

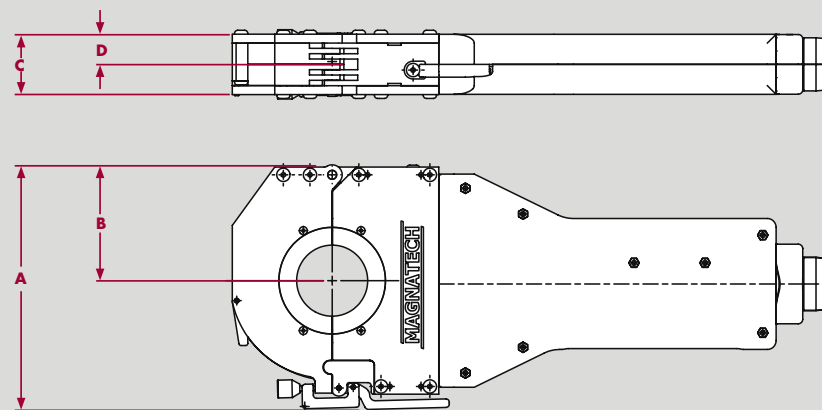
### Specifications Controller

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" <sup>1</sup>	19.5mm (.77")
Cable Length	4.6m (15') Standard. Extension cables available.

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



### EZ ORBITAL SYSTEM Model 517 Controller with 1000 Series Weld Heads

Orbital Weld Heads  
for Fusion Welding of Tube



Represented By:

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# 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

### 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



### 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.



3 Select Wall Thickness



4 Press Start Weld



5 ...For a perfect weld every time