GUOZI



	Product	3t heavy carrier (omni-dierctiona	4t heavy carrier (omni-dierctional)	6t heavy carrier (omni-dierctional)	10t heavy carrier (omni-dierctional)	
	Work environment	indoor、temperature0°C-45°C、humidity20%-85%				
Parameter	Size L(mm)	≥1800+50n (n=1,2,3,20)	≥1800+50n (n=1,2,3,20)	≥1800+50n (n=1,2,3,20)	≥1800+50n (n=1、2、3、)	
	Size W(mm)	900/1000/1200/1500	900/1000/1200/1500	900/1000/1200/1500	900/1000/1200/1500/2000	
	Size H(mm)	400+50n (n=1,2,3,4)				
	Rated load(kg)	3000	4000	6000	10000	
	Self weight(kg)	1200	1800	2200	3000	
	Ground Clearance(mm)	50	50	50	50	
	Lifting height(mm)	50-200	50-200	50-200	50-200	
Navigation performanc	Navigation mode	QR code/laser/magnetic				
	Navigation accuracy(mm)	±10				
	Walk mode	Forward/Backward/Turn/Rotate/Sideway				
	Drive mode	Double wheel				
	Rated Running Speed	0.2~0.8	0.2~0.6	0.2~0.6	0.2~0.6	
	Rated Running Speed (Full Load)(m/s)	0.2~0.8	0.2~0.6	0.2~0.6	0.2~0.6	
Motion performance	Maximum Running Speed (no Load)(m/s)	0.8	0.8	0.8	0.8	
	Maximum Running Speed (Full Load)(m/s)	0.8	0.8	0.8	0.8	
	Stable Running Speed (no load)(m/s)	0.6	0.5	0.5	0.5	
	Stable Running Speed (Full load)(m/s)	0.6	0.5	0.5	0.5	
	Maximum acceleration (no load)(m/s2)	0.4m/s2	0.26m/s2	0.25m/s2	0.25m/s2	
	Maximum acceleration (full load)(m/s2)	0.2m/s2	0.2m/s2	0.14m/s2	0.14m/s2	
	Maximum Climbing Capacity, Full Load/No Load(%)	3%	3%	3%	3%	
	Obstacle climbing ability (full load/no load)(mm)	5	5	5	5	
	Gap climbing ability (full load/no load)(mm)	8	8	8	8	
Safety protection	Obstacle detecting mode	Laser detection				
	Maximum detecting range(m)	4m 4m 4m 5m				
	Collision Bar Detection	Front/Back/Left/Right				
	Stop button	Front/back				
	Overload detection	no	no	no	no	
	Partial load detection	no	no	no	no	
Battery performance	Battery type	Lithium Iron Phosphate				
	Rated voltage(V)	51.2V	51.2V	51.2V	51.2V	
	Battery capacity(Ah)	60~120	60~120	60~200	60~250	
	Rated working time(H)	8	8	8	8	
	Charging mode	Ouline autonour al arriter				

	Product	15t heavy carr ier (omni-dierctional)	30t heavy carrier (omni-dierctional)	60t heavy carrier (omni-dierctional)		
Parameter	Work environment	indoor、temperature0°C-45°C、humidity20%-85%				
	Size L(mm)	≥1800+50n (n=1、2、3、)	≥3200+50n (n=1,2,3,)	≥3200+50n (n=1,2,3,)		
	Size W(mm)	900/1000/1200/1500/2000	900/1000/1200/1500/2000	900/1000/1200/1500/2000		
	Size H(mm)	400+50n (n=1,2,3,4)				
	Rated load(kg)	15000	30000	60000		
	Self weight(kg)	5000	10000	20000		
	Ground Clearance(mm)	50	50	50		
	Lifting height(mm)	50-200	100	100		
	Navigation mode	QR code/laser/magnetic				
Navigation performance	Navigation accuracy(mm)	±10				
	Walk mode	Forward/Backward/Turn/Rotate/Sideway				
	Drive mode	Double wheel				
	Rated Running Speed	0.2~0.4	0.2~0.4	0.2~0.4		
	Rated Running Speed	0.2~0.4	0.2~0.4	0.2~0.4		
	Maximum Running Speed (no Load)(m/s)	0.6	0.6	0.6		
Motion performance	Maximum Running Speed (Full Load)(m/s)	0.6	0.6	0.6		
	Stable Running Speed (no load)(m/s)	0.4	0.4	0.4		
	Stable Running Speed (Full load)(m/s)	0.4	0.4	0.4		
	(no load)(m/s2)	0.25m/s2	0.25m/s2	0.25m/s2		
	Maximum acceleration (full load)(m/s2)	0.14m/s2	0.14m/s2	0.14m/s2		
	Maximum Climbing Capacity, Full Load/No	3%	3%	3%		
	Obstacle climbing ability (full load/no	5	5	5		
	Gap climbing ability (full load/no load)(mm)	8	8	8		
	Obstacle detecting mode	Laser detection				
	Maximum detecting range(m)	6m	8m	9m		
C-f-h-	Maximum detecting range(m)	Front/Back/Left/Right				
protection	Stop button	Front/back				
	Overload detection	no	yes	yes		
	Partial load detection	no	yes	yes		
Battery performance	Battery type	Lithium Iron Phosphate				
	Rated voltage(V)	51.2V	51.2V	51.2V		
	Battery capacity(Ah)	60~250	60~250	60~250		
	Rated working time(H)	8	8	8		
	Charging mode	Online autonomous charging				

Zhejiang Guozi Robotics Co., Ltd.

Tel:4008262700	Email:robo
PC:311442	http://www
Address:No. 268, Jinzilong,	, Yinhu Street, Fu



ot@gzrobot.com w.smartlogisticsolutions.com/ yang District, Hangzhou, Zhejiang Province

GUOZI

Heavy carrier **Autonomous Movement** Without Burden

GUOZI

Product Overview

The automated handling of large materials (overweight, overlength) has always been a technical difficulty in the AGV industry. Heavy-duty AGVs are mainly used in warehousing, manufacturing, ports, airports, hazardous locations, special industries, etc. Guozi's heavy-duty product line has turned "lifting weights lightly" into the norm, and "safe production" has become a part of the work, and it will be more effective. Improve the level of logistics automation in the heavy-duty field, reduce the labor intensity of personnel, improve production efficiency, shorten the logistics cycle, accelerate capital turnover, and improve economic efficiency. Guozi AGV will work with you to realize: moving the world and seeing the future.

The global logistics scheduling flexible manufacturing system built by the company has advanced upper-layer architecture, rich middle-layer interfaces, and reliable bottom-layer applications. Not only can it match the production process of the assembly line, it can also be promoted in the construction machinery industry, and it is also flexibly applicable to similar manufacturing scenarios in the entire heavy industry industry, realizing unmanned warehouses and unmanned workshops.

Guozi Robot will continue to deepen cooperation with users in various industries and continue to provide matching flexible production solutions. In terms of reducing inventory, improving production efficiency and turnover, reducing labor costs, and improving occupational safety, it will work with users to build smart factories.



Application scenario



CASE

AGV intelligent handling system for pump truck production line

Overview Each pump truck needs to install more than a thousand sets of parts of various sizes, and a lot of manpower is required to carry it.Low efficiency and high error rate; after intelligent application, the overall production capacity is increased by 180%.



There are 76 AGVs of various types including SLIM, light-duty 1T submersible jacking mnidirectional, heavy-duty 2T/3T/4T/6T submersible jacking omnidirectional, and shifting spoke road vehicles.

Highlight

- Using laser SLAM and visual hybrid navigation, there is no need to paste codes or magnetic strips on the ground environment, improving the cleanliness of the on-site environment
- Provide multiple types of AGVs, complete complex handling tasks through unified scheduling, division of labor and cooperation, and increase the logistics cycle by 45%
- When the material frame is placed tilted in some stations, the laser secondary recognition technology is used to improve the accuracy of handling

CASE

The main line of flexible manufacturing of excavator equipment



• After the production line was put into operation, the output in the first month increased by 150%, and the economic benefit of the company increased greatly

GUOZI







CASE

AGV intelligent handling system for heavy commercial vehicle production line



Location Liuzhou, Guangxi



Highlight

- The steel plate handled by AGV is heavy in weight, long in size, and requires high accuracy and angle in place
- According to customer signal requirements, AGV supports two-way in and out of the material frame
- There are many on-site docking points, and steel sheet materials are often distinguished by naked eyes; AGVs go to the docking points according to WMS instructions to complete precise docking, avoiding the frequent mistakes of manual feeding





GLOBAL CUSTOMERS

