

MAGNATECH

ORBITAL WELDING SYSTEMS

EZ ORBITAL SYSTEM

**Model 517 Controller with
1000 Series Weld Heads**

**Orbital Weld Heads
for Fusion Welding of Tube**



EZ Orbital System

Orbital Weld Heads for Fusion Welding of Tubes

Affordable Technology

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.

Finally: an affordable tube welding system for sanitary/hygienic tube welding - a tool that should be in every welder's toolbox.

Accessories

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



Over-Center Clamping uses Solid Collets – Never Need Replacement*

- Flush collets for minimal axial clamping length
- Extended collets for maximum alignment capability



Flush



Extended

How Easy is EZ Orbital?

The Model 517 Controller has an intuitive symbol-based touchscreen 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.

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



Welding 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



3 Select Wall Thickness



4 Press Start Weld



5 ...For a perfect weld every time

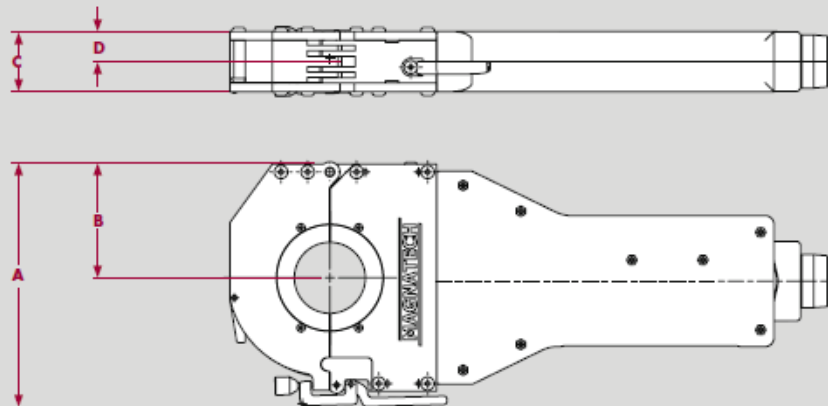
Specifications Controller

Length x Width x Height	33 x 42 x 17 cm (13 x 16.5 x 6.8")
Weight	6 kgs (13 lb)
Power Supply Capability	Consult factory for suitable models
Input Power Requirements	90/240 VAC, 1Ø, 0.5 A fuse, 50/60 Hz
Unites 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)

Dimensions/Weight Head

	Model 1030
Tube Diameter Range	25–75mm (1.0–3.0")
Weight	6.4 kgs (14 lbs.)
"A"	202mm (7.96")
"B"	96mm (3.79")
"C"	43mm (1.70")
"D" ¹	19.5mm (.77")
Cable Length	4.6m (15') Standard. Extension cables available.

¹ Distance from nearest flush collet face to tungsten centerline. (Tungsten offset from center)



Represented By:

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