

K-BUG 5050 and K-BUG 6050

DIGITAL, COMPACT, STAND ALONE
PENDULUM WEAVE WELDER & LINEAR WEAVE WELDER

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 5050 DIGITAL COMPACT PENDULUM WEAVE WELDER

K-BUG 5050 Pendulum

INDUSTRY PROVEN
Heavy Fabrication & Manufacturing, Shipyards, Oil & Gas Industry

WELDING APPLICATIONS:

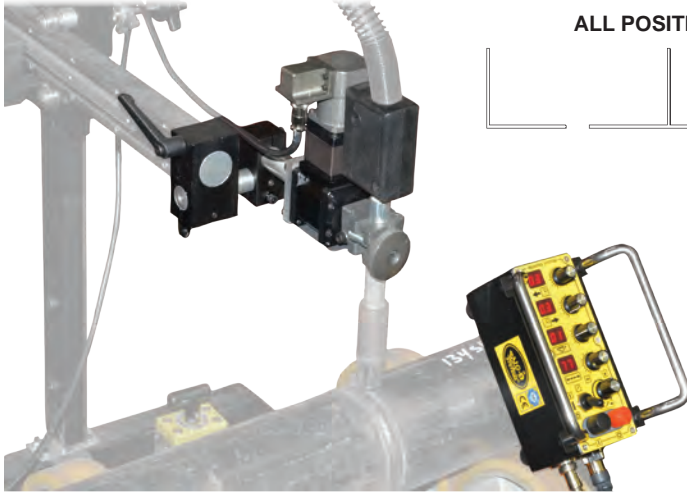
ALL POSITION FILLETS



LAP JOINTS



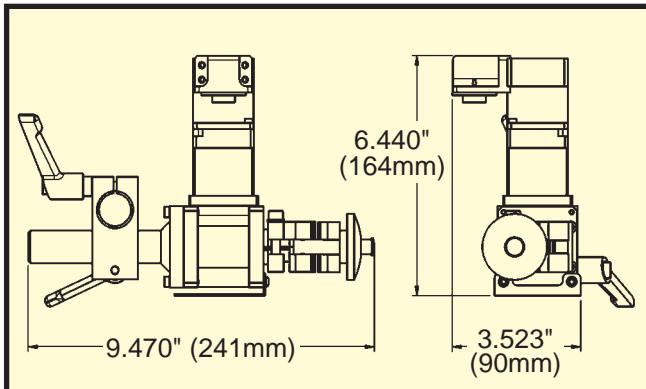
SEAM WELDS



Features:

- Compact, lightweight design for ease of use
- Independent control of dwell times from 0 - 10 seconds
- Magnetic control box
- Torch "Quick Connect"
- Weave speed and width controls
- Modular design for a multitude of applications
- Motor with high ratio gearbox for pendulum motion prevents torch movement when power is off
- High speed motor for pendulum weaving
- Programmable puddle control and crater fill times
- Independent control of pendulum weaving right and left dwell times
- Closed loop speed control to prevent drift from center weld position
- Storage of motion parameters after power is turned off
- Weld Contactor ON/OFF Switch

Dimensions:



Accessories:

For K-BUG 5050 & 6050

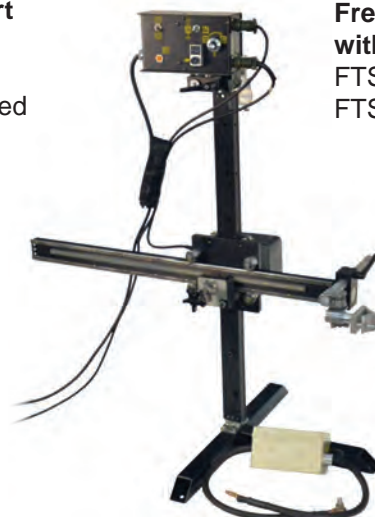
Freestanding Torch Support FTS-1020



- Small, manually operated torch manipulator
- Provides effortless and smooth positioning of cutting torch or welding gun

Freestanding Torch Support with Automatic Height Control

FTS-1025 110 Volt
FTS-1025-240 240 Volt



- Compact, easy to use system
- Designed to maintain constant torch-to-work distance
- Measuring amperage output, the controller will raise up or down to maintain precise torch work distance automatically



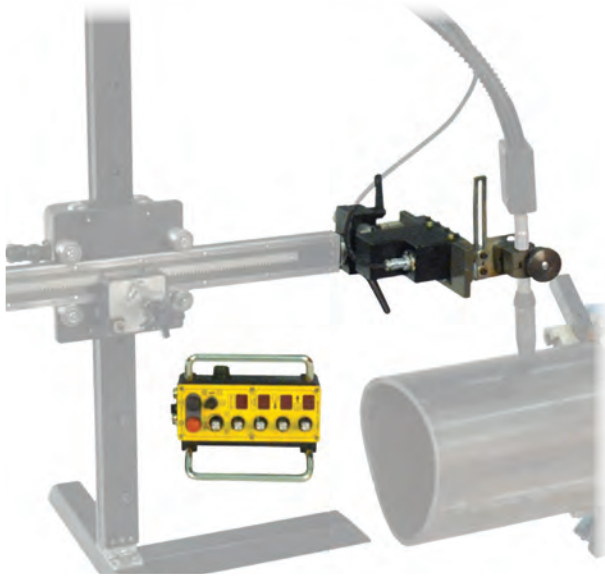
K-BUG 6050 DIGITAL COMPACT LINEAR WEAVE WELDER

K-BUG 6050 Linear

INDUSTRY PROVEN
Heavy Fabrication & Manufacturing, Shipyards, Oil & Gas Industry

WELDING APPLICATIONS:

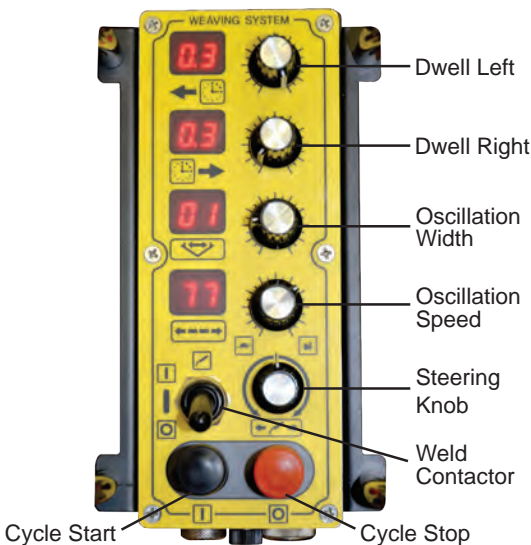
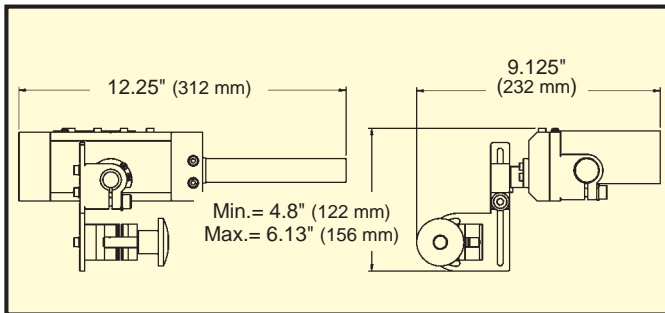
SEAM WELDS



Features:

- Compact, lightweight design for ease of use
- Independent control of dwell times from 0 - 10 seconds
- Magnetic control box
- Torch "Quick Connect"
- Weave speed and width controls
- Modular design for a multitude of applications
- 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 times
- Independent control of linear weaving right and left dwell times
- Closed loop speed control to prevent drift from center of stroke
- Storage of motion parameters after power is turned off
- Weld Contactor ON/OFF Switch

Dimensions:



K-BUG 5050 & K-BUG 6050 Controls





K-BUG 5050/6050 DIGITAL COMPACT WEAVE WELDERS

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)



100-1020-3-0.15 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

Optional Torch Holders for KBUG-5050:



KBUG-3120-1
1" Torch Holder



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



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

Optional Torch Holders for KBUG-6050:



KBUG-2080-1
1" Torch Holder



KBUG-4089
Torch Holder (BUG-O Style)



K-BUG 5050/6050 DIGITAL COMPACT WEAVE WELDERS

Technical Data: K-BUG 5050

Power Requirements:

KBUG-5050 120VAC/50-60Hz/1Ph

KBUG-5052 240VAC/50-60Hz/1Ph

Net Weight: 10 lbs. (4.5 kg.)

Shipping Weight: 14 lbs. (6.3 kg.)

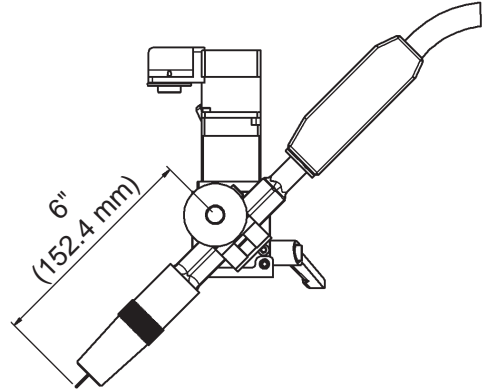
Welding Position: All position

Torch Holder: Fits torch barrels up to 0.75" (19 mm)

Weaver Speed: 0 - 188 in/min (4775 mm/min)

Weave Width*: 0 - 1 in (25.4 mm)

Cycles*: 80 cycles per min. at 1" (25.4 mm) stroke
115 cycles per min. at .5" (12.7 mm) stroke
200 cycles per min. at .25" (6.35 mm) stroke



* 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.

Technical Data: K-BUG 6050

Power Requirements:

KBUG-6050 120VAC/50-60Hz/1Ph

KBUG-6052 240VAC/50-60Hz/1Ph

Net Weight: 14 lbs. (6.3 kg.)

Shipping Weight: 18 lbs. (8.2 kg.)

Welding Position: All position

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

Weaver Speed: 0 - 100 in/min (2540 mm/min)

Weave Width: 0 - 2 in (51 mm)

