

Weld Oscillator and Motorized Cross Slides

Index No. AU/6.0
Issued Dec. 1999



Processes



MIG (GMAW) and Pulsed MIG (GMAW-P) Welding



Adaptive Pulsed MIG (GMAW-P) Welding



Flux Cored (FCAW) Welding



Mechanical Weld Oscillator

Mechanical Weld Oscillator

The Weld Oscillator is a productivity-enhancing solution for high-deposition welding. It provides side-to-side motion of the welding gun to produce a programmed weave. Solid-state circuitry provides reliable, precise adjustments. Use it on a wide variety of mechanical devices: side beam, seamer, manipulators and custom motion devices. This oscillator is an economical solution to applications that require deposition and productivity, and can be added to existing systems.

Applications

- Construction
- Fabrication

Capabilities

- Separate speed adjustment in either direction
- Separate adjustable dwell times at both ends of travel
- Adjustable center position $\pm 1\text{-}1/2$ in (38 mm)
- Adjustable width $1/8\text{--}5$ in (3.2–127 mm)
- Automatic return to center at stop
- Remote start/stop capability
- Always starts in the same direction
- A setup function automatically sets the width to zero and activates the center position control allowing the operator to precisely position the gun over the center of the weld joint
- Terminal strips provided for remote location of dwells, width, speeds and center position
- Built-in high-frequency protection

Weld Oscillator Specifications (Subject to change without notice.)

Input Power	Speed	Dwell	Total Slide Travel	Width	Center Adjustment	Dimensions	Control	Slide	Weight
115 VAC	16–30 IPM (0.41–0.76 MPM)	0.1–2 sec.	5 in (127 mm)	$1/8\text{--}1\text{-}1/2$ in (3.2–38 mm)*	$\pm 1\text{-}1/2$ in (38 mm)	Height: Oscillation Width: Depth:	9-1/4 in (234 mm) 11 in (279 mm) 9-1/2 in (241 mm)	14-3/8 in (365 mm) 14 in (355 mm) 5 in (127 mm)	Control: 27 lb (12 kg) Slide: 28 lb (13 kg)

*May be internally adjusted up to 5 in (127 mm). The oscillator comes complete with 10 ft (3 m) motor, control and power cords. Adapter plate (#045 623) required to attach the weld oscillator to the cross slide.

Processes



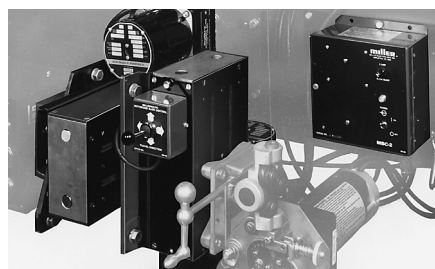
MIG (GMAW) and Pulsed MIG (GMAW-P) Welding



Adaptive Pulsed MIG (GMAW-P) Welding



Flux Cored (FCAW) Welding



MCS-2 Motorized Cross Slide

MCS-2 Motorized Cross Slide

The MCS-2 Motorized Cross Slide provides accurate weld head adjustment with convenient motorized control. It is used to align the welding head (gun) to the weld joint, by providing vertical or horizontal adjustments. Stack two slides when both vertical and horizontal adjustment are required. The joystick-type control allows both slides to move simultaneously or independently.

Cross Slide Specifications (Subject to change without notice.)

Input Power	Slide Load Capacity at 12 in (305 mm) from Slide Face Plate	Travel Speed	Total Slide Travel	Voltage at Motorized Slide Control	Weight
115 VAC	75 lb (34 kg)	18 IPM (0.46 MPM)	5 in (127 mm)	24 VAC	Net: 32 lb (14.5 kg) Ship: 45 lb (20.4 kg)

Ordering Information See back page.



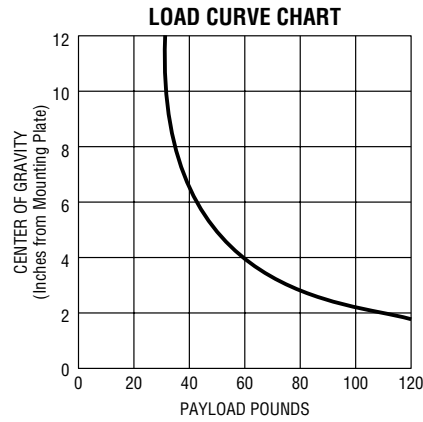
Miller Electric Mfg. Co.
An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

International Headquarters
Phone: 920-735-4505
USA FAX: 920-735-4134
Canadian FAX: 920-735-4169
International FAX: 920-735-4125

Web Site
www.MillerWelds.com



Performance Data



This graph represents recommended weight limits at various distances from the mounting plate.

Ordering Information and System Checklist

Equipment and Options	Stock No.	Description	Qty.	Price
Mechanical Weld Oscillator	#008 644			
Adapter Plate	#045 623	Required to attach the weld oscillator to cross slide		
MCS-2 Motorized Cross Slide	#089 970			
Control	#098 380			
Adapter Plate	#045 623	Required when using two slides		
Date:			Total Quoted Price:	



Distributed by: