

CRL/SOMACA BELT SANDER MODEL 3300RP for 102 x 2692mm Sanding Belts

(Starting with Serial No. 68179)



SET-UP and OPERATING INSTRUCTIONS



Original Instructions



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C. R. Laurence Co., Inc. • 2503 E. Vernon Ave., Los Angeles, California USA 90058 (323) 588-1281
Sommer & Maca Machinery Division • 5501 W. Ogden Ave., Cicero, Illinois USA 60804 (773) 242-2871

CRL/SOMACA BELT SANDER MODEL 3300RP



3300RP Machine Specifications

Dimensions:	762 x 609 x 1800mm high 30" x 24" x 72" high
Shipping Weight:	120 kg. (265 Lbs.)
Motor:	.745 Kw (1 HP)
Volts:	220 AC
Amps:	6.2 amps
Hertz:	50
Max RPM:	1600
Sound Pressure:	94.1dB (+/- 3.0dB)*
Vibration:	1.60m/s ² (+/- 0.20m/s ²)*
Sanding Belt Size:	102 x 2692mm (4" x 106")
Certification:	This model is CE compliant

* see below for sound and vibration value documentation.

Model 3300RP, 102 x 2692mm (4" x 106") Belt Sanding Machine Starting with Serial No. 68179, Mfr. Date 04/2010

Machinery Directive declaration

DECLARED DUAL-NUMBER NOISE EMISSION VALUES in accordance with ISO 4871	
	Operating Mode 1
Measured A-weighted sound power level, L_{WA} (ref. 1pW) in decibels	93.4
Uncertainty, K_{WA} , in decibels	3.0
Measured A-weighted sound pressure level, L_{pA} (ref. 20μPa) at the operator's position in decibels	94.1
Uncertainty, K_{pA} , in decibels	3.0
Values determined according to noise test code given in Directive 2000/14/EC Annex III B13 using the basic standard ISO 3744: 1994	
NOTE - The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.	

Declared Vibrations Emissions Value in accordance with EN 12096

"a" value = 1.60m/s² "K" value = 0.20m/s²

Below EAV (exposure action value of 2.5 m/s²) or ELV (exposure limit value of 5.0 m/s²)
as set forth in BS EN 13218:2002 +A1:2008.

CRL/SOMACA BELT SANDER MODEL 3300RP

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CRL/SOMACA BELT SANDER MODEL 3300RP

INTRODUCTION

1.1 INTRODUCTION

The CRL/SOMACA Model 3300RP is a water cooled Belt Sander intended for the finishing of edges of glass panels or "lites". It has been developed and improved through the years until it can now be called the finest piece of equipment available in its price range for this purpose. The machine incorporates features such as a direct drive, 1 H.P. motor, a gas cylinder-tensioned upper pulley, safety shields, totally sealed ball bearings eliminating weekly lubrication, and a unique, rust-proof, thick-walled HDPE (High Density Polyethylene) water tank.

It will give best results if it is properly cared for. It is not necessary to pamper this equipment, but reasonable maintenance will increase the machine's life and keep it in a safe operating condition.

We put sealed bearings in our machines because we found that most shops do not take the time to grease the bearings on a routine basis. However, even sealed bearings do sometimes go bad, and should be inspected on a weekly basis for noise or rough spots. Scrubbing the machine occasionally will prevent glass and sludge build-up, and any areas where rust is starting to show should be scraped, primed, and repainted to get the maximum life out of the machine.

The instructions on the following pages will guide you through the unpacking, initial setup, maintenance, and replacement of parts on your machine. Should you run into any problem or procedure you do not understand, please contact us via e-mail at somaca@crlaurence.com and we will be glad to help you. Parts and expert advice can also be obtained directly from the Sommer & Maca Machinery Division at (773) 242-2871 from 0700 hrs to 1700 hrs CST.

1.2 UNCRATING THE MACHINE



The machine is TOP-HEAVY when delivered. Move the machine carefully and position it close to where it will be used. Remove the shipping cover and inspect for any damage. If you find any part of your machine has freight damage, save all shipping material and call the delivering carrier immediately. Tell them you want to file a damage claim and have them send out an inspector. If everything is okay, completely remove the shipping container, including the wooden base. The machine can be moved by sliding it along a hard surface. **DO NOT** push on the top of the machine as it may tip over and cause damage or injury. Place the machine with sufficient room on all sides to allow for working access to the belt, machine maintenance and inspections. It is recommended that you anchor the machine to a hard surface through the holes in the base. See **page 9** drawing for mounting detail.



1.3 IMPORTANT SAFETY INFORMATION



• **DO NOT** operate this equipment unless you have read this manual and are familiar with the machines operation.



• **NEVER** climb on the machine for any reason. Even if the machine is bolted to the floor, there is a risk of injury from falling. No part of it is made to hold the weight of a person.



• **DO NOT** operate the machine without all guards and access doors/gates in place and closed. Further, **DO NOT** disable any safety lock-out switches on guards or doors.



• **ALWAYS** pay attention to **WARNING** labels placed on the machine.



• **ALWAYS** wear proper protective gear when working with or grinding glass.



• **HEARING PROTECTION MANDATORY.** Wear hearing protection while operating.



• **NEVER** open electrical boxes or components unless the power is disconnected from the source and locked out

CRL/SOMACA BELT SANDER MODEL 3300RP

2.0 MACHINE SET UP

2.1 Setting up the Belt Sander

- ❑ Position the sander in your desired location. For best results, the sander should be level and secured to the floor with anchors, fastened through the holes provided in the sander base.
- ❑ With the belt sander switch in the OFF position (E-stop activated), plug the sander into a 220 volt, single phase, 50 cycle grounded outlet. **NOTE: A correctly grounded plug is provided for your safety. DO NOT ALTER IT IN ANY WAY.** Be sure the guard on the right side of the machine is closed. Now turn the switch on to see if the motor will run. If it runs, turn it off and go to the next step. If it does not run, push in the red E-Stop button and reset it by turning it clockwise. Check all electrical connections and activate the ON switch again. **If you still have a problem, please call us before going any further.**
- ❑ **Unplug the sander before going any further.** Now you can connect the sander to your local water supply, using 9.5 mm (3/8 inch) I.D. flexible tubing and a hose clamp (see photo 2, page 8). The valve should be in the closed position. Now you can turn on the local water supply to the machine. Place a container under the drain of the water tub. Turn on the machine's water valve ("L" in photo 2) and check the nozzle inside the water tub. Water should be spraying toward the lower pulley. You can adjust the amount of water being delivered by adjusting the regulator ("M" in photo 2) on the machine. Do not use any more water than needed to keep the belt wet. Turn off the water. Unplug the machine.
- ❑ Pull the handle to open the side door. Now install a belt over the top and bottom pulley and the rubber roller platen by pulling down on the black handle on the tensioner mechanism. Be sure the belt is not wrapped over the water nozzle pipe.
NOTE: When grinding glass, only "wet or dry" belts with silicon carbide grain should be used. They come with two types of splices: Overlapping or butt splices. Butt splices can be run in either direction (such as CRL's finger splice). Overlapping splices can be run only in the direction indicated by arrows on the inside of the belt. The most common way to put lapped spliced belts on a belt sander is to put the belt over the pulleys so you can see the arrow pointing up on the back side of the belt. This will give you the proper rotation.
- ❑ With the sander still unplugged, pull the belt by hand through several cycles to adjust the tracking mechanism. Do this as follows: On the left side of the tensioner assembly (as viewed from the side of the sander) is a black metal, star shaped knob. By turning this knob clockwise you will move the belt to the right. By turning this knob counterclockwise you will move the belt to the left. Turn this knob until you have adjusted the belt so it will stay in the middle of both pulleys when pulling the belt by hand.
- ❑ Now close the side door, plug the machine back in, turn the switch ON, and perform the fine tracking adjustments. The goal is to have the belt track in the middle of both the upper and lower pulleys. If the contact roller does not match up with the belt at this time, Shut off the sander and loosen the Square Head Screws in the Platen Bracket and tap the Roller Platen shaft until it aligns even with the belt, then tighten the screws.
- ❑ The belt tension on the 3300RP is not adjustable, and is controlled by the gas cylinder on the tensioner. No adjustment is needed, and the cylinder is available as a replacement part should the tension ever become too weak.

3.0 GENERAL GUIDELINES

3.1 Using the Belt Sander

- ❑ The application of the glass and the choice of belt grits are largely a matter of the individual operator's preference, but the following procedures are submitted as a guide for general work.
- ❑ To obtain a round or pencil edge, use a coarse grit belt and lightly bevel the sharp edges left from cutting by running or swiping glass quickly across the belt. This helps to reduce chipping the glass during succeeding grinding. Draw the glass slowly across the unsupported area of the belt above the platen, and at the same time tilt the glass up and down until the desired contour is obtained. Finish the edge on a smoothing belt and then polish if desired. Keep hands away from the Belt and Platen at all times.
- ❑ For a flat, seamed edge, use a belt of medium grit and lightly bevel the edges as above. Next, grind the entire edge flat by applying the glass squarely to the platen. Change to a finishing or smoothing grit and go over the flat edge again, then seam both sides of the glass by tilting it about 45° and running it across the belt on the platen.
- ❑ Rough grinding can be done by using abrasive belts in grit sizes 40, 60, 80, and 120. Belts of 150, 180, 220 and 280 grits are for smoothing. Grits 320 and 400 work well for satin finishing. 600 grit and cork belts are for extra smooth, high polishing. **See page 11** of this manual for a list of CRL Belt Part Numbers.

3.2 Equipment Needed for Safe Operation

The following items for operators are required for safe operation of the machine:

1. Cut Resistant GlovesCRL "D-Flex" Gloves, Cat No. **917CL** or **917CLM**
2. RespiratorCRL Cat No. **G1001** or **ES8710**
3. Hearing ProtectionCRL Cat No. **ES515** or **ES986**
4. Safety Glasses with Side ShieldsCRL Cat No. **ES384**
5. Safety Shoes (Reinforced Toe), Waterproof
6. User Manual or Instruction from a supervisor or CRL/Somaca installation technician.

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4.0 MAINTENANCE



• **ALWAYS** Shut off the machine and disconnect the power from it's source before performing any maintenance operation. To assure safety, the main electrical control can be locked out at the E-Stop by pushing the E-stop in and pulling down on the red lock-out tab. **See Photo 1 on page 8.**

4.1 Maintenance Schedule

3300RP Maintenance Schedule			
Maintenance Performed	Weekly	Monthly	6 Months
Wipe down/clean sander exterior	YES	-	-
Clean and lubricate guide rollers (see note 4.2)	YES	-	-
Clean out/rinse water tank	YES	-	-
Check electrical cables for wear/abrasions	YES	-	-
Examine belts for breaks or frayed spots	YES	-	-
Check pulleys for alignment and tightness (see note 4.3)	-	YES	-
Check function of E-Stop and Limit switch	-	YES	-
Lubricate Motor (see note 4.2)	-	-	YES
Sand and repaint chips in exposed metal parts	-	-	YES
Check machine fasteners/mountings for tightness	-	-	YES

4.2 Lubrication

The only bearings on the sander that require lubrication are the **motor bearings**.

On each end of the motor is a grease fitting for applying lubrication. (See Photo 3, page 8))

Every Six Months. **Apply grease sparingly. Overly greased bearings can create seal failure and eventually cause bearing failure.**

Type of grease: **CRL Cat.No.WL14** No.2 lithium base grease.

The **guide rollers** will benefit from weekly lubrication and cleaning.

Every Week. **Apply lube weekly on the front guide roller axles/sleeves.**

Type of Lubricant: Use **CRL Cat.No.1200** Metal Lube

Metal Lube may also be used on the belt door hinges.

4.3 Recutting / Replacing the Pulleys

After a year or two of continued machine use, the pulleys will wear and need to be replaced or have a new crown machined in them. This is usually evident when you cannot get the belt to track and pulley adjustment will not correct the tracking. To check this, lay a straight edge across the pulley. A new pulley will have a noticeable hump or crown in the middle of it. A worn-out pulley will be flat or even have a valley in its center. If the pulley is worn, a one degree crown should be remachined into the surface or the pulley should be replaced with a new one.

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4.4 Remove and Install Motor

NOTE: This is a straight-forward job that requires a basic knowledge of electrical wiring. If you do not feel confident in your ability to connect wires, have a qualified electrician change the motor for you.

1. Unplug/Lock-out the machine, turn off/disconnect the water supply, and remove the sanding belt.
2. Before removing the bottom pulley, measure the distance from the back side of the pulley to the side of the tank (Photo 4, Page 4). Record this measurement so you can replace the pulley at this same distance. This will help keep the belt alignment to original specs.
3. Loosen two set screws on the pulley with a long 5/32" Hex/Allen wrench. These can be accessed through the two holes in the pulley. Remove the pulley.
4. Disconnect the wiring from the motor by removing four screws and the rectangular cover from the motor electrical junction box.
5. Remove the plastic tape insulation from the wire connections. The Orange/Black/White group can remain connected.
6. Disconnect the green/yellow earth wire from the green earth screw in the junction box.
7. Disconnect 2 groups of wires and keep the screws and nuts used to secure the new connections. Make a wiring diagram to show how the wires are connected. For 220-240V AC connections, the wires are grouped : #1 Blue, #4 Yellow, #8 Red together, #2 White, #3 Orange, #5 Black together and Blue, Brown together.
8. There will be two power wires (Brown and Blue) plus a green/yellow earth wire coming from the power line in. Mark which motor wire group each one connects to for rewiring. (See photo 4. page 8)
9. With the power wires and earth wire disconnected from the motor, the power cable can be disconnected from the junction box.
10. The four bolts holding the motor to the machine can now be loosened.
11. The motor itself weighs about 40 lbs (18 kg). Use a small jack or have a helper hold the motor up while the bolts are loosened. Slowly pull the motor from the machine.
12. Align the new motor with the bolts. Tighten the bolts from inside the tank.
13. The new motor will need to have ring lugs installed on all wires. If you are not comfortable doing this part of the operation, have a qualified electrician complete the job.
14. Install solderless ring terminals (lugs) on the motor wires, reconnect the power cord to the junction box, and connect the power cord wires as they were previously installed with screws and nuts (see step #7 above). **Tape all connections securely with electrical tape.**
15. Reconnect the green/yellow earth wire and replace the junction box cover. Plug in and Unlock the power and check for motor operation. The motor should turn counterclockwise as viewed from the shaft end in the tank.
16. After motor operation is confirmed. UNPLUG the power cord, apply a small amount of light grease to the motor shaft to prevent rust, and replace the lower pulley and the sanding belt. Remember to refer to the "pulley to tank" measurement that was made in step #2. The water supply can now be reconnected and turned back on.
17. Turn the belt through two complete rotations by hand and check the alignment. Adjust as needed to make the belt track straight on all three wheels.

4.5 Remove and Replace Sanding Belt, Upper and Lower Pulleys, and Roller Platen

Sanding Belt

With the belt door on the right side of the machine open, firmly pull down on the black tensioner handle. This will allow the belt to be removed from the top pulley and then from the lower pulley. Belt installation is just as simple. Hold the belt with one hand, gripping the middle, and loop the bottom of the belt around the lower pulley. Make sure that the belt is not between the water spray nozzle and the tank side. Slide one side of the belt over the platen roller and pull down on the tensioner handle. This will allow you to put the top of the belt over the top pulley. Check that the nozzle is not hooked on the belt and pull the belt through two complete rotations to check the tracking.

Lower Pulley

Before removing the lower pulley, measure and record the distance from the back edge of the pulley (closest to the motor) to the side of the tank, as shown in Photo 6 on Page 8. The Lower Pulley is removed by first removing the sanding belt and then removing two set screws, accessed through two holes in the pulley, with a 5/32" Hex/Allen wrench (Photo 7, Page 8).

Upper Pulley

The Upper Pulley is mounted on a shaft with two sealed bearings and lock rings. It is recommended that the pulley, shaft, and bearings be replaced as a unit. Loosen the two square head screws on the pulley shaft support on the tensioner (Photo 5, Page 8). Slide the shaft out toward the pulley. Lightly coat the new shaft with grease and insert the new shaft and pulley into the support with the end of the shaft protruding about 1/16" past the end of the support. (Photo 5, Page 8) Tighten the square head screws. On older machines you may need a wood or plastic hammer to tap the shaft out. Do not hit the pulley itself with anything.

Roller Platen

The Roller Platen is made as an assembly with the roller, two sealed bearings, and the shaft. It is best to measure and record the distance from the inside edge of the roller to the bracket (Photo 8, Page 8) so the new Roller Platen can be placed close to the same position. To replace the Roller Platen, remove the sanding belt, then loosen two square head set screws on the Roller Platen bracket (Photo 8, Page 8), and remove the assembly. Fit the new assembly at the same distance from the bracket as the old Platen, then tighten the two set screws. Replace the belt, turn on the machine and check that the platen and belt are running true.

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CRL/SOMACA BELT SANDER MODEL 3300RP

4.6 Roller Platen, Upper Pulley Shaft Assemblies

ROLLER PLATEN, UPPER PULLEY, SHAFT AND BEARINGS

For ease of maintenance and durability, the Roller Platen and Top Pulley Assemblies are supplied as one-piece assemblies. Replacing the bearings or shaft alone requires a press and an experienced operator. Because the roller platen, top crowned pulley itself, and the bearings are some of the few parts of the 3300RP that may need replacement, they are sold as unit assemblies.

These assemblies can be replaced quickly with simple hand tools by following the instructions on **Page 7** of this manual. Assistance with any maintenance operation on the 3300RP is available by calling the CRL/Sommer & Maca Machinery Division at (773) 242-2871. Parts can be ordered online at: crlaurence.com.

5.0 REFERENCE PHOTOS

5.1 Photos To Illustrate Maintenance Operations



Photo 1. "A" -E-Stop button on main switch. "H" Lockout tab pulls down when E-Stop switch is pushed full in.

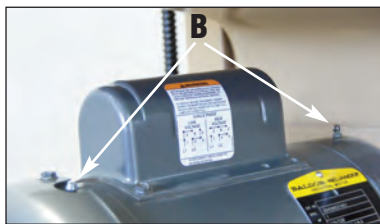


Photo 3. Grease fittings on the motor.

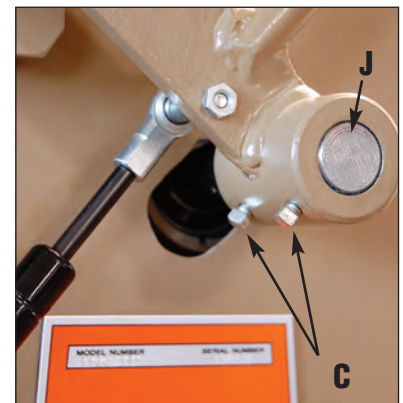


Photo 5. 2 Square Head Screws "C" holding the Upper Pulley Shaft "J". Loosen these to remove the Upper Pulley Assembly.

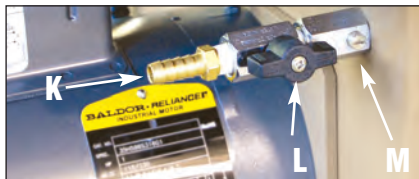


Photo 2. Water valve "L", and regulator "M". Attach 9.5mm (3/8") I.D. hose to brass barb fitting "K" and secure with a hose clamp.



Photo 4. 220 V Motor wiring:
 •Blue supply wire to Red & Yellow on Motor.
 •Brown supply wire to Blue on Motor
 •Green/Yellow Earth wire to earth screw in box.
 •Black, White, Orange Motor wires together.
 Secure with screws and nuts and electrical tape.

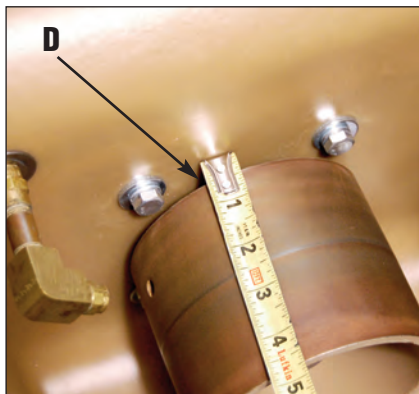


Photo 6. Measure Pulley to tank distance "D" before removing Lower Pulley.

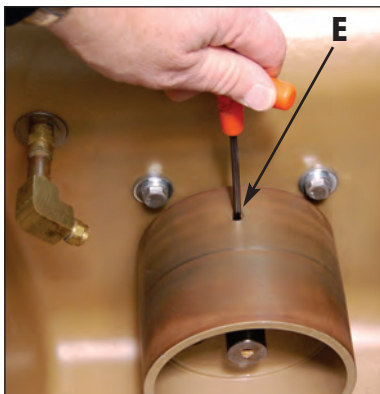


Photo 7. Loosen two set screws on the Lower Pulley with a 5/32" Hex/Allen wrench. Holes in the Pulley "E" line up with the two set screws.

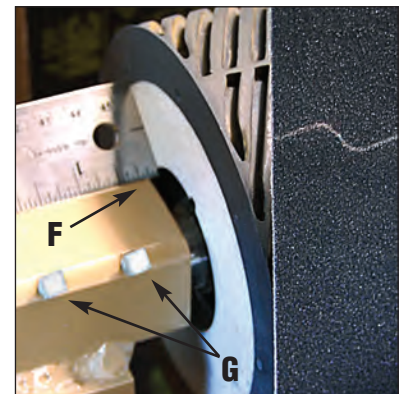
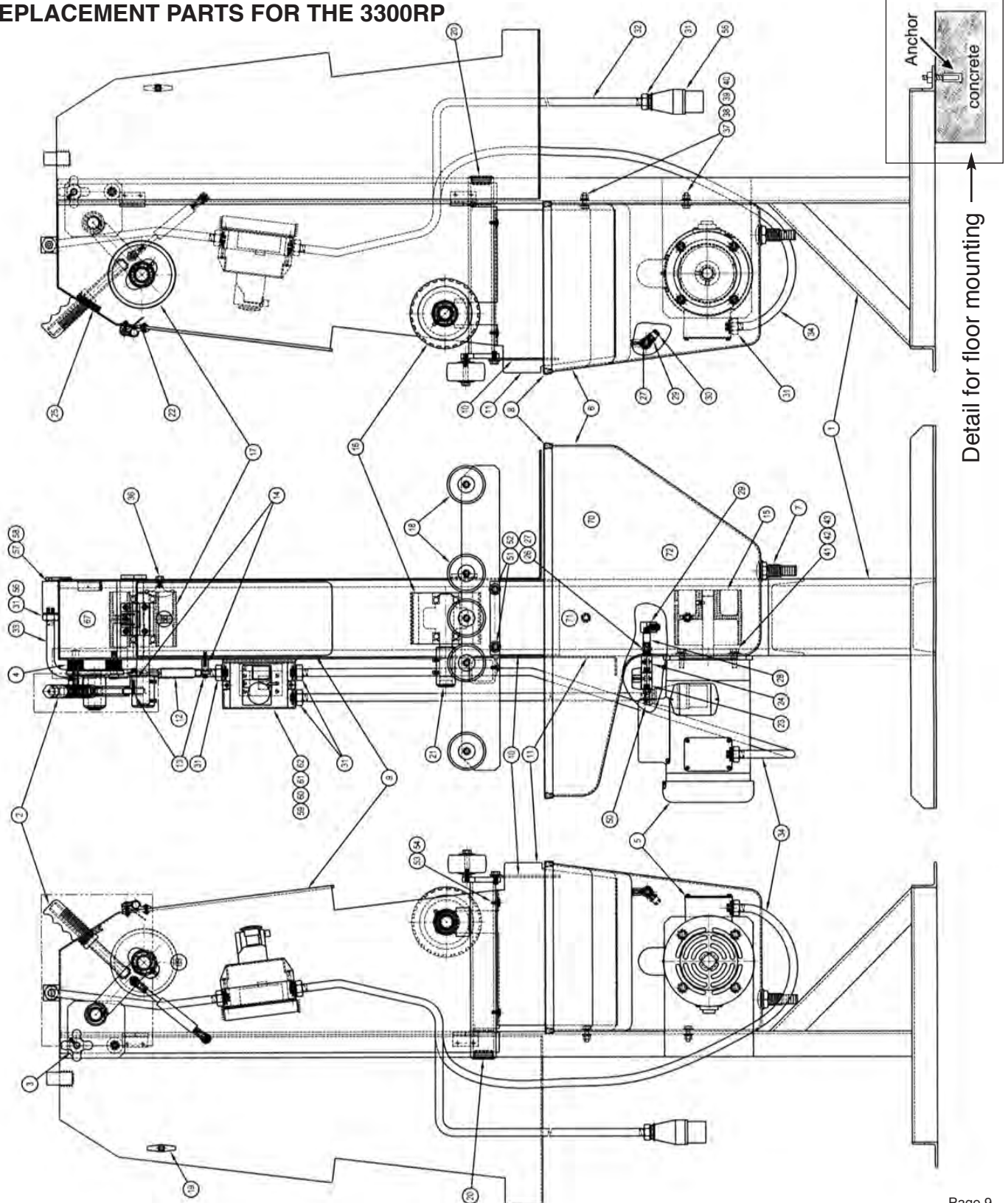


Photo 8. Measure Pulley to bracket clearance "F" before removing the Roller Platen. Loosen two Square Head screws "G" to remove the Roller Platen.

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6.0 REPLACEMENT PARTS FOR THE 3300RP



6.1 Replacement Parts for the 3300RP



23

24



30



26



27



28



29



31



32, 33, 34



4



3



2



72

This Bearing is offered so that you can rebuild your Upper Pulley or Roller Platen. Use of a bearing press and some fitting will be required.

REF.	QUAN.	CAT. NO.	DESCRIPTION
1	1	39931100	FRAME, WELDMENT, 3300RP
2	1	330013	TENSIONER ASSEMBLY
3	1	330007	ADJUSTMENT KNOB
4	1	330014	TENSIONER MOUNTING KIT
5	1	2200110VMTR	MOTOR, 1 HP, 110/220V, 50/60 HZ, 1800 RPM
6	1	2200802	TANK, WATER BUCKET, MOLDED
7	1	2200803	TANK DRAIN FITTING
8	1.83m	75343C	PROTECTIVE TRIM, 1/4", QUICKEDGE (6 ft.)
9	1	3300SS	EYESHIELD
10	1	39930900	GUARD, FRONT
11	1	39930800	GUARD, LOWER
12	1	330012	TENSIONER, GAS CYLINDER
13	2	45025760	M6 x 45mm SOCKET HEAD CAP SCREW
14	2	46902061	SPACER, 1/2 OD x 1/4 ID x 15/16
15	1	2622028	LOWER PULLEY
16	1	330010	ROLLER PLATEN ASSEMBLY
17	1	330011	UPPER PULLEY ASSEMBLY
18	1	330015	SET, WHEELS, BOLTS AND NUTS
19	1	46104650	PHENOLIC TWO ARM THREADED KNOB
20	1	46902390	PLUG, 1-3/4" SQUARE, TUBE, POLY, BLACK
21	1	46902380	1-1/4" SQUARE CAP, SMOOTH, BLACK
22	1	39912600	OVERSPRAY GUARD
23	1	42053492	VALVE, BALL, 1/4NPT, ON/OFF
24	1	42053502	VALVE, BALL, 1/4NPT, REGULATOR
25	1	46104660	14 LB (6.35 kg) PULL MAGNET, ADHESIVE BACKED
26	1	45113672	WASHER, FLAT, 1/2 SAE
27	1	12028614	COUPLING, FULL, 1/4", BRASS
28	1	42001614	NIPPLE, 1/4" x 1-1/2, SCHD 40 BRASS
29	1	42011014	ELBOW, 1/4", 90°, BRASS
30	1	42201953	NOZZLE, #H1/4 M-4, BRASS
31	6	41400550	CONNECTOR, STRAIGHT, 3/8", BLACK NYLON
32	2.43m	23600590	CONDUIT, LIQUID TIGHT, 3/8" PVC, BLACK (8 ft.)
33	0.76m	23600590	CONDUIT, LIQUID TIGHT, 3/8" PVC, BLACK (2.5 ft.)
34	1.67m	323600590	CONDUIT, LIQUID TIGHT, 3/8" PVC, BLACK (5.5 ft.)
35	2	45001890	SCREW, ROUND HEAD, 10-24 x 5/8
36	1	15000260	HEX HEAD CAP SCREW, 5/16-18 x 1/2
37	2	15000050	HEX HEAD CAP SCREW, 5/16-18 x 1.00
38	4	45113510	WASHER, 5/16
39	2	15110360	LOCK WASHER, 5/16
40	2	15100101	NUT, 5/16-18
41	4	15000560	HEX HEAD CAP SCREW, 3/8-16 x 1.25
42	4	15113950	WASHER, 3/8
43	4	15110371	LOCK WASHER, 3/8
44	8	41423210	TERM FORM, 18-14 GA 10 STD INSULATED
45	9	41422510	TERM RING, 22-18 GA, 8 STD NON-INSULATED
46	13	41422540	TERM RING, 14-16 GA, 8 STD NON-INSULATED
47	2	45100053	HEX NUT, 10-24, BRASS
48	2	15018443	SCREW, RH SLOTTED, 10-24 x 1/4, BRASS
49	12	41423800	TERM FERRULE, 14 GA, INSULATED
50	1	42333028	BARB, HOSE, 3/8 ID TUBE x 1/4NPT, MALE
51	2	45113510	WASHER, FLAT, 5/16, SAE
52	2	15000530	HEX HEAD CAP SCREW, 3/8-16 x .75
53	2	15000010	HEX HEAD CAP SCREW, 1/4-20 x .50
54	2	45113730	WASHER, FLAT, 1/4, SAE
55	1	41415660	PLUG, CONNECTOR TYPE GENDER, WALTHER
56	1	41915582	GLAND, CABLE, REMOVABLE
57	1	41915581	SWITCH HEAD, METAL END PLUNGER
58	1	41915580	SWITCH, LIMIT
59	1	41559254	SOLENOID, TRIPPING, UNDER VOLTAGE
60	1	41559090	STARTER, MANUAL
61	1	41559283	ENCLOSURE, SURFACE MOUNT
62	1	41559290	KIT, MANUAL STARTER PUSHBUTTON
63	1.82m	23402670	CONDUCTOR, Cu, #14 AWG, BLACK, (6 ft.)
64	4.57m	23402710	CONDUCTOR, Cu, #14 AWG, BLUE, (15 ft.)
65	4.57m	23402740	CONDUCTOR, Cu, #14 AWG, BROWN, (15 ft.)
66	4.57m	23402691	CONDUCTOR, Cu, #14 AWG, GRN/YEL, (15 ft.)
67	1	42700012	EAGLE NAMEPLATE, 4-1/2 x 5-1/2 SOMACA
68	1	37965400	CAUTION PLATE (LEGISIGN)
69	1	38347600	LARGE SERIAL NO PLATES, PLASTIC LAYERED
70	1	42700031	LABEL, SML SOMMER & MACA
71	1	42700090	STRIPE, 7/8 x 25-3/4 LONG
72	4	44130570	SEALED BEARING*

Minimum order for all parts is one each.

*44130570 BEARING, not numbered on drawing on page 9

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C. R. Laurence Co., Inc. • 2503 E. Vernon Ave., Los Angeles, California USA 90058 (323) 588-1281
Sommer & Maca Machinery Division • 5501 W. Ogden Ave., Cicero, Illinois USA 60804 (773) 242-2871

CRL/SOMACA BELT SANDER MODEL 3300RP

6.2 Common Replacement Parts for the 3300RP



CAT. NO. 330010 **DESCRIPTION** Roller Platen Assembly



CAT. NO. 2622028 **DESCRIPTION** Lower Pulley



CAT. NO. 330011 **DESCRIPTION** Upper Pulley Assembly



CAT. NO. 2200110VMTR **DESCRIPTION** 1 HP Motor



CAT. NO. 330012 **DESCRIPTION** Tensioner Gas Cylinder



CAT. NO. 330015 **DESCRIPTION** Set of 5 Wheels and Bolts for Guide Bar



CAT. NO. 42201953 **DESCRIPTION** Water Spray Nozzle

Minimum order for all parts is one each.

CRL 4" x 106" Wet or Dry Abrasive Belts



CAT. NO.	GRIT
CRL4X10636X	36X
CRL4X10640X	40X
CRL4X10650X	50X
CRL4X10660X	60X
CRL4X10680X	80X
CRL4X106100X	100X
CRL4X106120X	120X
CRL4X106150X	150X
CRL4X106180X	180X
CRL4X106220X	220X
CRL4X106320X	320X
CRL4X106400X	400X
CRL4X106600X	600X
CRL4X106CORK	POLISH

Five belts per box, except cork, which has two

Typical Use of Different Grits Available and Results of Their Use

GRIT	TYPE	APPLICATION	EXAMPLE
60X	Extra Rough	For removing glass fast	Mitered edge
80X	Rough	For quick contouring	Auto glass edge
120X	Smooth	For seaming and polishing	Desk top edge
220X	Extra Smooth	For fine frosted finish	Step used before 400X belt
400X	Fine	For satin finish	Finest opaque edge

CRL/SOMACA BELT SANDER MODEL 3300RP

7.0 TROUBLESHOOTING

7.1 Troubleshooting Chart

TROUBLE	PROBABLE CAUSE	REMEDY
1. Won't Start With Switch On	Power Failure	a. Deactive E-Stop by turning it clockwise. b. Check voltage at plug-in source. b. Check voltage to switch on machine* c. Check voltage at motor* d. Check starting capacitor on motor* * You may want to have an electrician perform these checks
2. Water Does Not Flow	Water Restriction	a. Ensure source water is on. b. Ensure manual water valve is open. c. Remove and clean nozzle.
3. Belt Does Not Track	Out of Adjustment	a. Adjust according to operating instruction manual. P.5 sec 2.1 b. If it still does not adjust, replace crowned pulleys/assemblies with Cat. Nos. 330011 Upper and Cat. No. 2622028 Lower. P.7 sec 4.5
4. Vibration or Noise	Bad Bearing	a. Check by feeling roller platen shaft and top pulley shafts for vibration from bearing problem. Replace Top Pulley Assembly or Roller Platen Assembly. P.7 sec 4.5 b. Feel motor while running with and without belt. If vibrating, replace motor per operating instructions.
5. Guide Rollers Won't turn	Frozen Sleeve Bearings.	a. Replace rollers and bolts. b. Lubricate rollers and bolts.

7.2 Gaurds and Safety Limit Switches

The CRL/SOMACA Model 3300RP has many guards in place to protect the operator and the workspace. DO NOT disable any limit switch or component that would allow the machine to operate while any gaurd is missing or open. The front guard is plexiglass and can be raised for cleaning and access to the belt. It must always be in the closed (down) position when the machine is running.

The belt door guard is on the right side of the machine and has a limit switch on top (see photo below) so that if the door is opened during operation, it will shut off power to the machine. To restore power, close and secure the belt guard door and deactivate the E-Stop by pressing in once and turning the knob clockwise so the E-Stop pops out. Then push the start button on the main control switch.

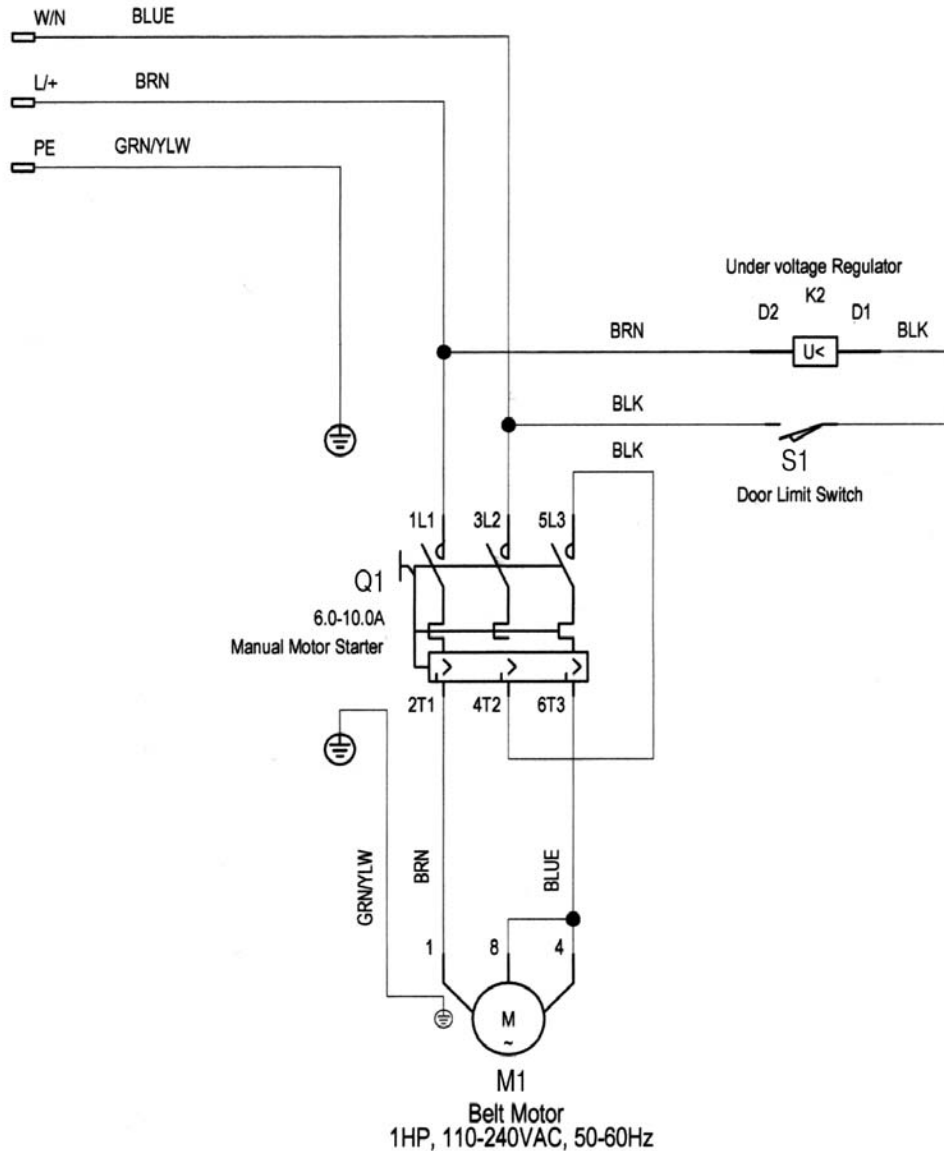
No other guards can be opened as they are fastened with bolts. DO NOT operate the machine without ALL of the guards in place and closed correctly.



This is the Limit Switch on top of the 3300RP. Whenever the Belt Door is opened this switch will shut the power to the machine off.

CRL/SOMACA BELT SANDER MODEL 3300RP

8.0 ELECTRICAL SCHEMATIC



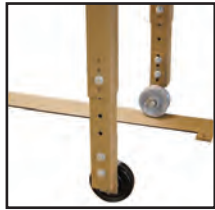
Note:

1. Power to be supplied by customer.
2. Wires must be 14AWG or a cross sectional area of 2.08mm²
3. Leads terminating to the Motor Starter or the Under Voltage Regulator must be equipped with a ferrule.
4. Put electrical tape on all Motor Lug connections.
5. Belt Motor wires numbered 2, 3 and 5 are to be tied together.

CRL/SOMACA BELT SANDER MODEL 3300RP

9.0 ACCESSORIES

ACCESSORIES FOR CRL/SOMACA 3300RP BELT SANDER



Legs Adjust to Fit Any Belt Machine



CRL Universal "One-Man" Movable Glass Table

- Makes it Possible for One Person to Sand Large Pieces of Glass
- Fits Any Make Upright Belt Sander (Table Shown in Front of 2200RP Sander)

One person can sand large pieces of glass without having to support the weight of the glass by using this CRL Universal "One-Man" Movable Glass Table. It rolls on a support rail in front of the sander, so the operator controls the amount of pressure the glass applies against the belt. The table top is carpeted, and has four pop-up ball casters, allowing easy glass rotation. All sides can then be sanded without having to lift the glass. The legs are adjustable to allow use with any upright belt sander. Table Guide Rail is 156" (3.96 m) long; Table Top is 36" x 60" (914 x 1524 mm). Minimum order is one each.

CAT. NO. 3LRT

CRL Belt Guard Safety Shields



CAT. NO. 2200SS



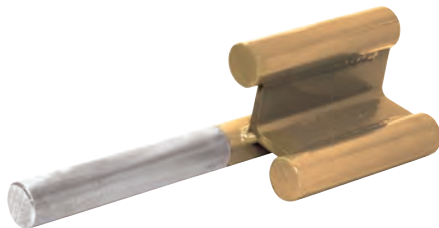
CAT. NO. 3300SS

CRL Belt Guard Safety Shields for the 2200RP Upright Belt Sanders protect your face and eyes from flying debris, giving you an added degree of safety. The 2200SS is standard equipment on early 2200RP Sanders up to Serial Number 67982. It can also be retro-fitted on older 2200RP Sanders. The 3300SS is standard on the 2200RP machines starting with Serial Number 67983. It also fits all 3300RP Machines. Minimum order is one each.

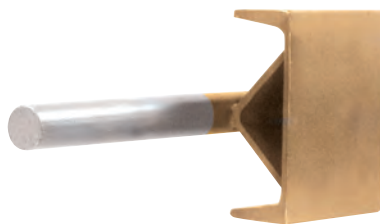
CAT. NO. 2200SS Fits 2200RP Machines up to serial no. 67982

CAT. NO. 3300SS Fits all 3300RP Machines and 2200RP Machines starting with serial no. 67983

CRL Platens



CAT. NO. BP2001



CAT. NO. FP2002

CRL Platens fit on the 3300RP and 2200RP can be inserted into the platen mount and tightened just like the Roller Platen. The BP2001 Bar Platen will produce a slightly rounded edge. The FP2002 Flat Platen will work best when flat edges are desired. Minimum order is one each.

CAT. NO. BP2001 Bar Platen

CAT. NO. FP2002 Flat Platen

SOMMER & MACA GLASS MACHINERY COMPANY A DIVISION OF C.R. LAURENCE

Sommer & Maca
GLASS MACHINERY DIVISION

- All Machines Shown are Available for Shipment Worldwide



VE1P
One-Spindle Glass Edger



BM64B
64" Upright Belt Sander



CRL2
Glass Drilling Machine



DBS106
Dry 106" Twin Belt Seamer

DBS106W
Wet 106" Twin Belt Seamer



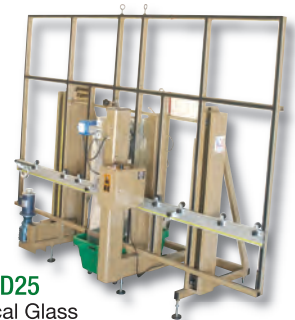
2402502
Tilt-Top Cutting Table



VEW60
60" Vertical Glass Washer



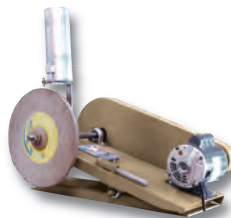
GM24 / SM24
Glass Grinding/Smoothing Mills



TD25
Vertical Glass Drilling Machine



SM37
Glass Polisher and Scratch Remover



FG14BM
Finger Pull Machine



VE2PLUS2
Two-Spindle Glass Edger

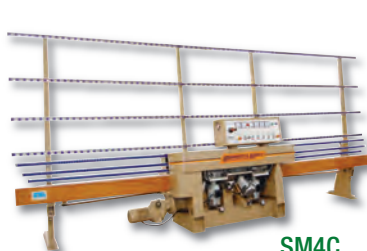


TTW60G
Glass Washing Machine

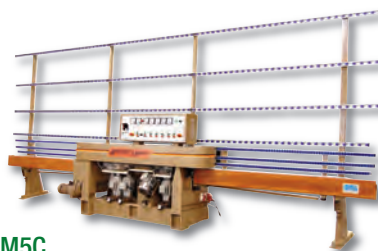
The Sommer & Maca Glass Machinery Company has built and serviced innovative, specialized machinery for the glass industry for over 80 years. Sommer & Maca machines are built to exact specifications and tested by machinery experts, then crated and shipped for use throughout the world. An extensive inventory of service parts is maintained, and trained technicians can provide installation and service assistance for the entire line.

We invite you to contact us regarding our line of quality glass machinery. Let CRL/Somaca help you design the perfect machines and glass processing equipment to suit your needs. Call our Glass Machinery Division at (866) 583-1377. You can also send e-mail to somaca@crlaurence.com.

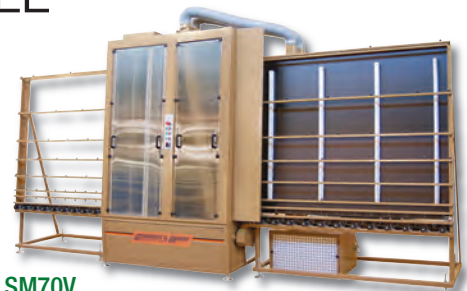
THREE **NEW** MACHINES NOW AVAILABLE



SM4C
Four-Cup Flat Edger



SM5C
Five-Cup Flat Edger



SM70V
Closed Top 70" Four-Brush Vertical Glass Washer

CRL/SOMACA BELT SANDER MODEL 3300RP

LIMITED WARRANTY AND LIABILITY STATEMENT

C.R. Laurence Co., Inc., hereinafter referred as "Seller," warrants the equipment of its manufacture for one year from date of shipment, against defective materials or workmanship, with the exception of:

- (1) One year warranty on motor starting from the manufacture date stamped on the motor.
- (2) Bearings and shafts shall have a 90-day warranty from date of shipment.

Seller's sole obligation shall be limited to the repair or replacement, at **Seller's option**, of defective parts within the warranty period, provided buyer gives Seller **immediate** written notice of such alleged defects, and, if requested by Seller, returns the defective parts to the Seller's factory, prepaid by Buyer, for Seller's inspection. All warranty claims shall be subject to C. R. Laurence inspection and approval.

The warranties herein shall not apply to any equipment damaged by misuse, negligence, or accident or other causes unrelated to defective materials or workmanship.

Important Information

Date of Delivery _____

Date of Manufacture _____

Serial Number _____

Model Number _____



It is important to have all of the information from the Machine Identification Plate if you need to email or call for parts or service advice. Record the numbers from your machine in the space above.

SM3300RP_04/10

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