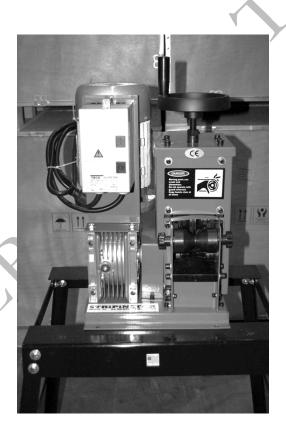
Volume

1.1

OPERATIONAL MANUAL

MODEL: **MODEL 60** BLUEROCK ® TOOLS WIRE STRIPPING MACHINE



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.



WEEE - Waste Electrical & Electronic Equipment. Note this machine should be disposed of as electrical & electronic waste.

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MODEL 60 WIRE STRIPPING MACHINE

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Safety

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



Safety glasses must be worn at all times in work areas.



Long and loose hair must be contained.



Appropriate footwear must be worn.



Close fitting/protective clothing must be worn.



Gloves, rings and jewelry must not be worn as wire could catch on the item and bring hands towards the machine.



Hearing protection should be worn when using this machine.

PRE-OPERATIONAL SAFETY CHECKS

- Examine the power cord, extension lead, plugs, sockets and power outlet for damage.
- > Ensure the safety guards are secure and correctly fitted.
- > Secure and support the work piece using clamps, bench vices, bolts, etc.

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 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/cutting pieces. Stay alert and use common since when using this tool.
- DO allow machine to reach operating speed before inserting a wire.
- > DO keep fingers and hands & power cords clear of cutting/rolling channels.
- > DO NOT make adjustments to machine while the machine is running.

- > DO NOT make machine adjustments while the machine is running.
- > DO NOT wear loose clothing or gloves as death or dismemberment can occur. When feeding wire/cable, gloves can snag on scrap wire and bring hand towards machine.
- > DO NOT put cable/wire longer than 1 meter into machine.
- > DO NOT switch off the machine when it is under load, except in an emergency.
- > DO NOT remove or modify grounding plug. Only to be used on a properly grounded circuit.
- > DO NOT leave the machine running when not in use.
- > DO NOT operate machine outside of machine specifications.
- DO NOT touch moving parts while the machine is running as death or dismemberment could occur.
- DO NOT remove machine metals panels while machine is connected to a power source. Only to be removed for service by qualified personal and put back on the machine after service is complete.
- > DO NOT allow children or untrained personal to operate machine.
- DO NOT use this machine in the rain, if peeling wet cable/wire, keep the blades dry, oil the machine often, test the blades and machine for oxidation.
- > DO NOT operate in the presence of explosive materials as power tools create sparks which may ignite dust or fumes.
- > 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 it may result in the motor being at a reduced power level and this could also limit the motor life.
 - 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.

Specifications

ELECTRICAL DATA	
Voltage	120V, 60Hz
Current	12.5 Amps
Motor Size	1.5 KW, 2HP
Motor Starter	120V TECO HUPB-18K Magnetic Starter
O/P	24 Amp Overload Protection (Set at 22A)
Power Connection	US Standard 3 Prong Type B Plug

MECHANICAL DATA	
Blades on Right	1 Blade – 1 Channel – cuts top of wires
Cutting Assembly	Single Cutting And Roller Channel
Cutting Speed	75 Feet Per/Minute
Wire Cutting Range	16 AWG – 2.25" OD Round Wire
Drive System	Transfer Case And Gear System

SHIPPING DATA	
Shipping Weight	137 Pounds
Shipping Carton	17" x 17" x 26"

Operations

Note

THOROUGHLY READ THROUGH THE ENTIRE MANUAL BEFORE OPERATING THIS MACHINE!

PURPOSE

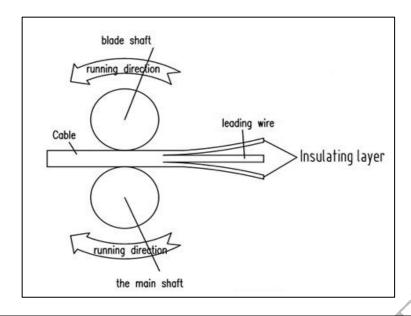
- The purpose of the Model 60 is to remove outer and inner jackets from wires and cables in order to separate the inner copper or aluminum. These types of machines are widely used in the recycling industry to extract copper and aluminum for recycling.
 - Note: These wire jackets can also to be recycled by many recyclers so inquire with your local scrap buyers.

INSTALLATION

- Install the machine in a dry place.
- > Bolt down or secure in some manner so as to be able to have access to both the front wire inlets and the back wire outputs.
- Make certain the machine is firmly secure so it will not tip or fall.

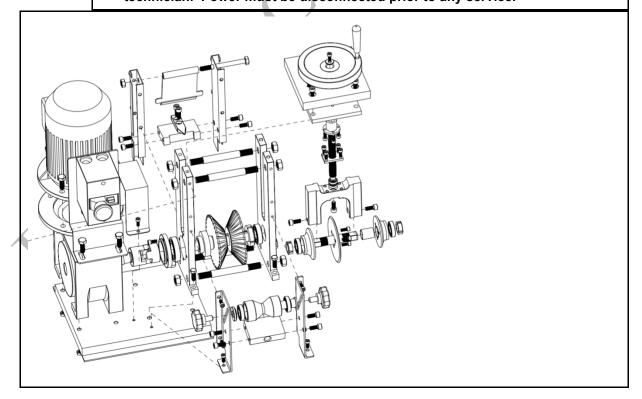
OPERATIONAL PRINCIPLES

- > This machine pulls wire into the machine across a single cutting and rolling channel.
- The main cutting blade shaft and main rolling shaft run inversely to create a mechanism that pulls the wire into front of the machine.

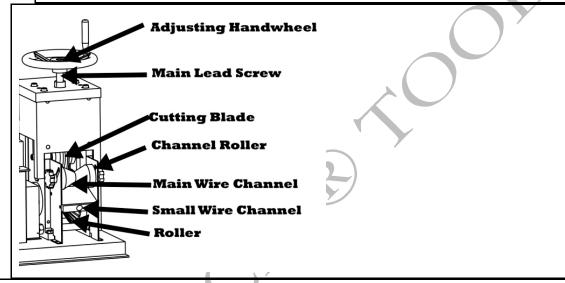


MACHINE COMPONENTS

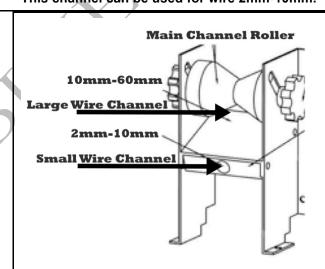
- > The main components of the Model 60 are the central channel rolling wheel and large blade. These are both driven by a transfer case, a gearing system and a motor. The safety guards are situated on top of both assemblies as well as in front where the wire guide is situated. There are also safety guards on top of the main drive gear as well as on the sides of the assembly bearing housings on the left and right. All of these components are situated on a steel tray.
 - The safety components must be not be removed except by a qualified technician. Power must be disconnected prior to any service.



- > This machine has one primary adjusting point. This is the large round wheel handle on the top of the lead screw. Turning the wheel clockwise will lower the main cutting blade. Turning the wheel counter-clockwise will raise the cutting blade.
- Under the cutting blade is the main channel roller. This roller is driven by the motor and transfer case. As the roller rotates, it will act as the pulling force to bring wires into the cutting channel making contact with the blade.
 - WARNING: DO NOT take off machine guards or channel roller. These are here
 to protect the user from getting to close to the rolling and cutting blades,
 which could cause serious injury, death or dismemberment.



- Under the main channel roller in the main large wire channel where wire 10mm-60mm can be fed through.
 - NOTE: DO NOT remove the main channel roller. Feed wire underneath this roller (not over the top).
- > There is a small wire channel located under the large wire channel (see figure below). This channel can be used for wire 2mm-10mm.



RUNNING WIRE

- > Do all pre-operational and operational safety checks from Chapter 1.
- > After securing the machine, plug the machine into power source.
- > Have your wires ready to process, by separating them by type and cutting them into 3-4' lengths.
 - This is primarily for safety, but also to protect the motor from torque created by pulling heavy wires into the machine.
- Go through the on/off functions to make sure they are operating correctly. Start the machine by pressing the green "on" switch. Stop the machine by pressing the red "off" switch.
- > Turn the machine on.
- > Select a wire to strip.
- > Adjust the handwheel (up/down) to adjust for the wire type you are running.
 - NOTE: Ensure the blade is higher than the wire running through. It's always better to lower the blade on the next pass rather than the blade cutting too deep into the wire or jamming up which can overload the machine.
- > Run the wire through.
 - o NOTE: If the wire did not cut, lower the cutting blade slightly and try again.
- > Turn machine off.
- Separate the wire from the jacket
 - On smaller wire this will be done by pulling the wire out of the jacket.
 - For larger wires with thicker jackets, if you are not able to pull the wire out of the jacket, you may need to run the wire through again cutting into the opposite side of the wire jacket.

Troubleshooting

Problem	Solution
Wires get jammed in the machine	1) Adjust the blade up.
For smaller wire, the cut in the wire jacket is not in the center of the wire	1) Adjust the blade right or left. 2) The Model 60 is made for primarily designed for cutting larger wires. It can cut small wire, but not as efficiently as some of the other machines BLUEROCK sells like the Model WS260, WS212, Model 930, Model 945 or some of the smaller manual machines like the MWS-808 series.
The machine is excessively loud and makes grinding noise	These machines are generally on the noisier side as they use gear drive system. You can however check the side adjustments as they could be out of alignment on the cutter rollers. The cutter rollers on the top of the cutting assembly can adjust right to left. The cutting blades should be centered in the middle of every roller. You can look down the middle of every roller from front and back of the machine to see if the cutters are in the center. If they are not, you can adjust the top cutter and rollers by adjusting the side bolts (with the lock nut) to slightly shift the cutter/roller. Make sure you do not tighten the bolts too much so the top cutter/roller assembly cannot raise and lower as wire passes through. Think of these bolts as side stops only, just to keep the assembly inline, so leave about 1mm gap in between bolt and cutter/rollers.
The machine is not cutting through the entire jacket	Increase the tension on the top wheel. It is also possible that either you are cutting wire that has too thick of a wire jacket or too dense a jacket. These jackets may not be able to cut with this machine.

Maintenance

- > Inspect electrical cords and electrical connections.
- Keep machine clean and free of debris.
- > Grease internal moving parts with red grease or Molybdenum grease as needed.
- > Spray antirust oil on spindle and blade shaft as needed.
- Inspect blades occasionally to ensure they are sharp for optimal cutting.

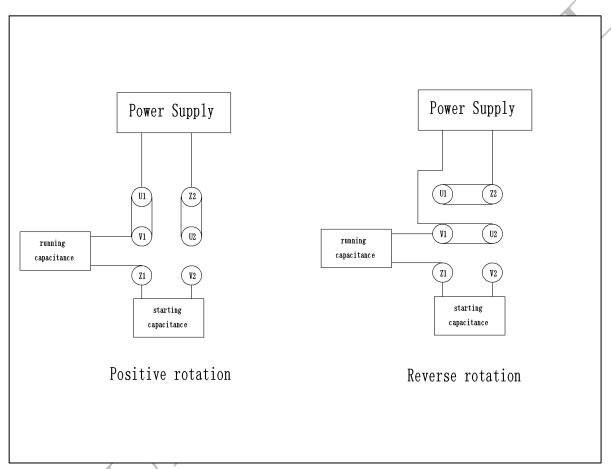
Changing Blades on Right Single-Blade Side

- 1. Take the top guard off.
- 2. Deconstruct assembly housing.
- 3. Take the cutter assembly out.
- 4. Unbolt the blade from the assembly.
- 5. Bolt in new blade and reconstruct assembly.
- 6. Put all back together. Ensure the blade is centered properly. You can adjust the centering using the spanner nuts on the sides of the blade assembly.





Motor Schematic



Parts List

#	CODE NUMBER	DESCRIPTION	Qty	MATERIAL
1	1.5-4 B5	Motor	1	
2	NMRW	Reducer	1	
3	RB-6-4-4	Switch	1	
4	MSY-60D-0001	Swith Mounting Plate	1	A3
5	GB/T5781-2000	Hex Bolt M10X20	2	A3
6	MSY-60D-0002	Shield	1	A3 T-1.5
7	GB/T70.1-1985	Hex Socket Bolt M6X15	4	A3
8	GB/T5781-2000	Hex Bolt M10X30	4	A3

9	MSY-60D-0003	Coupling Shield	1	A3 T-1.5
10	MSY-60D-0004	Mounting Panel Of Shovel (Left)	1	A3 T-1.5
11	MSY-60D-0005	Shield	1	A3 T-1.5
12	MSY-60D-0006	Mounting Panel Of Shovel (Right)	1	A3 T-1.5
13	GT/T70.1-1985	Hex Socket Bolt M6X15	10	A3
14	GB/T5780-2000	Hex Bolt M10X110	1	A3
15	GB/T41-2000	Hex Nut	7	A3
16	MSY-60D-0007	Shovel Fixed Panel	1	A3
17	GB/T70.1-2000	Hex Socket Bolt M8X20	10	A3
18	MSY-60D-0008	Shovel	1	A3
19	MSY-60D-0009	Wheel	1	
20	MSY-60D-0010	Handle	1	
21	MSY-60D-0011	Top Shield	1	A3 T-1.5
22	MSY-60D-0012	Cover Plate	1	A3
23	MSY-60D-0013	Pilot Nut	1	45#
24	MSY-60D-0014	Lifting Screw	<i>A</i>	45#
25	MSY-60D-0015	Bearing Cover	1	A3
26	61801	Deep Groove Ball Bearing	2	7.0
27	MSY-60D-0016	Blade Adapter	1	
28	MSY-60D-0017	Locking Nut Of Blade	2	45#
29	61904	Deep Groove Ball Bearing	2	45#
30	MSY-60D-0018	Blade Fixing Set (Right)	1	45#
		/		45#
31	MSY-60D-0019	Bearing Fasten Tube	1	45"
32	MSY-60D-0020	Blade Shaft	1	45#
33	MSY-60D-0021	Blade	1	GR12MOV
34	MSY-60D-0022	Blade Fixing Set (Left)	2	45#
35	MSY-60D-0023	Tie Rod	4	A3
36	MSY-60D-0024	Side Panel(Left)	1	45#
37	6005	Deep Groove Ball Bearing	1	
38	GB/T812-1988	4 Slot Round Nut M27x1.5	1	A3
39	MSY-60D-0025	Main Shaft	1	45#
40	MSY-60D-0026	Conveyor Roller	2	45#
41	MSY-60D-0027	Spacer	1	45#
42	MSY-60D-0028	Side Palel (Left)	1	45#
43	MSY-60D-0029	Inlet Bracket(Right)	1	A3 T-1.5
44	MSY-60D-0030	Shaft Of Feed Roller	1	45#
45	61904	Deep Groove Ball Bearing	2	
46	MSY-60D-0031	Feed Roller	1	45#
47	MSY-60D-0032	Inlet For Thinner Cables	1	A3
48	MSY-60D-0033	Lock Nut Of Rolling Shaft	1	45#
49	MSY-60D-0034	Inlet Bracket(Left)	1	A3 T-1.5
50	MSY-60D-0035	Plastic Handle Bolt M10X25	2	
51	60/32	Deep Groove Ball Bearing	1	
52	MSY-60D-0036	Bearing Cover	1	45#
53	MSY-60D-0037	Coupling	1	
54	MSY-60D-0038	Coupling Shaft	1	45#

Breakdown View

