



UNIVERSAL BUG-O-MATIC



Flexible, Compact Drive and Oscillator
Combination for Welding in All Positions



Bug-O Systems

Operator Controlled Mechanization

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

412-331-1776 www.bugo.com

400 AMP U.S.A.



UNIVERSAL BUG-O-MATIC



The **Universal Bug-O-Matic** (BUG-5700, BUG-5702 and BUG-5704) is a compact unit which combines a powerful drive and precision oscillator all in one housing. The unit is lightweight and can easily be handled by one operator. The machine works in all positions and can be used for vertical and overhead welds. By simply changing the carriage, the unit can work on rigid rail, semi-flex rail, hi-flex rail or complete ring rails. The opening mechanism of the carriage allows the unit to be released or installed anywhere on the rail.

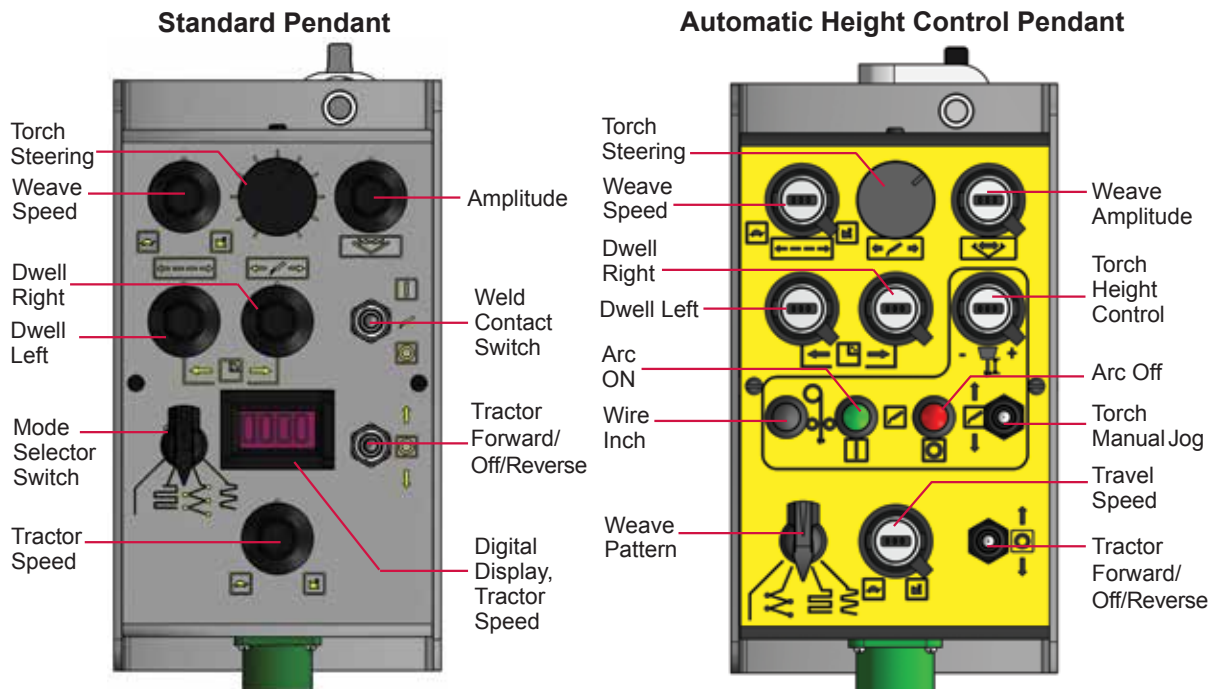
While welding, adjustments can be made to the travel speed, amplitude and oscillation speed as well as dwell left and dwell right. While the machine is welding, the torch can be guided by a separate steering knob. Closed loop feedback and dynamic braking allow the Bug-O-Matic to make precise starts, stops and travel at a constant speed.

The **Universal Bug-O-Matic with Auto Height Control** (BUG-6550, BUG-6552 and BUG-6554) has the same functions as the Universal Bug-O-Matic, but in addition features amperage sensing automatic torch height adjustment which maintains constant torch to work distance. The Height Control features a motorized slide which provides a total of 2" (51 mm) of vertical travel.

Pendant Control

The Universal Bug-O-Matic features a remote control pendant which allows the operator to run the machine from up to 10 feet (3 m) away. The pendant can be clamped to the machine handle for easy storage or transport.

NEW FEATURE: All Universal Bug-O-Matics now include a Control Orientation Reversing switch. The pendant controls can be set to match the machine orientation. Example: 2 machines, running on one ring, welding a joint on a horizontal pipe.



Universal Bugomatic Options

1 RAILS



FMD-1050
Hi-Flex Rail 57.72"
(1.47 mm) - Flex to
minimum radius 30"
(760 mm)



ARR-1080
Aluminum
Rigid Rail 8' (2.37 m)

ARR-1085
Aluminum
Rigid Rail 4' (1.18 m)

AFR-3000
Semi-Flex Rail
8' (2.37m) - Flex
to minimum
radius 15' (5 m)



BRR-1180
Bent Rigid
Rail



BRR-3250-XX
Rigid Ring Rail

Minimum
Workpiece
Diameter
9" (230 mm)

2 ATTACHMENTS



FMD-1036
Vacuum Cup

FMD-2010
R.E. On/Off
Magnet

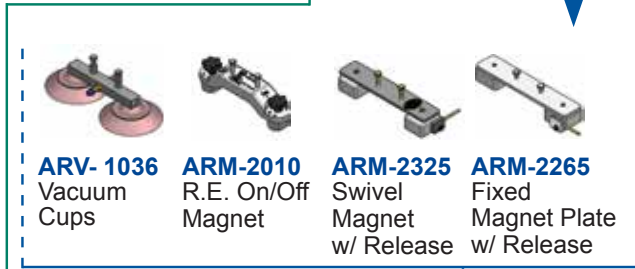
FMD-2325
Swivel
Magnet
w/ Release



ARM-2380
Support
Bar w/
Screw Feet

ARM-2480
Support Bar
w/ Screw-
Magnet Feet

ARM-2580
Support Bar
w/ Screw and
Magsquare Feet

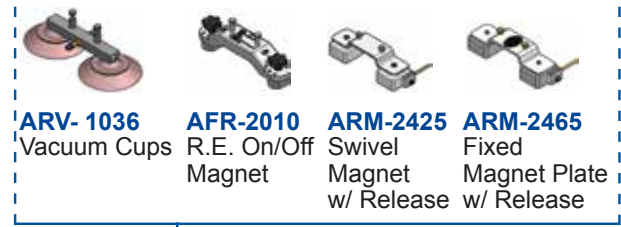


ARV-1036
Vacuum
Cups

ARM-2010
R.E. On/Off
Magnet

ARM-2325
Swivel
Magnet
w/ Release

ARM-2265
Fixed
Magnet Plate
w/ Release



ARV-1036
Vacuum Cups

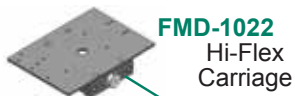
AFR-2010
R.E. On/Off
Magnet

ARM-2425
Swivel
Magnet
w/ Release

ARM-2465
Fixed
Magnet Plate
w/ Release

For more information on vacuum cups, magnets and rails, please see the corresponding rail page in the "Rails and Attachments" brochure in order to match the correct attachments with your rails.

3 CARRIAGES



FMD-1022
Hi-Flex
Carriage



MPD-1065
12" (305 mm)
Releasable
Carriage

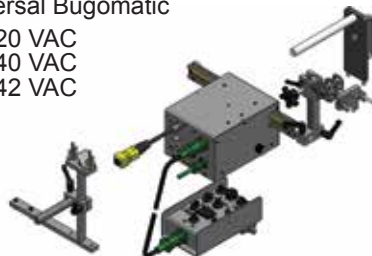


BUG-5960
Tube Carriage

4 UNIVERSAL BUGOMATIC

Standard Universal Bugomatic

BUG-5700 120 VAC
BUG-5702 240 VAC
BUG-5704 42 VAC



Universal Bugomatic with
Automatic Height Control

BUG-6550 120 VAC
BUG-6552 240 VAC
BUG-6554 42 VAC





UNIVERSAL BUG-O-MATIC

The **Universal Bug-O-Matic** is operator friendly and produces precise, accurate welds. The remote pendant allows the operator to produce repeatable welds with pre-set parameters which increases production, improves quality and workers environment.

Technical Data:

Universal Bug-O-Matic

| | |
|----------------------------|---|
| Power Requirements: | BUG-5700 120 VAC/50-60/1 BUG-5702 240 VAC/50-60/1 BUG-5704 42 VAC/50-60/1 |
| Linear Speed: | 3-70 ipm (75-1750 mm/m) |
| Weave Speed: | 4-100 ipm (100-2500 mm/m) |
| Dwell Time: | 0-3 seconds, left and right |
| Weave Width: | 0.1-2" (2.5-50 mm) |
| Steering: | 2" (50 mm) left and right of center 4" (100 mm) total |
| Load Capacity: | 30 lbs. (14 kg) |
| Net Weight: | 28 lbs. (13 kg) |
| Shipping Weight: | 33 lbs. (15 kg) |

Universal Bug-O-Matic With Auto Height Control

| | |
|----------------------------|---|
| Power Requirements: | BUG-6550 120 VAC/50-60/1 BUG-6552 240 VAC/50-60/1 BUG-6554 42 VAC/50-60/1 |
| Linear Speed: | 3-70 ipm (75-1750 mm/m) |
| Weave Speed: | 4-100 ipm (100-2500 mm/m) |
| Dwell Time: | 0-3 seconds, left and right |
| Weave Width: | 0.1-2" (2.5-50 mm) |
| Steering: | 2" (50 mm) left and right of center 4" (100 mm) total |
| Load Capacity: | 30 lbs. (14 kg) |
| Net Weight: | 36 lbs. (16 kg) |
| Shipping Weight: | 41 lbs. (19 kg) |

The Universal Bug-O-Matic with AHC requires a Constant Voltage (CV) power supply for operation. Consult factory for your particular application.

Dimensions:

