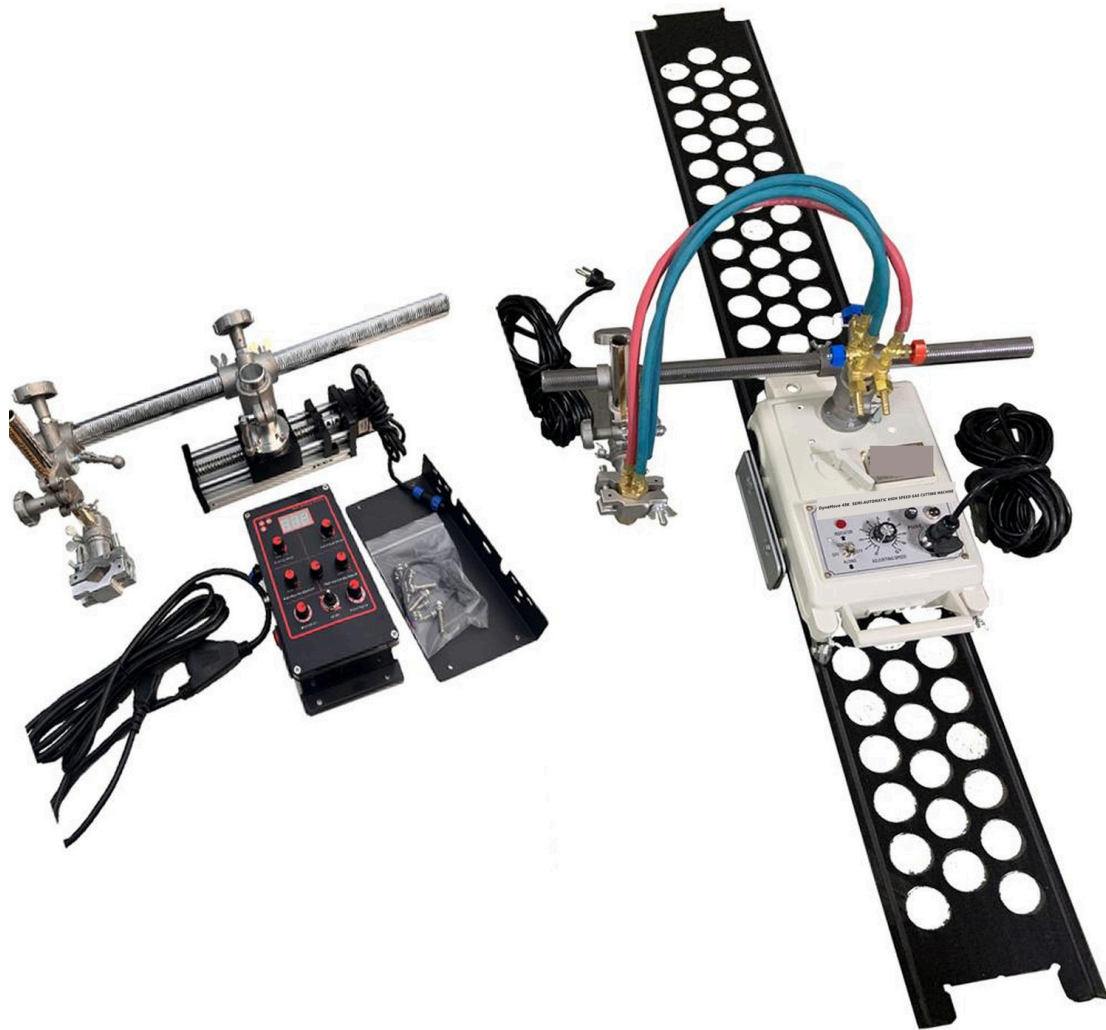


Combine a Gas Straight Line Cutter with an Oscillator

Combining a gas straight line cutter with an oscillator for MIG (Metal Inert Gas) welding requires a well-planned setup and integration of the components. While gas straight line cutters and oscillators are more commonly used for cutting and welding respectively, they can be adapted for MIG welding and flame cutting applications.



Gas Straight Line Cutter

A gas straight line cutter, also known as an oxy-fuel cutting machine or torch, uses a mixture of oxygen and a fuel gas (such as acetylene and propane) to

produce a high-temperature flame for cutting metal. It is designed to create straight, precise cuts in metal plates, pipes, or other workpieces.



Oscillator

A welding oscillator is a device that imparts controlled oscillating or reciprocating motion to the welding torch or electrode holder during the welding process. This motion can be linear, lateral, or circular. Welding oscillators are often used in automated welding setups to improve the quality and consistency of welds.



A General Outline of How You Can Combine a Gas Straight Line Cutter with an Oscillator for MIG Welding

Mount the Components:

Attach the gas straight line cutter (oxy-fuel torch) and the welding oscillator onto a common mounting platform or system. Ensure that both components are securely fixed.

Position the Workpiece:

Position the workpiece in a way that allows for precise cutting and welding. It should be securely clamped or held in place.

Gas Straight Line Cutting and MIG Welding:

Configure and program the gas straight line cutter to make the necessary cuts in the workpiece. The oscillator can control the torch's movement to create precise MIG welding.



Prepare for Welding:

Once the cutting is complete, prepare the edges of the cut pieces for welding. This may involve beveling or cleaning the edges to ensure proper weld penetration.

Configure MIG Welding Equipment:

Set up your MIG welding equipment, including the welding power supply, welding torch and gas supply. Ensure that connect with the correct voltage and shielding gas for the metal you're welding.

Integrate the Welding Torch:

Use universal holder to fix the welding torch with the gas cutting trolley to ensure that the gas straight line cutter and oscillator are on the same platform. The welding oscillator can control the torch's movement during the welding process.

Monitor and Adjust through Control Box of Welding Wobbler:

Use control box of wobbler to control the movement of the MIG welding torch. This includes adjusting the welding speed, swing amplitude, left stop time and right stop time(if needed). The maximum swing distance is 100mm.

Name	Parameter	Details
Swing Distance	1mm-100mm	Adjust the distance according to the real situation
Speed	0.5-20cycles/second	
Left Stop Time	0-1S	
Right Stop Time	0-1S	
Power	AC220V	



Welding Process:

Start the MIG welding process. The welding oscillator will ensure controlled and consistent movement of the torch along the weld joint. This can help in achieving uniform weld bead deposition.

Post-Welding Steps:

After completing the welding, inspect the weld for quality and make any necessary post-welding treatments or inspections.

Kind Reminder:

Remember that this setup requires careful planning, programming, and safety

considerations. Integrating different systems for cutting and welding can be complex, and it's essential to ensure that the components are synchronized and work together effectively. Additionally, proper safety measures and operator training are critical for safe and efficient operation.



DynaMove 45K

Gas Straight Line Cutting Trolley with Welding Oscillator

Cruxweld Industrial Equipments Pvt. Ltd.

5, Sector 29, Faridabad - 121008 (Haryana), India

Phone: +91 8800 882 983 | +91 (129) 489 2868

Email: sales@cruxweld.com | Service: support@cruxweld.com

www.cruxweld.com

Cruxweld improves its products continuously. The technical and hardware data in this manual may change without notice.

(c) Cruxweld Industrial Equipments Pvt. Ltd. All rights reserved.