

Intelligent handling AGV operating instructions SWZ-10H-A



Please read the instructions carefully before use

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1. Product Presentation

1. Product indication chart



2. Product specifications/parameters

Product Name	AGV Trolley					
Product Model	SWZ-10H-A					
Product	Trolley Size: 550X450X550					
Dimensions	Loading Plate Size: 520X420X50					
(mm)	Not Woight, 25VC	Lood Conscient				
Load Capacity	Net weight. SONG	60KG				
Navigation	Magnetic Navigation, Bi-					
Туре	directional Travel					
Drive Mode	Brushless Motor, Differential					
	Gear					
Travel Logic	RFID Site Identification, Site	Docking at 20				
0	Selection	Sites				
Uperation Modea	Single Line, Loop Line	Branch Lines Require Additional				
modes		Configuration				
Travel Speed	0~40m/min (Adjustable Speed)					
Ramp Climbing	<2 degrees					
Ability						
Turning Radius	0.8 meters (or 90 degree in-	90 degree turns				
	place pivot turn)	require				
		customization				
Stopping	± 2 cm	Customizable to				
Accuracy	1 hours	±3MM				
Battery Type	Lithium Battery 25.2V20AH					
Endurance	≥15h					
Battery Level	Intelligent Low Battery Auto-					
Indication	alarm					
Charging	Manual Charging/Battery	Optional Automatic				
method	Replacement	Charging Station				
Start Method	Manual Start + Scheduled Start	Configurable Auto-				
	Remote Control Start	run				
Obstacle	Ultrasonic Radar (4 pcs front &	Sensing Distance				
Avoidance	rear)	Adjustable				
Bump	Mechanical Bumper Switch Bars	Emergency Stop on				
Protection	Front & Kear	Collision				
Emergency Stop	Front & Rear E-stop Switches					
Travel Warning	Front & Rear LED Lights:	Optional Running				
	Flashing Green When Running +	Music Play				

	Flashing Red When Obstacle	
	Detected	
Human-Machine	HD Touch Screen	
Interface		

3. Instructions for using the touch display

Man-machine interface: 4.3-inch display with HD touch



3.1 Main screen display introduction:



3.2. Introduction to the Setting interface:

sensor are on



3.3. Automatic running line setting interface



Spare parts:



4. Navigation magnetic strip description and installation use:

1. Introduction of navigation magnetic strip

2. The AGV car can automatically run back and forth on the ground because we have a magnetic strip on the floor to guide the car to run. The AGV car can automatically calibrate the running direction of the car by reading the signal of the magnetic strip. After the algorithm of the software, the AGV car can run stably on the magnetic strip.



- 3. Install the navigation magnetic strip:
- Determine the cable to be installed and wipe the place where the magnetic strips are to be affixed with a dry cloth. Ensure that there is no oil or water on the ground; otherwise, the magnetic

strips will not stick.

- Remove the adhesive paper from the magnetic strip, S pole backed side to the ground, N pole smooth side up.
- Straight line pasting method: two people, first stick to one end, one person will force the magnetic strip straight, the other person will tear the adhesive paper, as far as possible to stick the magnetic strip straight.
- Circular arc navigation line paste method: you can first draw the circular arc on the ground with a pen (The radius can not be less than 0.8 meters, the larger the space, the larger the design arc), Then tear off the adhesive of the magnetic strip, and paste the adhesive paper according to the drawn arc.



5. AGV Trolloy Route Installation And Use:

Know the direction of the car first:







1. Single line mode-Station setup

The RFID station card is placed on the installation navigation magnetic strip, the station card needs to be placed in the order from small to large, and the distance between the station and the site is not less than 1 meter



2. Loop Mode - Station setup

The magnetic strip is pasted into a closed-loop line, the car runs in the closed circuit, the RFID station card is placed on the installation navigation magnetic strip, the station card needs to be placed in accordance with the order from small to large, and the distance between the site and the site is not less than 1 meter



In loop mode, the car automatically calculates the nearest running mode, automatically determines whether to go forward or backward,

For example: 1, the current station of the car is at station 4, the target station is 2, the car will go back.

2. The current station of the car is at station 6, and the car will go forward when the target station is 1.



3. Bifurcated line --- Path planning Settings



This section describes the Settings screen:

As shown in the preceding figure, the function is:

The starting point of the main line is station 1. The maximum number of left turning stations on the first branch line of the main line is 3, indicating that the left turning stations are stations 2-3. The maximum number of right-turn stations in each two branches of the main line is 5, indicating that the right-turn station is No. 4-5 station, and so on. The setting method of other station numbers is the same, and the car system will run according to the set line specifications after the setting.

5. Bifurcated line specification and RFID station card installation method:

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Set AGV car branch line according to the above running line



After the setup is complete, the car can run according to the line, and it can automatically go to the station. Set the car to run automatically according to the above bifurcation line diagram



After the completion of the line specification and setting,

the AGV car runs as follows:

The car is waiting for manual start at station 1 (when the residence time is set to 0, manually press the start switch for permanent stop).

Exit from Station 1 -- turn 90 degrees left -- arrive at station 2 (stay for 5 seconds) ---- come out and turn 90 degrees left ---- go ahead -- turn 90 degrees right -- Arrive at station 3 (stay for 5 seconds) -- go ahead and turn 90 degrees right ---- go ahead and turn ---- turn 90 degrees left to arrive at station 5 (stay for 8 seconds) -- come out and turn 90 degrees

left -- -- Proceed to Station 6 (stay for 3 seconds) -- return directly to Station 1 (wait for manual start of the car)

6. Manual site selection run

Method of manually starting the trolley

1, touch screen input target site start.



After the input is completed, click the start button on the display screen, or press the start switch of the car

2, click the site number on the display screen, you can select multiple target sites, the car will reach the target site in sequence, after reaching the target site, you need to manually press

the start switch before the car will go to the next site. As shown in the picture below: Click No. 5 -- No. 6 -- No. 7 -- No. 8 to select the station, the selected ion number changes from blue to orange, then press the start switch, and the car will run from the current station 1 to the station 5



2. Press the start button of the touch screen or the physical start button of the car body, and the AGV can run to Site 5



7. Remote controller using method

1. The car should run under magnetic stripe

navigation:

The car in the manual state, with the 15-key remote control can control the car station to select 1-13 station, only need to press the number key on the remote control, the car will automatically run to the corresponding station, convenient for the activity of the operator to complete the handling work. When the car is running in the automatic line, the start switch on the car can be replaced by the start button on the car, and the car can also press the slow stop button during the running process to stop the car.





Derailment remote control, the car operation mode needs to be selected

as: remote control save exit





8. Self-run line Settings

When the car needs to run according to the station set by us, the purpose of automatic operation can be achieved by setting the running order of the car and the residence time of the station.

					setting circ	uit		
当前站点 1	目标站点 3	电盘显示	80%		自动线路站点	设置	6 路径规划	设置
1 5 4 2 5 4	3 5 3 4 5 3	5 号站	6号站		站点数量(环线)		站点精度开关0关1开	_
7 号站 8号站	95si 105si	11 5 3	12号站	Ĵ	运行模式	单线	障碍感应检测关闭时间 (S)	
135# 145#	15 5 3 16 5 3	17 5 5	18 5 8		运行速度	60%	避障关闭设置	
系统初始化成功!					无线通讯ID设置		充电站点设置	
设置自动	设置 自动路线 启动 去充电						「厂商服务	信息
						\land		
Setting						Ĺ		

For example, in single-line mode, 1-5 sites must meet the following requirements

Site 1 wait for manual press the start switch "" Run to site 3 stay for 10 seconds" "Run to Site 5 stay for 5 seconds" "Run to site 2 wait for manual press the start switch" "Run to site 4 stay for 10 seconds" "Return to site 1 infinite cycle above process



9. AGV car 90 degree Angle turning method



When the car turns 90 degrees, it first reads the RFID card to the left or to the right, and then automatically slows down to run, directly reads the right Angle center card, and automatically rotates 90 degrees in place, and then continues to run.

10. Charging method

The power display is from 10%-100%, when the power is less than 10%, the car display automatically jumps out of the dialog box, and there is an alarm sound to remind the staff to charge the car, it is recommended to charge the car when the car power is less than 20%.





When charging, it must be noted that the AGV car should be turned off (off) first, and then the DC head of the charger is plugged into the car, and then the 220V power supply is plugged in after the DC head is plugged in. There are LED lights on the charger,

Red: Charging is underway

Green: Charging is complete