



Prominent factors

- Compact, lightweight design
- Quick clamping torch holder mechanism
- Precise torch adjustment
- Vertical and horizontal welding capability
- Multifunctional LED display
- Multi-position guide rollers
- Versatile welding options
- Overhead welding capability
- Minimized filler metal waste
- Linear torch oscillator
- Rack and pinion drive mechanism
- Magnetic rigid rail track system
- Welding and travel occur simultaneously

DynaSwing 100K

Magnetic Oscillating Welding Carriage

Revolutionize your welding process with our magnetic oscillating carriage!



Model	DynaSwing 100K	
Supply voltage	AC220V, 50/60 Hz	
Swing motor	DC24V	
Travel speed	30 ~ 1100 mm/min	
Range of adjusting welding torch	Up and down	50 mm
	Front and rear	60 mm
	Range of working angle	±45°
	Range of adjusting angle	10°
Operation function	Choose walk direction	Left and right
	Swing speed	0~100
	Swing angle	±15°
	Adjust walk speed	0~130 cm/min
	Length of stay on left or right	0~2.5 s
	Set position of deviation	0~±8°
Choose swing model	Five	
Tracking mode	Rail	
Welding positions	Fillet welding, downward welding & vertical welding	
Oscillation path	trapezoid, triangle, straight line	
Torch diameter	16 – 22 mm	
Horizontal pulling force	350 N	
Vertical pulling force	150 N	
Drive system	Rack and pinion	
Dimension	440*290*300 mm	
Weight	8.5 kg	

Performance Enhancers

Oscillation function: The welding carriage is equipped with an oscillator that creates controlled side-to-side movement of the welding torch or electrode. This function helps to distribute the heat evenly, improve weld quality, and reduce the risk of defects such as undercut or lack of fusion.

Adjustable oscillation parameters: The oscillator typically allows for adjustment of parameters such as oscillation width, speed, and frequency. This flexibility enables customization of the oscillation pattern to suit specific welding requirements and joint configurations.

Permanent magnetic track: The permanent magnets in the track create a strong magnetic force that holds the track in place. The permanent magnets in the track also allow it to be used vertically. This is a great advantage for applications where the track must be installed in a vertical position.

Rack and pinion: The Rack and Pinion system is engineered to deliver steady and consistent motion for both vertical and horizontal welds. With its precision gear mechanism, it ensures smooth and controlled movement, providing optimal stability throughout the welding process.

Speed control: The welding carriage incorporates speed control mechanisms to adjust the travel speed of the carriage along the welding path. This feature ensures consistent and uniform welds, even in challenging welding positions or varying workpiece geometries.

Enhanced welding flexibility: Experience unmatched welding versatility with the Cruxweld DynaSwing 100K welding carriage. This cutting-edge device provides you with a range of different oscillation paths, including trapezoid, triangle, and straight line, offering incredible flexibility to enhance your welding process.

Multiple welding processes: Welding carriages with oscillator facilities are often compatible with various welding processes, such as MIG/MAG (Metal Inert Gas/Metal Active Gas), TIG (Tungsten Inert Gas), or submerged arc welding. This versatility enables the carriage to be used in a wide range of applications.

User-friendly digital interface: The welding carriage is equipped with intuitive digital controls and a display panel, enabling effortless adjustment of welding parameters, real-time monitoring of progress, and convenient access to settings and modes.

Minimize waste, maximize savings: The Cruxweld DynaSwing 100K Welding Carriage eliminates over welding, minimizing filler metal waste, and improving cost-effectiveness. By precisely controlling the welding process, it ensures optimal filler metal usage, making it an efficient choice for cost-conscious welding operations.

Enhanced operator safety and comfort: With the Cruxweld DynaSwing 100K Welding Carriage, operators are shielded from direct exposure to heat and fumes, ensuring their safety and creating a more pleasant work environment. By minimizing risks and discomfort, this carriage enhances productivity, concentration, and long-term well-being in welding operations.

The Cruxweld DynaSwing 100K is a versatile welding carriage that can be used in a variety of positions, including horizontal and vertical.



The DynaSwing 100K welding carriage includes: welding carriage, magnetic rail (2 m), power cord (16 m), hex wrench, fuse (2A), cross slide assembly, cable anchor, operator's manual.