CRUXWELD
www.cruxweld.com

Core Features

Trackless Motion
Operates smoothly without rails.

Welding Patterns
Linear, Zigzag, Triangular, Circular, Weaving.

Digital Control
Speed and angles displayed digitally.

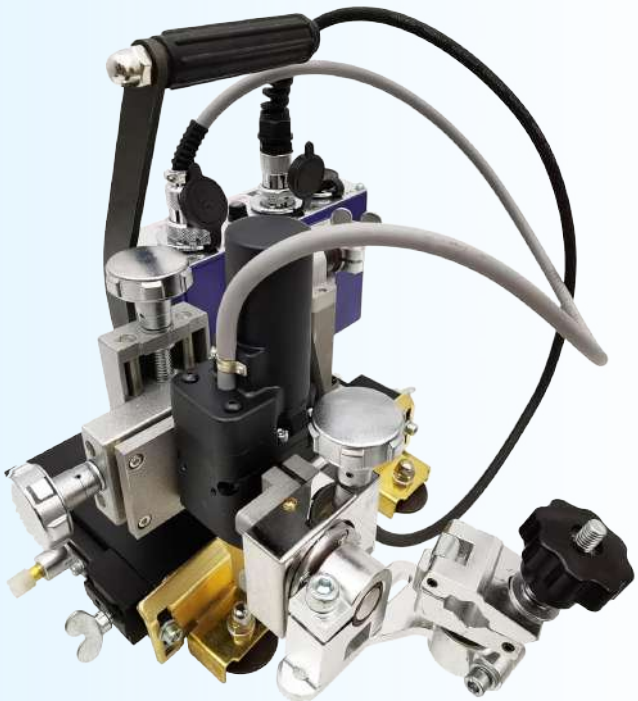
Auto-Stop
Inductive mechanism halts at weld end.

Remote Control
Detachable for easy operation.

Weavering **Automatic Welding Carriage** Effortless Welds.

Dynex 5M

Precision Meets Efficiency – Our advanced welding carriage ensures flawless, consistent welds with customizable oscillation, precise controls, and trackless mobility, perfect for professional-grade applications.



Automated Swing Functionality

Feature: Adjustable swing speed, angle, and center offset allow precise control of weld bead size and shape.

Advantage: Achieve consistent, high-quality welds with minimal manual intervention, reducing the risk of human error, defects, production downtime, and material wastage.

Adjustable Weld Patterns and Oscillation

Feature: Multiple welding patterns and oscillation modes can be selected based on the job's requirements. Oscillation guides the welding torch to follow the desired path seamlessly.

Advantage: Allows precise customization of weld patterns for different joint configurations, ensuring optimal penetration and bead quality. Whether you need a straight weld, zigzag, triangular, or other patterns, this feature guarantees adaptability to all project needs.

Specification	Details
Model	Dynex 5M
Voltage	110V, 50/60Hz
Power	17W
Welding speed	150–2000 mm/min
Working angle adjustment	±45°
Proceeding angle	10°
Torch adjustment	60 mm (up, down, forward, backward)
Left/Right pause time	0–2.5 seconds
Oscillating motor	Brushed motor
Swing speed	Adjustable (0–100 scale)
Swing angle	±15°
Deviation setting	0–±8°
Oscillation precision	±0.1 mm
Torch clamp diameter	16–50 mm
Driving mechanism	Four-wheel drive
Selectable welding patterns	Linear (Straight Line), Zigzag, Triangular, Circular, Weaving
Environmental protection	IP54-rated (dust and water-resistant)
Inductive stop mechanism	Auto-stop at weld path end
Remote operation	Detachable control unit
Trackless operation	Smooth motion without tracks or rails
Dimensions (L × W × H)	59 × 38 × 41 cm
Gross weight	16.5 kg

Selectable Welding Patterns

Pattern	Description
Linear	Straight-line welding for uniform seams.
Zigzag	Side-to-side oscillation to create wider weld beads, ideal for fillet welds and thicker materials.
Triangular	Produces strong, deep weld penetration, suitable for structural welding.
Circular	Ideal for welding pipes and curved surfaces, ensuring smooth and consistent welds.
Weaving	Wave-like oscillation, perfect for wide seams or overlapping welds.

Versatile Welding Applications

Feature: Suitable for fillet welding, vertical, horizontal, and multi-positional welding.

Advantage: Perfect for various structures like stiffened plates, ribbed plates, tank fillets, and steel beams, making it a versatile tool for industries like shipbuilding, bridges, and petrochemicals.

Enhanced Precision with Oscillation

Feature: The oscillation mechanism allows smooth, even weld patterns.

Advantage: Create wider and more consistent welds, ideal for applications requiring high accuracy and aesthetics.

Magnetic Stability and Trackless Motion

Feature: Magnetic wheels or handles ensure secure placement on workpieces.

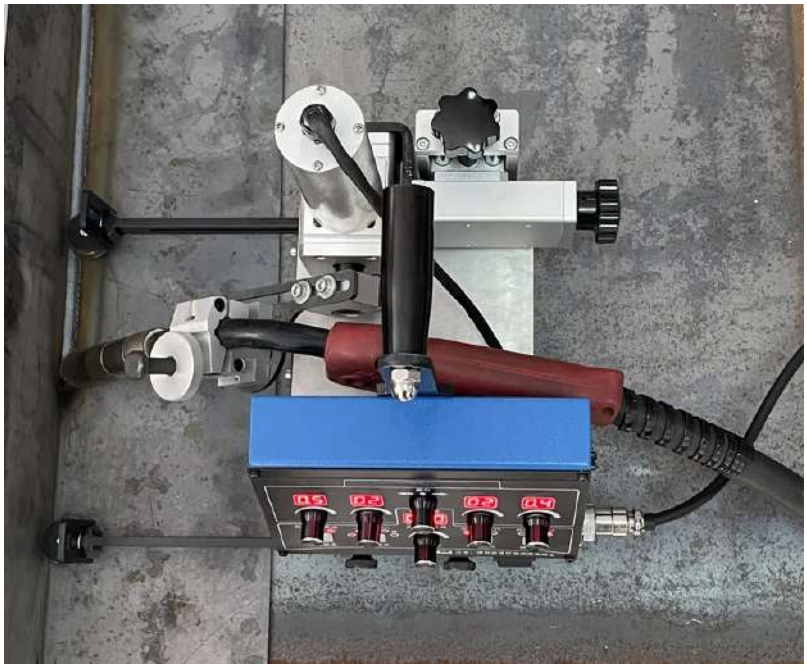
Advantage: Provides stable, uninterrupted operation, even on uneven surfaces, with smooth motion without requiring tracks or rails.

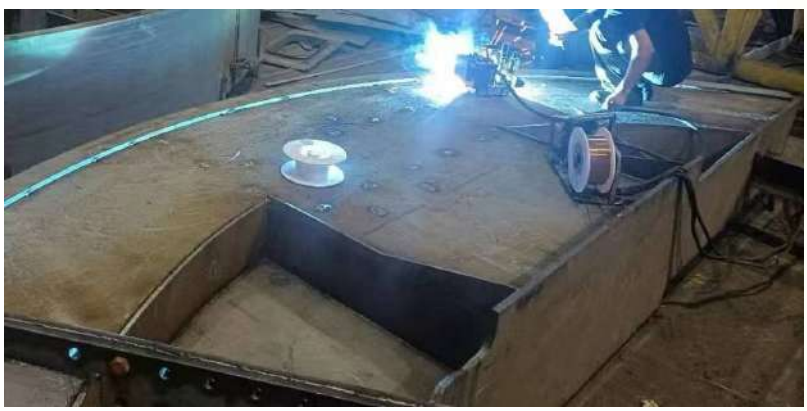
Automatic Stop Mechanism

Feature: Inductive stop switch halts the machine at the end of the workpiece.

Advantage: Enables single-operator management of multiple devices, boosting productivity and reducing labor costs.

Package Contents





Controller Highlights and Features:

Current: Adjusts the welding current.

Voltage: Adjusts the welding voltage.

Arc Collection / Without Arc Collection: Selector for arc collection mode.

Start: Initiates the welding operation.

Stop: Stops the welding operation.

Inch: Adjusts or tests incremental movements of the welding torch.

Switch: Toggle switch for additional functions.

Travel Speed: Displays and adjusts the speed of the welding carriage.

Swing Speed: Displays and adjusts the speed of the oscillation.

Swing Angle: Displays and adjusts the angle of oscillation.

Left Pause Time: Displays and adjusts the pause time at the left end of the oscillation.

Right Pause Time: Displays and adjusts the pause time at the right end of the oscillation.

Deviation Display: Displays deviations in the welding path.

Parameter Adjusting: Adjusts specific parameters.

Parameter Setting: Finalizes or saves parameter settings.

Torch Rotation: Adjusts the rotation of the welding torch.