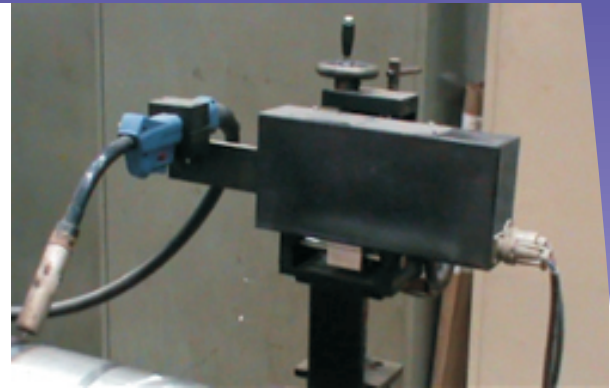


WELDING OSCILLATOR



DIGITAL OSCILLATOR

Weld Arc Weaver, commonly known as Welding Oscillator is the mechanism to simulate the condition of Weld Arc Weaving as done by hand by an expert welder.

The motorized mechanism weaves the welding arc through Left / Right direction as an oscillatory movement over the weld surface.

Highly regulated oscillatory movement of an arc ensures controlled spread of Arc Heat over the weld surface resulting uniform flow of weld pool due to smooth, uniform, stable & precise movement of Welding torch. Convenience, especially when a filler is used in the weld pool, is the main purpose of the oscillator which ensures uniform spread of weld globules. Controlled & regulated spread of Arc heat & Weld globules has a very distinctive advantage of excellent penetration at maximum Heat Utility efficiency. This also ensures reduction in the Heat Affected Zone, High Weld Metal deposit efficiency, Highly uniform Weld beads. Suitable for processes convenient to automate like TIG, MIG, SAW, FCAW, Plasma Welding or Cladding processes like PTA or Powder Plasma Welding.

Key Advantages are,

- Significant improvement in Welding or Cladding process
- Increased productivity with ease of operation for Multi-pass welding
- Overall improvement in sidewall fusion & undercut.
- High weld quality, uniformity & appearance.

STANDARD SPECIFICATIONS (As per Controller)

Stroke width	: 0 – 25mm in steps of 0.2mm
Stroke speed	: 0 – 3000 mm per minute in steps of 5mm
Number of Strokes	: 0 – 60 per minute in steps of 0.1 stroke
Left dwell	: 0 – 9.9 seconds in steps of 0.1 seconds
Right dwell	: 0 – 9.9 seconds in steps of 0.1 seconds

STANDARD FEATURES Mechanism

- Very precise Ball screw mechanism.
- Fully enclosed to avoid ingress of fine particles, heat etc.
- Stepper motor driven for easy controllability.
- Stroke width of 0 to 50mm (Higher width available on request)
- Full digital control with easy programmability of parameters.

Welding Automation Range of Products: • Welding Gun • Oscillator (weld weaver) • Cold wire feeders • Seam trackers • AVC • Cameras and video displays • X-Y slides (manual and motorized) • Welding turntables • Welding positioners • Welding Turning Rolls • Welding lathes • Column and boom (manipulators)

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Note : Specifications subject to change without notice