

OPERATIONAL MANUAL

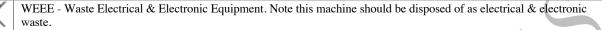
MODEL: SL-1.0 SEAM LOCKER



by BLUEROCK ® Tools

UNPACKING THE ITEM

Caution: This machine is packed together with items that may be sharp, oily and overly heavy objects. Remove the machine from the packaging in a safe manner. Check to ensure all accessories are included with the item while unpacking. If any parts are found to be missing, contact the retailer as soon as possible. Do not throw away the packaging until the item is out of the guarantee period. Dispose of the packaging in an environmentally responsible manner. Recycle if possible. Keep all plastic bags away from children due to risk of suffocation.



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SL-1.0 SEAM LOCKER

Chapter



DO NOT USE THIS MACHINE UNLESS YOU HAVE READ THE OPERATING INSTRUCTIONS!



Safety glasses must be worn at all times in work areas. Use a full face mask whenever possible.



Appropriate footwear must be worn.

Safety gloves should be worn at all times and jewelry must not be worn.



Read operational manual prior to use.



contained.

Long and loose hair must be



Hearing protection should be worn when using this machine.

PRE-OPERATIONAL SAFETY CHECKS

- Examine the power cord and plug for damage. \geq
- Examine the body of the machine and inspect for damage or defects. \geq
- Examine the Driving Wheels and Support Floor to ensure they are operable. ≻
- 0 Make certain the on/off switch is in the off position.

OPERATIONAL SAFETY CHECKS

≻ ONLY to be operated by qualified personal who have read instructions.

> NOTE: Failure to read and follow instructions could result in electrical shock, fire, property damage and/or 0 serious injury!

- ≻ DO ensure all non-essential people are clear of the immediate work area.
- DO keep body parts, clothing & power cords clear of turning pieces. Stay alert and use common since when using ≻ this tool.
- ۶ DO use both hands when using this machine.
- ۶ DO guard against electric shock by preventing body contact with grounded surfaces such as pipes, radiators, ranges, refrigerators, etc.

SL-1.0 SEAM LOCKER

DO be mindful that power tools can expose an operator to vibrations transmitted trough contact with the machine. Prolonged exposure can lead to medical issues which should be discussed with a medical professional. DO use a dust extraction system for working materials that create or contain dust. The operator should also wear a \triangleright protective respiratory device. DO NOT place your hand/hands into the processing line. \geq \geq DO NOT make adjustments to machine while the machine is running. DO NOT use this machine with water or any type of liquids. \triangleright \triangleright DO NOT leave the machine running when not in use. \triangleright DO NOT hold the work piece by hand or using body. Always mechanically clamp or secure work piece to create a safe distance between the user and workpiece. DO NOT allow liquids or dust to enter the machine's ventilation system. \triangleright \triangleright DO NOT operate machine outside of machine specifications. DO NOT touch moving parts while the machine is running as death or dismemberment could occur. \triangleright DO NOT remove machine components while machine is connected to a power source. Only to be removed for \triangleright service by qualified personal and put back on the machine after service is complete. DO NOT allow children or untrained personal to operate machine. \triangleright DO NOT use this machine in the rain or a wet environment. If using outdoors, make sure the surface is clean and dry. \triangleright DO NOT operate in the presence of explosive materials as power tools create sparks which may ignite dust or fumes. \triangleright DO NOT use on a work area that may contain a live electrical wire/circuit. \triangleright DO NOT use the machine overhead. \triangleright DO NOT operate this machine on the same work surface where welding is being performed. This could result in ⊳ severe damage to the machine or personal injury to the user.

> DO NOT operate this machine on a lower voltage as this could limit the motor life and work efficiency.

NOTE: Use of long small gauge power extension cords can result in decreased voltage. As local voltages can vary, it may be a good idea to test the voltage at the end of the extension cord to ensure proper voltage requirements are met. You might also consult an electrician to make sure the length of cord matches up with the proper wire gauge for this size motor. Make sure to use outdoor cords when operating outdoors. Use a GFCI circuit if using in wet locations.

Specifications

ELECTRICAL DATA		
Voltage	120V, 60Hz	
Current	11.6 Amps	
Motor Size	1400W	
Power Connection	US Standard Type Plug	
Protective Insulation	Class II	

MECHANICAL DATA	
Lock Capacity	0.5mm – 1.0mm
Material Tensile Strength 400N/mm ²	0.03-0.04inch
Inner Radiuses	Min 5.9"
Outer Radiuses	Min 11.8"
Machine Speed	150 RPM Single Speed Gearbox
Working Speed	13-23 ft/min
Nominal Power Consumption	500W
Noise*	Typically 81dB (A) to 85dB (A)
Vibration*	Typically less than or equal to 2.5 m/s ²

* The measured values specified above may be exceeded while working.

SHIPPING DATA	
Machine Weight	11.5lbs
Shipping Weight	19lbs
Shipping Carton	19" x 12" x 9"

Included Accessories

DESCRIPTION	QTY
Instruction Manual	1
Primary Handle (Lever)	1
Edge Preparation Tool	1
Allen Head Wrench	1

Additional Available Accessories

Additional accessories for this machine may be found in BLUEROCK ® Tools' online shop at <u>www.bluerocktools.com</u> or from your local retailer.

Operations

Note

THOROUGHLY READ THROUGH THE ENTIRE MANUAL BEFORE OPERATING THIS MACHINE!

PURPOSE

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The purpose of the SL-1.0 Seam Locker is to close Pittsburgh lock joints on correspondingly pre-machines workpieces, e.g. ventilation ducts, housings, containers, etc.

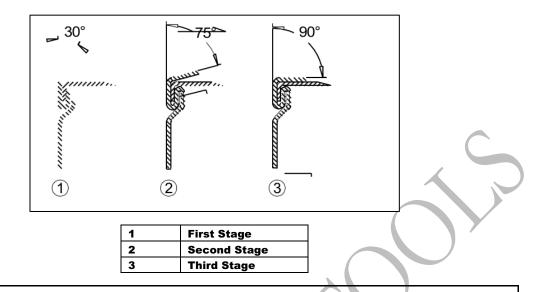
OPERATIONAL PRINCIPLES

- > The lock seam can be closed on straight or slightly curved contours
- > The machine adjusts itself automatically to the sheet thickness to be processed.
- > The model SL-1.0 is for locking seams 0.5mm-1.0mm ONLY.

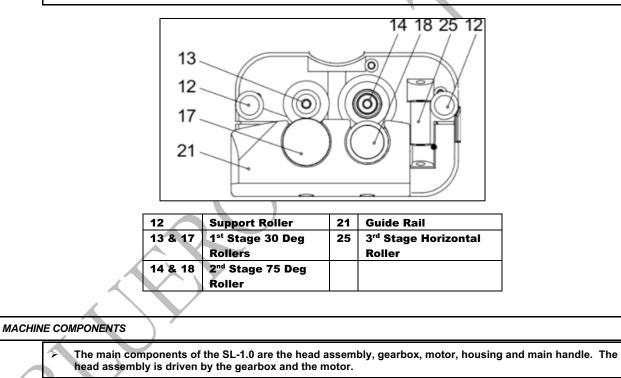
Range of Sheet Thickness SL-1.0		Height of flange	Picture	
[mm]	[Gauge]	(B) [mm]		
0.5mm-0.75mm	26-22 gauge (Standard Steel) 0,02-0.03 in 28-24 gauge (Galvanized Steel)	6-8mm	B B	
0.75mm-1mm	22-20 gauge (Standard Steel) 0.03-0.04 in 24-20 gauge (Galvanized Steel)	9-11mm	س ا	
			B Height flange	

The quality of the locking seam depends on the height of flange B. If B is too large or too small, the lock seam cannot close properly. Make sure to measure your sheet in mm to make sure the material is withing the above chart.

> The seam locker uses 3 stages to lock a seam as it rolls over material. Those stages are outlined below.

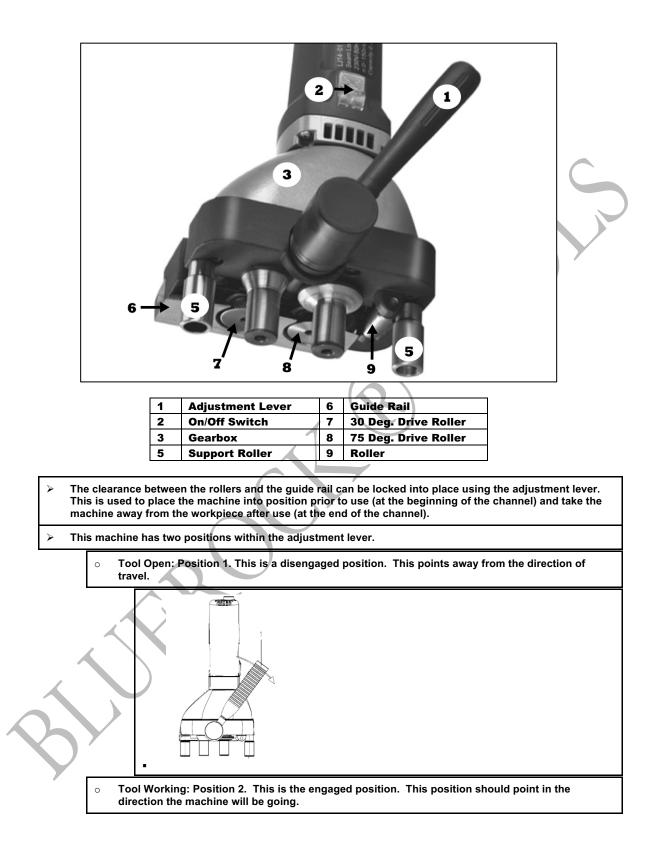


> The components within the rolling assembly are outlined below with specific attention to the stages shown above.

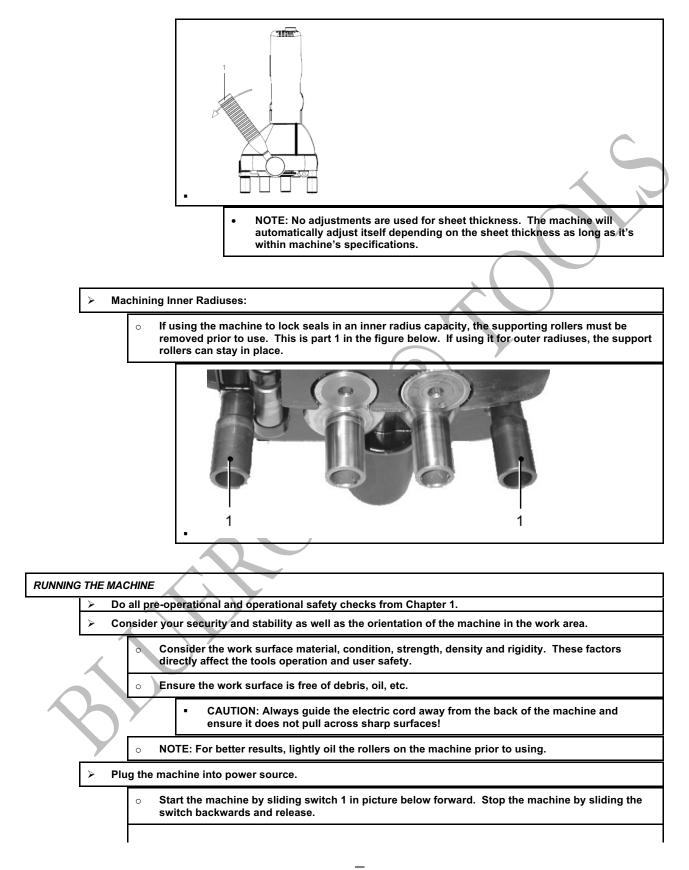


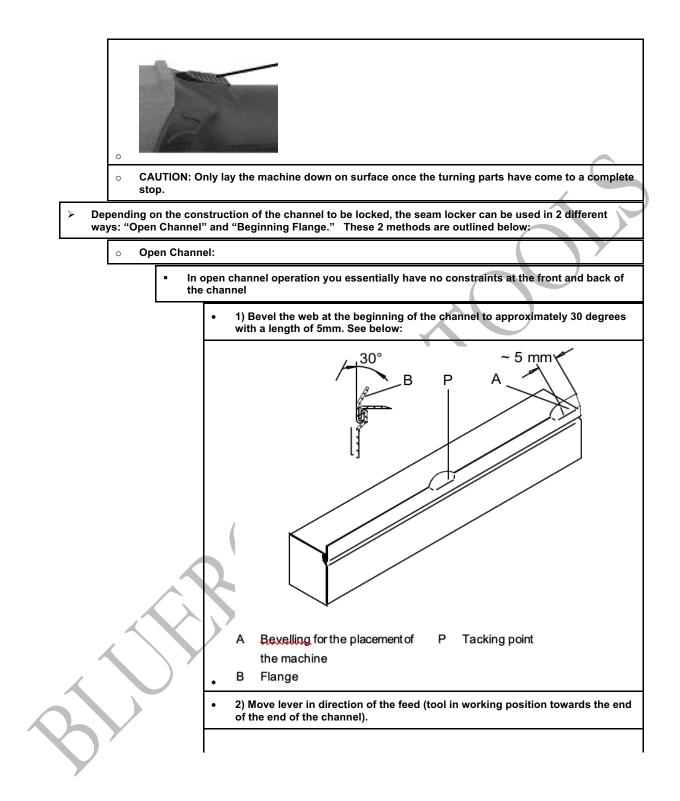
These components must be not be removed except by a qualified technician. Power must be disconnected prior to any service.

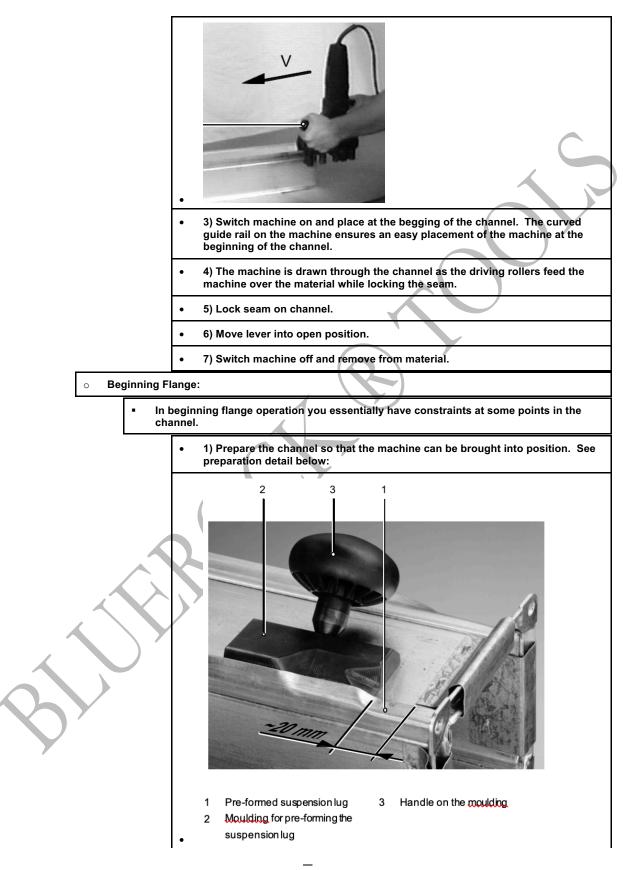
> The machine has a single speed switch located on the main handle (the machine body).



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• 2) Move lever into position against the channel with the lever in the open position (away from the direction of feed)		
• 3) Set the machine up against the prepared material on the channel.		
• 4) Move lever in direction of the feed (tool in working position towards the end of the end of the channel).		
• 5) Switch machine on.		
• 6) The machine is drawn through the channel as the driving rollers feed the machine over the material while locking the seam.		
• 7) Lock seam on channel.		
8) Move lever into open position (away from feed direction)		
• 9) Switch machine off and remove from material.		
amount of refinishing must be carried our manually at the end of the channel. This 0mm of manual work.		

TRANSPORTING THE MACHINE

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- > When transporting the machine, always carry by the machine main handle.
- If transporting inside a vehicle, it is recommended to transport it on its side so as to avoid the item falling over.
- > DO NOT carry the machine by the cord.
- > DO NOT allow the cord or plug to drag along the floor when transporting.





Note

SERVICING SHOULD ONLY BE DONE BY A QUALIFIED TECHNICIAN.

DON'T FORGET TO UNPLUG POWER TO UNIT PRIOR TO SERVICE!

PROBLEM SOLUTION				
FROBLEM	SOLUTION			
Motor does not turn on.	 Check external power source (extension cord, breaker, etc). Loose internal wire. Check and secure if necessary. Motor brushes defective or worn. Replace if necessary. Check to ensure the motor on/off switch is operable. Replace if necessary. 			
Excessive sparking when motor is running.	 This may indicate the presence of debris in the motor or worn out carbon brushes. Check the brushes for unusual wear and replace if necessary. Clean out the internal motor armature if necessary. Armature has a rough edge. Inspect and replace if necessary. 			
Machine is not locking seems fully.	 Wear parts such as Driving Wheels and Pressing Wheels are worn. Replace worn parts. Material is not appropriate for this machine. See chapter 3 for sheet type and flange heights. 			
Locking handle is too loose/too tight and will not engage properly into a locked position.	1) Adjust the handle spacer shims. Handle spacer shims can wear over time. See occasional maintenance section in chapter 5.			

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General Maintenance

- > Inspect electrical cords and electrical connections.
- > Keep machine clean and free of debris. Clean motor ventilation slots as necessary.
- > Check for misalignment, binding and breakage of all moving parts. If damaged, repair tool before use.
- > Guide Rails of Machine:

 Clean and oil guide rails on the machine after every 10hrs of use. Cleaning the guide rails can be done with a steel brush. Oil to be used can be Universal Lubricating oil. Check for misalignment, binding and breakage of all moving parts. If damaged, repair tool before use.

Gearbox Service:

• After 300hrs of use, gearbox grease should be replaced. G1 lubricating grease is recommended.

Occasional Maintenance

- > Have the power tool serviced by a qualified service technician using identical replacement parts.
 - Change motor brushes:
 - > Disconnect machine from power.
 - > Take off motor handle housing.
 - > Unscrew left and right side brush holder caps.
 - > Take out old brushes.
 - > Replace with new brushes.
 - > Screw in brush holder caps tightly.

Changing out rollers. If any rollers are disassembled, reassemble using 24Nm or toque and use Loctite 262. If the slotted nut is disassembled, reassemble to 16Nm of torque and use Loctite 262.

Adjust Handle Spacer Shims if machine handle is too loose or too tight and is not locking into position.

- Disconnect machine from power.
- > Take off motor handle.
- > Slip off plastic handle cap.
- > Push metal pin out of threaded handle assembly.



Parts List

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	1	Support floor	25	Кеу	49	Adjusting nut
	2	screw	26	Gear	50	screw
	3	30°Left Driving wheel	27	Bearing	51	Bearing
	4	75°Left Driving wheel	28	Gear	52	Bearing
	5	Side wheel	29	Bearing	53	screw
	6	screw	30	Gear	54	Gear box cap
	7	30°Right Driven wheel	31	Кеу	55	Bearing
	8	75°Right Driven wheel	32	Gear box	56	Clamp
	9	Pressing wheel	33	Bearing	57	Wind catcher
	10	Pin	34	Gear	58	Motor
	11	screw	35	Gear	59	Brush
	12	Right machine body	36	Catch spring	60	Brush Holder
	13	Pin	37	Gear	61	Field core
	14	Left machine body	38	Handlebar (optional)	62	screw
	15	screw	39	screw	63	Case
	16	Connection block	40	Turning handle	64	Controller (Only on 230V Versions)
	17	Bearing	41	Plastic cover	65	Switch push block
	18	Pin	42	Pin	66	Switch lever
	19	Screw plate	43	Rotor	67	Switch
	20	Screw plate	44	Disc spring	68	Cable fixer
	21	Gear	45	Disc spring	69	Motor holder cap
	22	screw	46	Central shaft	70	Cable protector
	23	Gear	47	Pin	71	Flexible cable
	24	Gear	48	Spring		

Breakdown View

