

# K-BUG 5100 COMPACT PENDULUM WEAVE WELDER

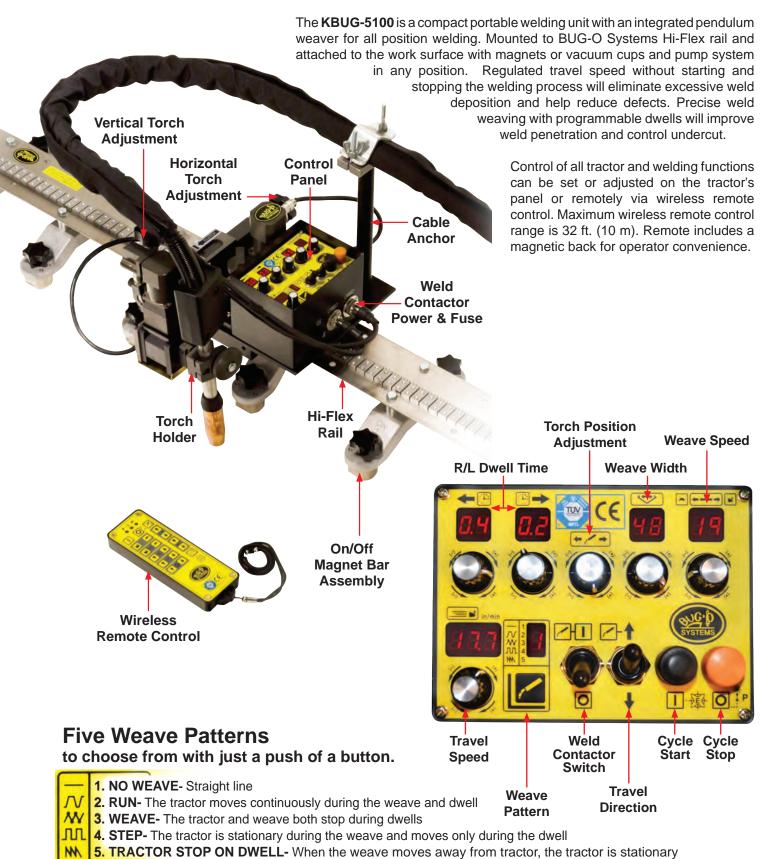












When weave moves towards tractor, the tractor also moves



## **Features:**

- High torque, low inertia motor for precise stops and starts
- Lightweight and easy to carry, weighing just 18 lbs. (8.2 kg)
- Hi-Flex Rail with rack and pinion drive insures precise path and consistent speed
- Hi-Flex Rail flat or bent inside/outside to a radius of 30" (762 mm)
- 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



# **Racking Option:**

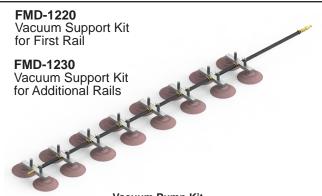


**KBUG-5115**Optional Bug-O Style racking group

## **Rail Options:**

The **K-BUG 5100** package is designed to run on Bug-O Systems Hi-Flex Rail (FMD) for uses in curved or straight line applications. Carriage wheels run on stainless steel rail that can be mounted with magnets or vacuum system.





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





## **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

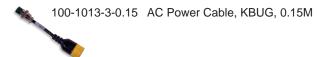
**100-1011-1-4.5-L** Includes 100-0486 Lincoln Power Pin Old Style

# **9** 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
100-1020-3-0.15 5-P Lincoln

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



#### **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"

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



## **Technical Data:**

**Power Requirements:** Weaver Speed: 0 to 188 in/min (477 cm/min)

**KBUG-5100** 120VAC/50-60Hz/1Ph **KBUG-5102** 240VAC/50-60Hz/1Ph Weave Width\*: 0 to 1.23" (31.24 mm)

Cycles\*: 68 cycles per min. at 1.05" (26.67 mm) stroke 115 cycles per min. at .525" (13.34 mm) stroke **Net Weight:** 18 lbs. (8.2 kg.)

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

Digital LED speed indicator: 1 to 34.7 ipm (25 to 88 cm/min)

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

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

(19 mm) dia.

All position

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

**Tractor Dimensions:** (WxLxH) inch: mm: 12.34 to 14.9 x 9.67 x 8.48 to 10.09

(313.44 to 378.46 x 245.62 x 215.4 to 265.29)

**Torch Support Adj.:** 

**Welding Position:** 

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

SPK-KBUG-5000: Spare Parts Kit

\* 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.

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# **Dimensions:**

