

## ■ OSC-8 | PENDULUM WEAVE WELDER

The OSC 8 pendulum oscillator is designed to oscillate MIG/MAG torches with the diameter of 16–22 mm (5/8–7/8”).

The oscillator is installed onto a 22 mm (7/8”) diameter rod and connected to a welding device.

It can be controlled manually or by using an external START-STOP switch.

Using an optional freestanding support allows welding of rotating pipes or moving plates. An optional power supply allows connecting the oscillator to a 230 V or 115V power source.

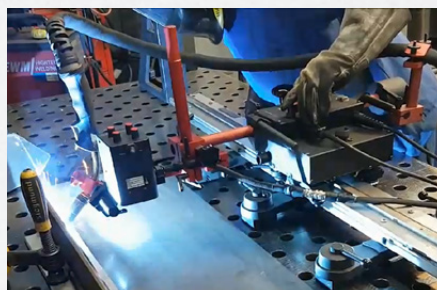
OSC-8 is suitable for MIG/MAG automate processes in heavy fabrication industries such as: pipeline and bridge construction, shipbuilding and tank welding.

### ■ Features & Benefits:

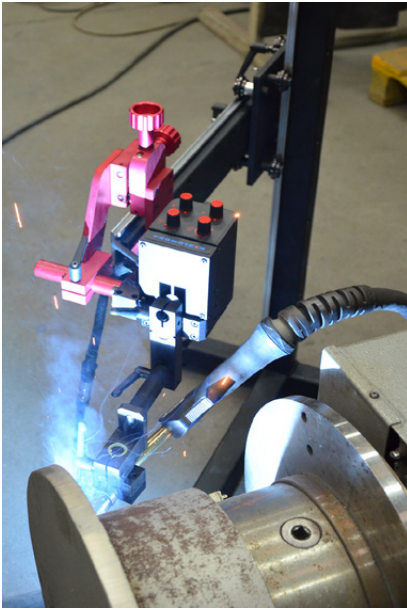
- lightweight and compact design
- two control modes: manual and external start
- four adjustable parameters (oscillation width, oscillation speed, oscillation dwell time on ends)
- simple control panel (four knobs)
- can work as stand-alone device or be a part of more advanced welding system
- optimal solution for various welding applications
- real improvement of the welding process
- uniform and high quality welding
- supply voltage 14-24 V (direct connection to the welding tractor or an external automation system)
- optional power supply 115 VAC or 230 VAC



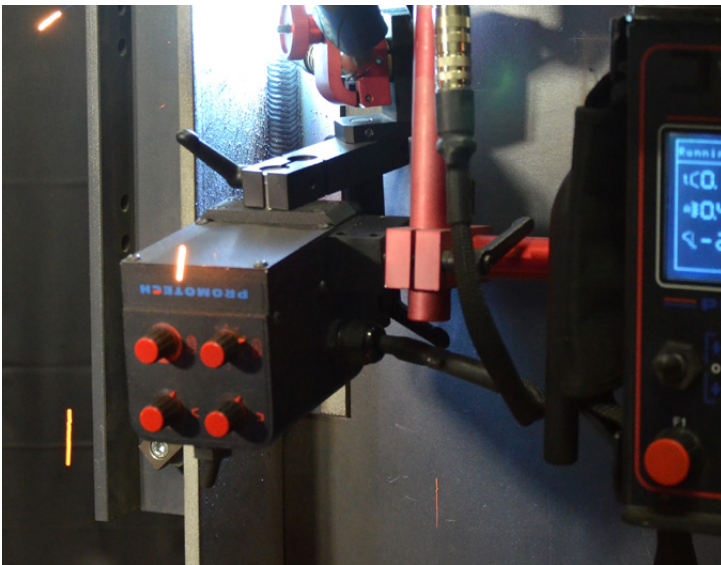
OSC-8 can work either as stand-alone Pendulum Weave Welder or along with freestanding support or along with welding tractors.



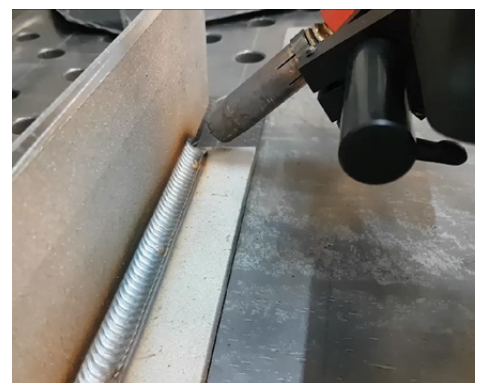
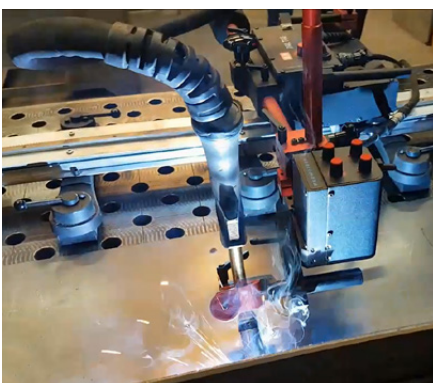
■ OSC-8 along with Freestanding Support



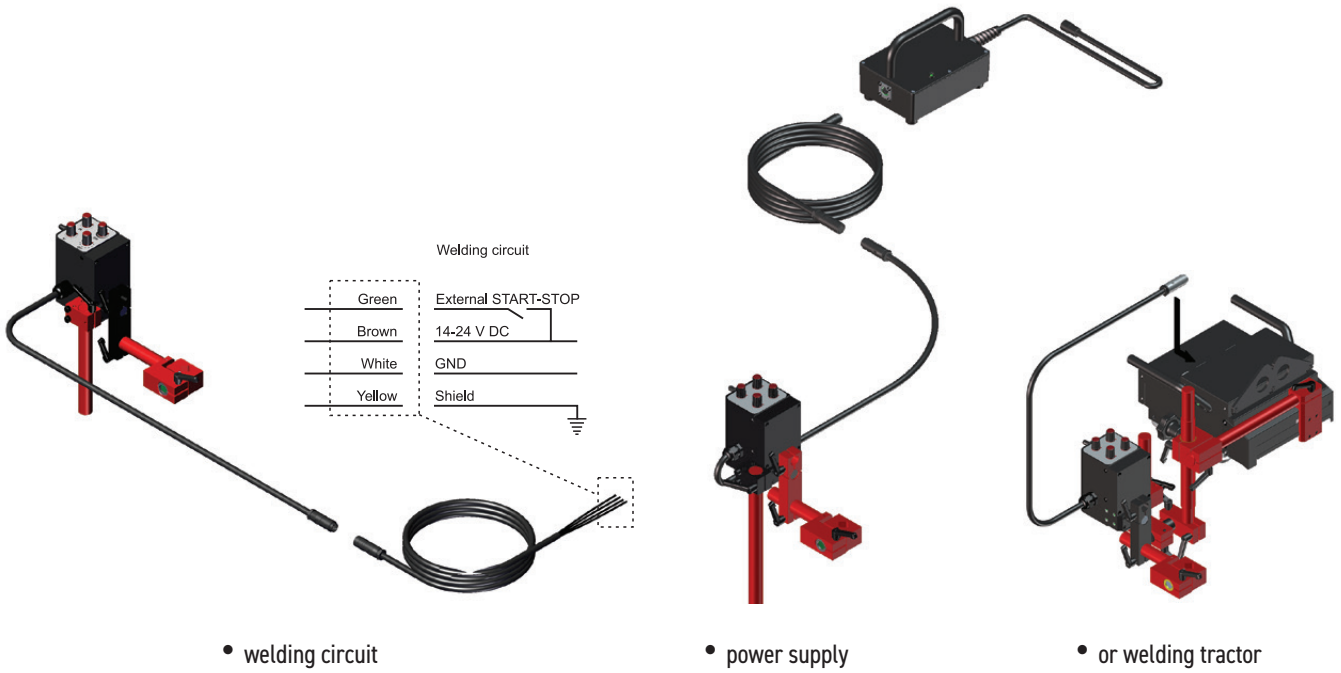
■ OSC-8 along with Rail Titan tractor



■ OSC-8 along with Rail Tug tractor



Depending on welding system configuration in use the oscillator can work in either manual or external start mode and be connected to:

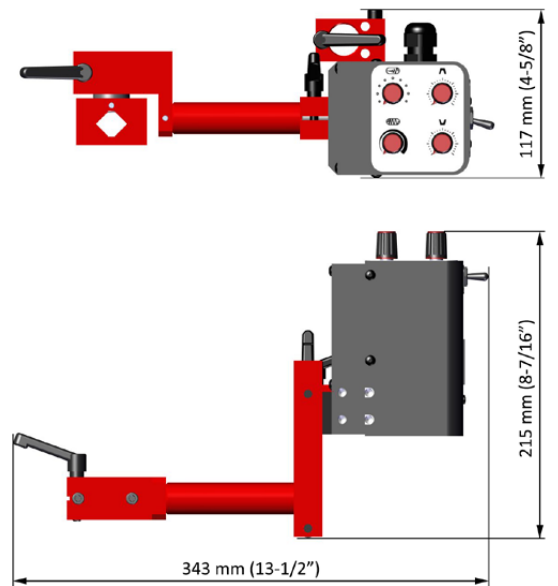


• welding circuit

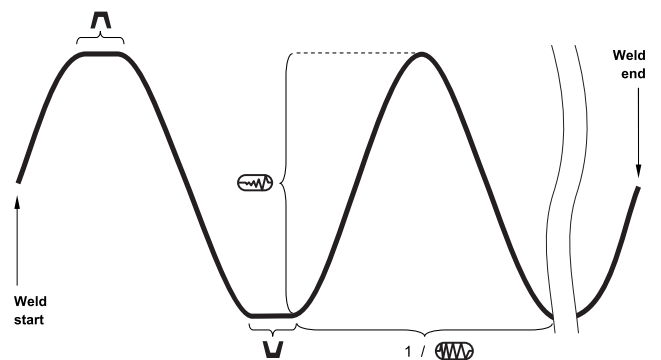
• power supply

• or welding tractor

| OSC-8 TECHNICAL SPECIFICATION  |   |
|--|---|
| Voltage  | 14-24 V DC                                |
| Power  | 50 W                                      |
| Torch type   | MIG/MAG                                   |
| Torch diameter   | 16-22 mm (5/8-7/8")                       |
| Oscillation type   | Pendulum                                  |
| Oscillation width at r=150 mm (6")   | 1-30 mm (1-100%)<br>1/32-1-3/16" (1-100%) |
| Oscillation speed at oscillation width of 10 mm (3/8") and zero dwell time on ends | 12-115 cycles/min (1-100%)                |
| Oscillation dwell time on ends   | 0-3 s                                     |
| Maximum torque   | 8 N·m (5.7 lb·ft)                         |
| Required ambient temperature   | 0-50°C (32-122°F)                         |
| Weight   | 2 kg (4 lbs)                              |
| Product code:  | OSC-0497-10-00-00-0                       |



| Parameter | Value  | Description                                   |
|-----------|--------|---|
|           | 0-100% | Oscillation width                             |
|           | 0-100% | Oscillation speed                             |
|           | 0-3 s  | Oscillation dwell time in the top position    |
|           | 0-3 s  | Oscillation dwell time in the bottom position |



## Optional equipment:

Power Supply (to be chosen from available voltage versions)

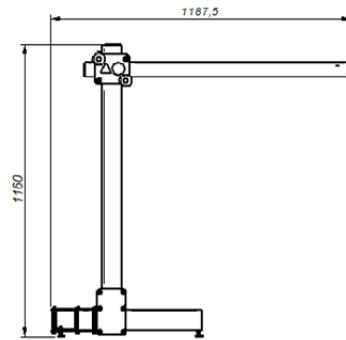
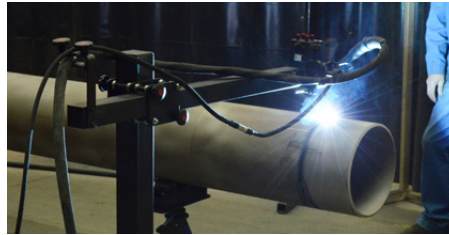
- Product codes:

- ZSL-0497-16-00-00-0 (230 V CEE)
- ZSL-0497-16-00-01-0 (115 V USA)
- ZSL-0497-16-00-02-0 (230 V AU)
- ZSL-0497-16-00-03-0 (230 V UK, type G)
- ZSL-0497-16-00-04-0 (230 V IN, type D)



## MINI C&B type PRO-WA 1X1

- Holds the oscillator to allow oscillation welding of rotating pipes or moving plates
- Product code: STJ-0709-10-00-00-0



| MINI C&B type PRO-WA 1X1                           |         |
|--|---------|
| Height   | 1160 mm |
| Length   | 1188 mm |
| Width  | 500 mm  |
| Vertical movement range                            | 810 mm  |
| Horizontal movement range                          | 815 mm  |
| Maximum load with full extension of horizontal arm | 7 kg    |

## Rail Titan accessories:



Rod 203 mm  
KLM-0236-00-16-00-0



Clamping block  
KST-0525-11-00-00-0

## Standard shipping set:

- Oscillator - 1 unit
- 2 m (6.5 ft) power cord - 1 unit
- Low rod torch holder with clip - 1 unit
- Oscillator arm - 1 unit
- Clamping block - 1 unit
- M6x40 screw - 2 units
- 80 mm (3") rod - 1 unit
- 5 mm hex wrench - 1 unit
- Operator's Manual - 1 unit



More information at [www.promotech.eu](http://www.promotech.eu)



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