

PERFT

TO MAKE THE TRANSPORT EASIER



BATTERY POWERED RAIL CART

Absorption profession concentration

HENAN PERFECT HANDLING EQUIPMENT CO., LTD

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Display Chart



Principle

BXC series battery powered rail cart is installed inside the flat cart. The power supply provides power to DC traction motors through an electrical control system. Start, stop, advance, retreat, speed control, etc. of the flat cart.

Function

Battery powered rail cart, is a rail electric transport cart in the factory. It has the characteristics of simple structure, convenient use, large carrying capacity, no fear of dirt and smashing, easy maintenance, long service life, etc. Because of its convenience, economy, practicality, easy cleaning and many other advantages, it has become the preferred transport cart for moving heavy objects regular when the journey is fixed.

1. Load-bearing transportation is the most basic and important function of electric flat carts. This series of flat carts have the function of running on curved tracks such as S-shaped and C-shaped tracks.
2. Battery powered rail cart can be equipped with a hydraulic lifting system to realize lifting and other functions.
3. Battery powered rail cart can be turned over and unloaded by hydraulic devices.
4. Safety devices can be installed on the battery powered rail cart, such as proximity switch, stop when meeting people, alarm system, buffer, etc. to realize corresponding safety functions.
5. According to the reasonable requirements of customers, to develop the corresponding customized electric rail cart to realize the required functions.

Security configuration

1. Stopping in case of people and sound and light alarm device can effectively protect the personal safety of workers.
2. The limit limiting and anti-collision buffer device can effectively prevent the tail end of the battery powered rail cart from derailing and effectively prevent the cart body from being damaged.
3. Emergency stop button in case of emergency, the emergency stop button can help the cart to stop in an emergency.

Parameters

1	Load capacity (t)	*
2	Maximum impact load (t)	*
3	Size specification (mm)	(Customized)
4	Height (mm)	(Customized)
5	Two-wheel track (mm)	*
6	Power supply mode	Lithium battery power supply or battery power
7	Mode of operation	On-board handle or remote control
8	Type of drive	Motor drive
9	Brake mode	Mechanical+automatic brake
10	Running speed (km/h)	0-30 (Speed adjustable)
11	Operating noise	≤70db
12	Wheel diameter (mm)	*
13	Continuous operation time	4-6h
14	Idle state	Will lock, unlock

Component description

1.Frame:

The frame is a box beam structure. The frame is not easy to deform and has a load-bearing safety factor of 150%. The frame is a frame structure formed by welding two longitudinal beams, a plurality of cross beams and a table top panel. The two box beams are all welded by rib plates, and the lower part of the table top steel plate is all welded by steel plates into a grid shape. Make the frame stress even, the frame is not easy to deform.



2.Wheel:

The wheel is specially designed for crane, and the wheel is ZG55, which is quenched integrally. The hardness HB320-380 on the inner side of the tread and rim of the wheel is 20mm deep. After the wheel is assembled, it can rotate flexibly. It has the characteristics of high strength and long wear resistance.



3.Motor:

DC motor is a motor that converts DC energy into mechanical energy. It has the characteristics of good speed regulation performance, large starting torque and uniform speed regulation. Compared with general motors, it has great advantages in performance.



4.Power supply:

The polar plate of the storage battery is composed of lead and lead oxide, and the electrolyte is an aqueous solution of sulfuric acid. Its main advantages are stable voltage and low price. Disadvantages are low specific energy (i.e. electric energy stored per kilogram of battery), short service life and frequent daily maintenance. Our company generally adopts maintenance-free battery, which has low electrolyte consumption and no need to supplement distilled water. It has the characteristics of shock resistance, high temperature resistance and small self-discharge, and its service life is generally twice as long as that of ordinary storage batteries.



5.Electric control cabinet:

The electrical cabinet is equipped with a main power switch, and the complete set of electrical equipment has power distribution protection, short circuit protection, over current protection, voltage loss protection, zero position protection, emergency power-off protection, safety signs, etc. to ensure the safety of transmission performance, control performance, protection performance, accuracy and reliability, and safe shutdown in case of emergency.



6.Wireless remote control:

The remote controller is imported from Sweden, with reliable quality and long remote control distance. Since it is sent by ASK modulation, it has strong penetration capability! Low bit error rate, safe and reliable. It can simultaneously realize a series of functions such as turning, advancing and retreating of the electric flat cart.



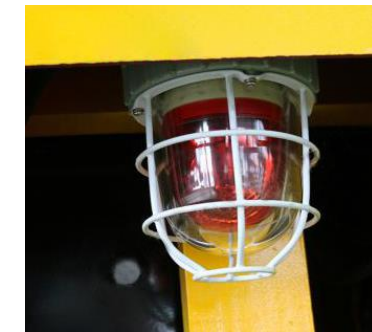
7.Charger:

The high-frequency charger adopts high-frequency power supply technology and adopts a constant current/constant voltage/small constant current intelligent three-stage charging mode, which has the characteristics of high charging efficiency, simple operation, light weight, small volume, and the charger is automatically shut down when the plug is pulled out during charging.



8.Alarm:

The shell of the product is made of high-quality imported raw materials. The light efficiency is energy-saving. The light source is ultra-high brightness solid-state maintenance-free LED light source, which has high light efficiency, long service life, energy conservation and environmental protection. The sound intensity of the sound alarm is as high as 115 decibels and has strong penetration capability. Can effectively remind the field staff to pay attention to safety.



9.Buffer:

Made of rubber, mechanical friction, spring impact reduction and other principles, the anti-collision buffer device is used to prevent the cart body from directly hitting other hard objects (mostly walls or other flat carts). The anti-collision buffer device helps buffer in case of emergency and effectively prevents the cart body from being damaged.



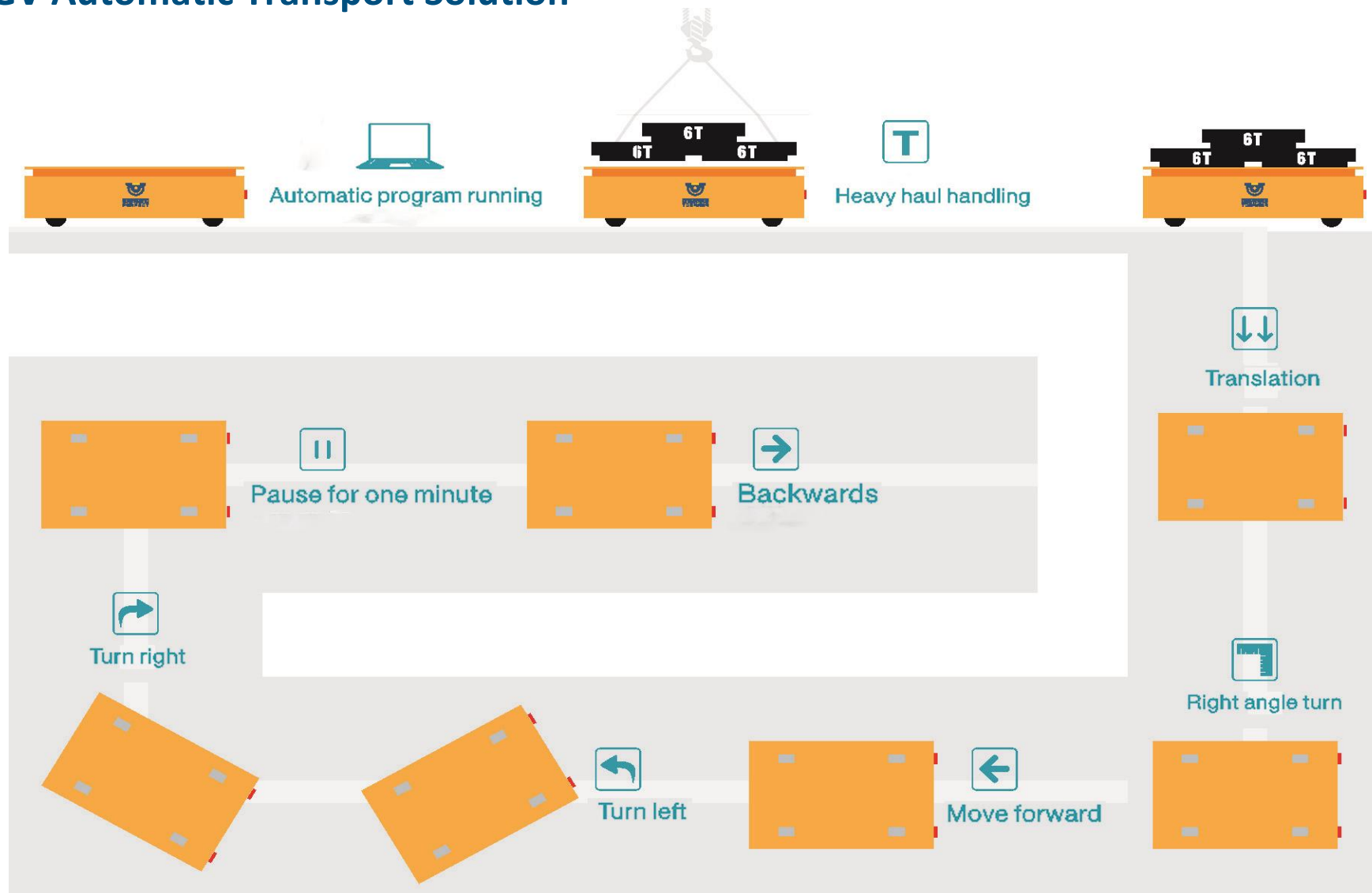
Advantage

1. Battery powered rail cart have the advantages of safety and mobility, no distance limitation in operation, adjustable speed, smooth starting, large starting torque, small impact on speed reducer, low voltage, long service life, etc. The requirement for track laying is also not high, and is suitable for occasions with low use frequency and long distance transportation.
2. Battery powered rail cart use DC motors, which are suitable for frequent use and have higher safety and mobility flexibility. Satisfy the transportation environment with higher usage frequency, and can be equipped with a hard gear reducer, which makes the later maintenance of carts simpler.
3. Battery powered rail cart are relatively simple in mechanism, convenient to overhaul, easy to disassemble and assemble, strong in bearing capacity, long in service life, low in requirements on track laying, low in cost, and suitable for occasions such as harsh environment and high temperature environment.
4. Battery powered rail cart are suitable for various use environments. They can work in indoor, outdoor, inflammable and explosive environments. They can also be equipped with hydraulic devices and buffer devices. The operation is simple, and an on-board operation console can be added to the cart under the condition of long transportation distance, thus satisfying the long-distance transportation of customers and realizing humanized design.
5. Battery powered rail cart can be equipped with PLC control system to automate rail carts, greatly increasing work efficiency.

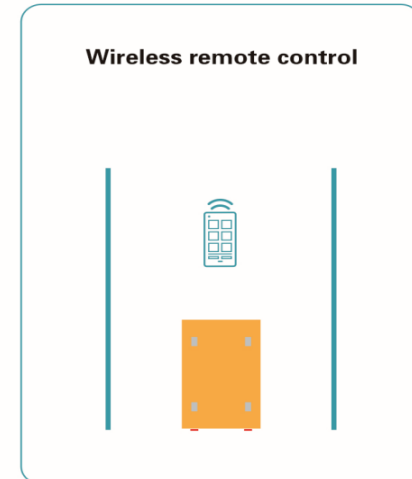
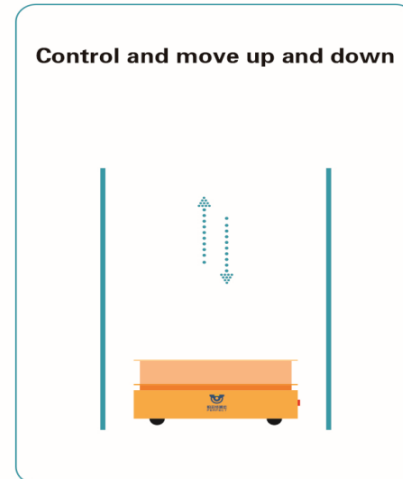
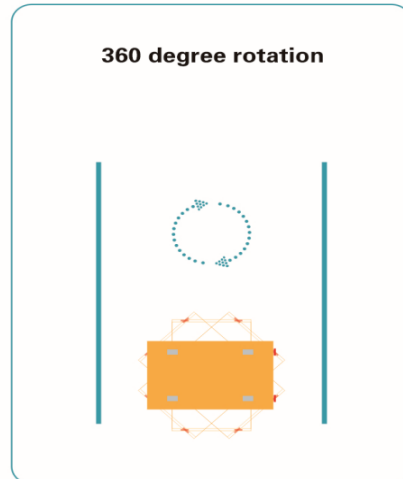
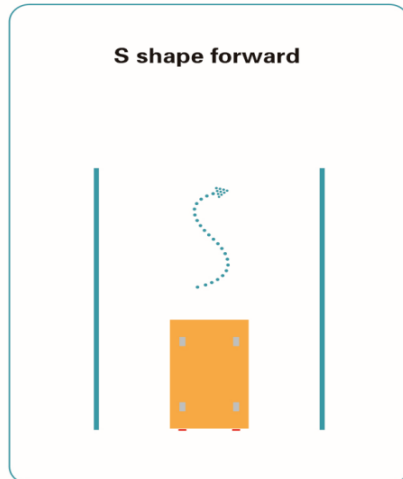
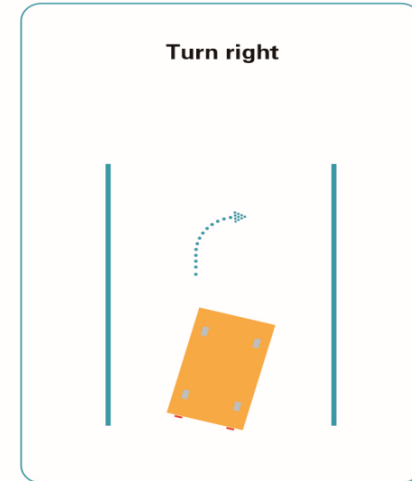
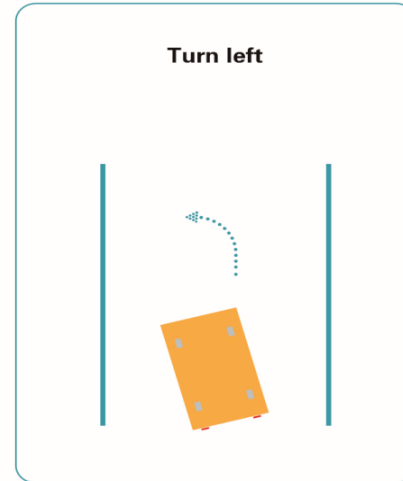
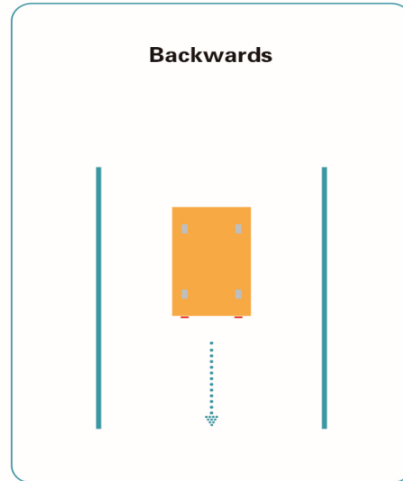
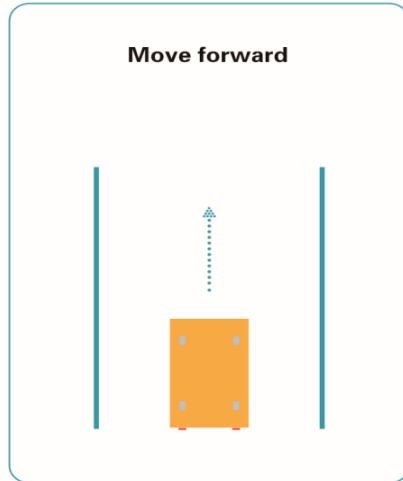
Products

	Series	Customized
BWT	Industrial Trailer	Tractors, Rickshaws
BP	Manual Rail Cart	Cart ferry, Climbing cart, Lift cart
BWP	Trackless Transfer Cart	Coil cart, Turntable cart, Automation
BDG	Rail Powered Transfer Cart	Loading cart of uncoiler, Roller support cart
BXC	Battery Powered Rail Cart	Three-storey cart, Side rollover, turning cart, Split cart
BTL	Trailing Cable Powered Transfer Cart	Traversing cart, Billet cart, Manual transfer cart, Ultra-low cart
BJT	Cable Drum Powered Transfer Cart	Cross rail cart, Contactless power supply cart, Die Mold Cart
BGJ	Rail Flaw Detection Vehicle	
AGV/RGV	Automated Transfer Vehicle	
BZP	Industrial Turntable	

AGV Automatic Transport Solution



Trackless Transport Solution



Functional Customization

01 Frequency conversion startup

02 Explosion-proof occasion

09 WIFI wireless communication

11 Anti rollover

13 Climbing

03 Lifting function

10 Load-bearing function

12 Automatic balance

04 Rollover function

07 Mesa precision

14 Track turning

17 Ultra low table

19 Rocker wireless remote controller

05 Fixed-point stop

08 Scanning radar

15 Aisle fork

18 Roller support

20 Waterproof treatment

06 Positioning accuracy

16 Roller support

21 Traverse unit

Successful Case



Service Commitment

PERFT is committed to providing the highest quality of service to our customers. We offer a comprehensive range of services to ensure your satisfaction and peace of mind. Our commitment is to provide the best possible service at all times.

Pre-sale >

- 1 Ten days of delivery
- 2 Door to door service
- 3 Engineering turnkey
- 4 Lodging and lodging

After-sales >

- 1 Low failure of imported parts
- 2 Be on the scene 24 hours a day
- 3 Replacement of accessories is free of charge
- 4 Quality assurance 2 years

Company Introduce



Henan Perfect Handling Equipment Co., Ltd. is a professional international handling equipment company integrating research and development, design, production and sales. The company has more than 150 employees, 10 senior engineers, 15 engineers and 25 technicians, accounting for more than 80% of the employees with postgraduate and college degrees. The company's products are mainly divided into nine series, including (BDG low voltage rail powered transfer cart, BJT cable drum powered transfer cart, BHX sliding powered transfer cart, BXC battery powered rail cart, BTL trailing cable powered transfer cart, BP manual transfer cart, BQY truck tractor, BWP trackless transfer cart, customized cart etc.) The company has passed ISO9001 quality system, CE, SASO and SGS certification, and its products have won eight national patents for electric flat carts. Standardized design and production of products.

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