



**Computer Weld
Technology, Inc.**

WOC-500™

WELD OSCILLATOR CONTROL

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Computer Weld Technology's Weld Oscillator Control (WOC-500™) is a compact, lightweight, weld torch manipulation control system comprised of the microcontroller based Weld Oscillator Control and a stepper motor driven Pendulum Oscillator or Linear Slide Assemblies. These systems are capable of providing independent control of all torch movements in the horizontal plane



WOC-500 with Linear Slide

WOC-500 with Pendulum Oscillator

The WOC-500™ provides the capacity to control "Centerline" Position", "Oscillation Width", "Oscillation Velocity", and "Left and Right Dwell". The system supplies the user with an easily accessible external interface for remote control functions.

FEATURES

- Accurate positioning
- Stepper motor driven
- External interface capability
- Compact lightweight design
- Convenient flexible mounting

BENEFITS

- Provides repeatable positioning for critical applications
- Low maintenance cost
- Permits remote control of oscillator and easy interface with peripheral devices
- Usable in confined areas
- Can be mounted in-line or at 90 degrees
- Pendulum or linear oscillation of welding arc

WOC-500™ SPECIFICATIONS

The micro controller based “Weld Oscillator Control System” is a rugged, affordable piece of equipment, capable of accuracy and repeatability. It is comprised of two major components.

The first is the “WOC-500™” control which permits the user to independently regulate the following functions from either the front panel of the control box or the external interface.

Front Panel	Remote
ON/OFF	ON/OFF
Jog (CW & CCW)	Jog (CW & CCW)
Oscillation Width	
Oscillation Velocity	
Dwell (Left & Right)	Control Reset

Employing the external interface permits remote control of the oscillator functions and gives convenient electronic access to peripheral equipment.

The second component is the pendulum type oscillator or the linear slide. Both are stepper motor driven which provides high reliability and low maintenance costs. The pendulum oscillator can be installed in-line or at 90 degrees. The compact configuration makes it suitable for confined spaces as well. The linear slide can be installed at almost position and the slim line design makes the slide ideal for both manual and automated applications.

MECHANICAL SPECIFICATIONS

WOC-500™ WELD OSCILLATOR CONTROL	
Dimensions	6.62”H x 4.12”W x 8.75”L (168mm x 105mm x 222mm)
Weight	5.5 lbs (2.5kg)
Power Requirement	115/220 vac 50/60 Hz @ 220 va
Dwell Time	0.02 to 2.0 seconds (right and left)
Velocity	0.24° to 60° / seconds
Width	± 0.06° to 15°

PENDULUM OSCILLATOR	
Dimensions	4.5” H x 3.375” W x 4” L (114.3mm x 85.7mm x 102mm)
Weight	3.5 lbs (1.6 kg)

HEAVY DUTY SLIDE	
Dimensions	17.08”H x 5.00”W x 2.63”D (434mm X 127mm x 67mm)
Max Travel	7.25” (184mm)
Weight	9-1/2 lbs (4.32kg)
Velocity	0.2 – 1.5 inch/sec
Weight Capacity	45 lbs @ 3” from slide face

Note: Specifications subject to change without notice.