



## Bug-O Systems

Operator Controlled Mechanization

412-331-1776 [www.bugo.com](http://www.bugo.com)

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

# K-BUG 6000

**DIGITAL, COMPACT, ALL POSITION  
LINEAR WEAVE WELDER**

**A track guided travel carriage with  
oscillation for welding in all positions.**

**Increases welding production,  
improves weld quality  
and reduces operator fatigue.**

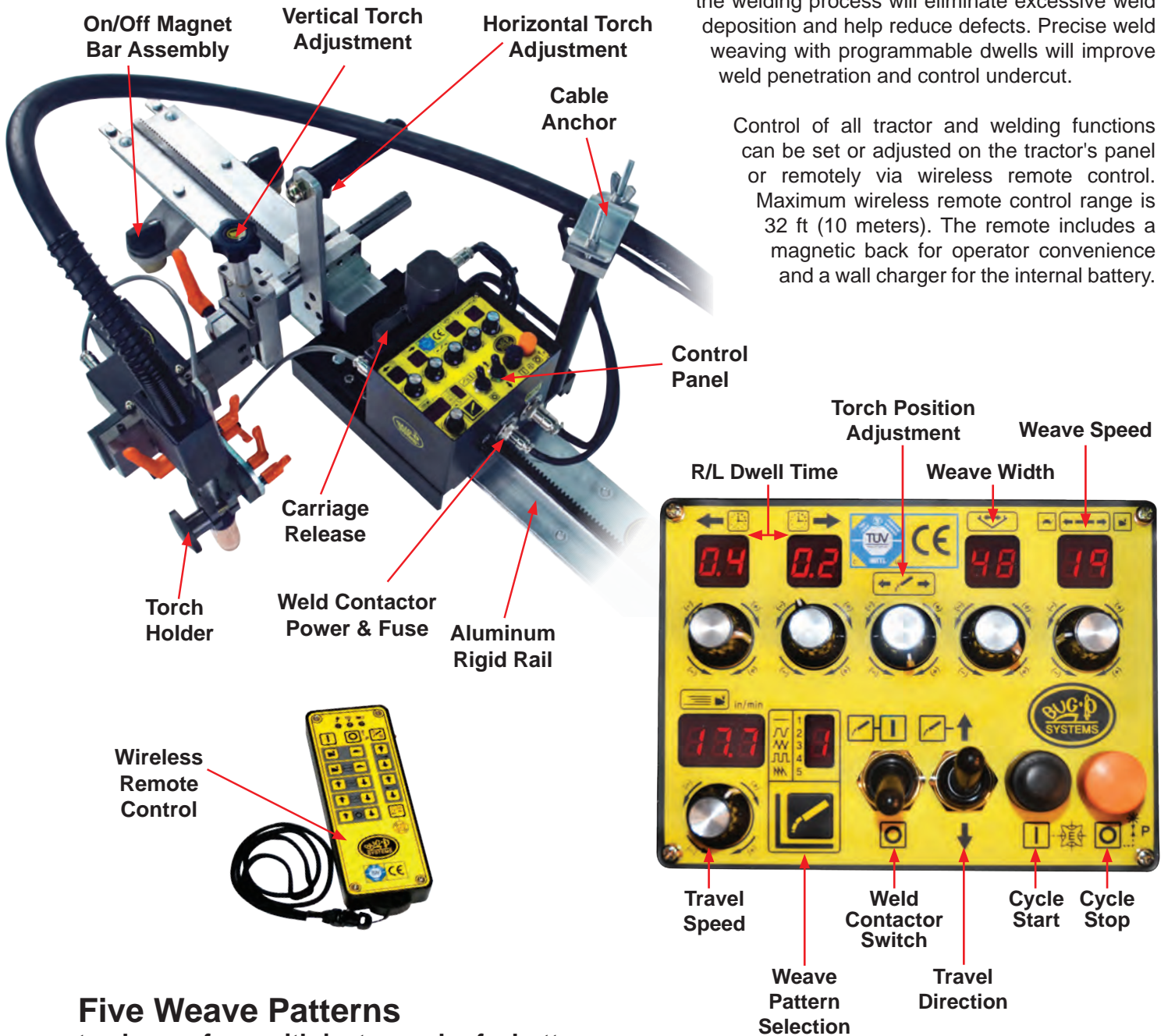


# K-BUG 6000 DIGITAL, COMPACT, ALL POSITION LINEAR WEAVE WELDER

The K-BUG 6000 is a compact portable welding unit with an integrated linear weaver for all position welding. It runs on BUG-O Systems Aluminum Rigid Rail which attaches to the work surface via magnets or vacuum system in any position. It will perform continuous welding at a constant travel speed producing high quality, uniform welds in a fraction of the time required for manual welding.

Regulated travel speed without starting and stopping the welding process will eliminate excessive weld deposition and help reduce defects. Precise weld weaving with programmable dwells will improve weld penetration and control undercut.

Control of all tractor and welding functions can be set or adjusted on the tractor's panel or remotely via wireless remote control. Maximum wireless remote control range is 32 ft (10 meters). The remote includes a magnetic back for operator convenience and a wall charger for the internal battery.



## Five Weave Patterns to choose from with just a push of a button

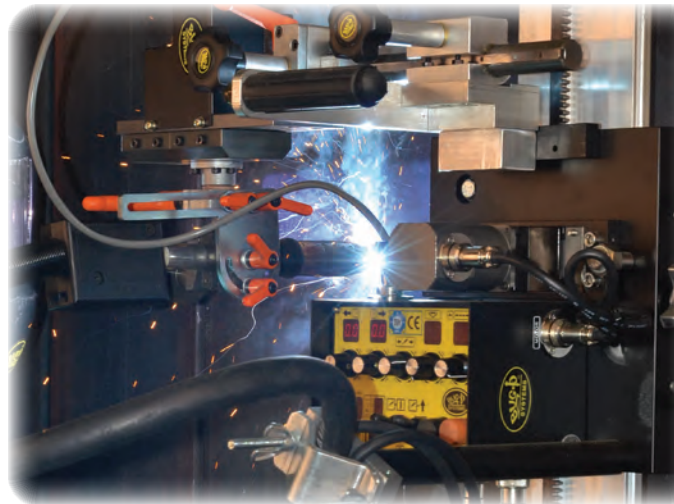
- |  |   |
|--|---|
|  | 1. <b>NO WEAWE</b> - Straight line  |
|  | 2. <b>RUN</b> - The tractor moves continuously during the weave and dwell   |
|  | 3. <b>WEAVE</b> - The tractor and weave both stop during dwells   |
|  | 4. <b>STEP</b> - The tractor is stationary during the weave and moves only during the dwell   |
|  | 5. <b>TRACTOR STOP ON DWELL</b> - When the weave moves away from tractor, the tractor is stationary<br>When weave moves towards tractor, the tractor also moves |



# K-BUG 6000 DIGITAL, COMPACT, ALL POSITION LINEAR WEAVE WELDER

## Features:

- High torque, low inertia motor for precise stops and starts
- Lightweight and easy to carry, weighing just 21.5 lbs. (9.75 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
- Weaver motor design prevents torch movement when power is off
- Closed loop speed and position control
- High speed motor for linear weaving
- Programmable puddle build and crater fill
- Independent control of linear weaving right and left dwell times
- Closed loop speed control for adjustable and repeatable control
- Closed loop speed control to prevent drift from center weld position
- Storage of welding parameters after power is turned off
- Drive unit motor overload protection
- Carriage Travel and arc start in one switch
- Wireless Remote Control
- Cable Anchor
- Weld Contactor ON/OFF Switch



## Rail Options:

The **K-BUG 6000** package is designed to run on Bug-O Systems Aluminum Rigid Rail (ARR) and Semi-Flex Rail (AFR) for use 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.

### Heavy Duty Rigid Rail ARR-1080 & ARR-1085

Fixed Magnet  
ARM-2010  
ARM-2010-HH\*



Spacer  
ARM-2015  
Use with  
ARM-2010



Swivel Magnet  
w/ Release  
ARM-2325



### Semi-Flex Rail AFR-3000

Fixed Magnet  
AFR-2010  
\*AFR-2010-HH



Swivel Magnet  
ARM-2425



\*All **XXX-2010-HH** are "High Heat" models and are rated at 180°C (356°F) for high temperature applications.

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

ARV-2020 120 Volt/50-60 Hz or 100-1297-120 120 Volt/50-60 Hz  
ARV-2030 240 Volt/50-60 Hz or 100-1297-240 240 Volt/50-60 Hz



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



### ARV-1080 Vacuum Kit for ARR-1080 8' (2.37 m) Rigid Rail



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



# K-BUG 6000 DIGITAL, COMPACT, ALL POSITION LINEAR WEAVE WELDER

## 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
- 1X 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

### Optional Torch Holders Available:



**KBUG-2080-1**  
1" Torch Holder



**KBUG-4089**  
Torch Holder (BUG-O Style)

#### 2 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)



100-1013-3-0.15 AC Power Cable, KBUG, 0.15M

#### 4 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)



100-1020-3-0.15 5-P Lincoln



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

BUG-9454 120VAC



BUG-9454-240 240VAC



BUG-9454-42 42VAC



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



# K-BUG 6000 DIGITAL, COMPACT, ALL POSITION LINEAR WEAVE WELDER

## Technical Data:

**Power Requirements:**  
**KBUG-6000** 120VAC/50-60Hz/1Ph  
**KBUG-6002** 240VAC/50-60Hz/1Ph

**Net Weight:** 21.5 lbs. (9.75 kg.)

**Shipping Weight:** 25.5 lbs. (11.57 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.)

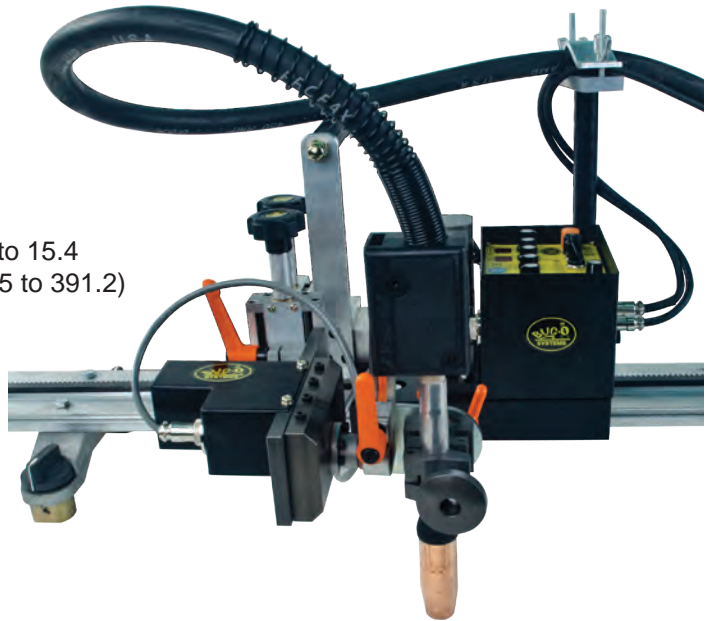
**Tractor Dimensions:**  
 (WxLxH) *inch:* 13.88 to 16.44 x 10.27 x 13.8 to 15.4  
*mm:* (352.6 to 417.6 x 260.9 x 350.5 to 391.2)

**Torch Support Adj.:**  
**Y-Stroke:** 0-4.7" (0-120 mm) ± 3%  
**Z-Stroke:** 0-2.75" (0-70 mm) ± 3%

**Weaver Speed:** 0 to 100 in/min (0-254 cm/min)

**Weave Width:** 0 to 2" (0-51 mm)

**Digital LED Travel Speed Indicator:** 1 to 34.7 ipm (2.5 to 88 cm/min)



## Dimensions:

