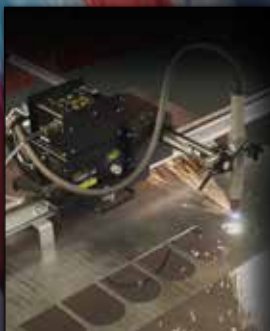


Operator Controlled *Mechanization*



Phone: 412-331-1776

Fax: 412-331-0383

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.

Why Choose a Mechanized Process?



Increase Production

The machine replaces the operator's hand to control the process. Continuous welding, no stopping and starting.

Improve Quality

Precise speed and path control improves appearance and quality. Decreases defects and costly repairs.



Reduce Material Handling

Take the machine to the work. Work in all positions.

Reduce Distortion

Regulate travel speed. Provide uniform heat input.

Improve Worker's Environment

Reduce operator fatigue. Remove operator from welding/cutting fumes





Straight Line Cutting & Welding with Rails



GO-FER® IV

Straight line cutting machine for oxy-fuel or plasma, remote pendant option available
120 or 240 volt
Speed: 2.5-100 ipm
(63.5-2540 mm/min)
Weight: 37 lbs. (16.8 kg)



WELDING SUPPORT KIT FOR GO-FER® IV

Used with the Go-fer® IV for straight line semi-automatic welding



DC-IV

Rack and pinion drive with six speed ranges available. Runs on aluminum rigid and semi-flex rail.
42, 120 or 240 volt
Weight: 18 lbs. (8 kg)

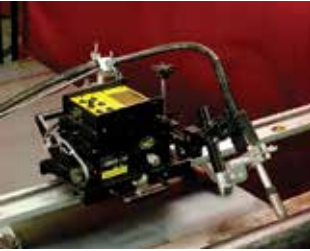


DC-IV-HD

Rack and Pinion tractor w/ Extra Heavy Duty torch support racking for Aluminum Rigid Rail
120, 240 or 42 volt
Weight: 24 lbs. (10.9 kg)

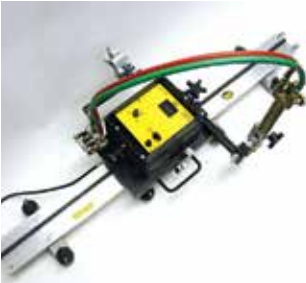


Straight Line Cutting & Welding with Rails



MODULAR DRIVE SYSTEM

Stitch welding kit
110, 220 or 42 volt
Adapts to all Bug-O rail
Speed: 2-120 ipm
(51-3048 mm/min)
Weight (machine only):
30 lbs. (13.61 kg)

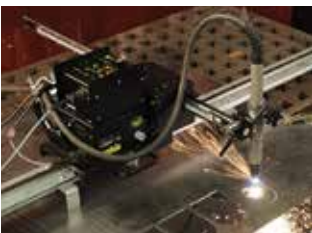


MODULAR DRIVE SYSTEM

Straight Line Cutting Kit
110, 220 or 42 volt
Adapts to all Bug-O rail
Speed: 2-120 ipm
(51-3048 mm/min)
Weight (machine only):
28 lbs. (12.7 kg)



Shape Cutting / Welding



MDS PROGRAMMABLE SHAPE KIT

2 axis portable programmable cutting/welding machine
120, 240 and 42 volt
Speed: 5-100 ipm
(127-2540 mm/min)
Net Weight: 47 lbs. (21 kg)



Straight Line Welding with Oscillation



MODULAR DRIVE SYSTEM

Linear weaver kit
110, 220 or 42 volt
Adapts to all Bug-O rail
Speed: 2-120 ipm
(51-3048 mm/min)
Weight (machine only):
41 lbs. (18.6 kg)



MODULAR DRIVE SYSTEM

Pendulum weaver kit
110, 220 or 42 volt
Adapts to all Bug-O rail
Speed: 2-120 ipm
(51-3048 mm/min)
Weight (machine only):
40 lbs. (18.14 kg)



HIGH CAPACITY MODULAR DRIVE SYSTEM

Can carry up to 140 lbs. (64 kg) vertically, and is compatible with all standard MDS components
Speed: 2-120 ipm
(51-3048 mm/min)
Net Weight (w/carriage):
26 lbs. (11.8 kg)

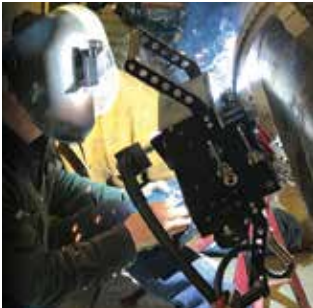


UNIVERSAL BUG-O-MATIC

Compact drive and weaver combination.
Adapts to all Bug-O rail
120, 240 or 42 volts
Speed: 3-66 ipm
(70-1670 mm/min)
Weight: 22 lbs. (10.5 kg)



Pipe Welding/Cutting



PIPE WELDING SYSTEMS

Piper-Plus

- Self contained, digitally controlled - Produces excellent quality repeatable welds with high deposition rates
- Fully integrated with power sources - advanced process control available (STT, GMAW-P, etc)
- Pipe Diameter 12 inches and larger
- Air-cooled & Water-cooled options available

120 or 240 volts

Speed: 0-80 ipm,
(0-2000 mm/m)



UNIVERSAL BUG-O-MATIC WITH AUTO HEIGHT CONTROL

An Excellent Choice for Pipe Welding for ease of operation.

120, 240 or 42 volts

Speed: 3-70 ipm
(75-1750 mm/min)

Weight: 36 lbs. (16 kg)



MODULAR DRIVE SYSTEM

A versatile machine that can be customized for pipe welding

110, 220 or 42 volt

Adapts to all Bug-O rail

Speed: 2-120 ipm

(51-3048 mm/min)

Weight: 39 lbs. (17.5 kg)



Welding with Automatic Height Control



MODULAR DRIVE SYSTEM WITH AUTOMATIC HEIGHT CONTROL

Available for straight-line or linear & pendulum weaving systems

110, 220 or 42 volt

Adapts to all Bug-O rail

Speed: 2-120 ipm

(51-3048 mm/min)

Weight: 45 lbs. (20 kg)



UNIVERSAL BUG-O-MATIC WITH AUTOMATIC HEIGHT CONTROL

Same as Universal Bug-O-Matic but with additional amperage sensing automatic torch height adjuster

Adapts to all Bug-O rail

120, 240 or 42 volts

Speed: 3-70 ipm

(75-1750 mm/min)

Weight: 36 lbs. (16 kg)



FREESTANDING TORCH SUPPORT WITH AUTOMATIC HEIGHT CONTROL

110 or 220 volts

Total Vertical

Adjustment: 25" (635 mm)

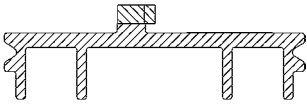
Total Horizontal

Adjustment: 25" (635 mm)

Weight: 41 lbs. (19 kg)



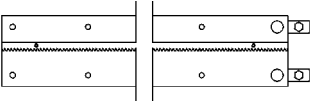
Rails



RIGID RAILS

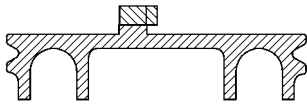
Heavy Duty
ARR-1080

8' (2.37 m) Long sections



ARR-1085

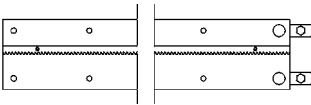
4' (1.18 m) Long sections



Extra Heavy Duty

ARR-1250

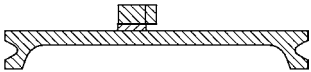
8' (2.37 m) Long sections



ARR-1200

4' (1.18 m) Long sections

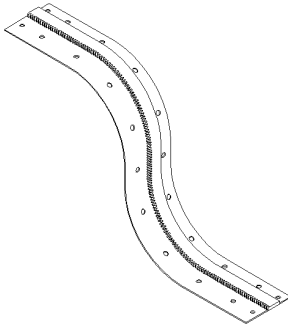
Hard coat rails available upon request for above.



SEMI-FLEX RAIL

Flexes to 15' (5 m) radius
AFR-3000

8' (2.37 m) Long sections

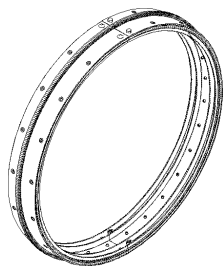


HI-FLEX RAIL

Flexes to 30" (760 mm)
Radius

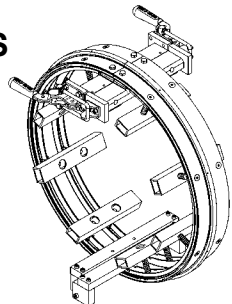
FMD-1050

57.7" (1.47 m) Long sections



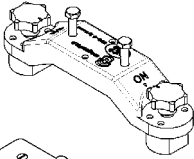
RING RAILS

Minimum work
diameter of
9" (230 mm)





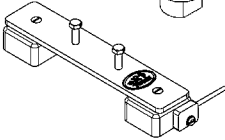
Magnet Bars



R.E. ON/OFF MAGNET

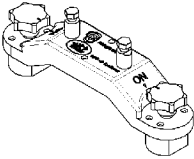
For Aluminum Rigid Rail
ARM-2010

High Heat Applications*
ARM-2010-HH



SWIVEL MAGNET

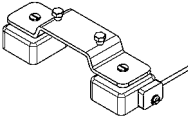
For Aluminum Rigid Rail
ARM-2325



R.E. ON/OFF MAGNET

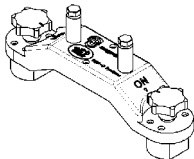
For Semi-Flex Rail
AFR-2010

High Heat Applications*
AFR-2010-HH



MAGNET W/ RELEASE

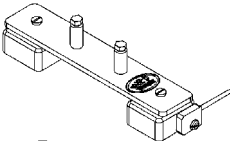
For Semi-Flex Rail
ARM-2425



R.E. ON/OFF MAGNET

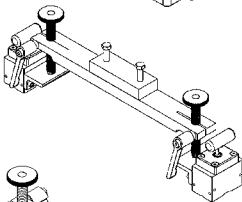
For Hi-Flex Rail
FMD-2010

High Heat Applications*
FMD-2010-HH



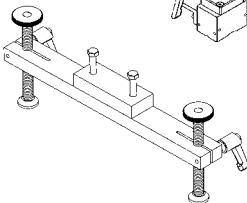
MAGNET W/ RELEASE

For Hi-Flex
FMD-2325



SUPPORT BAR WITH R.E. ON/OFF MAGNETS

For Bent Rail
3.5" (88.9 mm) of adjustment
ARM-2580



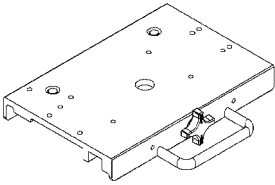
Support Bar w/ Screw Feet

For Bent Rail
4.5" (114.3 mm) of adjustment
ARM-2380

* High Heat App.= Rated @ 180°C (356°F)
Standard Heat= Rated @ 80°C (176°F)

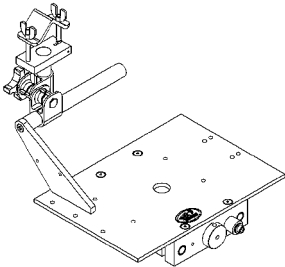


Carriages - Vacuum Support



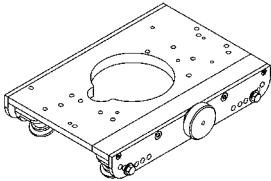
RELEASABLE CARRIAGE

For Rigid & Semi-Flex Rail
MPD-1065



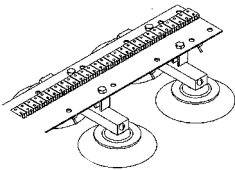
HI-FLEX CARRIAGE

For Hi-Flex Rail
FMD-1105



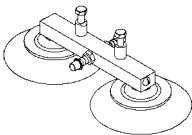
SPLIT CARRIAGE

Releasable from Rail
For Bent Rigid Rail
BUG-5910



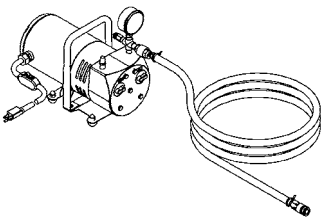
VACUUM BAR ASSEMBLY

For non-ferrous material
For Hi-Flex Rail
(sold separately)
FMD-1036



VACUUM BAR ASSEMBLY

For non-ferrous material
For Rigid & Semi-Flex Rails
(sold separately)
ARV-1036



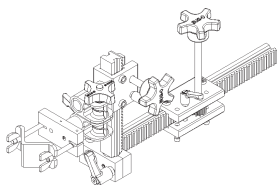
VACUUM PUMP KIT

ARV-2020
110 volt/50-60 Hz

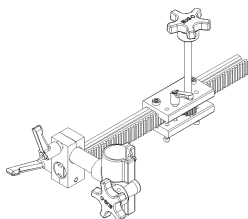
ARV-2030
220 volt/50-60 Hz



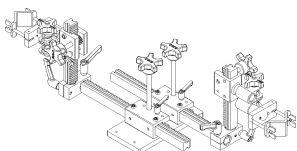
Supports & Accessories



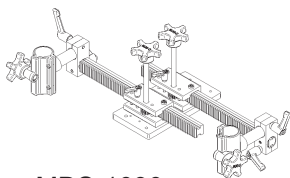
MDS-1040
Machined Rack
Welding Group



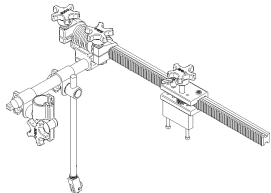
MDS-1050
Machined Rack
Cutting Group



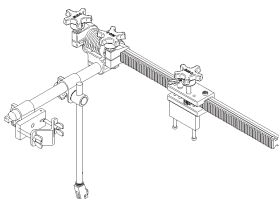
MDS-1075
Dual Torch Welding
Group



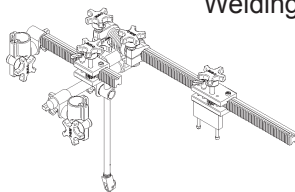
MDS-1090
Dual Torch Cutting
Group



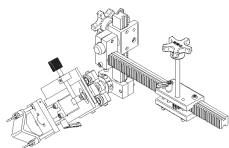
PAN-1000
Panograph
Torch Floater



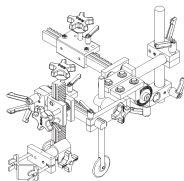
PAN-1008
Welding Panograph



PAN-1072
Double Torch
Panograph



PAN-2145-L, R
Mechanical Corner
Follower



PAN-2160
Mechanical Seam
Follower



Hole Cutter & Circle Welders



HOB-O ALL-POSITION HOLE BORER

Lightweight precision hole borer, beveler and welder.
120, 240 and 42 volt
Cutting Diameter:
1"-48" (25-1220 mm)
Weight: 30 lbs. (13.6 kg)



CIRCLE WELDERS

Nozzle welding units
Available for MIG/MAG
and submerged Arc.
Multiple versions available
for nozzle diameters of
1"-50" (25-1270 mm)
For multi-pass and
multi-layer welding.



Circle Cutters



CB-1PR

Plasma circle burner with
remote control for cutting
beveled holes 1/2"-12"
(13-305 mm) in Pipe up
to 3/8" (7 mm) wall
thickness includes
plasma power source.
60% Duty cycle
Rise and Fall Cam:
5" (127 mm)
Speed: 0.2-11 rpm
Weight: 170 lbs. (77 kg)



CB-2

Circle burner with
magnetic base
process: Oxy-fuel
Cutting Diameter:
1.5"-42" (40-1066 mm)
beveled holes
4"-48" (100-1220 mm)
square cut
Rise and Fall Cam:
0-7" (0-175 mm),
Weight: 225 lbs. (102 kg)



Bug-O Advanced Process Circle Welders



DCW-5

Equipped with Lincoln Electric® Power Feed 84® or OTC-DAIHEN AF-4012 wire feeder.

Can weld 1-12" (25.4-304.8 mm) diameters



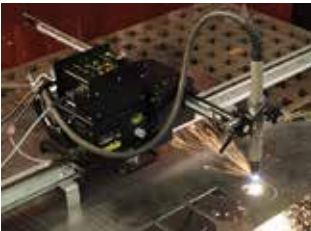
DCW-18-L

Equipped with Lincoln Electric® MAXsa® 10 Controller for Power Wave® AC/DC 1000® wire feeder or Miller® Digital interface for use with Miller® Digital series power sources.

Can weld 10-50" (254-1,270 mm) diameters



Shape Cutting / Welding

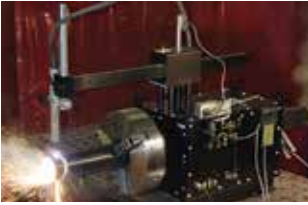


MDS PROGRAMMABLE SHAPE KIT

2 axis portable programmable cutting/welding machine
120, 240 and 42 volt
Speed: 5-100 ipm
(127-2540 mm/min)
Net Weight: 47 lbs. (21 kg)



Pipe Cutting & End Preparation Units



SE-2 PTD

Programmable pipe cutter with 5" (127 mm) pipe pass through capability

Process: Oxy-fuel or Plasma
120 or 220 volts

Diameters:

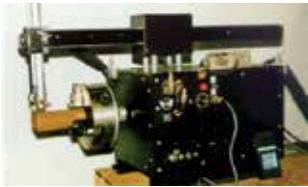
1" - 4" (25-100 mm)

External Chuck:

4"-14" (100-355 mm)

Net Weight:

346 lbs. (157 kg)



SE-4PD

Programmable pipe cutter

Process: Oxy-fuel or Plasma
115 or 220 volts

Cutting Diameters:

1"-12" (25-300 mm)

Maximum Pipe Length:

18" (450 mm)

Weight: 201 lbs. (91 kg)



SE-4PTD

Programmable pipe cutter

with 13" (330 mm) pipe pass through capability

Process: Oxy-fuel or Plasma
120 or 220 volts

Pass Through Pipe Cutting
Diameters:

4" to 12-3/4"

(100-325 mm)

External Chuck up to

20" (500 mm)

Weight: 705 lbs. (320 kg)



PCC-1

Pipe Coupon Cutter is a single axis machine for cutting or beveling the edge of a pipe

Process: Oxy-fuel or Plasma
120 or 220 volts

0-8" O.D. and 3-11" I.D. pipe

Weight: 180 lbs. (82 kg)

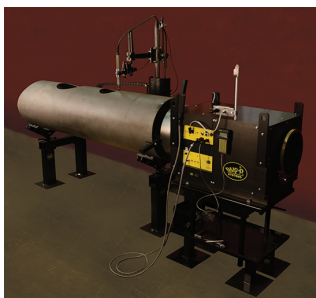


Pipe Cutting & End Preparation Units



MM1

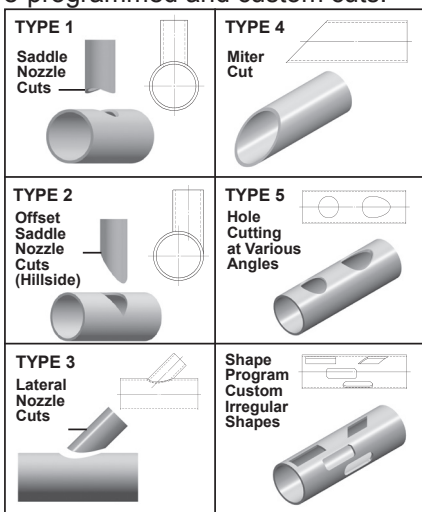
Programmable pipe cutter with pipe bed
 Process: Oxy-fuel or Plasma
 120 or 220 volts
 Cutting Diameters
 4"-16" (100-400 mm) O.D.
 Pipe Length Capacity
 up to 30' (9.14 m)
 24" (600 mm) Diameter
 Capacity Available



MM5

Programmable pipe cutter with pipe bed
 Process: Oxy-fuel or Plasma
 120 or 220 volts
 Cutting Diameters
 4"-39.375" (10-100 cm)
 O.D.
 Pipe Length Capacity
 up to 8' (2.44 m)
 Additional pipe bed
 extensions of 8' (2.44 m)
 can be added

Capabilities of Bug-O Pipe cutting & end preparation units. Pre-programmed and custom cuts.





Trackless Mechanization for Cutting & Welding



UNI-BUG® III

Programmable stitch welder. Runs directly on the work piece. Carriage options for the following structural profiles:

- Bulb Angle
- T Profiles • L Profiles

110, 220 or 42 volt

Speed: 4-75 ipm

(102-1905mm/min)

Weight: 18 lbs. (8.2 kg)



STIFFENER WELDERS

Mechanizes two wire feeders to weld various types of stiffeners.

Available with Lincoln® Flex Feed 84 feeder or Miller® S74 feeder

120 or 240 volt

Speed: 3-44 ipm

(75-1100 mm/min)



Four Wheel Drive Trackless Mechanization for Fillet Welding



K-BUG 1200

Fillet welder with
continuous and
programmable stitch
42, 120 or 240 volt
Speed: 0.3-.37 in/min
(0.1-95 cm/min)
Weight: 13 lbs. (5.9 kg)



K-BUG 1200-BAT

Cordless, battery
operated fillet welder
with continuous and
programmable stitch
120 or 240 volt
Speed: 1.5-37 in/min
(3-95 cm/min)
Weight: 17 lbs. (7.71 kg)



K-BUG 2000

Dual Torch Fillet Welder
120 or 240 volt
Speed: 0.3-37 in/min
(0.1-95 cm/min)
Weight: 23.2 lbs. (10.5 kg)



K-BUG 3000 WITH OSCILLATION

Welds in all Positions
Includes wireless remote
120 or 240 volt
Speed: 1.18-35 in/min
(3.0-88 cm/min)
Weight: 20.2 lbs. (9.2 kg)



Four Wheel Drive Trackless Mechanization for Fillet Welding



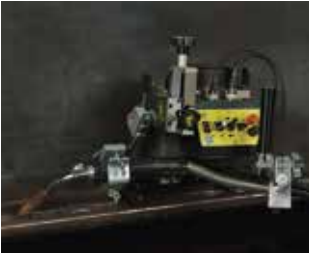
K-BUG 3000-BAT WITH OSCILLATION

Cordless, battery
operated, welds in all
Positions

Includes wireless remote
120 or 240 volt

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

Weight: 26 lbs. (11.8 kg)



K-BUG 4000

Wall following continuous
and stitch fillet welder

120 or 240 volt

Speed: 0-77 in/min
(0-196 cm/min)

Weight: 17 lbs. (7.5 kg)



Girth Welders



UNIVERSAL GIRTH WELDERS

These girth welders
are convertible for both
bottom up and top down
construction. They are also
capable of being used as
a pair to construct a dual
sided girth welder.

Special models can be
built per customer's
request.



Girth Welders



VERTICAL SEAM WELDER

Similar design to BGW. Performs vertical seam welds. Includes elevating platform for operator.



MINI PORTABLE AUTOMATIC GIRTH WELDER

Produces 2G horizontal sub-arc welds. Runs on a steel band support located anywhere on the work piece.



ZIPPER WELDER

The Bug-O Zipper Welder is designed to weld vertical seams on field storage tanks. The system hooks on the top edge of the tank. It manually rolls to the next joint.



Bug-O Weavers



KBUG-5050

Digital, compact
pendulum weave welder
120 or 240 volt
Speed: 0 to 247 in/min
(6274 cm/min)
Weight: 10 lbs. (4.5 kg)



KBUG-6050

Digital, compact
linear weave welder
120 or 240 volt
Speed: 0 to 188 in/min
(477 cm/min)
Weight: 14 lbs. (6.3 kg)



Custom Application Solutions



OVERLAY SYSTEM

Custom configured system
for rebuilding and resurfacing
material such as vessel walls
and boiler tubes.
110, 220 or 42 volt
Travel Speed: 2-120 ipm,
(50-3000 mm)
Available in programmable
or manual indexing versions
and working envelopes

A QUALITY PRODUCT FROM BUG-O SYSTEMS

A DIVISION OF WELD TOOLING CORPORATION Litho in U.S.A.

280 TECHNOLOGY DRIVE • CANONSBURG, PA 15317 USA

© Weld Tooling Corp. ΧΡΙΣΤΟΣ ROM 1:16 LIT-BRO-ESS-0319