



K-BUG 3000 K-BUG 3000-BAT K-BUG 3500

DIGITAL, COMPACT, HEAVY DUTY FILLET WELDER W/ OSCILLATION

**Magnetic travel carriage with oscillation
for welding in all positions.**

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

Battery powered unit available.



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.

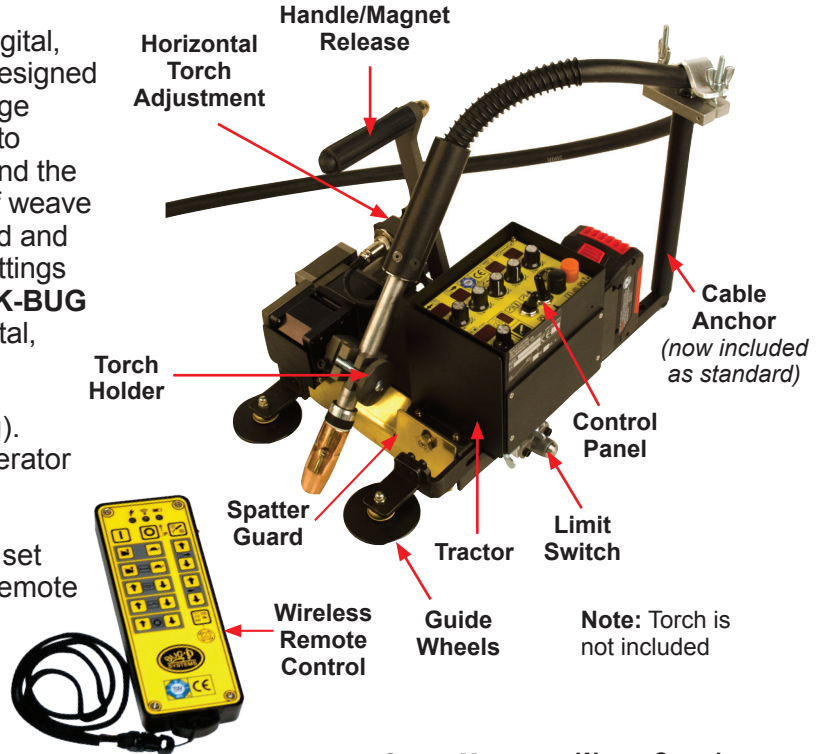


K-BUG 3000 DIGITAL COMPACT HEAVY DUTY FILLET WELDER

The **K-BUG 3000** and the **K-BUG 3000-BAT** are digital, compact, heavy duty fillet welders with oscillation designed for welding fillet joints. A lightweight, portable carriage utilizes powerful magnets and guide wheel clamps to track directly to the work piece. The **K-BUG 3000** and the **K-BUG 3000-BAT** feature programmable control of weave parameters that include tractor speed, weave speed and weave width. This K-BUG also has independent settings for left / right dwell. Both the **K-BUG 3000** and the **K-BUG 3000-BAT** have the capability to perform in horizontal, vertical and flat positions.

Maximum vertical lifting capacity is 50 lbs (22.7 kg). Safety cables are recommended to protect the operator and equipment.

Control of all tractor and welding functions can be set or adjusted on the tractor's panel or remotely via remote control. Remote range is up to 32 ft (10 m) away.



Note: Torch is not included

Features:

The **K-BUG 3000** and **K-BUG 3000-BAT** incorporate the following features:

- Digital compact all position fillet welder
- Cordless 18 volt battery capable of running two shifts (K-BUG 3000-BAT model only)
- State of the art digital technology insures accuracy
- Industry's smallest and lightest all position oscillating fillet welder
- Digital LED display of all parameters
- Permanent magnet for powerful traction
- Closed loop speed and position control
- Spatter Guard on work-side wheels
- Drive Wheels are rated to 400°F (204°C)
- Available in two voltages: 120VAC and 240VAC
- Limit switches provide automatic travel / weld stop
- Programmable weld control features for better puddle control and crater fill



Choose between five weave patterns with just a push of a button



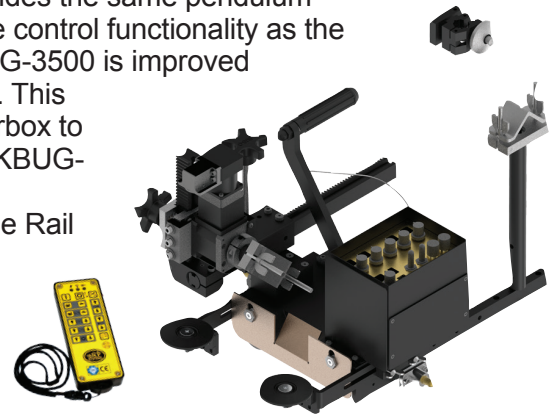
1. **NO WEAVE**- Straight line
2. **RUN**- The tractor moves continuously during the weave and dwell
3. **WEAVE**- The tractor and weave both stop during dwells
4. **STEP**- The tractor is stationary during the weave and moves only during the dwell
5. **TRACTOR STOP ON DWELL**- While the weave moves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



K-BUG 3500 DIGITAL COMPACT HEAVY DUTY FILLET WELDER

The **K-BUG 3500** is a modified version of the KBUG-3000. It provides the same pendulum oscillator functions, the same firm magnetic base and all the same control functionality as the KBUG-3000. The positioning of the oscillator gearbox on the KBUG-3500 is improved with the addition of the familiar Bug-O Systems machined racking. This racking, with greater envelope of motion, allows the oscillator gearbox to be located for both fillet and butt welds. The limit switches on the KBUG-3500 tractor are also extended to allow access beneath the larger Bug-O racking. This improved racking also allows the KBUG Guide Rail Followers to be installed (see Accessories on page 4).

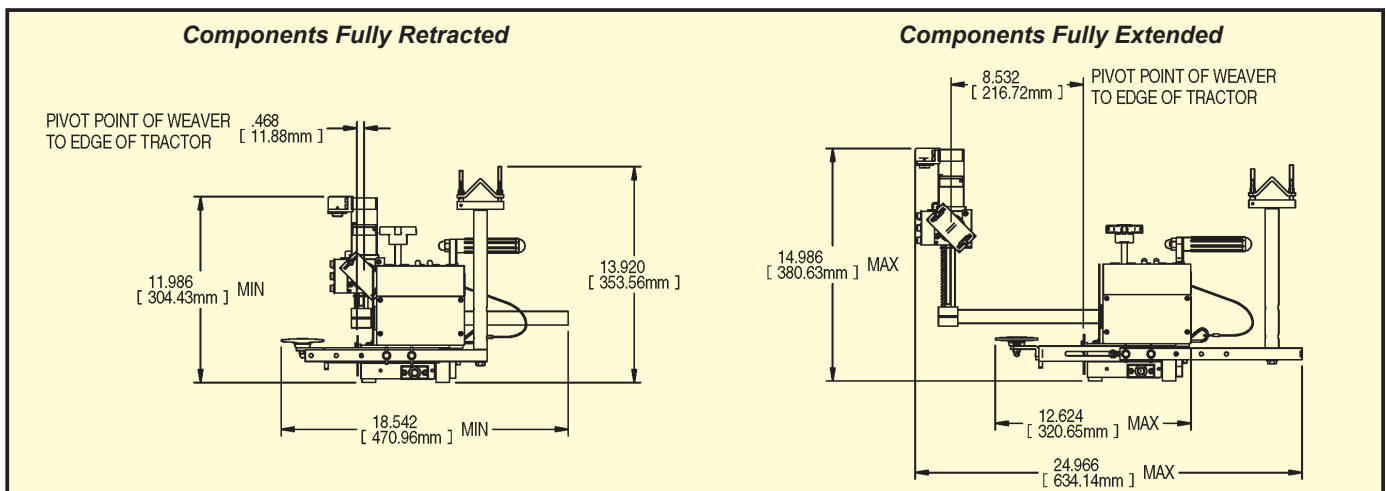
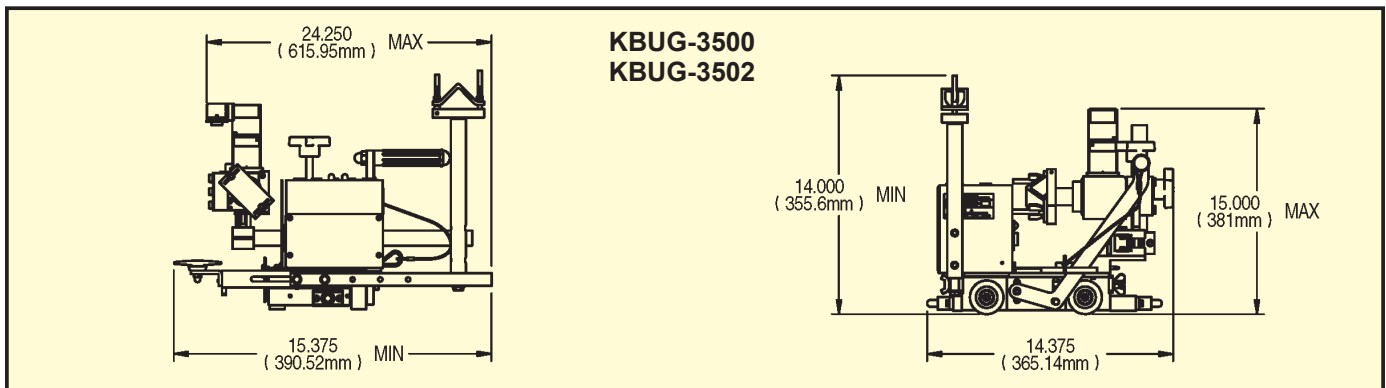
The KBUG-3500, in conjunction with the Guide Rail, provides a solution for the welding of butt joints with rapid installation without the requirements for a rigid track.



Features:

- Wireless Remote Control
- Digital displays for weld speed, dwell times, weave width and weave speed
- Independent left / right dwell times
- Five weave patterns
- Bug-O Machined Racking
- Extended Limit Switches
- Guide Rail Followers can be installed
- Magnet release for easy positioning of carriage
- Electronics rated to 80 C (175 °F)
- Drive wheels rated to 400 °F (204 °C)

Dimensions:





DIGITAL COMPACT HEAVY DUTY FILLET WELDER WITH OSCILLATION

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

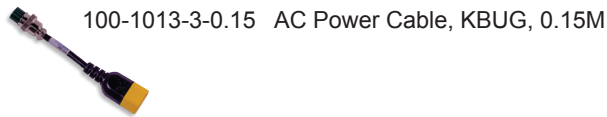
2 BUG-O TRIGGER CABLE

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)

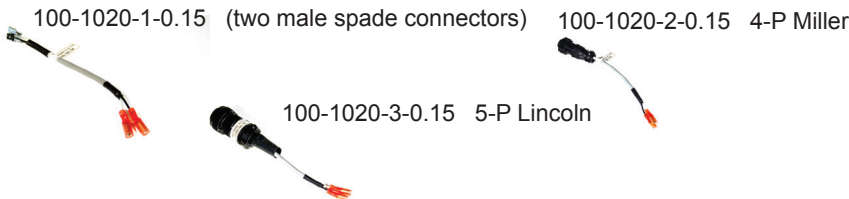


100-1013-3-0.15 AC Power Cable, KBUG, 0.15M

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) 100-1020-2-0.15 4-P Miller

100-1020-3-0.15 5-P Lincoln

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



BUG-9454 120VAC

BUG-9454-240 240VAC

BUG-9454-42 42VAC

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



KBUG-3005-BW

Adjustable Slide Arm

positions torch farther from carriage, for welding fillet or butt joints

KBUG-1201-BAT

Replacement Battery



KBUG-1205-BAT

120V Battery Charger

KBUG-1206-BAT

240V Battery Charger



KBUG-3163 Eye Bolt

Connection point for fall arrester when welding out of position

MSQ-165 ON/OFF

Magnetic Stop for limit switch activation



KBUG-1067 Magwheel

Add-On Kit Used for welding curved irregular shapes



100-1002 Conversion Kit

To convert KBUG-3000 to KBUG-3500 for use with guide rail.



100-0910-3000

KBUG Follower Arms



100-0902 Guide Rail

6' (1.83 m) guide rail with on/off magnets



K-BUG 3000 DIGITAL COMPACT HEAVY DUTY FILLET WELDER

Technical Data:

Power Requirements:

KBUG-3000 120VAC/50-60Hz/1Ph
KBUG-3002 240VAC/50-60Hz/1Ph

Drive Motor: 24 VDC, 12 W, 5000 RPM

Net Weight: 20.2 lbs. (9.2 Kg)

Dimensions(WxLxH):

inch: 13.25(min.) - 22.5(max) x 13.1 x 13.9
cm: 33.66(min) - 57.15(max) x 33.2 x 35.30

Shipping Weight: 25.2 lbs. (11.4 Kg)

Shipping Dimensions:

inch: 20x19x15
cm: 51x48x38

Travel Speed: 1.18 - 35 in/min
 (3.0 - 88 cm/min)

Torch Holder: Fits barrels up to 0.75 in (19 mm) dia.

Torch Angle: 45° +/- 10°

Dwell Time: 0 - 9.9 sec per side

Y-Stroke: 0 - 0.78" (0 - 20 mm)

Weave Width*: 1.05" (26.67 mm)

Weave Speed*: 0 to 247 in/min
 (0 to 627 cm/min)

Cycles*: 68 cycles per min. at 1.05" (26.67 mm) weave width
 115 cycles per min. at .525" (13.34 mm) weave width
 200 cycles per min. at .25" (6.35 mm) weave width

KBUG-3000-BAT 120VAC/50-60Hz/1Ph
KBUG-3002-BAT 240VAC/50-60Hz/1Ph

Net Weight: 25 lbs. (11.34 Kg)

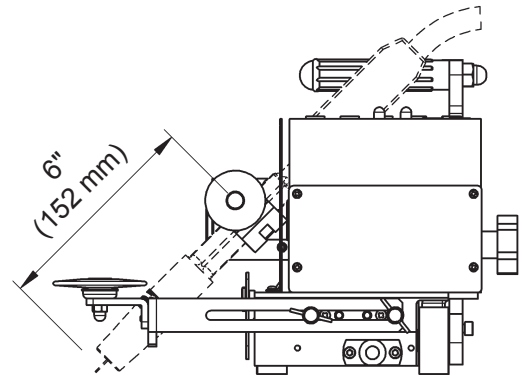
Dimensions(WxLxH):

inch: 14.63(min.) - 22.5 (max) x 13.1 x 13.9
cm: 37.16 (min) - 57.15 (max) x 33.2 x 35.30

Shipping Weight: 30 lbs. (13.6 Kg)

Shipping Dimensions:

inch: 20x19x15
cm: 51x48x38



* 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.

