

K-BUG 5000

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

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

Increases welding production

Improves weld quality

Reduces operator fatigue



Bug-O Systems

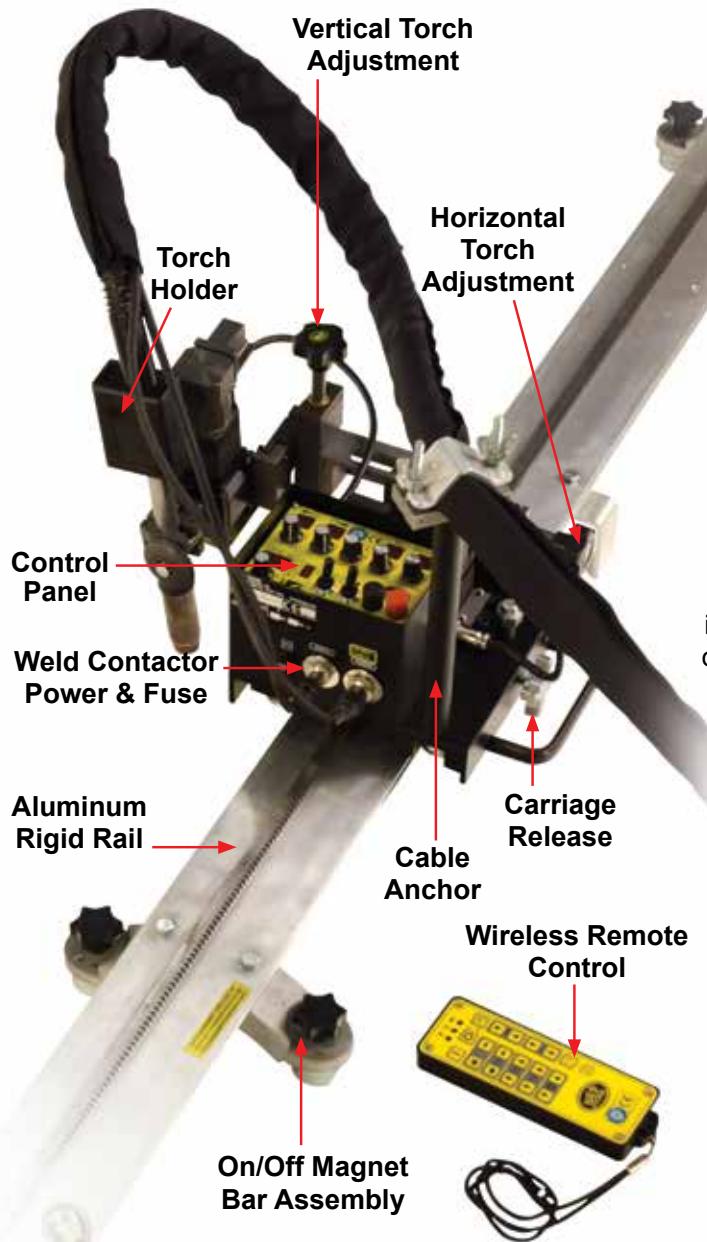
Operator Controlled Mechanization

412-331-1776 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 5000 DIGITAL COMPACT ALL POSITION WEAVE WELDER



The **K-BUG 5000** is a compact portable welding unit with an integrated pendulum weaver for all position welding. It mounts to BUG-O Systems Aluminum Rigid Rail and attaches to 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). Remote includes a magnetic back for operator convenience.



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
3. **WEAVE**- The tractor and weave both stop during dwells
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



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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

Torch Options:



SBG-450-L-(A)-(B) 450 Amp Gun/Lincoln 3/4" (19 mm)
For LN7, LN8, LN9, LN25, LN742, Synergic 7 & LN10 w/ adapter

SBG-450-T-(A)-(B) 450 Amp Gun/Lincoln Std.
For all other Lincoln products

SBG-450-M-(A)-(B) 450 Amp Gun/Miller

SBG-450-E-(A)-(B) 450 Amp Gun/Euro

(A)- Contact Tip Size 0.035" to 1/16" (0.89 to 1.59 mm)

(B)- Cable Length 15 ft (4.57 m) / 25 ft (7.62 m)

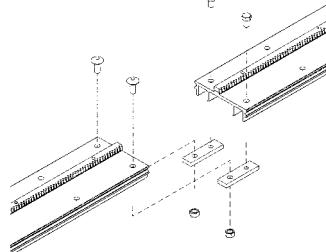
KBUG-6083

Plasma Torch Holder Assembly

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.

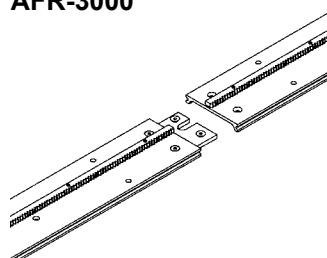
Heavy Duty Rigid Rail ARR-1080 & ARR-1085



Fixed Magnet ARM-2010

Swivel Magnet ARM-2325

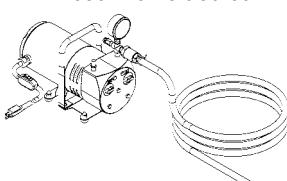
Semi-Flex Rail AFR-3000



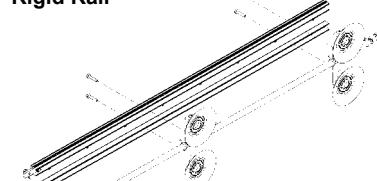
Fixed Magnet AFR-2010

Swivel Magnet ARM-2425

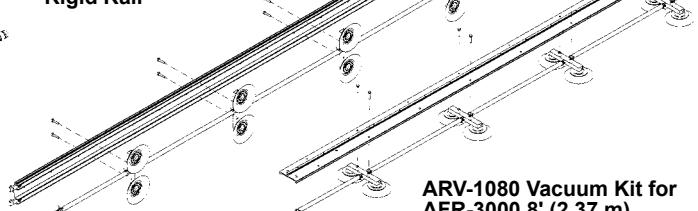
Vacuum Pump Kit
ARV-2020 120 Volt/50-60 Hz
ARV-2030 240 Volt/50-60 Hz



**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**



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Technical Data:

Power Requirements:

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

Weaver Speed:

0 to 188 in/min (478 cm/min)

Weave Width*:

0 to 1.05" (26.7 mm)

Net Weight: 18 lbs. (8.2 kg.)

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

Shipping Weight: 24 lbs. (10.9 kg.)

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

Welding Position: All position

Torch Holder: Fits straight torch

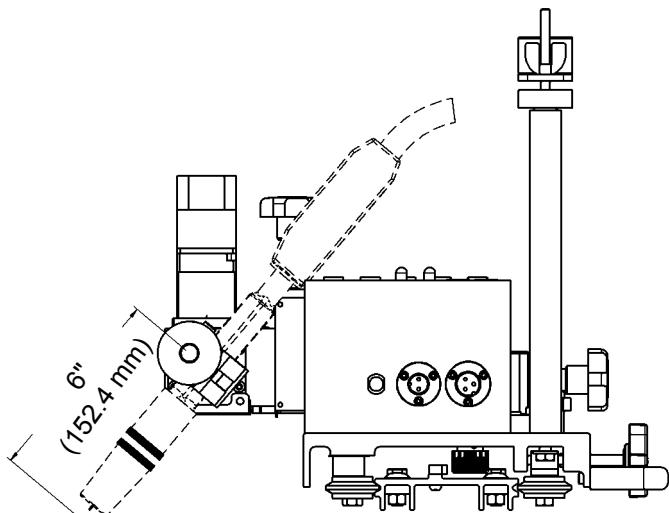
Vertical Lifting Power: 50 lbs. (22.7 kg.)

Tractor Dimensions:

(WxLxH) inch: 13 5/8 to 16 x 9 x 10 1/4
mm: (346 to 406 x 228 x 260)

Torch Support Adj.:

Y-Stroke: 2.05" (52 mm) \pm 5%
Z-Stroke: 1.69" (43 mm) \pm 5%



* 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:

