1			O		O		O		5		HOT ROLLER		X		-		1.6	
	1055Q1			O		O		O		5		HOT ROLLER		X		-		1.6	
	1055QRS			O		O		O		5		HOT ROLLER		X		-		1.6	
EXCELAM	DC355Q1			O		O		O		X		HOT ROLLER		X		-		1.6	
	DC655Q1			O		O		O		X		HOT ROLLER		X		-		1.6	
	DC1055Q1			O		O		O		X		HOT ROLLER		X		-		1.6	
EXCELAM-COLD	655COLD/R			X		O		O		5		X		X		-		1.6	
	1400COLD/RS			X		O		O		13		X		X		-		1.3	
	1600COLD/RS			X		O		O		13		X		X		-		1.3	
BOARDLAM	1400COLD/RS			X		O		O		50		X		X		-		2	
	1600COLD/RS			X		O		O		50		X		X		-		2	
EXCELAM	1100RS	RS- 1050H		O	O	O	O	O	O	12	15	HOT ROLLER	HOT ROLLER	X	O	O	O	3	2
	1670RS	RS- 1650H		O	O	O	O	O	O	12	15	HOT ROLLER	HOT ROLLER	X	O	O	O	1.6	2
DOLPHIN	35			O		O		X		X		HEAT SHOE		X		X		3	
	65			O		O		X		X		HEAT SHOE		X		X		3	
	80			O		O		X		X		HEAT SHOE		X		X		3	
SONIC	35			O		O		X		X		HEAT SHOE		X		X		3	
	65			O		O		X		X		HEAT SHOE		X		X		3	
	80			O		O		X		X		HEAT SHOE		X		X		3	
ULTIMA	65	RSL- 2701		O	O	O	O	X	O	X	X	HOT ROLLER	HOT ROLLER	X	X	X		2.4	2.4
EXCELAM-FOAM	655			O		O		X		12		HOT ROLLER		X		X		1.6	
SURELAM	500	RS- 685,685N		O	O	O	O	X	O	X	15	HEAT SHOE	HEAT SHOE	X	O	X	O	6	6
	800			O		O		X		X		HEAT SHOE		X		X		6	
	1000S	RS- 1050, 1050N		O	O	O	O	X	O	X	15	HEAT SHOE	HEAT SHOE	X	O	X	O	6	6

New Features

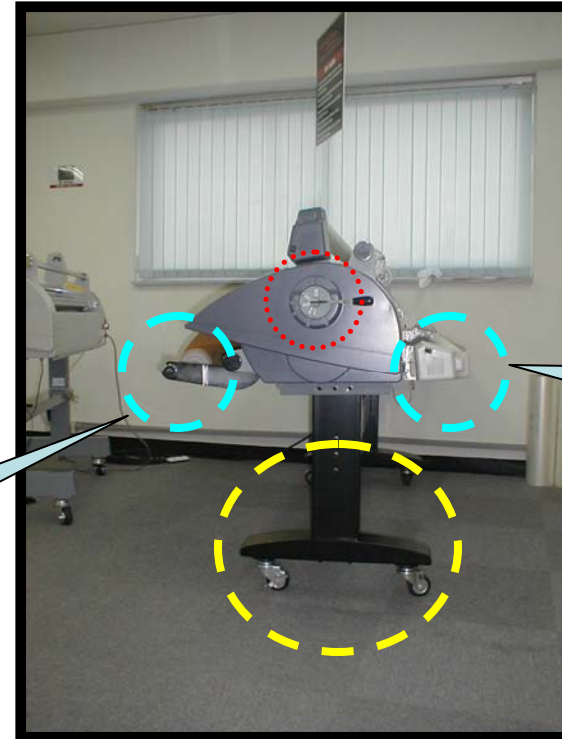
Old Version



New Version



Front Paper Plate



REWINDER

RSL-2701

SPECIFICATIONS

Model	RSL-2701	(GMP)Ultima-65
Power Supply	AC100V,120V,AC220~240V/50~60Hz	
Power Consumption (Watts)	1500	
Max. Laminating Width (mm)	685	650
Laminating Film Thickness (mic)	25~125	38~125
Max. Film Diameter (mm)	120(1",75mic,130Mz)	
Max. Laminating Thickness (mm)	3	
Laminating Speed (m/min)	2.4	
Ready time (min)	8~9	10~12
Heating Method	Hot Roller	
Temp' Select	Touch Inlay	Touch Button
Temp' control	Digital (Micom)	
Speed Control (Steps)	10	
Driving Motor	DC Geared Motor	
Transport Type	4 Rollers	
Display	LED	
Mount Lamination	Yes	
2mm Foam Board Lamination	Yes	
Reverse	Yes	
Standby Mode	Auto(30min)	Touch Button
Auto Shut-Off (Heat)	Yes(30min)	No
Cross Cutter	Yes	
Core Size (inch)	1 , 2¼(Option)	1
Unit Dimension (WxDxH,mm)	915 x 509 x 367	879 x 537 x 317
Unit Weight (Kg)	46	51

RSL-2701 Features

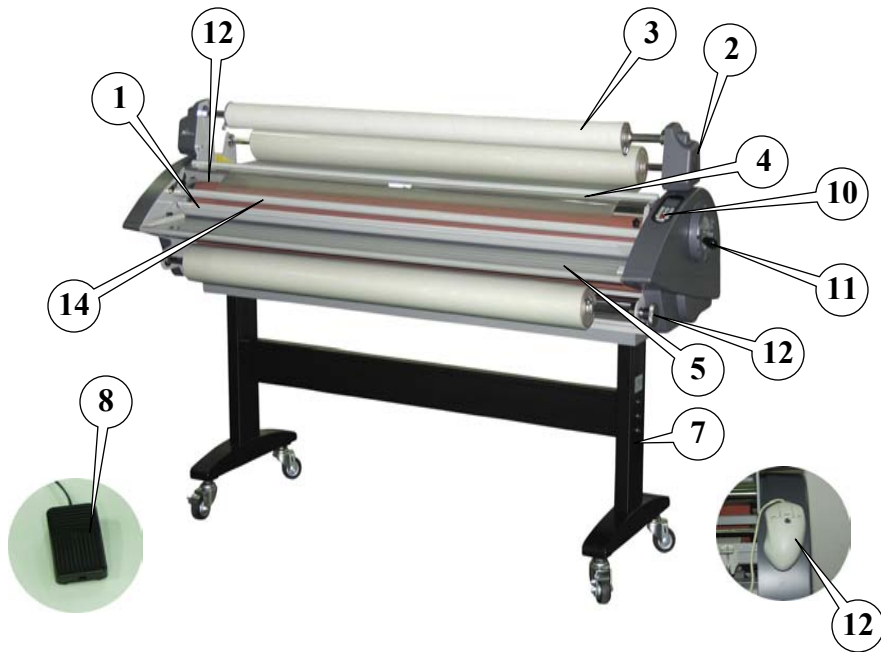
1. **Fastest laminating machine in its class with superior quality.**
2. **Short Ready Time, only 8 ~ 9 min.**
3. **Maximum laminating width [27" (685mm)].**
4. **Uses digital micom control system for best laminating quality.**
5. **Capable of laminating foam board [0.79" (2mm)] and mount.**
6. **Reverse function to avoid jam and mis-feeds.**
7. **Auto-Shut Off function saves electricity and improves safety.**
8. **Touch –Inlay operating for easy control.**
9. **Variable speed control system [max. 7.87'/min (2.4m/min)].**



Specifications

Model	RSS- 685	RSS- 1050	RSR- 685	RSR- 1050	RSH- 1050	RSH- 1650
Power Supply	120V/60HZ, 240V/60HZ					
Power Consumption	2000W	3000W	2000W	3000W	3000W	3300W
MaxLaminating Width	27" (685mm)	41.3" (1050mm)	27" (685mm)	41.3" (1050mm)	41.3" (1050mm)	65" (1650mm)
Laminating Thickness	1~10mil (25~250micron)					
Laminating Speed	19.7 ft/min (6000mm/min)		13.1 ft/min (4000mm/min)		6.6 ft/min (2000mm/min)	
Ready Time	20min		15min		25min	40min
Heating Method	Hot Shoe		Rolling Shoe		Hot Roller	
Temp' Select	Touch Rubber					
Temp' control	Digital(Micom)					
Speed control	1~9 (9 Func)					
Driving Motor	DC Geared Motor					
Transport Type	4 Roller					
Cooling System	1 DC Fan	2 DC Fan	1 DC Fan	2 DC Fan	2 DC Fan	3 DC Fan
Display	LCD					
Cold Lamination	Yes					
Photo Lamination	Yes					
Mount Lamination	0.51in (13mm)			0.59in (15mm)		
Reverse	Yes					
Stand-By Mode	Yes (ideal- 30min)					
Power Auto-Off	Yes (ideal-30min)					
Foot Switch	Yes					
Remote Switch	Yes					
Laminating Length Measurement	Yes					
Laminating Paper Counting	Yes					
Dimension (WxDxH)	42.1" x 25.6" x 47.4" (1070mmx650mmx1205mm)	55.1" x 25.6" x 47.4" (1400mmx650mmx1210mm)	(42.1" x 25.6" x 47.4") (1070mmx650mmx1205mm)	(55.1" x 25.6" x 47.4") (1400mmx650mmx1210mm)	(55.1" x 25.6" x 47.4") (1400mmx650mmx1210mm)	77.2" x 25.6" x 47.4" (1960mmx650mmx1210mm)
Unit Weight	220 lbs (100Kg)	308 lbs (140Kg)	220 lbs (100Kg)	308 lbs (140Kg)	308 lbs (140Kg)	660 lbs (300 Kg)
Gross Dimension (WxDxH)	43.9" x 31.5" x 34.4" (1115mmx800mmx875mm)	59.0" x 31.5" x 34.4" (1500mmx800mmx875mm)	42.1" x 25.6" x 47.4" 1115x800x875	59.0" x 31.5" x 34.4" (1500mmx800mmx875mm)	59.0" x 31.5" x 34.4" (1500mmx800mmx875mm)	82.7" x 34.1" x 49.2" (2100mmx875mmx1250mm)
Gross Weight	330 lbs (150Kg)	440 lbs (200Kg)	330 lbs (150Kg)	440 lbs (200Kg)	440 lbs (200Kg)	792 lbs (360 Kg)

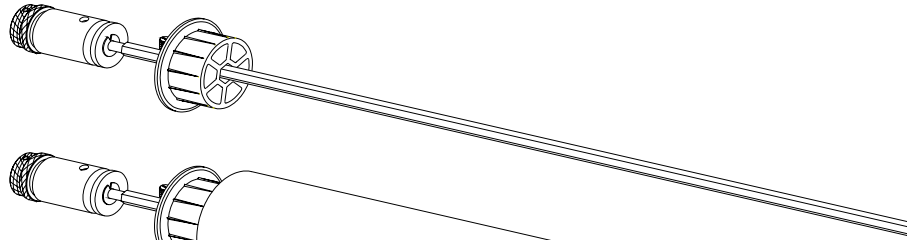
Major Components



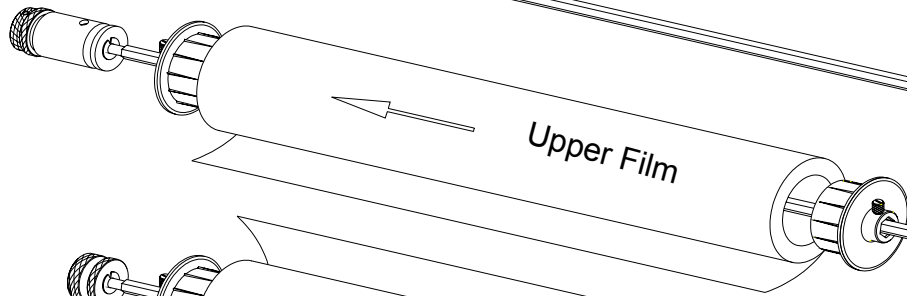
NO	PART NAME	RSH 1650	RSH 1050	RSR 1050	RSR 685
1	FRAME- GUIDE,PAPER	○	○	○	○
2	TAKE-UP SWITCH	○	○	○	○
3	TAKE-UP BOBBIN	○	○	○	○
4	IDLE BAR	○	○	○	○
5	TABLE-FRONT	○	○	○	○
6	HOT ROLLER	○	○	X	X
	HOT METAL ROLLER	X	X	○	○
7	ASS'Y-STAND	○	○	○	○
8	FOOT SWITCH	○	○	○	○
9	REMOTE CONTROL SWITCH	○	○	○	○
10	CONTROL PANEL	○	○	○	○
11	PRESSURE LEVER	○	○	○	○
12	TENSION CONTROL KNOB	○	○	○	○
13	FILM ALIGNMENT KNOB	X	○	○	○
14	SAFETY COVER	○	○	○	○

Film Loading

Picture 1



Picture 2



Picture 3



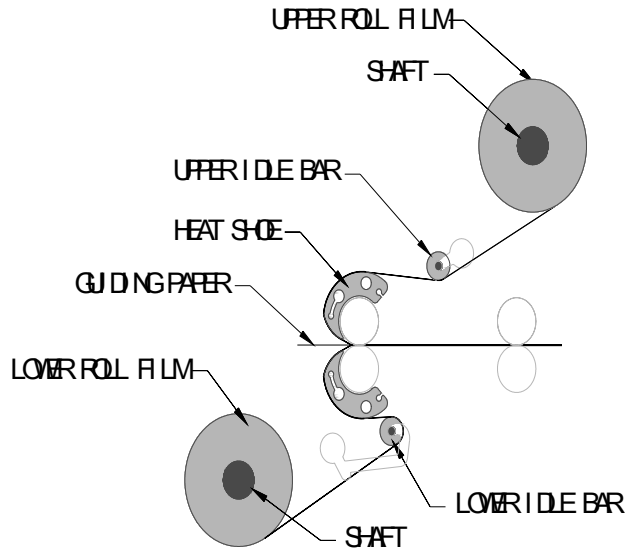
Picture 4



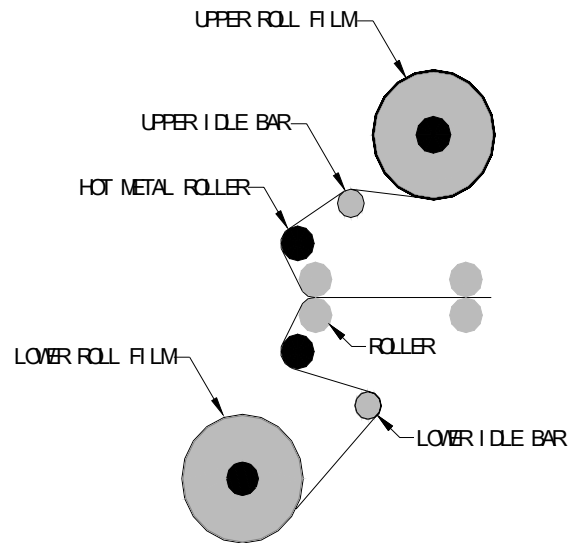
Picture 5



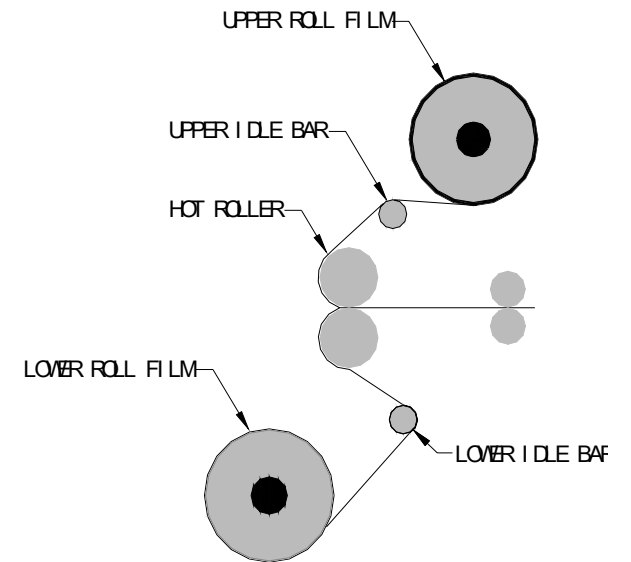
Webbing



RSS-685/1050

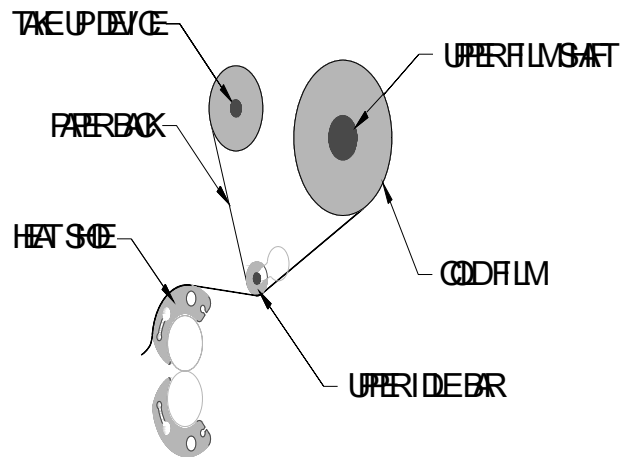


RSR-685/1050

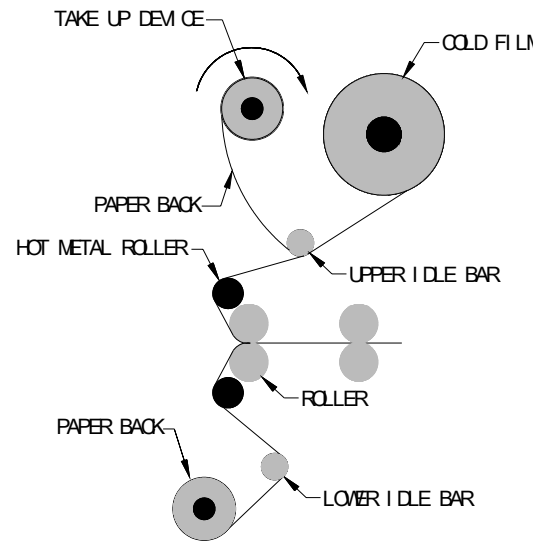


RSH-1050/1650

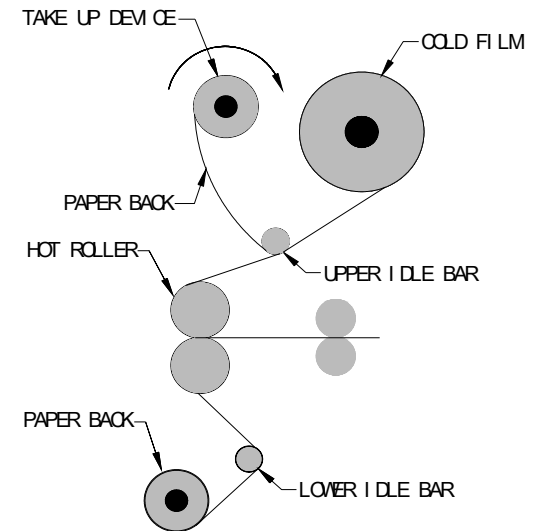
Webbing Cold Film



RSS-685-1050

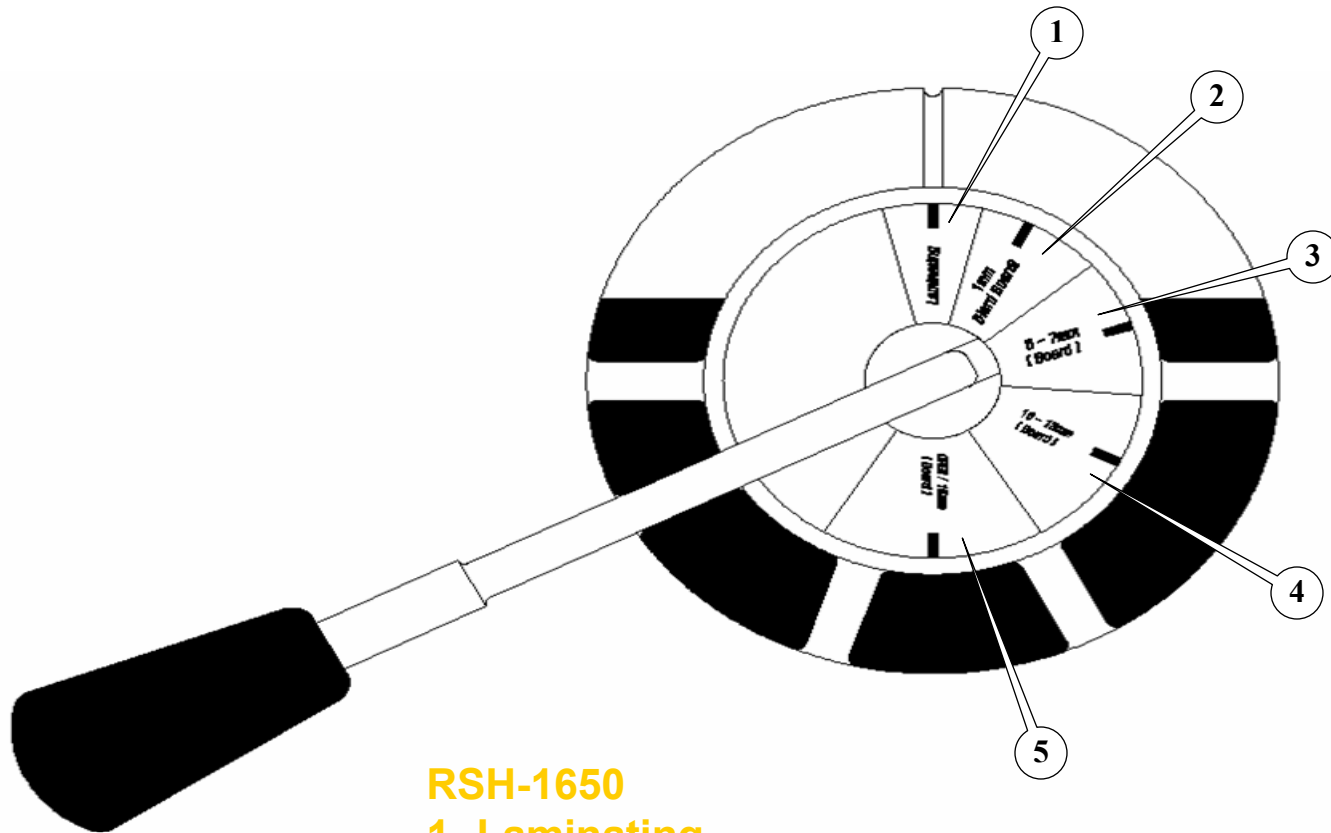


RSR-685/1050



RSH-1050/1650

Pressure Lever



RSH-1650

1- Laminating

2- 0.04" (1mm, Hard Board)

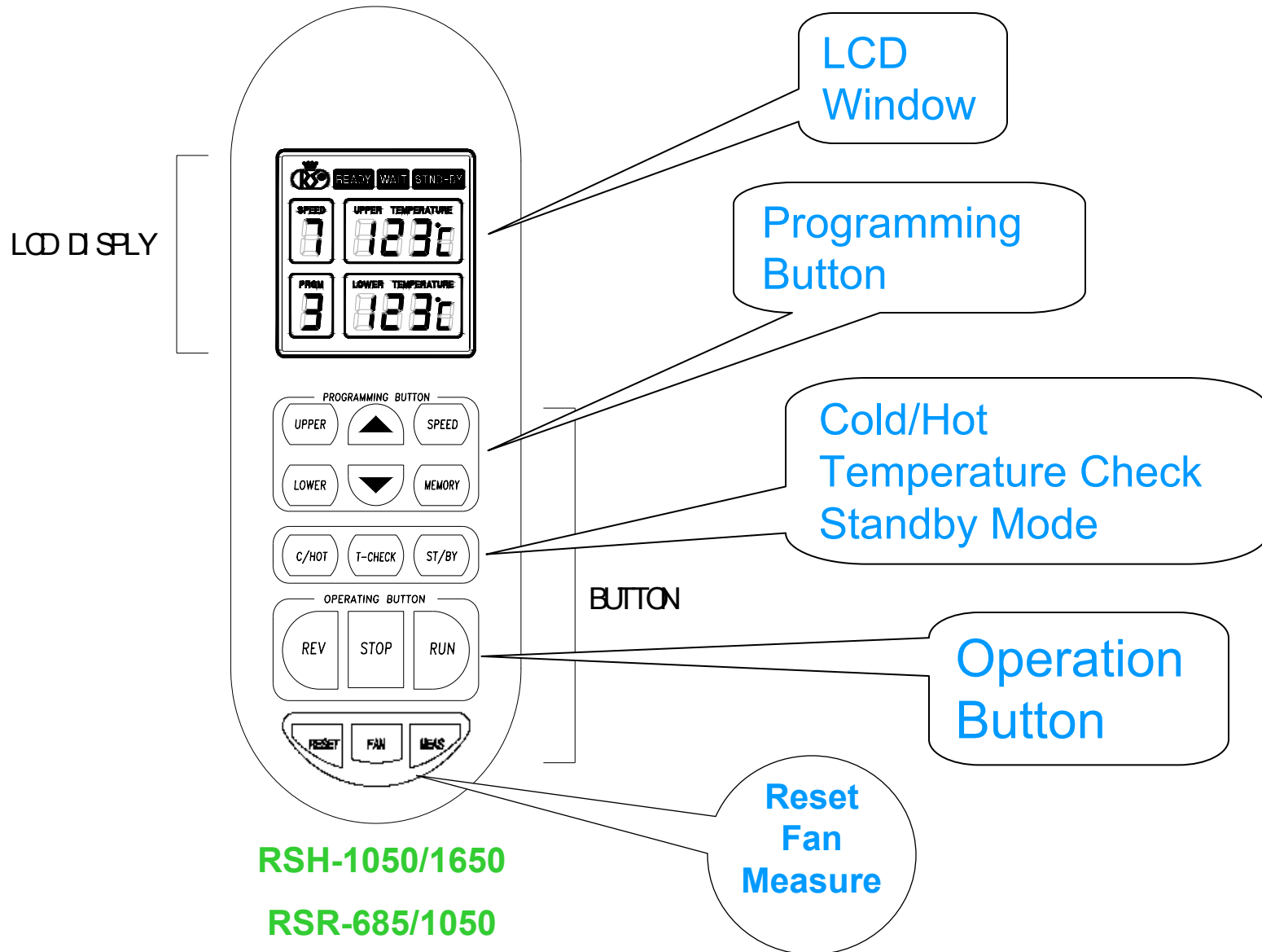
3- 0.20" - 0.28" (5-7mm Board)

4- 0.39" - 0.51" (10-13mm Board)

5- Open/ 0.59" (15mm Board):

Hot Shoe & Rolling Shoe - Open/0.51" (13mm Board)

LCD Controller



Speed, Paper Thickness, & Temperature Adjustment

RSS-685/1050

NO	Film Thickness	Paper Thickness	Speed		Storage
			Temp	Speed	
1	1.5mil (38 micron)	100g/m ²		266/130	9
		150g/m ²	3.3' (1m)	266/130	7
		300g/m ²		266/130	5
2	3mil (75 micron)	100g/m ²		230/110	5
		150g/m ²	4.6' (1.4m)	230/110	4
		300g/m ²		230/110	3
3	4mil (100micron)	100g/m ²	5.9' (1.8m)	230/110	4
		150g/m ²		230/110	4
		300g/m ²		230/110	3
4	5mil (125micron)	100g/m ²		239/115	4
		150g/m ²	7.2' (2.2m)	239/115	4
		300g/m ²		239/115	3
5	6mil (150micron)	100g/m ²		248/120	4
		150g/m ²	8.8' (2.7m)	248/120	3
		300g/m ²		248/120	3
6	7mil (175micron)	100g/m ²		248/120	4
		150g/m ²	10.5' (3.2m)	248/120	3
		300g/m ²		248/120	2
7	8mil (200micron)	100g/m ²		266/130	3
		150g/m ²	13.1' (4m)	266/130	3
		300g/m ²		266/130	2
8	10mil (250micron)	100g/m ²		266/130	2
		150g/m ²	16.4' (5m)	266/130	2
		300g/m ²		266/130	2
9			19.7' (6m)		

RSR-685/1050 & RSH 1050/1650

NO	Film thickness	Paper Thickness	Speed		Preset		
			RSR-685/1050	RSH-1050/1650	Temp	Speed	Func'No
1	1.5mil (38 micron)		2.6' (800mm)	1.3' (400mm)	230/110	5	1
2	1.5mil (38 micron)		3.9' (1200mm)	1.9' (600mm)	239/115	4	2
3	3.2mil (80 micron)		5.2' (1600mm)	2.6' (800mm)	248/120	5	3
4	4mil (100micron)		6.6' (2000mm)	3.3' (1000mm)	248/120	4	4
5	5mil (125micron)		7.9' (2400mm)	3.9' (1200mm)	257/125	5	5
6	6mil (150micron)		9.2' (2800mm)	4.6' (1400mm)	257/125	3	6
7	175 micron (7 mil)		10.5' (3200mm)	5.2' (1600mm)	266/130	4	7
8	200 micron (8 mil)		11.8' (3600mm)	5.9' (1800mm)	275/135	3	8
9	250 micron (10 mil)		13.1' (4000mm)	6.6' (2000mm)	280/140	3	9

Adjusting Front & Rear Roller Pressure

- **Use L Wrench to adjust the roller pressure:**
C.W – Increase pressure.
C.C.W – Decrease pressure.
- 1. **Using Push-Pull Scale**, measure 5 spots as shown on Figure 1&2: Front roller should be 2~3 and back rollers should be 5~7.
- 2. **Checking for over all tension** – when the machine is running, check the film to see if the two ends are fed in slight inward angle and center part is fed in straight.
- 3. **Pressure Mark Checking** – stop the machine for 30 seconds to create a roller mark. Then check to see if you have even two parallel lines. Note: Smaller parallel distance line indicates that it has less pressure.
- 4. **Laminating Test** – laminate samples with different material thicknesses.
- 5. **Check above steps 2 through 4** with 3mil & 5mil films.

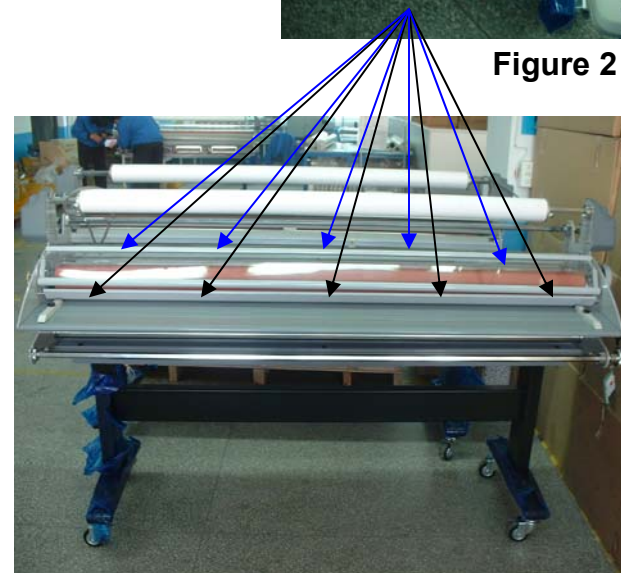
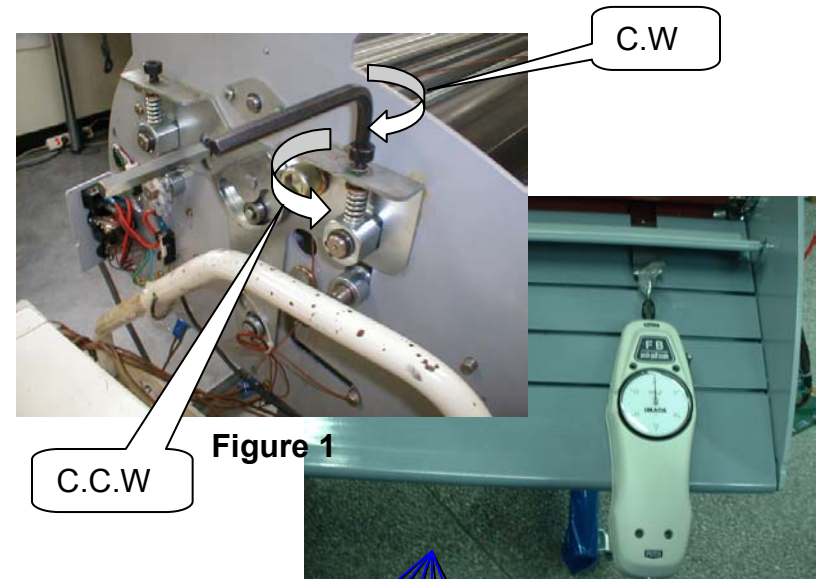


Figure 3

Troubleshooting

Problem		Solution
Bubbles	Right Side	More tension on the front right side
	Left Side	More tension on front left side
Wrinkles Waves	Right Side	More tension on back right side
	Left Side	More tension on back left side
Lamination Not Clear		Increase the temperature and/or decrease the speed



Adjusting the Paper Sensor

- Initially, turn both fine & coarse sensor level to the lowest. Then raise them 90 degree.
- Make sure that the Paper Sensor wires are pushed all the way in to the connector.

