INSTRUCTIONS AND PARTS MANUAL PIPE COUPON CUTTING MACHINE 100-0998

Please record your equipment identification information below for future reference. This information can be found on your machine nameplate.

Model Number

Serial Number

Date of Purchase _

Whenever you request replacement parts or information on this equipment, always supply the information you have recorded above.

LIT-100-0998-IPM-1123

Bug-O Systems is committed to empowering our customers by providing operator controlled mechanized solutions for their welding, cutting and custom applications.



SAFETY

PROTECT YOURSELF AND OTHERS FROM SERIOUS INJURY OR DEATH. KEEP CHILDREN AWAY. BE SURE THAT ALL INSTALLATION, OPERATION, MAINTENANCE AND REPAIR PROCEDURES ARE PERFORMED ONLY BY QUALIFIED INDIVIDUALS.

ELECTRIC SHOCK CAN KILL.

- 1) The equipment is not waterproof. Using the unit in a wet environment may result in serious injury. Do not touch equipment when wet or standing in a wet location.
- The unused connectors have power on them. Always keep the unused connectors covered with the supplied protective panels. Operation of the machine without the protective panels may result in injury.
- Never open the equipment without first unplugging the power cord or serious injury may result.
- 4) Verify the customer supplied power connections are made in accordance with all applicable local and national electrical safety codes. If none exist, use International Electric Code (IEC) 950.
- 5) Never remove or bypass the equipment power cord ground. Verify the equipment is grounded in accordance with all applicable local and national electrical safety codes. In none exist, use International Electric Code (IEC) 950.



READ INSTRUCTIONS.

Read the instruction manual before installing and using the equipment.



EQUIPMENT DAMAGE POSSIBLE.

- Do not plug in the power cord with out first verifying the equipment is OFF and the cord input voltage is the same as required by the machine or serious damage may result.
- Always verify both the pinion and wheels are fully engaged before applying power or equipment damage may occur.
- 3) Do not leave the equipment unattended.
- 4) Remove from the work site and store in a safe location when not in use.



FALLING EQUIPMENT can cause serious personal injury and equipment damage.

Faulty or careless user installation is possible. As a result, never stand or walk underneath equipment.



MOVING PARTS can cause serious injury.

- 1) Never try to stop the pinion from moving except by removing power or by using the STOP control.
- 2) Do not remove any protective panels, covers or guards and operate equipment.

HIGH FREQUENCY WARNINGS

SPECIAL PRECAUTIONS ARE REQUIRED WHEN USING PLASMA, TIG OR ANY WELDING PROCESS THAT USES HIGH FREQUENCY TO STRIKE AN ARC.



Read the precautions below before installing and using the equipment.

PRECAUTIONS:

- 1) Some plasma or welding cables are strong sources of high frequency interference. NEVER lay a plasma or welding cable across the controls of the machine.
- 2) Always physically separate the plasma or welding cable leads from the machine cables. For example, the plasma or welding cable leads should NEVER be bundled with a pendant cable or the machine power cord. Maximize the separation between any machine cables and the plasma or welding cables.
- 3) Strictly follow the grounding procedures specified for the plasma or welding unit. NOTE: Some plasma and welding units produce exceptionally large amounts of high frequency noise. They may require a grounding rod be driven into the earth within six feet (2 meters) of the plasma or welding unit to become compatible with an automatic cutting or welding process.
- 4) If the high frequency is produced using a spark gap, adjust the points so the gap is as small as possible. The larger the gap, the higher the voltage and the higher the interference.
- 5) Some plasma or welding units will inject high frequency interference into the AC power line. Use separate power line branches whenever possible to power the plasma or welding source and the machine. Do not plug them into the same outlet box.
- 6) High frequency noise may enter the machine through the plasma or welding supply remote contactor leads. Some plasma and welding sources can produce noise spikes of up to several thousand volts. These sources are not compatible with automated cutting and welding equipment. It is recommended that the remote contactor leads on these plasma or welding sources not be connected to the machine. An alternate solution is to purchase a separate remote contactor isolation box.

PIPE COUPON CUTTING MACHINE 100-0998

INSTRUCTIONS AND PARTS MANUAL

TABLE OF CONTENTS

<u>PAGE</u>

- 5..... Introduction
- 5..... Technical Data
- 5..... Dimensions
- 6..... Setup
- 6..... Machine Controls
- 7...... 100-0998 Pipe Coupon Cutting Machine / Exploded View / Parts List
- 8...... 100-1099 Pipe Coupon Cutter Control / Exploded View
- 9...... 100-1099 Pipe Coupon Cutter Control / Parts List
- 10...... 100-0393 Pipe Coupon Cutter Cabinet / Exploded View / Parts List
- 11...... 100-0401 Speed Chuck Assembly / Exploded View / Parts List
- 12...... 100-0404 Pipe Coupon Cutter Racking / Exploded View / Parts List
- 13 100-0998-WD, 100-0999-WD Pipe Coupon Cutting Machine / Wiring Diagram / Electrical Component Chart
- 14.....Accessories
- 15..... Troubleshooting
- 16..... EU Declaration of Conformity
- 17..... Warranty

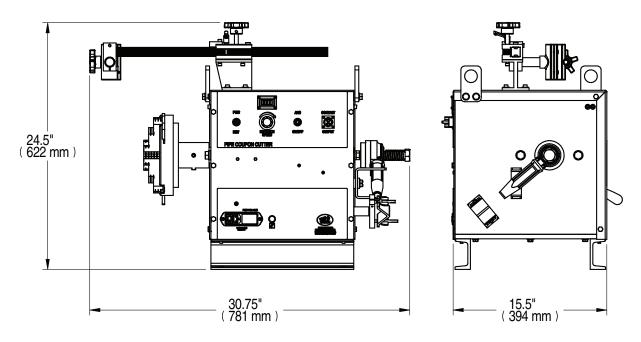
INTRODUCTION

The Pipe Coupon Cutting Machine is used for cutting pipe to a desired length or for beveling the edge of a pipe for weld prep. The machine features a self-centering speed chuck capable of gripping the pipe O.D. or I.D. A racking group supports your plasma or oxy-fuel torch which can be set up for square or beveled cuts up to 12" in length. The machine has a variable speed control and a speed display for repeatabliity. A rotary ground is included on the plasma version and a quick action manifold is supplied on the oxy-fuel version.

TECHNICAL DATA

Power Requirement:	90 Watts at rated voltage 120-240 VAC / 50-60 Hz / Single Phase
Speed Range:	0.24 RPM - 4.8 RPM
Chuck Capacity:	0-8" (3.1cm) OD., 3-11" (1.2-4.3cm) I.D.
Pipe Weight Capacity:	160 lbs (72.5 kg)
Maximum Overhang Length:	12" (305 mm)
Maximum Overhang Weight:	160 lbs (72.5 kg)
Net Weight:	180 lbs (82 kg)
Shipping Weight:	225 lbs (102 kg)
Shipping Dimensions:	36" x 24" x 34" (915 mm x 610 mm x 864 mm)

DIMENSIONS

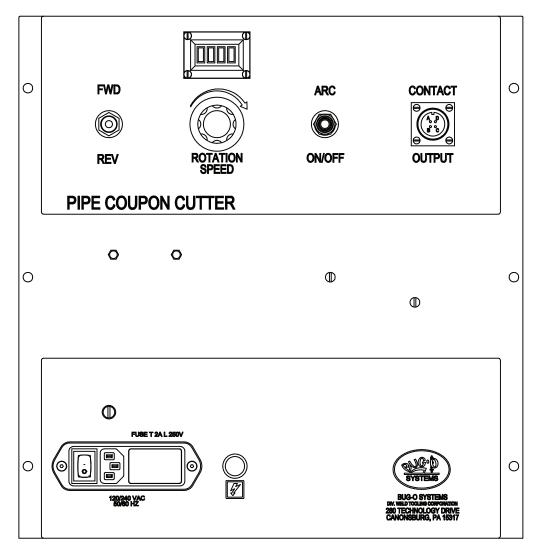


SETUP

The machine is designed to be fixed to a worktable. The machine needs to be bolted to the table through the mounting holes located in the legs of the machine. The torch arm should already be inserted into the rackholder located on the top of the machine. If it is not, insert the torch arm into the rackholder from the chuck end. Insert the cutting torch into the torch holder and position the torch so that is centered in line with the chuck axis.

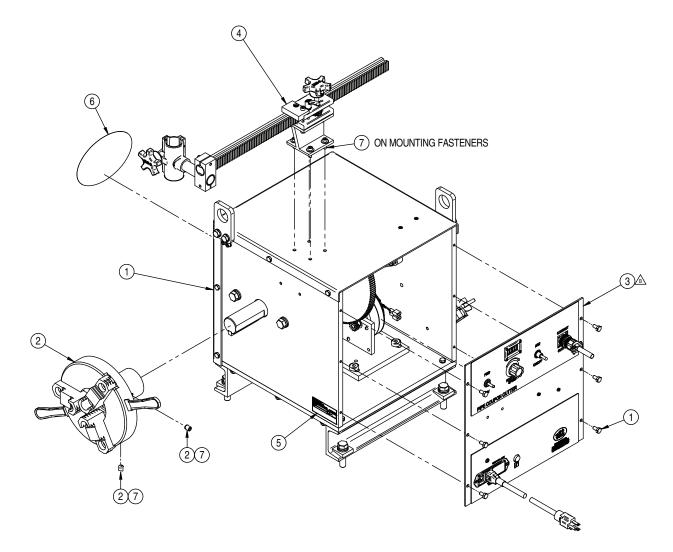
The machine can be used with oxy-fuel or plasma torches. If the machine is set-up for plasma cutting, it will be equipped with a rotary ground, contact relay, and holding clamp for a plasma torch. Plug the contact relay into the contact output located on the control panel. Wire the trigger leads for the plasma machine to the supplied connector and plug into the contact relay box. Oxy-fuel cutting can be done with a 2-hose torch.

The speed display allows increased repeatability in setting the output speed. It display 0-100.0 for 0 to Full speed.



MACHINE CONTROLS

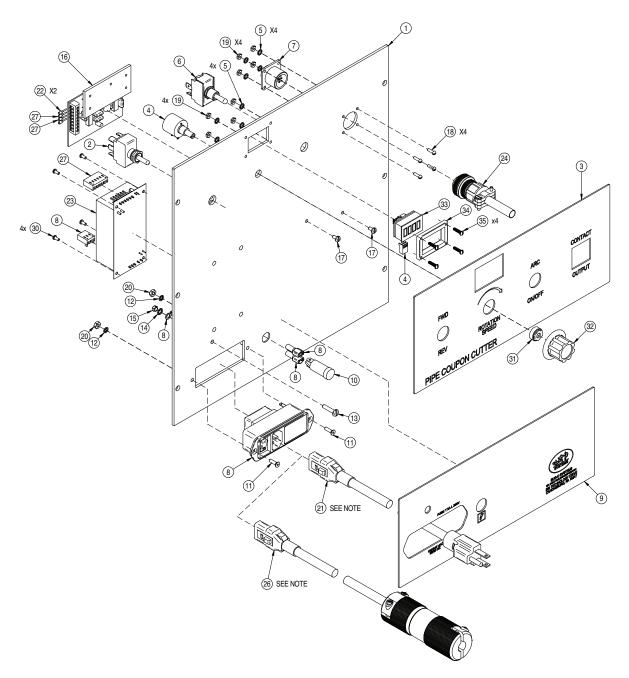
100-0998 PIPE COUPON CUTTING MACHINE / EXPLODED VIEW / PARTS LIST



PARTS LIST			
ITEM	PART#	DESCRIPTION	QTY
1	100-0393	PIPE COUPON CUTTER CABINET	1
2	100-0401	SPEED CHUCK ASSEMBLY	1
3	100-0999	PIPE COUPON CUTTER 3 CONTROL PANEL	1
4	100-0404	PIPE COUPON CUTTER RACKING	1
5	100-0427	CE NAME PLATE, BLK, 1.438 X 2.88, ALUM. W/ADHESIVE	1
6	LIT-BUGO-LGSTKR	BUG-O LARGE STICKER	1
7*	N/A	LOCTITE® 222MS™ THREADLOCKER, OR SIMILAR	AS REQUIRED
8*	LIT-100-0998-IPM	PIPE COUPON CUTTER 3 IPM PACKET	1

* ITEMS NOT SHOWN

100-1099 PIPE COUPON CUTTER CONTROL / EXPLODED VIEW / PARTS LIST



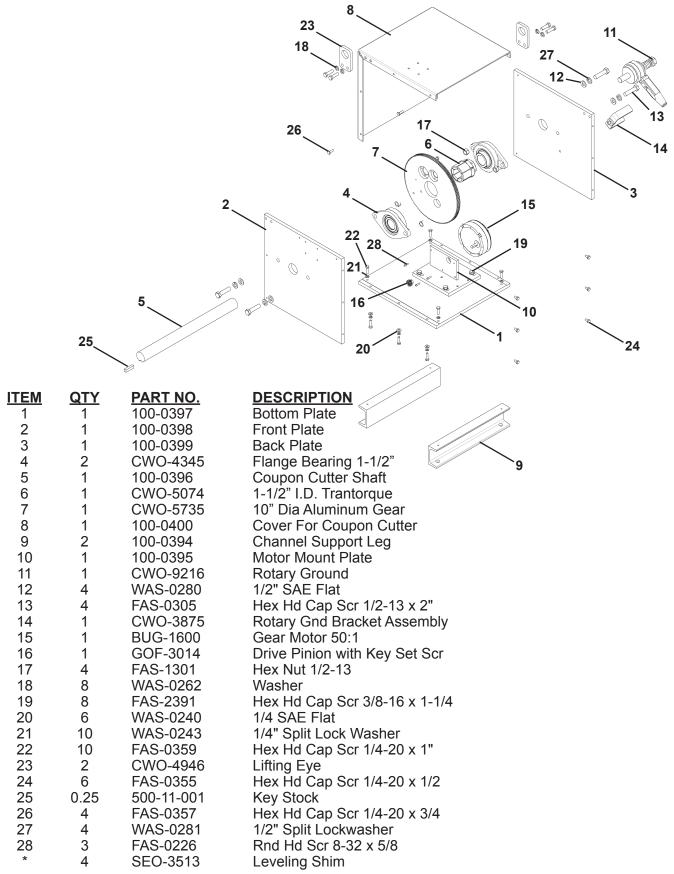
FOR 120VAC, USE BUG-9454. FOR 240VAC, USE BUG-9454-240. BOTH POWER CORDS ARE SUPPLIED WITH STANDARD MACHINE.

100-1099 PIPE COUPON CUTTER CONTROL / PARTS LIST

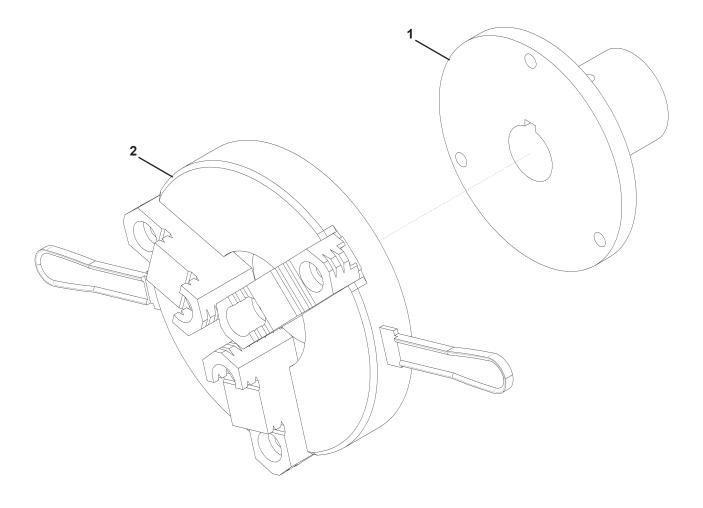
		PARTSLIST	
ITEM	PART#	DESCRIPTION	QTY
1	100-1001	FRONT PANEL ASSEMBLY	1
2	BUG-2255	TOGGLE SWITCH	1
3	100-1009	TOP LEGEND PLATE	1
4	100-0582	SPEED POT AND DISPLAY HARNESS	1
5	WAS-0201	#4 INTERNAL STAR LOCKWASHER	8
6	ARM-2279	TOGGLE SWITCH	1
7	BUG-1034	PANEL CONNECTOR, 4-T, M	1
8	100-0732	FILTERED POWER ENTRY MODULE HARNESS	1
9	100-0737	BOTTOM LEGEND PLATE	1
10	LED-2111	LED PANEL MNT. 125/250V CLEAR	1
11	FAS-0915	FLT HD SOC SCR 6-32 X 1/2	2
12	WAS-0211	#6 INTERNAL STAR LOCKWASHER	2
13	FAS-0127	#8-32 X 3/4 PAN HEAD	1
14	WAS-0221	#8 INTERNAL STAR LOCKWASHER	1
15	FAS-1320	HEX NUT 8-32	1
16	BUG-1740-1	MODIFIED SPEED CARD	1
17	FAS-0112	PAN HD SLT 6-32 X 1/4 BLK	2
18	FAS-0204	RND HD SLT SCR 4-40 X 3/8 ZINC	4
19	FAS-1305	HEX NUT 4-40	8
20	FAS-1310	HEX NUT 6-32	2
21	BUG-9454	V-LOCK 110VAC CORD 2M	1
22	100-0576	WIRE FERRULE, 20 AWG	2
23	100-0645-001	SWITCHING POWER SUPPLY, +12VDC, 6.7A	1
24	BUG-1035	CABLE CONNECTOR, 4-T, F	1
25*	BUG-1415-A	SPEED NUT	1
26	BUG-9454-240	V-LOCK POWER CORD, 240V	1
27	GOF-4041	POWER TO BOARD HARNESS	1
28*	GOF-3036	QD FEMALE FULLY INSULATED	2
29*	BUG-9692	CABLE TIE 142MM	10
30	FAS-0202	RND HD SCR 4-40X1/4	4
31	100-0605	SHAFT LOCK	1
32	BUG-9687	KNOB, FLUTED PHENOLIC W/SKIRT	1
33	BUG-1764-100P0	METER DISPLAY BOARD ASSY., 100.0 IN/MIN MAX	1
34	MDS-1011	DISPLAY BEZEL	1
35	FAS-0205-B	#4-40 X 1/2 ROUND HEAD, BLACK	4

(*) NOT SHOWN

100-0393 PIPE COUPON CUTTER CABINET / EXPLODED VIEW / PARTS LIST

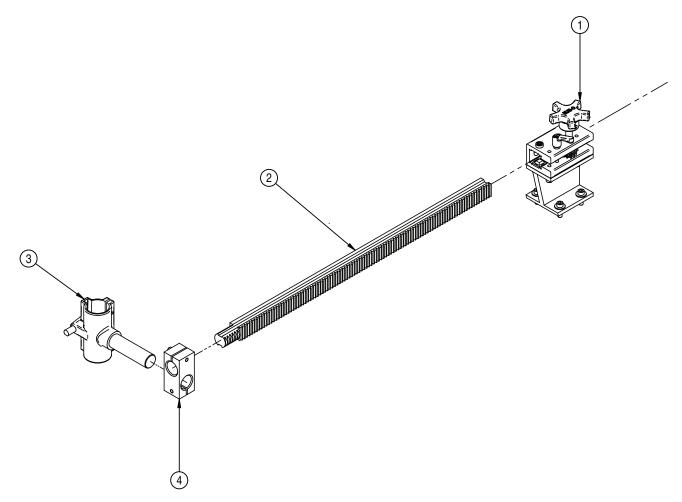


100-0401 SPEED CHUCK ASSEMBLY / EXPLODED VIEW / PARTS LIST



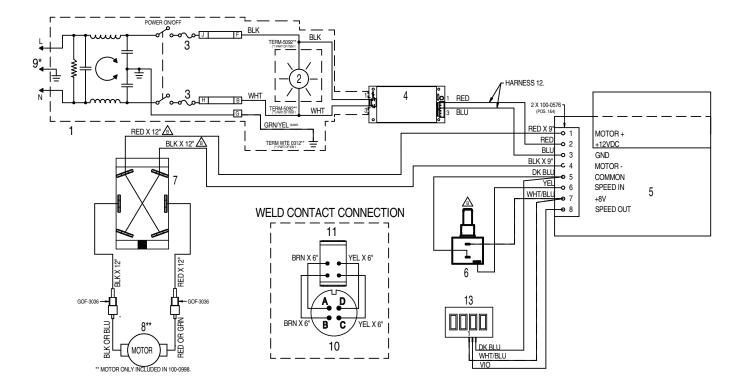
ITEM	<u>QTY</u>	PART NO.	DESCRIPTION
1	1	100-0403	Chuck Plate Assembly
2	1	100-0402	Speed Chuck, 0-12

100-0404 PIPE COUPON CUTTER RACKING / EXPLODED VIEW / PARTS LIST



ITEM	PART#	DESCRIPTION	QTY
1	HOB-2255	RACKHOLDER ASSEMBLY	1
2	BUG-2597-22	MACHINED RACK 22"	1
3	BUG-5188	TORCH HOLDER ASSSEMBLY	1
4	BUG-5462	ROD CLAMP	1

100-0998-WD, 100-0999-WD PIPE COUPON CUTTING MACHINE / WIRING DIAGRAM / ELECTRICAL COMPONENT CHART



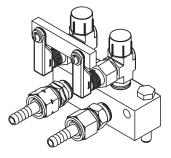
ELECTRICAL COMPONENT CHART		
ITEM	PART#	DESCRIPTION
1	100-0732	FILTERED POWER ENTRY MODULE HARNESS
<u></u> ▲ 2	LED-2111	LED PANEL MNT. 125/250V CLEAR
3	100-0693	FUSE,2.0A/250V,SLO-BLO 5X20MM
4	100-0645-001	SWITCHING POWER SUPPLY BOARD, +12VDC, 6.7A
5	BUG-1740-1	MODIFIED SPEED CARD
6	100-0582	SPEED POT AND DISPLAY HARNESS
7	BUG-2255	TOGGLE SWITCH
8**	BUG-1600	GEAR MOTOR (50:1)
9*	BUG-9454	V-LOCK 110VAC CORD 2M
10	BUG-1034	PANEL CONNECTOR 4-T, M
11	ARM-2279	TOGGLE SWITCH
12	GOF-4041	POWER TO BOARD HARNESS
13	BUG-1764-100P0	METER DISPLAY BOARD ASSY., 100.0 IN/MIN MAX

ACCESSORIES

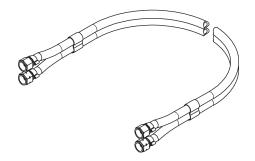
2 hose oxy-fuel setup:

GOF-4025

2-Hose Manifold Assembly

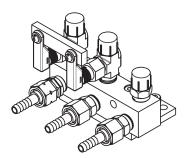


CIR-1010-4 2-Hose Assembly, 42"

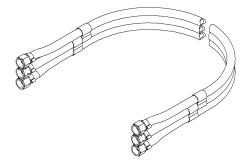


3 hose oxyfuel setup:

GOF-4025-3 3-Hose Manifold Assembly



MUG-1119-36 3-Hose Assembly, 36"



TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	REMEDY
Does not run, indicator light off.	No power to machine.	Check power line supply voltage. Plug in line cord firmly.
Does not run, indicator light off.	Wiring shorts. Circuit breaker tripped. Shorted motor. Faulty speed control board. Burned out transformer.	Disconnect machine and examine internally; rewire at fault. If none found, throw direction switch to "OFF", reset breaker and plug in: If breaker does not trip, replace drive unit. If breaker trips again, replace control board. (OR) Replace transformer.
Does not run, indicator light on.	Bad connection. Faulty speed control board.	Check wiring connections, 12 VAC should appear across secondary of transformer. Tighten terminal screws on speed control board. If DC Volts = 0 across leads to motor; replace control board.
Unit runs, but no control over speed.	Faulty speed control board.	Replace control board. (Check connection first).

BUG-O SYSTEMS INTERNATIONAL EU DECLARATION OF CONFORMITY

documentation holder:	BUG-O SYSTEMS INTERNATIONAL a Division of Weld Tooling Corporation
Address:	280 Technology Drive Canonsburg, PA 15317-9564
Hereby declare that machinery:	PIPE COUPON CUTTING MACHINE, including options and accessories,
Sales codes:	100-0388-120, 100-0388-240, SP-220112-MEI-A, 100-0998 (sales codes may also contain prefixes and suffixes)

Is in conformity with Council Directives and amendments:

• 2006/42/EC – Machinery Directive.

Manual factories and the short of

- 2014/35/EU Electromagnetic Compatibility (EMC) Directive
- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

Standards:

- EN 12100:2010 Safety of Machinery General principles for design Risk assessment and risk reduction.
- EN 60204-1:2016 Safety of machinery Electrical equipment of machines Part 1: General Requirements.
- EN 61000-6-2 Electromagnetic compatibility (EMC) Part 6-2 Generic standards Immunity for industrial environments.
- EN 61000-6-4 Electromagnetic compatibility (EMC) Part 6-4 Generic standards Emissions for industrial environments.
- EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to restriction of hazardous substances.

-The machinery, product, assembly or sub-assembly covered by this Declaration of Conformity must not be put into service until the machinery into which it is to be incorporated (if applicable) is declared in conformity with provisions of the applicable directives(s).

Authorized representative for the compilation of the relevant technical documentation and issuer of EC Declaration of Conformity:

Date of Issue: January 19, 2022 Place of issue: 280 Technology Drive, Canonsburg, PA 15317, USA Typed Name of Authorized Person: MATTHEW W. CABLE - PRESIDENT

Signature of Authorized Person:

Matthe a Cable

WARRANTY

Limited 3-Year Warranty

Model	
Serial No	
Date Purchased:	
Where Purchased:	

For a period ending one (1) year from the date of invoice, Manufacturer warrants that any new machine or part is free from defects in materials and workmanship and Manufacturer agrees to repair or replace at its option, any defective part or machine. HOWEVER, if the invoiced customer registers the Product Warranty by returning the Warranty Registration Card supplied with the product within 90 days of the invoice date, or by registering on-line at www.bugo.com, Manufacturer will extend the warranty period an additional two (2) years which will provide three (3) total years from the date of original invoice to customer. This warranty does not apply to machines which, after Manufacture's inspection are determined by Manufacturer to have been damaged due to neglect, abuse, overloading, accident or improper usage. All shipping and handling charges will be paid by the customer.

The foregoing express warranty is exclusive and Manufacturer makes no representation or warranty (either express or implied) other than as set forth expressly in the preceding sentence. Specifically, Manufacturer makes no express or implied warranty of merchantability or fitness for any particular purpose with respect to any goods. Manufacturer shall not be subject to any other obligations or liabilities whatsoever with respect to machines or parts furnished by Manufacturer.

Manufacturer shall not in any event be liable to Distributor or any customer for any loss of profits, incidental or consequential damages or special damages of any kind. Distributor's or customer's sole and exclusive remedy against Manufacturer for any breach of warranty, negligence, strict liability or any other claim relating to goods delivered pursuant hereto shall be for repair or replacement (at Manufacturer's option) of the machines or parts affected by such breach.

Distributor's Warranty:

In no event shall Manufacturer be liable to Distributor or to any customer thereof for any warranties, representations or promises, express or implied, extended by Distributor without the advance written consent of Manufacturer, including but not limited to any and all warranties of merchantability or fitness for a particular purpose and all warranties, representations or promises which exceed or are different from the express limited warranty set forth above. Distributor agrees to indemnify and hold Manufacturer harmless from any claim by a customer based upon any express or implied warranty by Distributor which exceeds or differs from Manufacturer's express limited warranty set forth above.

HOW TO OBTAIN SERVICE:

If you think this machine is not operating properly, re-read the instruction manual carefully, then call your Authorized BUG-O dealer/distributor. If they cannot give you the necessary service, write or phone us to tell us exactly what difficulty you have experienced. BE SURE to mention the MODEL and SERIAL numbers.