
Weldcar - 301 Seam Tracking Welding Carriage



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I . Overview

Seam tracking welding carriage widely used in ships, bridges, locomotives, steel, petrochemical and other industries, for a variety of welded structures welding, such as: strengthening ribs, ribs, welding, soldering cross parts of box beams, etc. Its main advantages are:

- reduce labor intensity, improve the working environment
- improve work efficiency is 1.5 times manual welding
- avoid bad weld quality caused by human factors, the non-performing rate generally manually operated at about 20%, while the poor welding automatic welding carriage has not generated rate
- So the overall efficiency than the manual welding by nearly 200%
- high degree of automation to ensure the stability of welding quality
- not need to be skilled workers

WELDCAR-301 is a rack and pinion drive system in the track running type welding equipment, widely used in horizontal butt welding, the situation is particularly suitable for thick plate welding. By adjusting the torch jig and angle, fillet welds may be performed.

Trolley body swing, automatic tracking as a whole, can walk side welded rail on top. Track switch magnet pull on the work piece, easy installation and removal.

II . Features

- 1) WELDCAR-301 is mainly used for horizontal welding of car.
- 2) is provided with a clutch fast retraction device that can be achieved manually move horizontally on a track.
- 3) has a swing unit, enabling the left and right swing and adjust the center position, swing around the residence time can be adjusted to prevent undercut, the welding torch auto responders stop in the center position.

4) fitted with electric slide and tracking sensor, by tracking the system control, automatic correction during welding torch position to achieve automatic tracking.

5) Wide track has better rigidity, the car run more smoothly, with switching magnets make disassembly easier, the standard configuration of 1.5-meter-long track

6) has a travel stop and prevent mishandling of the car from the track.

7) tracking control system greatly reduces the weight of the external installation of car body workers can easily move and installation of the car.

III. The main components Description

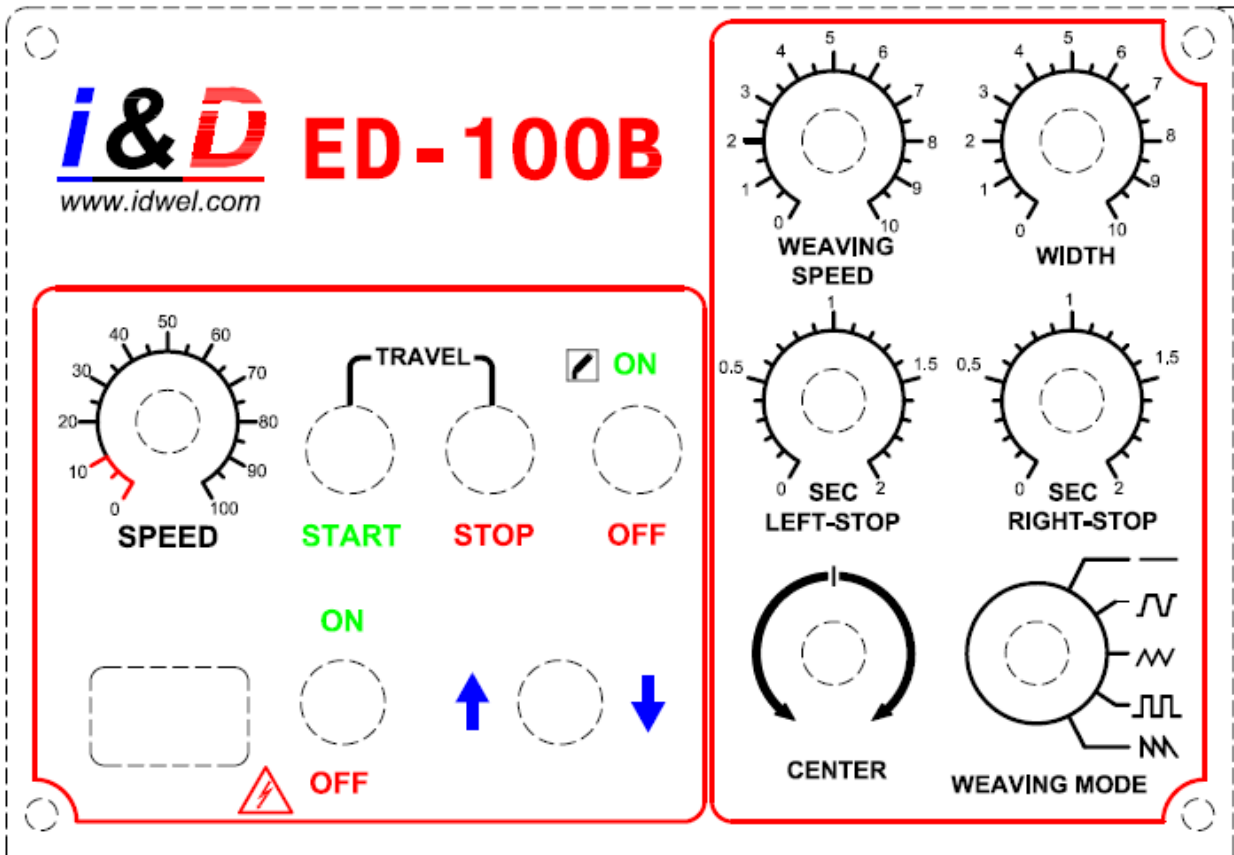
① Car body: chassis drive mechanism, electric slide, the main control box, tracking sensors, swing slide etc

② Wide rails: Aluminum rigid rails, racks, switches, magnets and other components

③ Tracking controller: External tracking controller,

④ Power Adapter: Provides low pressure safety car and controller power supply

V. Controller Panel



1) Welding / Non-welding selection: After selecting the non-welding, walking while holding the switch will not be welded car travel

2) Up / Down select switch: Select trolley travel direction selector switch

3) Walking start switch: Press switch car start walking

4) Walking stop switch: traveling by car which stops all action switch

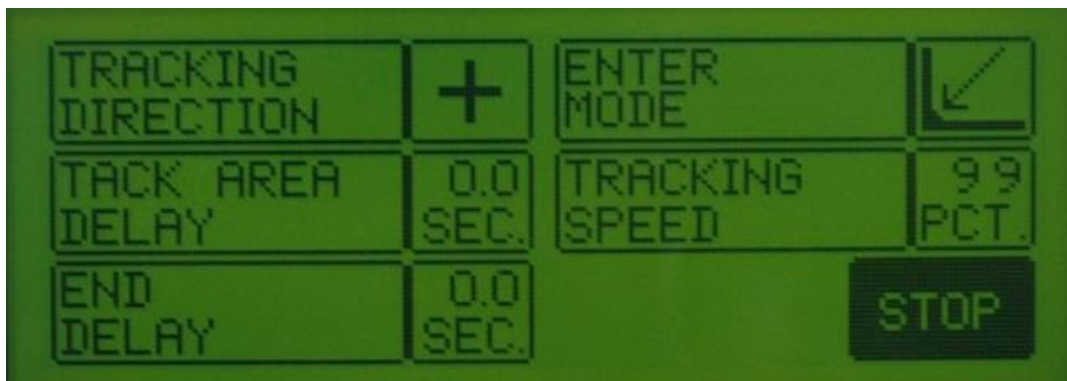
5) Walking speed adjustment knob: clockwise increases

6) Power switch

7) Swing control section: You can adjust the swing speed, width, around the residence time, the center position and rocking mode



The Tracking controller front panel has a LCD display and the basic operation keys.



On the LCD menu, there are 5 parameters.

By panel set key (SET) to select the parameter (black background), "+" and "-" adjust the corresponding parameter value, press the Enter key (ENTER) to save and exit.

The lower right corner of the screen display as "stop" or "start" state; when the slider is moved to the extreme position, sounding an alarm sound will be issued with an "Ultimate X".

VI. The main technical parameters

Item		Description	comment	
Carriage	Input power	AC220V		
	Size	300*400*350		
	Weight	13Kg		
	Drive	Rack and pinion drive		
	Function of control	Function of operation		
		Power Light		
		Walk start		
		Walking stop		
		Walking speed		0 ~ 730mm / min (increase in the direction indicated by arrows)
		Select the running direction		up down left right)
		Welding / not welded		Welding / non-welding select
		Swings		0 ~ 35mm
		Swing selection		
		Swing speed		0 ~ 2300mm / min
		Center Mobile		About 5mm
Left stop			0 ~ 2S (indicated by the mark)	
Right Stop		0 ~ 2S (indicated by the mark)		
Tracking Controller	Power	AC220V		
	Size	330*280*130	W*L*H	
	Weight	3.5Kg		
	Function of control	Power switch, start, stop, up, down, left and right movement, pull, etc.		
Track	Form	Removable magnet	Switch Magnets	
	Size	85*16*1500	W*H*L	
	Material	Aluminum		
	Weight	8Kg	Including four magnets	