

www.smthelp.com



Smart AGV Robot



Yis Tan

WhatsApp: +8613825296910

Skype: +86 13825296910

Email: yis@smthelp.com

Southern Machinery
www.smthelp.com

SM-AGV30KG-B





SM-AGV30KG-B is a simple, lightweight, low-power, ultra-long-endurance backpack-type intelligent transport trolley, suitable for wave soldering furnaces in electronics factories in dry production workshops, transporting SMT fixtures, production line materials, office transportation, etc. Ask for the situation. The trolley is easy to use, has functions such as battery power shortage alarm, obstacle sensor, and multi-site operation. The trolley uses magnetic navigation guidance to operate and can be customized according to customer need. Automatically start the trolley operation by detecting the weight change of the placed object (no need to press the start switch)



Model	SM-AGV30KG-B
Navigation Method	Magnetic Navigation Strap
Loading capacity	30KG
Moving Route	Single line
Max. moving speed	40m/Minute
Stopping Accuracy	±5CM
Battery Type	Maintenance-free lithium battery Continuous discharge times > 500 times
Battery Life	50 hours (customized)
Standby time	200 hours
charging time	s5<hW
AGV dimension (MM)	L370X W430X H 550
Item plate(MM)	L370 X W430 X H50 (Stainless Steel)
AGV weight	22KG
Drive	differential drive
Obstacle detection method	4 high-sensitivity infrared sensors on the front
touch anti-collision switch bar	one before and after
Automatic sensor start	Detect gravity start to set the start time
Start mode	Manul/auto-sensor
Charging method	DC charging / Battery Charging
Remaining power indicator	Alarming device
Spare Parts List	Navigation Straps 20m , Terminal straps 2pcs , Middle stop straps 2pc , Charger 1 pc
Warranty	1 year



Optional Functions

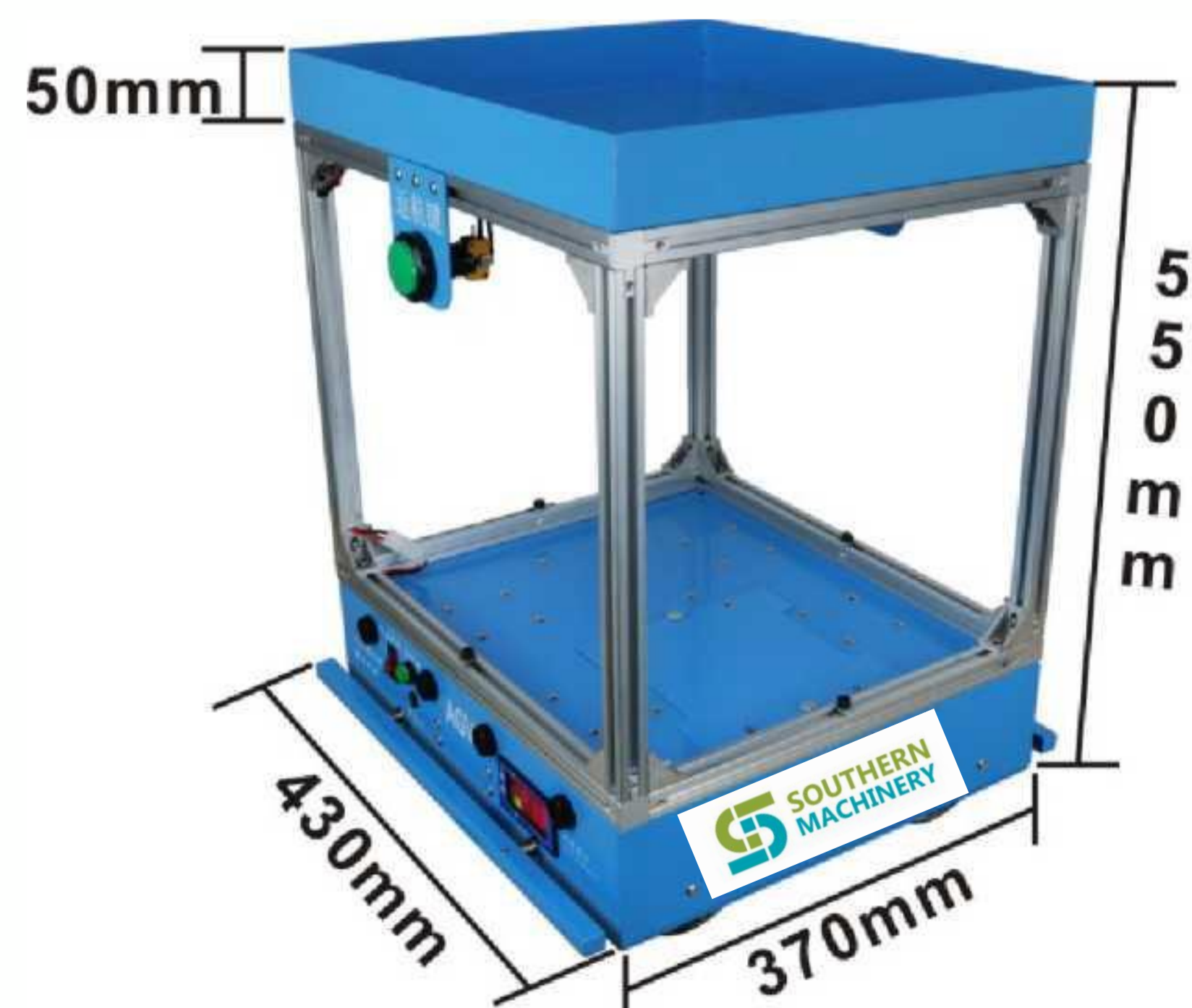
-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV30KG-A


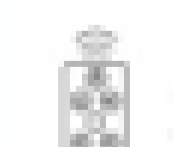

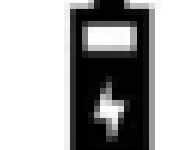
It is a simple, light, low power consumption, long battery life two-way backpack intelligent handling car, suitable for the electronic factory wave soldering furnace transport fixture, SMT transport fixture, production line material and other needs in the production workshop Condition. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, and multi-site operation. The trolley is guided by a magnetic strip and can be customized according to customer needs.



Model	A	B	C	D	E	F
Navigation Method	Magnetic strip navigation two-way driving					
Loading capacity	30KG					
Moving Route	Single line					
Max. moving speed	40m/minute					
Min. turning diameter	1.2m					
Stopping Accuracy	5CM					
Battery Type	lithium battery		25.2V20AH		lithium battery 25.2V10AH	
Battery Life			50 hours		More than 20 hours	
Standby time	100 hours					
charging time			5 hours		3 hours	
AGV dimension (MM)	370X430X550	370X430X550	370X430X550	370X430X130	370X430X550 370X430X130	
Plate dimension	370X430X50	430X370X50	430X370X50	No bracket	430X370X50 No bracket	
AGV weight	20KG	20KG	20KG	12KG	15KG	10KG
Drive	Geared Motor Differential Ratio					
Obstacle detection method			4 each in front of the infrared		Infrared 2 each on the front	
touch anti-collision switch bar			Yes. It has.		No. Without.	
Wireless remote control	Wireless remote control car start		无			
site selection	Multi-site stop					
auto start	Scheduled automatic start	Gravity sensing automatic start		No.		
charging method			DC charging / Battery Charging			
Remaining power indicator	Smart Alarming					
Spare Parts List			20m navigation bar, 1 charger		10m navigation bar, 1 charger	
Warranty	1 year					



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

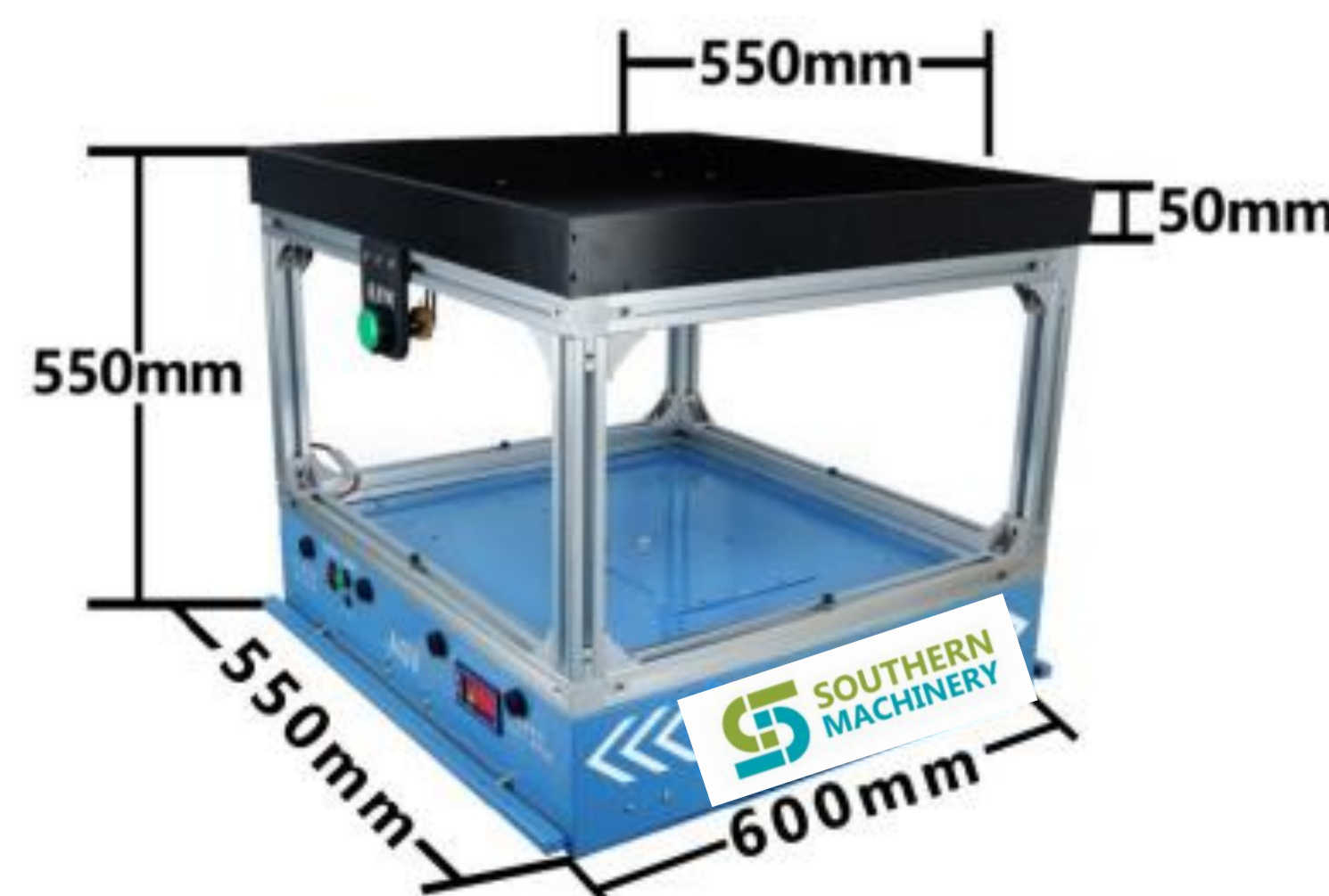
Magnetic induction go and return driving AGV

SM-AGV40KG-A

It is a simple, light, low power consumption, super long battery life two-way backpack intelligent handling trolley, suitable for electronic factory wave soldering furnace transport fixtures, SMT transport fixtures, production line materials and other requirements in the production workshop. The trolley is easy to use and has functions such as battery shortage alarm, obstacle sensor, emergency switch, multi-site operation, etc. The trolley is guided by a magnetic strip and can be customized according to customer needs.



Model	SM-AGV40KG-A	SM-AGV40KG-B	SM-AGV40KG-C	SM-AGV40KG-D
Navigation method	Magnetic strip			
Loading capacity	40KG			
Driving mode	single line			
Max.speed	40m/minute			
Min. Turning radius	1.8m			
Stopping Accuracy	5CM			
Battery type	lithium battery 24V20AH			
Battery life	40 hours			
Standby time	100 hours			
Charging time	5 hours			
AGV dimension(mm)	550X600X500	550X600X500	550X600X500	550X600X180
Plate dimension (MM)	550X600X50	550X600X50	550X600X50	无
AGV weight	30KG	30KG	30KG	30KG
Interactive interface	without	without		
Drive	Geared Motor Differential Ratio			
Obstacle detection method	4 each in front of the infrared			
touch anti-collision switch bar	yes			
Wireless remote control	One button 2 remote controls	Without	No, No, No	
site selection	Scheduled automatic start	Multi-site stop	Scheduled automatic start	
charging method	DC charging; Battery charging			
Remaining power indicator	Smart alarming			
Spare parts	20m navigation strips, terminal strips 3pcs, charger 1pc			
Warranty	1 year			



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

Magnetic induction two-way running AGV trolley

SM-AGV30KG-C (cabinet type)

SM-AGV30KG-C is a simple, lightweight, low-power, ultra-long-endurance backpack-type intelligent transport trolley. It is suitable for transporting jigs for wave soldering furnaces in electronics factories in production workshops, SMT transporting jigs, materials for production lines, and office transportation, etc. demand situation. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, site timing start, multi-site operation, etc. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



model	SM-AGV30KG-C
Navigation	Magnetic strip
Loading capacity	30KG
Driving mode	Single line
Max.speed	40m/minute
Min. Turning radius	80cm
Stooping accuracy	5cm
Battery type	lithium battery
Battery life	200/500 hours
Stand by time	200 hours
Charging time	5 hours
AGV dimension (MM)	Length 370X Width 430X Height 520
Plate dimension (MM)	Length 370X Width 430X Height 50
AGV weight	55kg
Drive	Geared Motor Differential Ratio
Obstacle detection method	infrared sensor
touch anti-collision switch bar	1 at the front and 1 at the back
Remaining power indicator	Digital Voltmeter
Automatic Route Planning	multi-site operation
start method	Manual start + timing start
charging method	DC charging/ battery charging
Power display	Smart alarming
Spare part	Navigation Straps 20m , Stop strips 3pcs , Charger 1 pc
Warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

Magnetic induction two-way running AGV trolley

SM-AGV-H



SM-AGV-H is a simple, lightweight, low-power, and ultra-long-endurance backpack-type intelligent transport trolley, which is suitable for transporting fixtures for wave soldering furnaces in electronics factories in production workshops, SMT transporting fixtures, materials for production lines, transportation in offices, etc. Condition. The trolley is easy to use and has functions such as battery shortage alarm, obstacle sensor, emergency switch, multi-site selection, etc. The trolley uses magnetic navigation guidance to operate and can be customized according to customer needs.



Model	SM-AGV-H
Navigation method	Navigation strips
Loading capacity	40KG
Driving mode	Single-line operation Loop line operation branch line (customizable route)
Max.speed	20-40m/minute, speed adjustable
Min. Turning radius	0.8M
stop accuracy	2cm
Battery Type	lithium battery 24V20AH
battery life	20hours (customizable)
Standby time	200 hours
Charging time	5 hours
AGV dimension(mm)	L 370X W430X H550
Plate dimension(mm)	L370X W430X H50
AGV weight	26KG
running instructions	Front and rear LED lights; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	infrared sensor
touch anti-collision switch bar	1 at the front+ 1 at the back
LCD display	4.3inch HD touch screen
Automatic Route Planning	Can set automatic running route
start method	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
site selection	10 sites choose RFID card identification
charging method	DC charging/ battery charging
Remaining power indicator	Smart alarming
Spare parts	Magnetic navigation bar 20 meters, 10 RFID site cards, 4 deceleration cards, 5A charger
warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

Magnetic induction two-way running AGV trolley SM-AGV40KG-710A (drum type)

SM-AGV40KG-710A is a simple, lightweight, low power consumption, super long endurance two-way backpack-type intelligent handling trolley, which is suitable for the needs of wave soldering furnace transport fixtures, SMT transport fixtures, and production line materials in the production workshop. Condition. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, emergency switch, multi-site operation, etc. The trolley is guided by a magnetic strip and can be customized according to customer needs.



Model	SM-AGV40KG-710A
Navigation method	Navigation strip
Loading capacity	40KG
Driving mode	single line
Max. speed	40m/minute
Min. Turning radius	1.8m
stop accuracy	3CM
Battery Type	lithium battery 24V20AH
Battery life	40 hours
Standby time	100 hours
Charging time	5 hours
AGV dimension	710X430X500
Plate dimension	580X410X120 (optional drum type)
AGV weight	30KG
LCD display	no
Drive	Geared Motor Differential Ratio
Obstacle detection method	4 each in front of the infrared
Touch anti-collision switch bar	Yes.
Wireless remote control	Optional
Site selection	Multi-site sequential stop, timing automatic start
Charging method	DC charging/ battery charging
Power display	Smart alarming
Spare part	navigation strips 20m, terminal strips 3pcs, charger 1pc
Warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

Magnetic induction two-way running AGV trolley

SM-AGV50KG-550A (backpack)

SM-AGV50KG-550A is a simple, lightweight, low-power, ultra-long-endurance backpack-type intelligent transport trolley. It is suitable for the electronics factory in the production workshop, the wave soldering furnace transportation fixture, the SMT transportation fixture, the production line sending materials, the office transportation, etc. The trolley is easy to use, and has functions such as battery power shortage alarm, obstacle sensor, emergency switch, multi-site stop and so on. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



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Model	SM-AGV50KG-550A
Navigation method	Navigation strip
Loading capacity	50KG
Driving mode	single line
Max. speed	20-40m/minute
Min. Turning radius	1.5m
Stop accuracy	3CM
Battery Type	lithium battery 25.2V20AH
Battery Type	15 hours (customizable)
Standby time	100 hours
Charging time	5 hours
AGV dimension(mm)	L550X W450X H550
Plate dimension(mm)	L530X W430X H50
AGV weight	30KG
Driving indicator	Front and rear LED lights; running indicator light + flashing red light when there is an obstacle
Drive	Geared Motor Differential Ratio
Obstacle detection method	infrared sensor
Touch anti-collision switch bar	1 at the front and 1 ant the back
Wireless remote control	optional
Automatic Route Planning	multi-stop
Start	Manual start + delayed start
Charging method	DC charging/ battery charging
Remaining power indicator	Smart alarming
Spare part	Navigation strip 20m, 5A charger x1
Warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

Magnetic induction two-way running AGV trolley

SM-AGV60KG-A (backpack) S-AGV60KG-B

SM-AGV60KG-A S-AGV60KG-B are two simple, lightweight, low power consumption, ultra-long battery life knapsack-type production workshops, wave soldering furnace transport fixtures for electronics factories, SMT transport fixtures, production line materials, office transportation, etc. demand situation. The trolley is easy to use, has battery power shortage alarm, obstacle sensor, emergency stop switch, multi-site selection, (delayed start) and other functions. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



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Model	SM-AGV60KG-A	SM-AGV60KG-B
Navigation method	Navigation strip; can drive towards inter-direction	Navigation strip; can drive towards inter-direction
Loading capacity	60KG	60KG
Driving mode	single line, circle route, remote control, branch route(customizable)	single line
Max. speed	20-40m/minute (adjustable)	20-40m/minute (adjustable)
Min. Turning radius	0.8m	1m
Stop accuracy	2CM	2CM
Battery Type	lithium battery 24V20AH	lithium battery 24V20AH
Battery life	>15hours (customizable)	>15hours (customizable)
Standby time	200 hours	200 hours
Charging time	4 hours	4 hours
AGV dimension (MM)	L550X W450X H 550	L550X W450X H 550
Plate dimension (MM)	L520X H430X H 50	L520X W430XH50
AGV weight	35KG	30KG
Wireless remote control	15-key stop selection+driving with a remote control	optional
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle	
Drive	Brushless Motor Differential Ratio	Geared Motor Differential Ratio
Obstacle detection method	Ultrasonic radar + emergency stop switch	Infrared sensor + emergency stop switch
Touch anti-collision switch bar	1 at the front and 1 at the back	1 at the front and 1 ant the back
LCD display	4.3-inch high-definition touch screen (wireless communication is optional)	Without
Automatic Route Planning	Automatic Route Planning mode available	Automatic Route Planning mode available
Start	Manual start + timing start + remote control start;	Manual start + delayed start; wireless serial communication can be added to support secondary development
Site selection	20 sites choose RFID card identification	Multi-site stop
Charging method	DC charging/ battery charging	
Remaining power indicator	Smart Alarming	
Spare part	20m navigation strips, 20 RFID site cards, 6 deceleration cards, 4 obstacle avoidance cards, 4pcs 5A chargers	
Warranty	1 year	



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV100KG-A

SM-AGV100KG-A is a simple, light, low-power consumption, long-endurance two-way backpack-type intelligent handling trolley, suitable for wave soldering furnace transport fixtures in electronics factories, SMT transport fixtures, production line materials, electronics, etc. Industrial demand such as garment factories. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, emergency switch, multi-site selection, wireless remote control, and small turning radius. The trolley is guided by a magnetic strip and can be customized according to customer needs.



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Model	SM-AGV100KG-A	SM-AGV100KG-B	SM-AGV100KG-C	SM-AGV100KG-D
Navigation method	Navigation strip; can drive towards inter-direction	Navigation strip; can drive towards inter-direction	Navigation strip; can drive towards inter-direction	Navigation strip; can drive towards inter-direction
Driving mode	single line and circle route	single line and circle route	single line	single line, circle route, remote control and branch route
Carrying capacity	100KG	100KG	100KG	100KG
Max. speed	20-45m/minute (adjustable)	20-45m/minute (adjustable)	30m/minute, not adjustable	20-45m/minute (adjustable)
Min. Turning radius	0.8m	0.8m	0.8m	0.8m
Positioning accuracy	2CM	2CM	2CM	2CM
Battery Type	lithium battery 24V30AH	lithium battery 24V30AH	lithium battery 24V30AH	lithium battery 24V30AH
Battery life	more than 10 hours	more than 10 hours	more than 10 hours	more than 10 hours
Standby time	200 hours	200 hours	200 hours	200 hours
Charging time	6 hours	6 hours	6 hours	6 hours
Max. V dimension (MM)	700X500X550	700X500X550	700X500X550	700X500X550
Min. V dimension (MM)	600X500X50	600X500X50	600X500X50	600X500X50
Max. V weight	45KG	45KG	45KG	45KG
LED display	HD 5 inch touch screen	HD 5 inch touch screen	Without	Without
Drive	Brushless Motor Differential Ratio	Geared Motor Differential Ratio	Geared Motor Differential Ratio	Geared Motor Differential Ratio
Obstacle detection method	4 ultrasounds	4 ultrasounds	4 ultrasounds	4 ultrasounds
Touch anti-collision switch bar	Yes	Yes	Yes	Yes
Wireless remote control	10-key remote control, 2pcs	Without	Without	10-key remote control, 2pcs
Site selection	20 RFID Cards	20 RFID Cards	Round-trip movement between two stations A and B	20 RFID Cards
Start	Manual start + remote start; wireless serial communication can be added to support secondary development			
Charging method	DC charging/ battery charging			
Remaining power indicator	Touch screen - intelligent alarm in case of power shortage		intelligent alarm from LED Voltmeter in case of power shortage	
Accessory part	20m navigation strips, 1 charger, 10 turning deceleration cards, 20 RFID Cards	20m navigation strips, 1 charger, 10 turning deceleration cards, 20 RFID Cards	20m navigation strips, 1 charger, 2 terminal strips	20m navigation strips, 1 charger, 10 turning deceleration cards, 20 RFID Cards
Warranty	1 year			



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

S-AGV150KG-A

SM-AGV150KG-A is a simple, lightweight, low-power, ultra-long-endurance backpack-type intelligent transport trolley. It is suitable for transporting fixtures for wave soldering furnaces in electronics factories in production workshops, SMT fixtures for production lines, transportation of materials in production lines, transportation in offices, etc. According to the demand, the trolley is easy to use, and has functions such as battery power shortage alarm, obstacle sensor, emergency stop switch, and multi-site transportation selection. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



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Model	SM-AGV150KG-A
Navigation method	Navigation strip; can drive towards inter-direction
Loading capacity	150KG
Driving mode	single line, circle route, remote control, branch route (customizable)
Max. speed	40m/minute
Min. Turning radius	0.8m; can make a 90° (L type) turning
Stop accuracy	2CM
Battery Type	lithium battery 24V20AH
Battery life	200 hours
Standby time	5 hours
Charging time	5 hours
AGV dimension (MM)	L700X W500XH550
Plate dimension (MM)	L660X W460X H 50
AGV weight	60KG
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	Ultrasonic radar + emergency stop switch
Touch anti-collision switch bar	1 at the front and 1 at the back
LCD display	4.3-inch high-definition touch screen
Automatic Route Planning	Automatic Route Planning available
Start	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
Site selection	20 RFID Cards
Charging method	DC charging / battery charging
Remaining power indicator	auto-alarm in case of power shortage
Spare part	20m navigation strips, 3 terminal strip and 1 charger
Warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV-SMT-A (for moving ESD magazine rack)

S-AGV-SMT-A is a trolley specially designed for SMT industrial board loading machines to automatically load and unload PCB board material racks. It operates with magnetic navigation guidance and can be customized according to customer needs.



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Model	SM-AGV-SMT-A
Navigation method	Navigation strip; can drive towards inter-direction
Loading capacity	50KG
Driving mode	single line, circle route, remote control, branch route (customizable)
Max. speed	20-40m/minute, adjustable
Min. Turning radius	0.8m; can make a 90° (L type) turning
Stop accuracy	±5CM
Battery Type	lithium battery 48V30AH
Battery life	10 hours (customizable)
Standby time	200 hours
Charging time	5 hours
AGV dimension (MM)	L900 X W500 X H380
Plate dimension (MM)	L355 X W320 X H 656
AGV weight	80KG
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	Ultrasonic radar
Touch anti-collision switch bar	1 at the front and 1 at the back
LCD display	4.3-inch high-definition touch screen
Automatic Route Planning	Automatic Route Planning available
Start	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
Site selection	20 RFID Cards
Charging method	DC charging / battery charging
Remaining power indicator	auto-alarm in case of power shortage
Spare part	20m navigation strips, 20 RFID Cards, 6 deceleration cards, 4 obstacle avoiding cards, 10 terminal strips, 5A charger
Warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV100KG-T

SM-AGV100KG-T is a simple, light, low power consumption and long battery life latent lifting intelligent handling trolley. It is suitable for the electronics factory in the production workshop, the wave soldering furnace, the SMT transportation, the production line and other requirements. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, emergency stop switch, multi-site selection, etc. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



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Model	SM-AGV100KG-T
Navigation method	Navigation strip; can drive towards inter-direction
Loading capacity	100KG
Driving mode	single line+circle route+branch route(customizable)
Max. speed	20-40m/minute(adjustable)
Min. Turning radius	0.8m; can make a 90° (L type) turning
Stop accuracy	2CM
Battery Type	lithium battery 24V20AH
Battery life	more than 10 hours (customizable)
Standby time	200 hours
Charging time	5 hours
AGV dimension (MM)	L700X W500XH300
Plate dimension (MM)	(700*500*350) lifting 50mm
AGV weight	50KG
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	4 ultrasounds
Touch anti-collision switch bar	1 at the front and 1 at the back
LCD display	4.3-inch high-definition touch screen
Automatic Route Planning	Automatic Route Planning available
Start	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
Site selection	20 RFID Cards
Charging method	DC charging/ battery charging
Remaining power indicator	auto-alarm in case of power shortage
Spare part	20m navigation strips. 20 RFID Cards. 6 deceleration cards. 4 obstacle avoiding cards. 10 terminal strips. 5A charger
Warranty	1 year

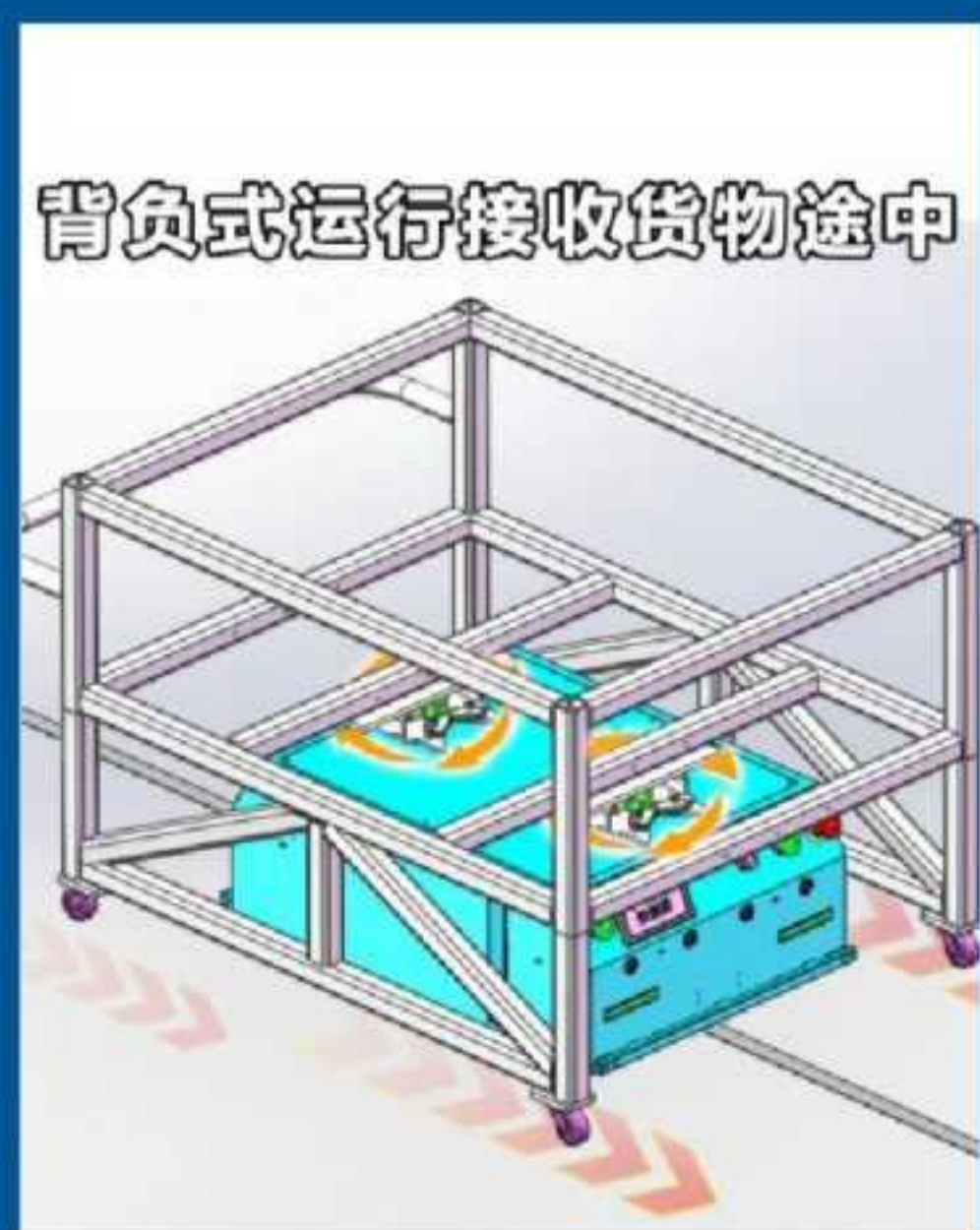


Optional Functions

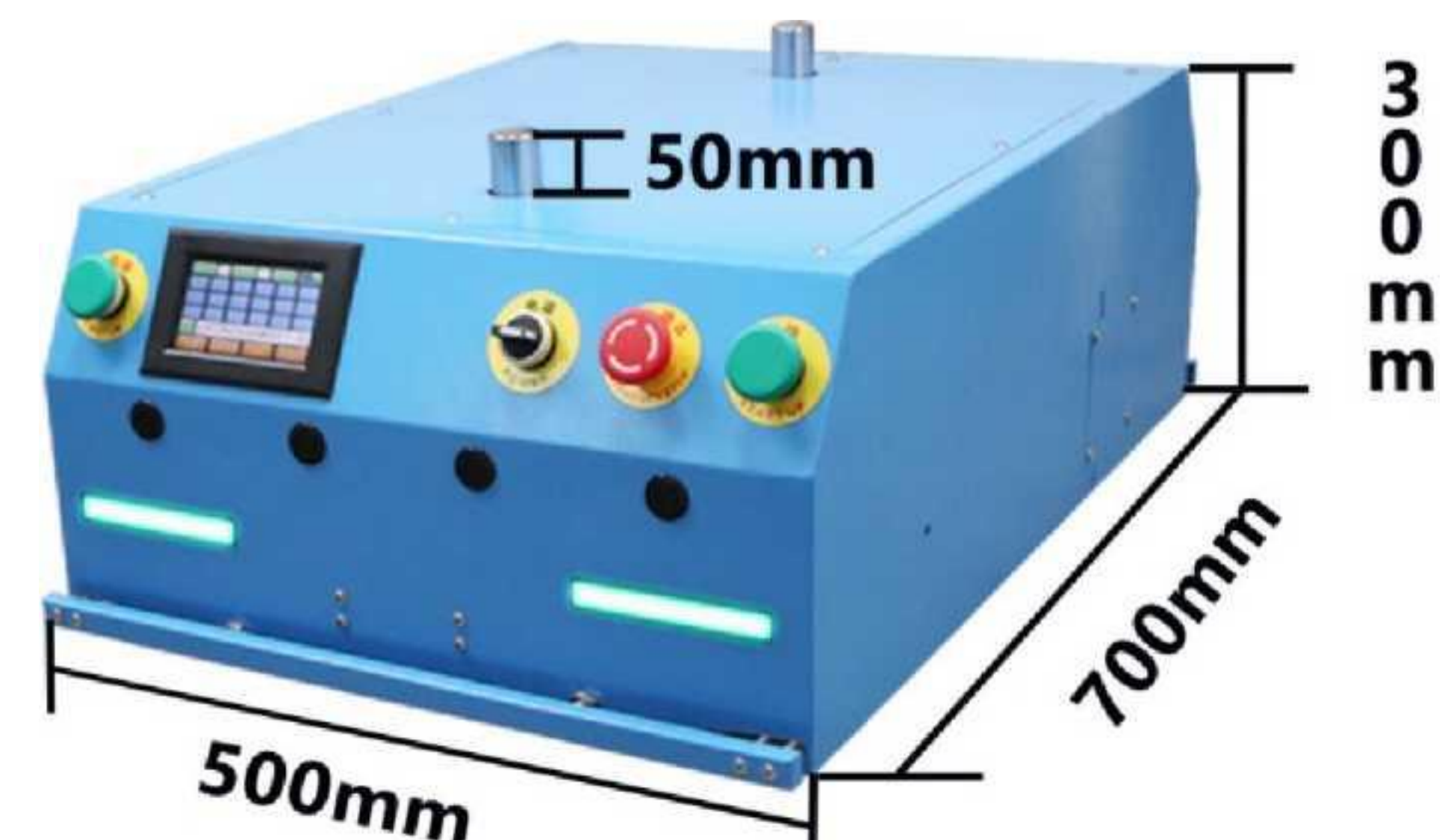
-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV100KG-G

SM-AGV100KG-G is a simple, light, low power consumption and long battery life latent lifting traction intelligent handling car, which is suitable for the electronic factory wave soldering furnace transport fixture SMT transport fixture in the production workshop, the production line sends materials and other requirements . The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, emergency stop switch, multi-site selection, etc. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



Model	SM-AGV100KG-G
Navigation method	Navigation strip; can drive towards inter-direction
Loading capacity	100KG
Driving mode	single line+circle route+branch route(customizable)
Max. speed	20-40m/minute(adjustable)
Min. Turning radius	0.8m; can make a 90° (L type) turning
Stop accuracy	2CM
Battery Type	lithium battery 24V20AH
Battery life	more than 10 hours (customizable)
Standby time	200 hours
Charging time	5 hours
AGV dimension (MM)	L700X W500XH300
Plate dimension (MM)	(700*500*350) lifting 50mm
AGV weight	65KG
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	ultrasound
Touch anti-collision switch bar	1 at the front and 1 at the back
LCD display	4.3-inch high-definition touch screen
Automatic Route Planning	Automatic Route Planning available
Start	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
Site selection	20 RFID Cards
Charging method	DC charging/ battery charging
Remaining power indicator	auto-alarm in case of power shortage
Spare part	20m navigation strips, 20 RFID Cards, 6 deceleration cards, 4 obstacle avoiding cards, 10 terminal strips, 5A charger
Warranty	1 year



Optional Functions

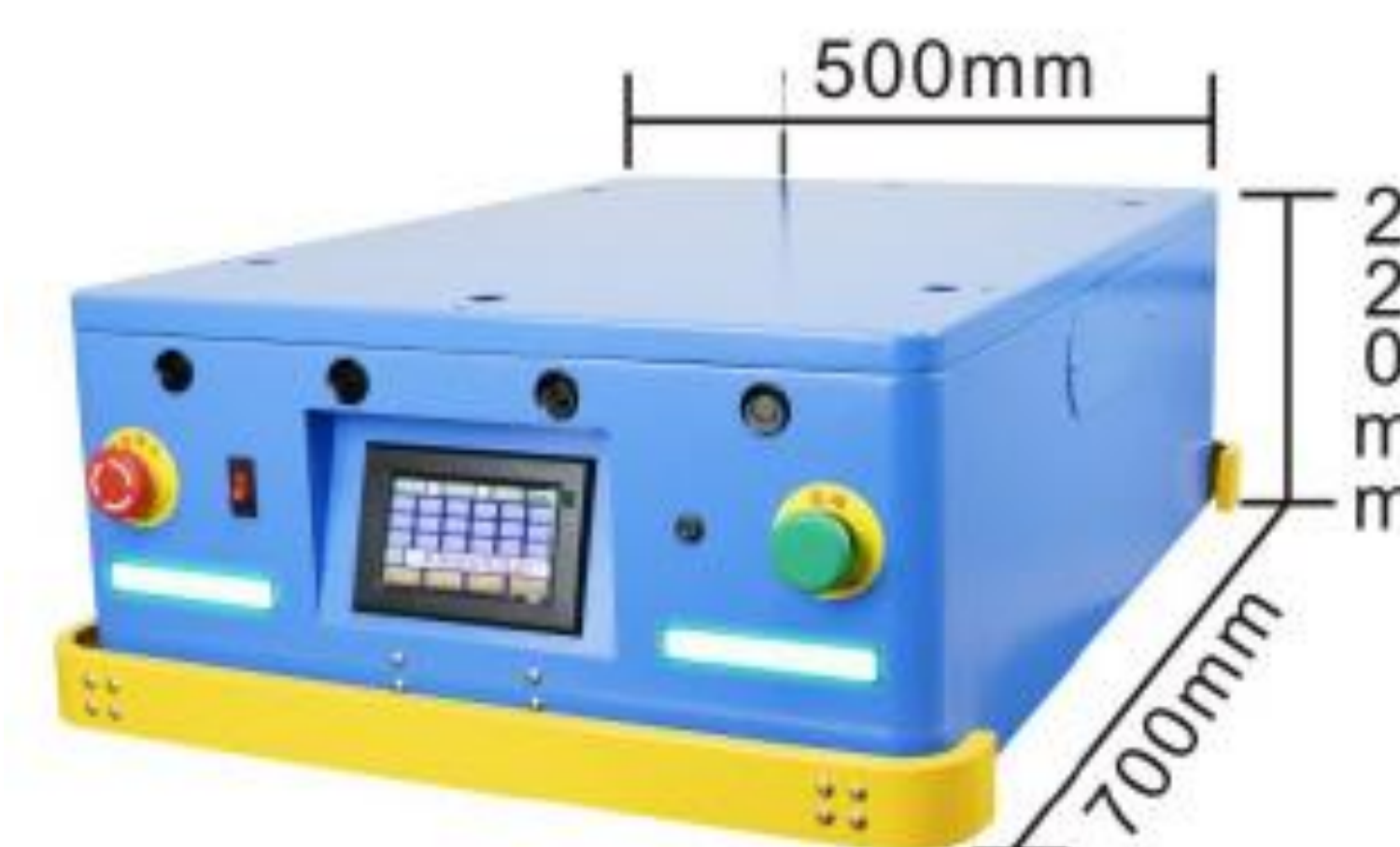
-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV100KG-K

S-AGV100KG-K is a simple, lightweight, low-power, and ultra-long-endurance backpack-type intelligent transport trolley. It is suitable for the electronics factory wave soldering furnace, SMT, and other requirements in the production workshop. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, emergency stop switch, multi-site selection, etc. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



Model	S-AGV100KG-K
Navigation method	Navigation strip; can drive towards inter-direction
Loading capacity	100KG
Driving mode	single line+circle route+branch route(customizable)
Speed	20-40m/minute(adjustable)
Min. Turning radius	0.8m; can make a 90° (L type) turning
Stop accuracy	2CM
Battery Type	lithium battery 24V20AH
Battery life	more than 10 hours (customizable)
Standby time	200 hours
Charging time	4-6 hours
AGV dimension(MM)	L700 X W500 X H220
Plate dimension(MM)	without a plate
AGV weight	50KG
Remote Control	optional
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	ultrasound
Touch anti-collision switch bar	1 at the front and 1 at the back
LCD display	4.3-inch high-definition touch screen
Automatic Route Planning	Automatic Route Planning available
Start	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
Site selection	20 RFID Cards
Charging method	DC charging/ battery charging
Remaining power indicator	auto-alarm in case of power shortage
Spare part	20m navigation strips, 20 RFID Cards, 6 deceleration cards, 4 obstacle avoiding cards, 5A charger
Warranty	1 year

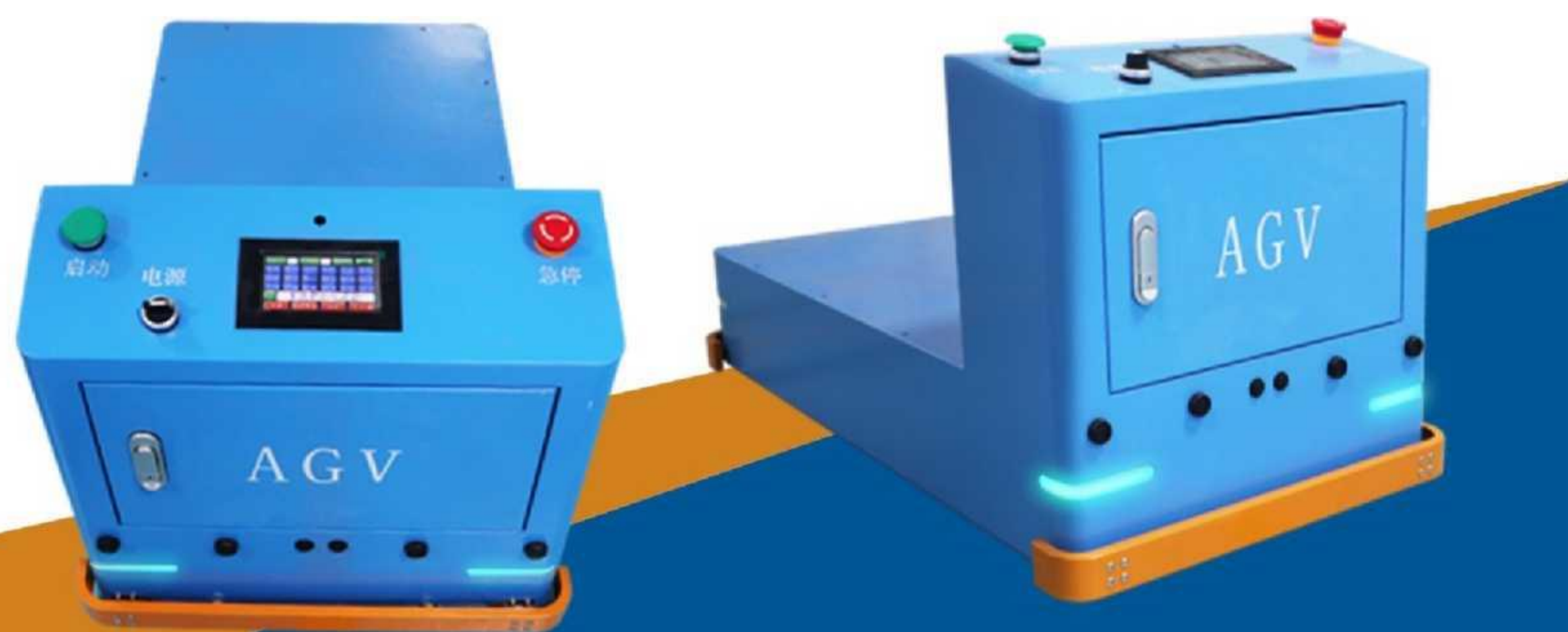


Optional Functions

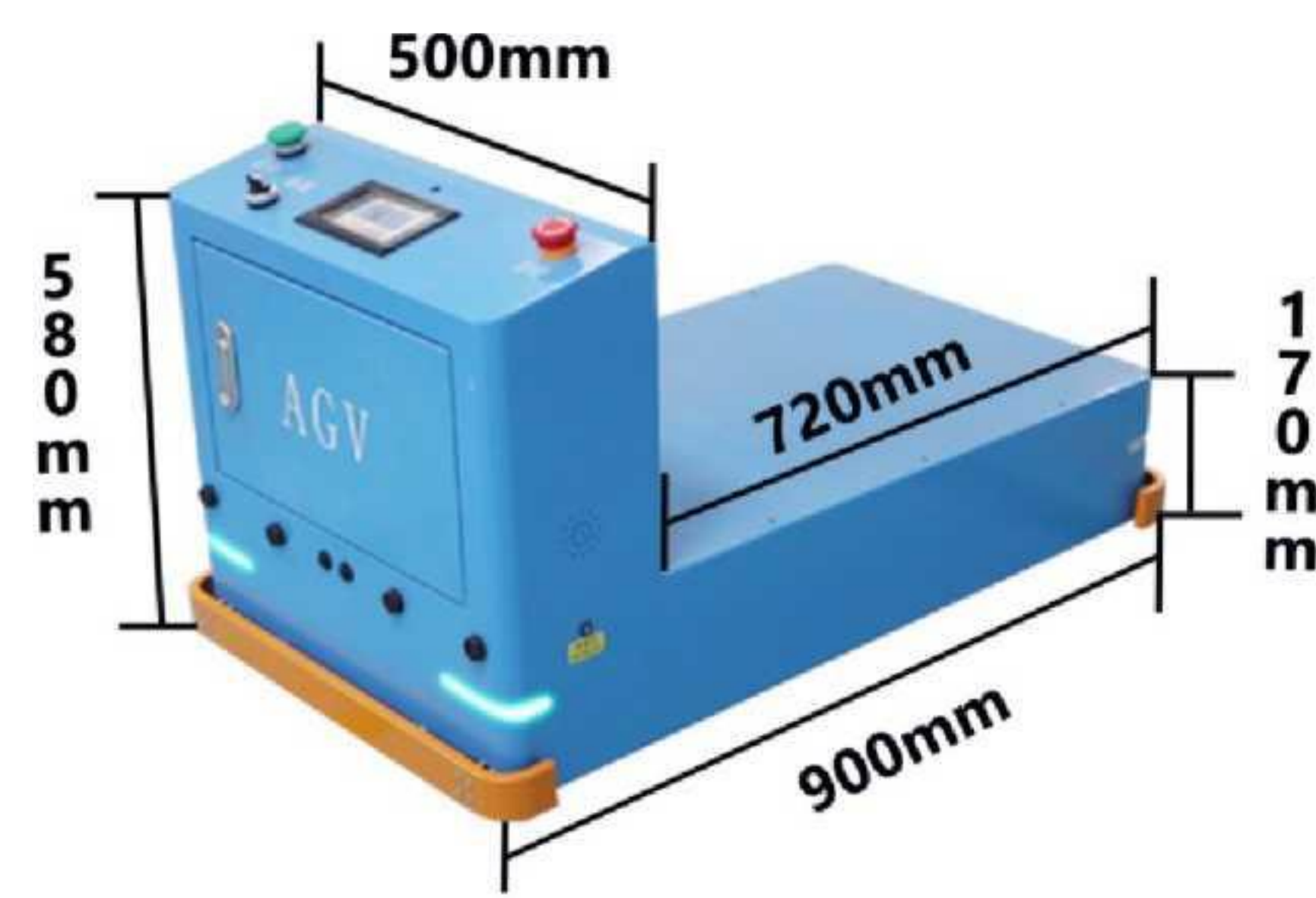
-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

SM-AGV100KG-L

SM-AGV100KG-L is a simple, lightweight, low-power, and ultra-long-endurance backpack-type intelligent transport trolley. It is suitable for the electronic factory wave soldering furnace, SMT, and other requirements in the production workshop. The trolley is easy to use and has functions such as battery power shortage alarm, obstacle sensor, emergency stop switch, multi-site selection, etc. The trolley operates with magnetic navigation guidance and can be customized according to customer needs.



Model	SM-AGV100KG-L
Navigation method	Navigation strip;can drive towards inter-direction
Loading capacity	100KG
Driving mode	single line+circle route+branch route(customizable)
Speed	20-40m/minute(adjustable)
Min. Turning radius	0.8m; can make a 90° (L type) turning
Stop accuracy	2CM
Battery Type	lithium battery 24V20AH
Battery life	more than 10 hours (customizable)
Standby time	200 hours
Charging time	5 hours
AGV dimension(MM)	L900 X W500X H480
Plate dimension(MM)	L720X W500X H170
AGV weight	45KG
Running indicator	LED lights both at the Front and rear; running indicator light + flashing red light when there is an obstacle
Drive	Brushless Motor Differential Ratio
Obstacle detection method	Ultrasonic radar + infrared sensor
Touch anti-collision switch bar	1 at the front and 1 at the back
LCD display	4.3-inch high-definition touch screen
Automatic Route Planning	Automatic Route Planning available
Start	Manual start + timing start + remote control start; wireless serial communication can be added to support secondary development
Site selection	20 RFID Cards
Charging method	DC charging/ battery charging
Remaining power indicator	auto-alarm in case of power shortage
Spare part	20m navigation strips, 20 RFID Cards, 6 deceleration cards, 4 obstacle avoiding cards,5A charger
Warranty	1 year



Optional Functions

-  stop defer
-  Wireless control
-  Gravity sense
-  Wireless DC Charging Device

Automatic charging pile for AGV Robot

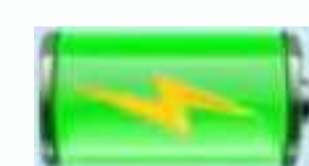
Automatic docking and charging when the car arrives at the station



Automatic wireless communication with the car
- automatic charging when power is low



The car can be connected to the charging pile through wireless RS232 communication to achieve independent charging with the car. The telescopic switch can be pressed, and the charging technology is flexible to realize charging. The protection is safe and labor-saving.

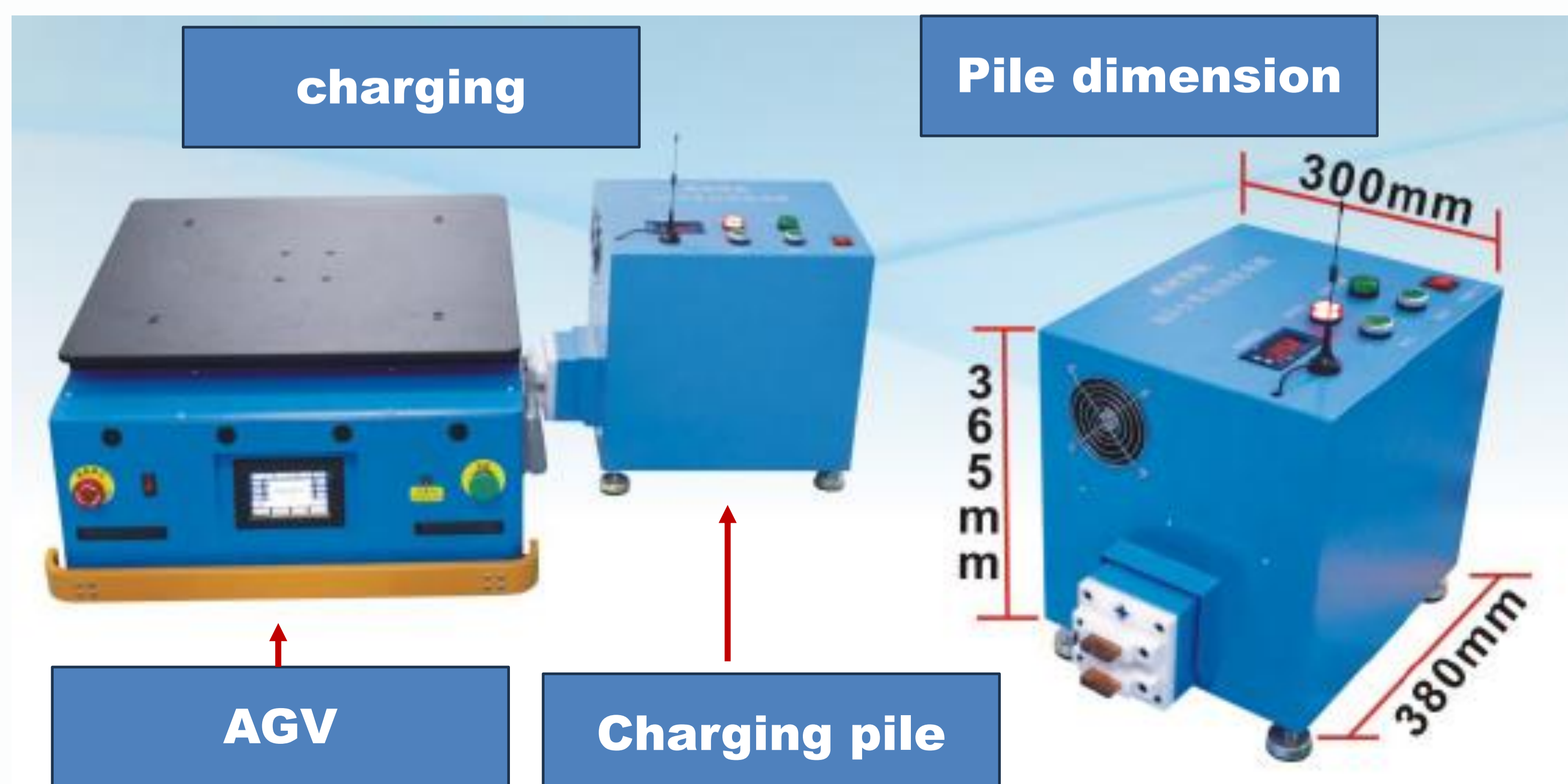


charging design

The use of adaptive control technology overcomes the impact of charging distance and load changes on system performance and can provide accurate and more reliable charging protection for batteries and prolong battery life.

Automatically retracts after full

Model	SM-AGV-810
charging method	AGV goes towards the pile for charging automatically when in short of power; or charging by manual
Input voltage	AC220V
Charging voltage	25.2VDC
recharging current	2-5A
Pair communication	Using wireless communication RS232, signal docking
overcharge protection	yes
overload protection	yes
voltage ripple	W5%
Power Efficiency	N75%
Charging pile size (MM)	Length 380X Width 300X Height 365
Self-weight of charging pile	10KG
Telescopic distance (MM)	100mm
cooling	High speed cooling fan
Working temperature	-20~+4(yc)
Charging distance	The placement size of the car and the charging pile: 30mm
level deviation	±20mm
Suitable for models	All AGV car models (customizable)



vis@smthelp.com

Automatic charging pile for AGV Robot

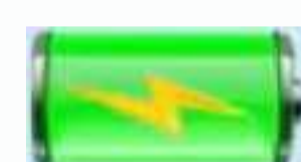
Automatic docking and charging when the car arrives at the station



Automatic wireless communication with the car
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The car can be connected to the charging pile through wireless RS232 communication to achieve independent charging with the car. The telescopic switch can be pressed, and the charging technology is flexible to realize charging. The protection is safe and labor-saving.



charging design
The use of adaptive control technology overcomes the impact of charging distance and load changes on system performance and can provide accurate and more reliable charging protection for batteries and prolong battery life.

Automatically retracts after full

vis@smthelp.com

Model	SM-AGV-820
charging method	Electromagnetic induction non-contact charging (launch plate and contact plate cooperate)
Input voltage	AC220V
take over	25.2V 5A
Charging voltage	P 25.2V
recharging current	2-5A
Data transmission frequency band	2.400-2.485GHz 2.4G wireless communication pairing
Voltage regulation accuracy	±5%
Steady current accuracy	±5%
voltage ripple	W5%
Self-weight of charging pile	5.65KG
Launch disc size (MM)	Length 130X Width 130X Height 130 (customizable)
Receiving host size (MM)	Length 280X Width 280X Height 280 (can be customized)
cooling	high speed fan
Working temperature	-20~+40
Charging distance	10~30mm
level deviation	±20mm
Electric pile size (MM)	Length 170X Width 220X Height 385
Suitable for AGV models	All AGV car models (customizable)

charging



Common spare parts for AGV



Navigation Strip



Protective bags for Navigation Strip



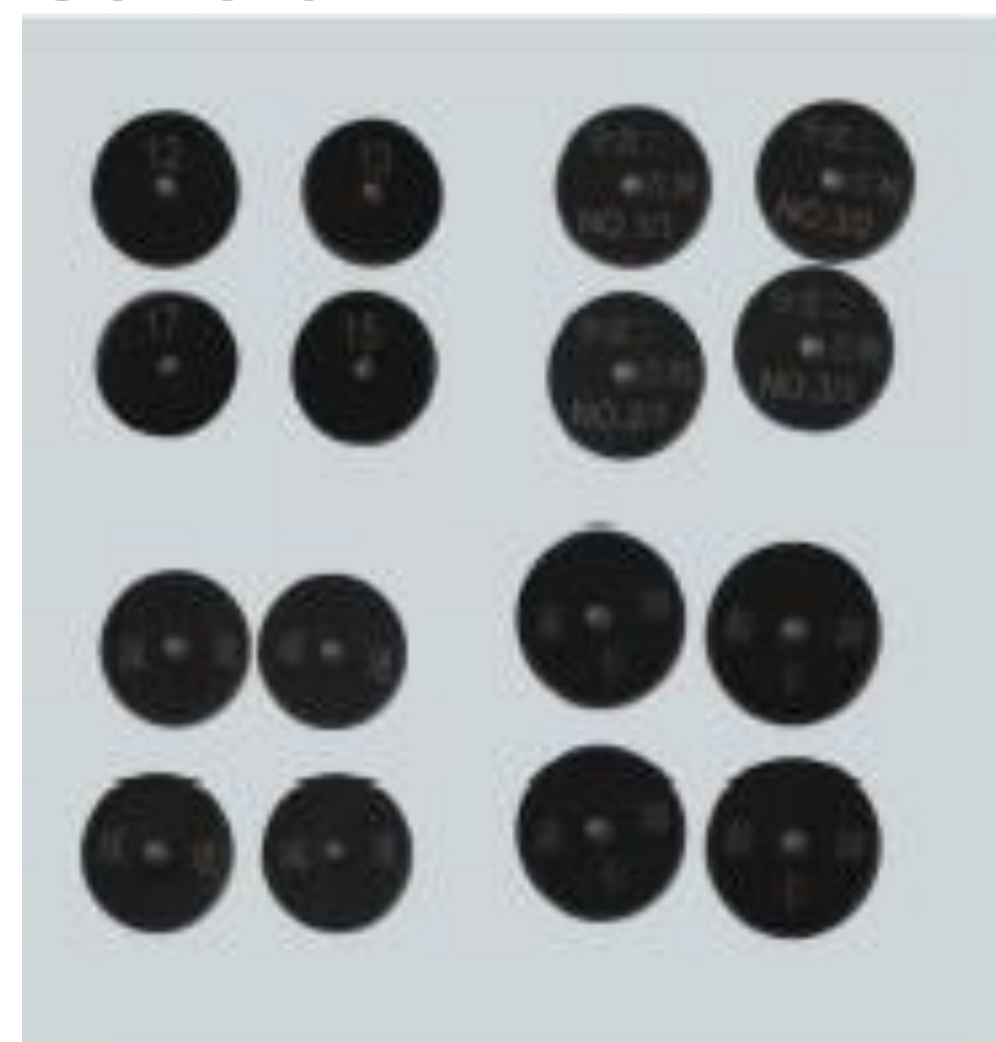
15-key remote control



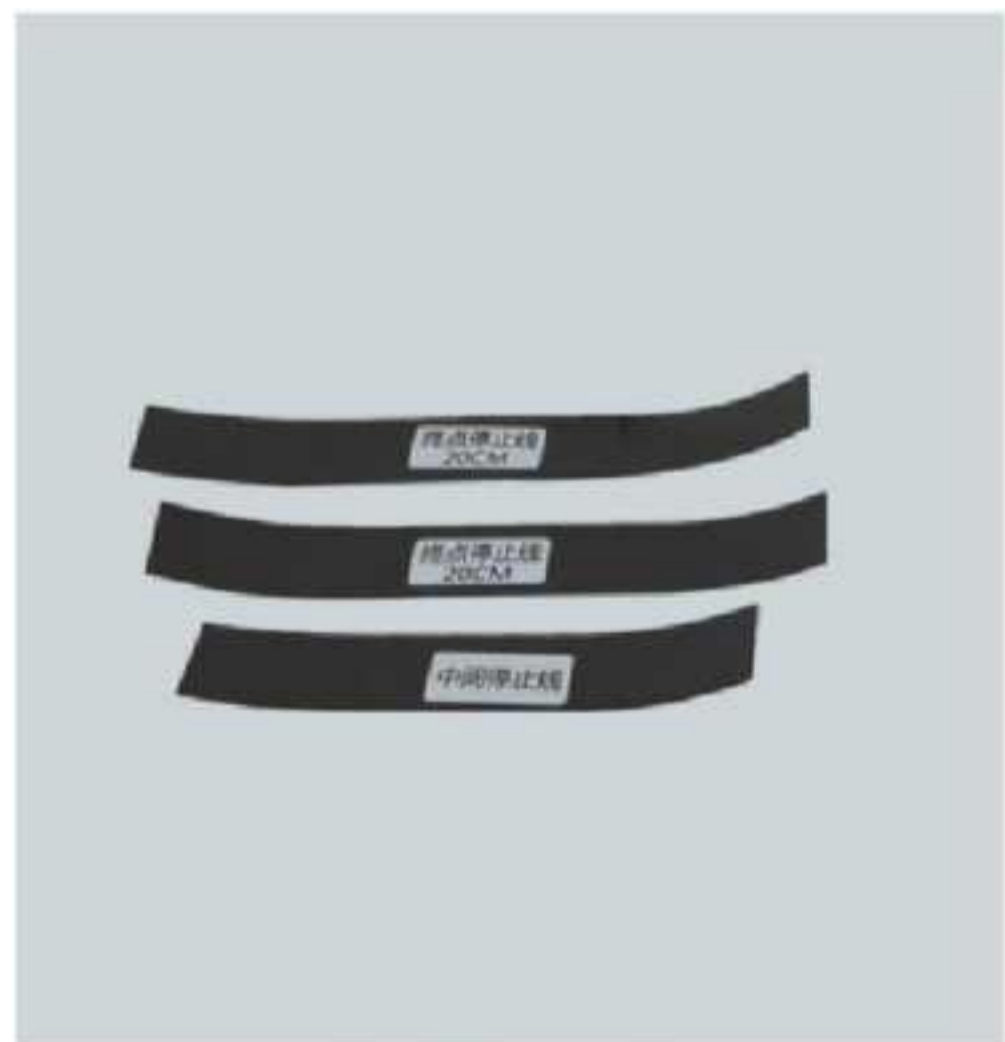
RFID Reader



Charger 25.2V5A



RFID Cards



Strips for stopping



Wireless charging pile



Wireless charging pile

AGV Usage in a SMT plant

