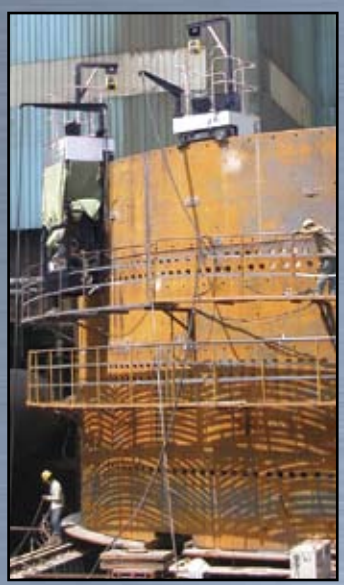
TANK FABRICATION







Automated Solutions for Your Tank Fabrication Project.

BUG-O SYSTEMS

Bug-o Systems

www.bugo.com

BUG-O ALL TIME GIRTH WELDER

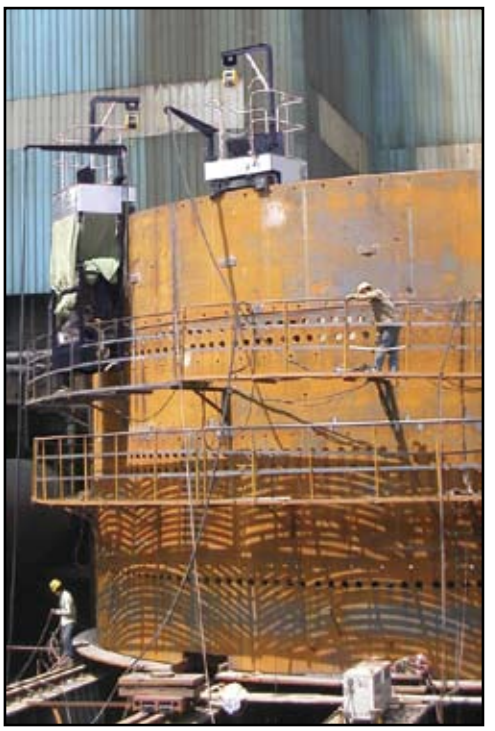
Bug-o Systems offers the **Automatic Girth Welder** for tank fabrication applications. Unlike current girth welders on the market, the BGW Series comes standard with a Dual Drive System. This self-propelled submerged arc welding system can reduce field storage tank welding time up to 40%. Weld defects are greatly reduced saving tank erection costs. The Girth Welder is applicable for bottom-up or jack-up constructed single or double wall storage tanks inside and outside welding. There are four standard units, however our design allows us to offer custom built units for non-standard applications.





Dual Drive

Bug-o All Time exclusive dual AC motor design, allows for constant travel across the entire tank circumference. When fit up is not quite perfect or there is an uneven surface for the machine to travel, the dual motors will power the machine across the imperfection. This design can reduce the amount of time required to repair weld defects, and can decrease the overall tank erection costs. The dual motors are controlled by one easily programmable frequency inverter.

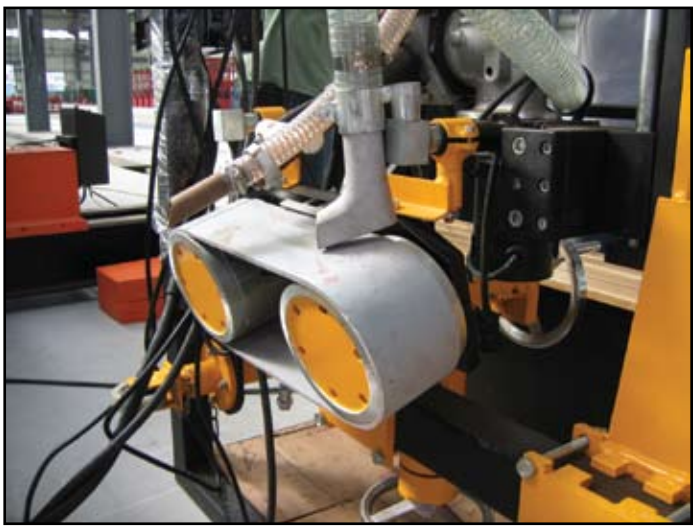


Heavy Duty Flux Recovery System with Flux Lifting Winch

The BGW-Series offers a flux recovery system that can hold 130lbs (60 kg) of flux for use on long plate. The BGW also offers the convenience of a Flux Lifting Winch for easy refilling of the main flux hopper. The winch can lift 350lb (159 kg) of flux up to 100 feet (30.5 m) off the ground.



BUG-O ALL TIME GIRTH WELDER



Rotating Flux Dam and Welding Head

The adjustable rotating flux dam holds the flux in the weld joint and conveyors the flux to the heavy duty flux recovery vacuum. The flux dam can be adjusted both vertically and horizontally for easy positioning of the flux belt. The welding head has a fine adjustment vertical and horizontal cross slides that gives 4" x 6" (102 x 152 mm) of adjustment. A laser pointer mounted on the welding head permits for simple positioning of the welding wire.

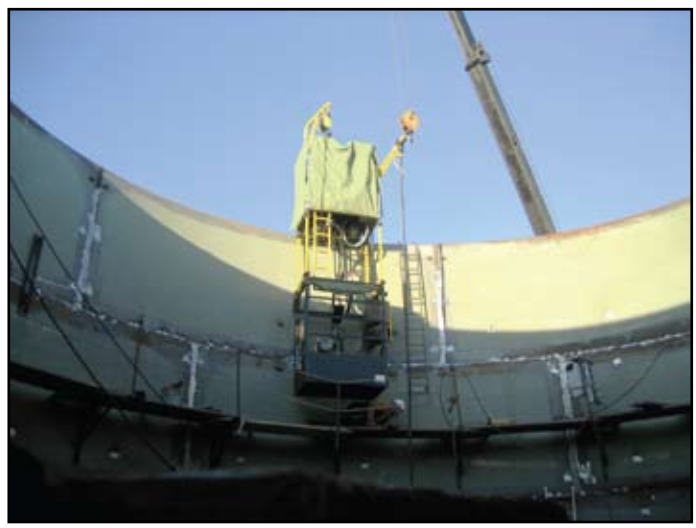
Lincoln Welding Equipment and Power Source Storage

The BGW series comes complete with SAW equipment by Lincoln Electric. The DC-600 with NA-3 controls and NA-3 feeders come standard on all models. Optional power sources and feeder combination are available. The power source is stored in a weather proof container for protection. A single power input supplies electrical power to all the components of the system. The complete BGW series comes complete with 200' (61 m) of control cable and welding leads with a guide on the machine itself to keep the cable away from the plate.



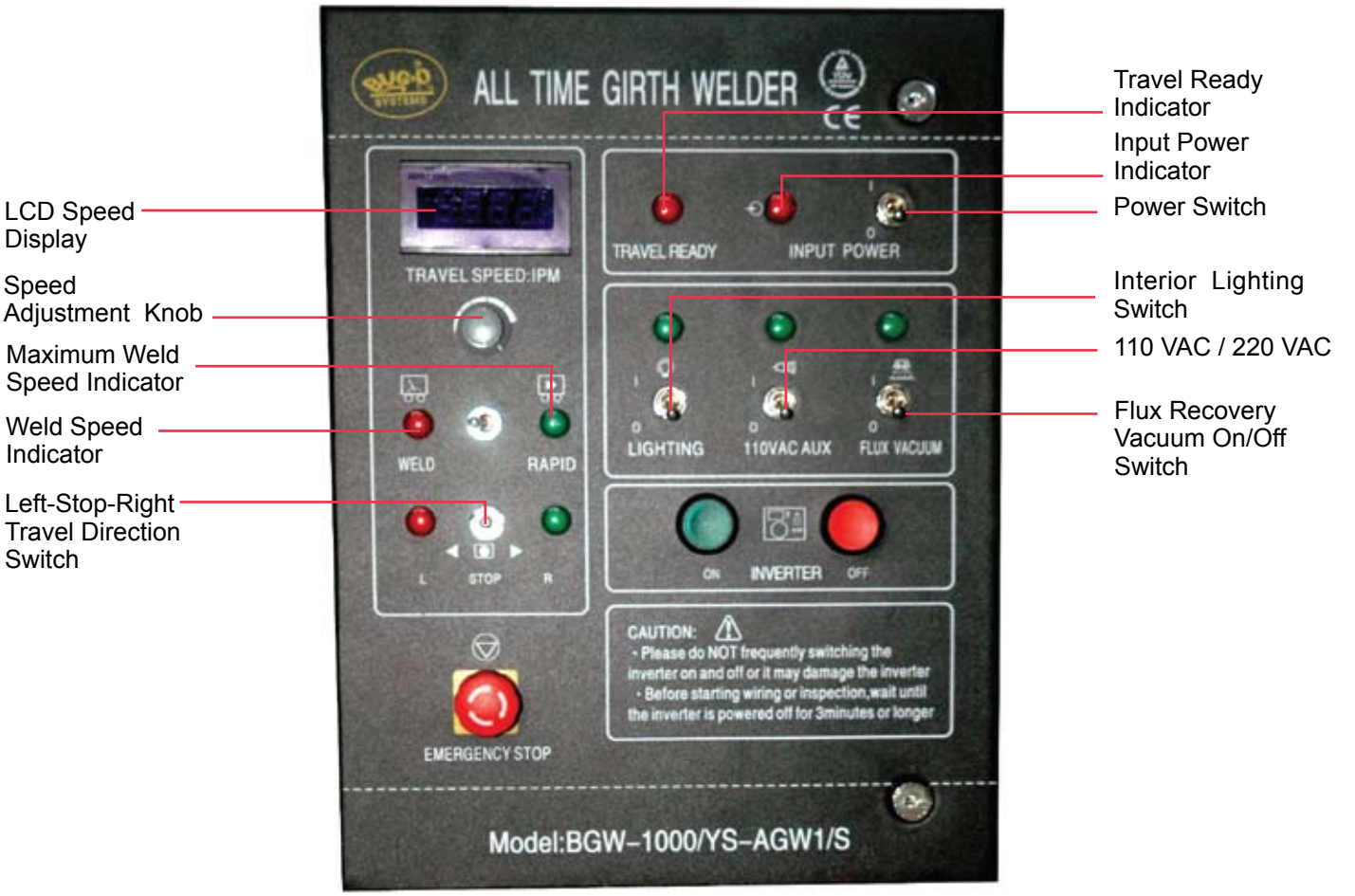
Environmental Features

A series of fireproof and weather tight canvas covers provide protection for the operator. All models also include interior lighting and a spot light for the Flux Belt. Under the seat is the convenience of a storage area for wire spools, tools, or whatever the operator may need.



BUG-O ALL TIME GIRTH WELDER

Girth Welder Control Panel



Model	Application	Tank Diameter	Welding Thickness	Travel Speed	Min. - Max. Shell Plate Height	Wire	Approx. Weight
BGW-1000 Single Side Weld	Conventional Storage Tanks	Min. 15' (4.5m)	5/16"-1 9/16" (8-40mm)	4-114 ipm (100-2900 mm/min)	6'-10' (1.8 - 3.0 m)	3/32" (2.4mm)	2,094 lbs. 950 kg
BGW-2000 Double Side Weld						1/8" (3.2mm)	3,968 lbs. 1800 kg
BGW-1000-LNG Single Side Weld	Double Shell Cryogenic Storage Tanks				7'-13' (2-4 m)	2 x 1/16" (2 x 1.6mm)	1,984 lbs. 900 kg
BGW-1000-D Single Side Weld	Top Down Constructed Storage Tanks				6'-10' (1.8-3.0m)	(Tinytwin Arc)	2,425 lbs 1100 kg

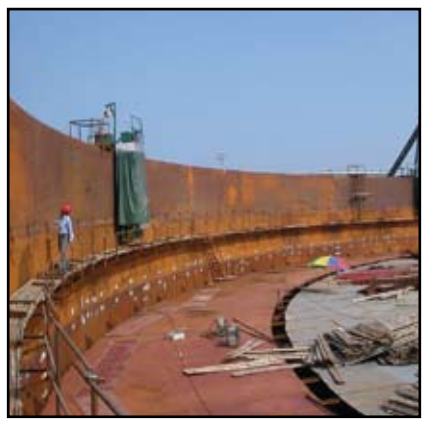
BUG-O ALL TIME GIRTH WELDER

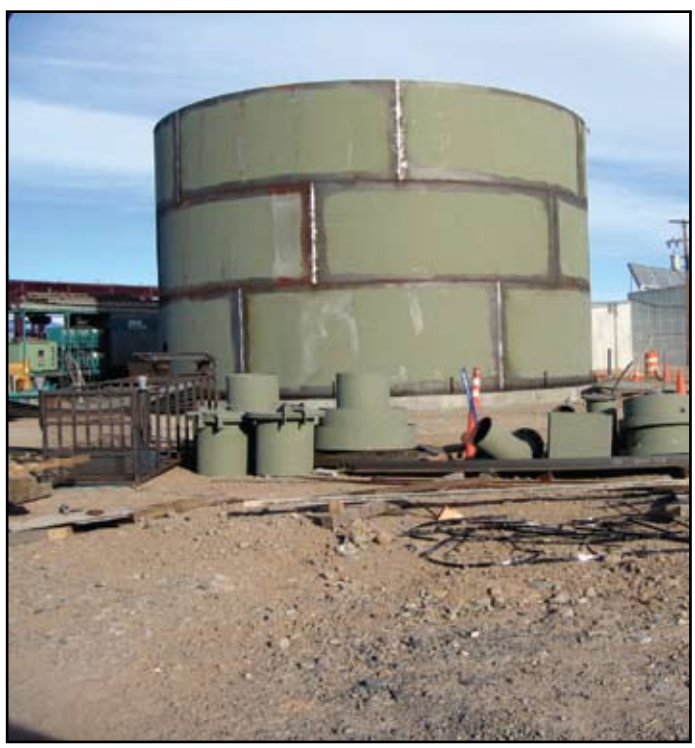
Girth Welder Application Photos











MDS WEAVER AND VERTICAL WELDER

Modular Drive System

The Modular Drive System helps to make the vertical seam welds with increased precision and repeatability. By incorporating the Linear Weaver, the Bug-o Modular Drive System can help to increase your overall fabrication productivity.

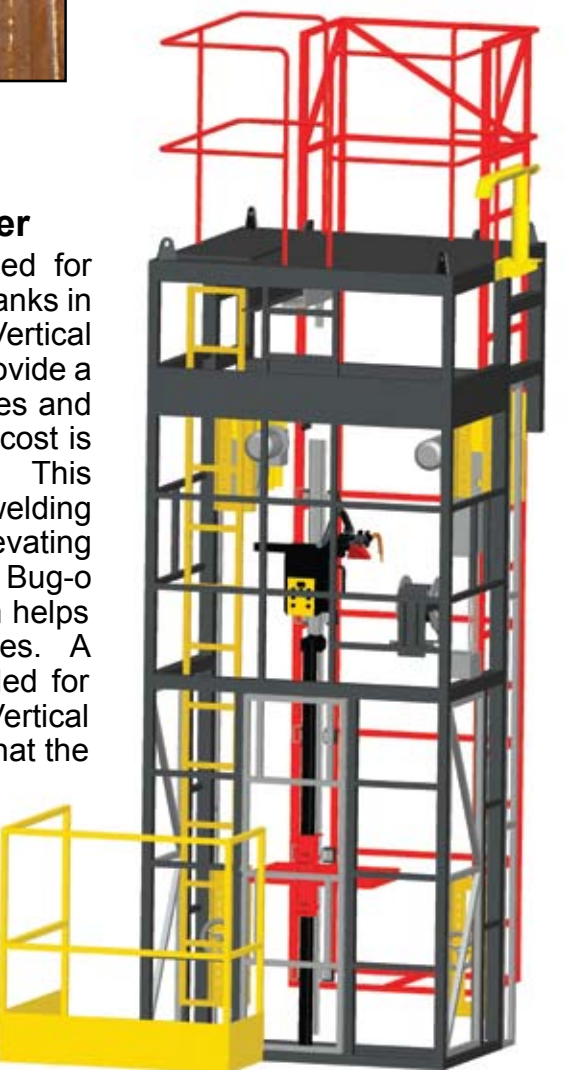
For more detailed information please see our Modular Drive Weaver Brochure.





BVW-1000 Multi Pass Vertical Welder

The BVW-1000 Vertical Welder is designed for welding the vertical seams on field storage tanks in an enclosed environment. The frame of the Vertical Welder is covered by Aluminum panels to provide a weather tight seal. With the motorized drives and permanently mounted rails, setup time and cost is reduced between the vertical weld seams. This unit is designed to run on any wire feeder/welding power supply combination. A powered elevating platform allows the operator to follow the Bug-o drive carriage up the seam. An exhaust fan helps to keep the interior free from welding fumes. A Lincoln Electric fume extractor can be added for additional fume removal. The BVW-1000 Vertical Welder utilizes many of the same features that the Bug-o Girth Welder BGW Series has; dual drive motors, welding power supply storage container and tool box.



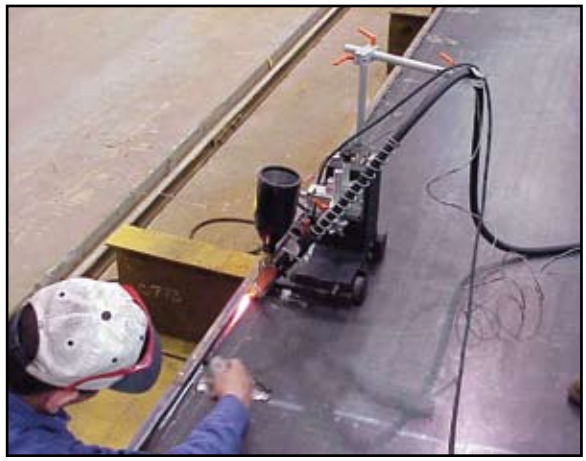
BUG-GY AND BUG-GY-VERT

Buggy

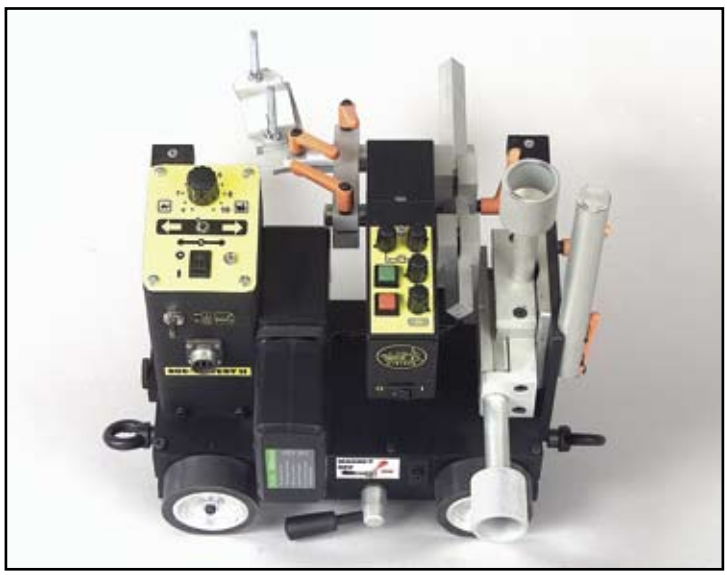
The BUG-GY Fillet Welder is designed for making continuous or intermittent stitch welds on fillet, lap or butt joints. It is a lightweight portable carriage that uses powerful magnets and guide wheels to clamp and track on the work piece.

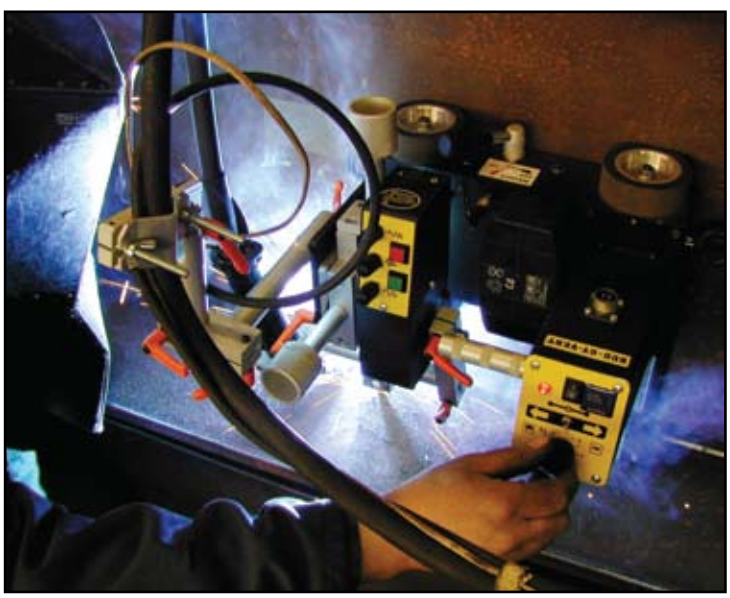
AFW-3000 120 Volt
AFW-3002 240 Volt





For more detailed information please see our Bug-gy Brochure.





Bug-gy-vert

The BUG-GY-VERT is a portable battery powered 4-wheel drive welding carriage with or without torch oscillation. Strong permanent magnets hold the machine on the workpiece allowing it to travel on vertical or oblique work surfaces.

With Oscillation:
VFW-3150 110 Volt
(includes battery and charger)
VFW-3152 220 Volt
(includes battery and charger)

Without Oscillation:
VFW-3000 110 Volt
(includes battery and charger)
VFW-3000 220 Volt
(includes battery and charger)

For more detailed information please see our Bug-gy-vert Brochure.

The Base welds on a tank can easily be made with either the Buggy or Buggy-vert. The Buggy and Buggy-vert fillet welders will self guide off of the bottom course of the tank, providing a uniform weld for the entire circumference. If there is not enough space to run the Buggy on the base plate, the Buggy-vert can be mounted to the tank itself as long as the tank is over 25' (8 m) diameter. An optional submerged arc gun and auxiliary magnets are available if necessary.

GO-FER III

Go-fer III

The straight line Go-fer III can be used to cut, bevel and weld the floor plates. The Go-fer's low cost and high reliability make it a great fit for many tank fabrication applications including repair work.

GOF-3250 **120 Volt**
GOF-3252 **240 Volt**

For more detailed information please see our Go-fer III Brochure.









BUG-O SYSTEMS

Six Advantages of Automating Your Welding and Cutting Applications:

1) Increase Production
2) Increase Quality
3) Reduce Material Handling
4) Reduce Distortion
5) Improve Workers' Environment
6) Adapts to Your Application

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