EZ ORBITAL

517

ORBITAL WELD HEADS FOR FUSION WELDING OF TUBE

Magnatech introduces an innovative solution to orbital tube welding with its modular EZ Orbital welding systems. The model 517 is a tube welding controller that integrates the operation of a standard, commercial GTAW power source with the weld head. The new line of weld heads, the 1000 series, with digital control of rotation speed regulation, ensuring perfect repeatability.

Features

WELDING CONTROLLER
- Full color, touch screen operation
- Intuitive symbol-based operation
- Real time head temperature monitoring and over temperature alert
- Visual display of welding cycle
- Simple % adjustment of preset welding parameters
- Diagnostic fault detection system (gas purge, weld head jam, etc)
- Software updates and upgrades available by internet download via USB interface
- Compact and lightweight controller built into waterproof rugged case

WELD HEADS
- Digital rotation motor ensures 100% repeatable speed regulation
- Easy access collet clamp adjustment – optimal grip without deformation
- Flip top viewing port – accurate pre-weld fit up inspection
- Molded silicone switch panel on weld head handle – eliminates need for remote pendant
- Indestructible SS hinge provides rigidity for positive tube alignment
- Collets for all tube sizes/fitting geometries
- Internal water cooling standard – simply connect to a commercial water recirculator for high duty cycle applications

Accessories

- Extension cables allow use up to 12 m (40’) from power supply
- Pre-ground tungsten electrodes
- Waterproof carry case
- Bench mount bracket
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Tungsten Electrodes
Specifications

- Length x width x height: 330 x 420 x 170 mm (13 x 16.5 x 6.8”)
- Weight: 6 kg (13 lbs)
- Power supply capability: Consult factory for suitable models
- Input power requirements:
  - 90/240 VAC, 1 Ø, 0.5 A fuse, 50/60 Hz
- Units of measurement: Metric and inch (selectable)
- Operating temperature: -18 to 50˚ C (0 to 120˚ F)
- Storage temperature: -25 to 60˚C (-20 to 140˚ F)
- Humidity: To 98% RH (non-condensing)
- Power source: Conventional tig
- Weldhead: 1030
- Pipe (tube) size: 25 - 75 mm (1.0/3.0”)

Dimensions/weights

<table>
<thead>
<tr>
<th>Head Model 1030</th>
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<tbody>
<tr>
<td>Tube Diameter Range</td>
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<tr>
<td>Weight</td>
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 HOW EASY IS EZ ORBITAL? 

The model 517 Controller has an intuitive symbol-based touch-screen user interface. Operation involves selecting a tube size and wall thickness and pressing the Start Weld switch on the Head. The operator can adjust amperage by a percentage override to accommodate tube lot variation.

1 From Start Up Display 2 Select (Input) Tube O.D. 3 Select Wall Thickness 4 Press Start Weld 5 ...For a perfect weld every time
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1 Distance from nearest flush collet face to tungsten centerline. [Tungsten offset from center]

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