# GTAW AUTOMATIC WELDING SYSTEM

## Fast. Accurate. Time-saving.

The Lonestar automated welding system is trusted around the world to provide fast and accurate welding.

# TECHNICAL SPECIFICATION

- Dual Head Orbital Welder
- Pipe Size Range : 4" (102mm) to infinite
- Travel Speed Range : 0"–200" (5m) / min
- Oscillation Speed Range : 0"–138" (350 cm) / min
- Vertical Movement Range : 2" (51 mm) motorized
- Horizontal Movement Range : 2˜ (51mm) motorized
- Head Angle Range : 26 deg (13–0–13) motorized
- Oscillation Dwell Range: 0 to 1 sec
- Position Measurement Range: 360 deg with 0.1deg precision

**ORBITAL WELDER:**

- Weight: 26 lbs (12Kg) + wire spool
- Length: 12.00" (30.4cm), Width: 10..00" (24.5cm)
- Height: 10.00" (24.5cm)
- Operating Temperatures: −45 to +50 deg C
- Clearance Required < 40 cm
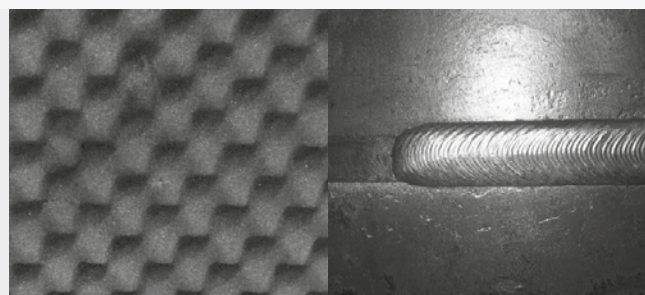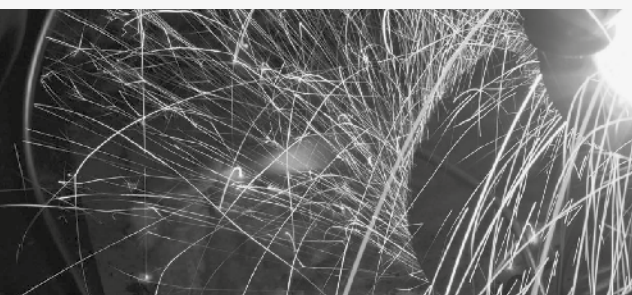
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There is no requirement to look elsewhere for a GTAW pipeline welding system. We have complete control of the welding power source during operation in all welding positions. Our pre-set program settings change with the digital inclinometers position on pipe.

Simple terms, the bug knows where it is on the pipe when welding overhead or downhand and changes the volts, wire speeds, head angle, travel speeds, and all other parameters automatically. Unbelievable.

## THERE IS NO OTHER BUG AVAILABLE THAT CAN PROVIDE:

1) No automation interface box. Lonestar has its own built in interface box included with wire feeder. This allows our welding system to become portable, useful for gas plants, confined spaces, and any other hard to access area. The interface box is crucial for the bug to have control of welding power source and feed system. It also provides automatic power and control functions for the welding system. This GTAW automation is optional but recomended.

2) Bluetooth and Wireless data connection. We can record every second of welding from up to 300metres away from welding on a remote PC. We can record this weld and allocate it to a join number and provide as a report. We can allocate a welders name and weld identification from this remote location. We can download the welding program in 5 seconds from this remote location if required. These are all Quality control features to assist during and after procedure and welder qualification process. Your client will enjoy this function more than the contractor.

3) Verifiable repeatability. Because the bug has control of the weld settings and bug parameters in all different positions of the pipe, the operator has little to no control while welding in fully automatic mode. In semi-automatic mode, the operator has partial control to a set percentage allowance, sometimes crucial with bad fit-up or inconsistent manual weld deposits.

4) 2 welding power sources to select with Auto-tig. This machine is provided with 2 compatible welding power sources and wire feed systems. Please allow us to help assist with which power source is best for  your welding needs.