

## **Five Weave Patterns**

to choose from with just a push of a button.

- 1. NO WEAVE- Straight line
- 2. RUN- The tractor moves continuously during the weave and dwell
- **W** 3. **WEAVE-** The tractor and weave both stop during dwells
- **III.** 4. STEP- The tractor is stationary during the weave and moves only during the dwell
- 5. TRACTOR STOP ON DWELL- When the weave moves away from tractor, the tractor is stationary When weave moves towards tractor, the tractor also moves

**Travel** 

Direction

Weave

**Pattern** 

Selection



### **Features:**

- High torque, low inertia motor for precise stops and starts
- Lightweight and easy to carry, weighing just 18 lbs. (8.2 kg)
- Aluminum Rigid Rail with rack and pinion drive insures precise path and consistent speeds
- Precision drive motor prevents unit from moving when power is off
- High geared pendulum motor prevents torch movement when power is off
- High speed motor for pendulum weaving
- · Programmable puddle control and crater fill
- Independent control of pendulum weaving right and left dwell times
- Drive unit motor overload protection
- Closed loop speed and position control for adjustable and repeatable operation
- Closed loop speed control to prevent drift from center weld position
- Storage of welding parameters after power is turned off
- Carriage Travel and arc start in one switch
- Wireless Remote Control
- Independent control of puddle build and crater fill
- Weld Contactor ON/OFF Switch



## **Rail Options:**

The **K-BUG 5000** package is designed to run on Bug-O Systems Aluminum Rigid Rail (ARR) and Semi-Flex Rail (AFR) for uses in straight line applications. Carriage wheels run in recessed V-grooves that are protected from dirt and spatter. Both rails can be mounted with magnets, vacuum cups or bolted to a permanent fixture.



Vacuum Pump Kit (Necessary for use w/vacuum cups)

or





ARV-2020 120 Volt/50-60 Hz

100-1297-240 240 Volt/50-60 Hz

100-1297-120 120 Volt/50-60 Hz

ARV-1085 Vacuum Kit for ARR-1085 4' (1.17 m) Rigid Rail

ARV-1080 8' (2.37 m) Rigid Rail

ARV-1080 Vacuum Kit for ARR-3000 8' (2.37 m) Semi-Flex Rail

### **Accessories:**

#### All-In-One (AIO) Mechanized Guns for KBUGs

Choose from the options below to fit your application.

### 1 GUN



#### Each gun includes:

- 5X 100-0490 / 65-3103 EHD Retaining Head/Diffuser
- 10X 100-0489 / 65-1135 EHD Contact Tip 0.035"
- 10X 100-0488 / 65-1145 EHD Contact Tip 0.045"
- 2X 100-0635 / 65-2550 Nozzle, Copper 1/2" Bore, 1/8" Tip Recess
- 100-0492 / 64-4515 0.045-1/16", 15 Ft., Coil Liner

100-1011-1-4.5-XX

500 amp Lightning Auto Gun, 180 degree gooseneck with integrated cable management system

**100-1011-1-4.5-T** Includes 100-0484 Tweco #4 Power Pin

**100-1011-1-4.5-M** Includes 100-0485 Miller Power Pin

100-1011-1-4.5-L Includes 100-0486 Lincoln Power Pin Old Style

#### **BUG-O TRIGGER CABLE**

Connects the contact cable in the torch to the contact trigger amphenol on the bug.

#### 100-1012-3-0.15 KBUG-2T-F

## 3 AIO TO BUG POWER ADAPTER (Bug End)



## WIRE FEEDER TRIGGER CABLES (Feeder End)

Required to choose 1 Connects the contact cable in the torch to the wire feeder.

100-1020-1-0.15 (two male spade connectors) 100-1020-2-0.15 4-P Miller



## STANDARD POWER CORD (From Rear of Gun Cable to Power Input)



Contact American Torch Tip for other consumables: 800-342-8477

#### **Optional Torch Holders Available:**



KBUG-3120-1 1" Torch Holder



**KBUG-4190** 1" KBUG Gun Clamp 3/4"-2"



100-0953 Gun Clamp Assembly 3/4"-2"



### **Technical Data:**

**Power Requirements:** 

**KBUG-5000** 120VAC/50-60Hz/1Ph **KBUG-5002** 240VAC/50-60Hz/1Ph

**Net Weight:** 18 lbs. (8.2 kg.)

**Shipping Weight:** 24 lbs. (10.9 kg.)

**Welding Position:** All position

**Torch Holder:** Fits barrels up to 0.75 in

(19 mm) dia.

**Vertical Lifting Power:** 50 lbs. (22.7 kg.)

**Tractor Dimensions:** 

(WxLxH) inch: mm: 13  $\frac{5}{8}$  to 16 x 9 x 10  $\frac{1}{4}$ 

(346 to 406 x 228 x 260)

Torch Support Adj.:

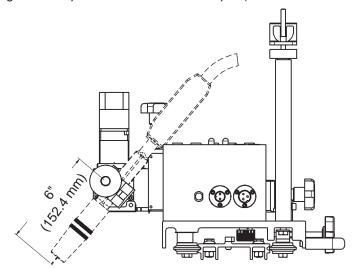
2.05" (52 mm) ± 5% Y-Stroke: Z-Stroke: 1.69" (43 mm) ± 5% Weaver Speed: 0 to 188 in/min (478 cm/min)

Weave Width\*: 0 to 1.05" (26.7 mm)

Cycles\*: 80 cycles per min. at 1.05" (26.67 mm) stroke

115 cycles per min. at .525" (13.34 mm) stroke 200 cycles per min. at .25" (6.35 mm) stroke

Digital LED speed indicator: 1 to 34.7 ipm (25 to 881 mm/min)



\* When torch Pivot-to-Tip length is 6" (152.4 mm) as shown above. Increasing the Pivot-to-Tip length will increase the maximum speed and the weave width.

## **Dimensions:**

