

TO MAKE THE TRANSPORT EASIER

**PERFT**®



## RAIL POWERED TRANSFER CAR

Absorption profession concentration

**HENAN PERFECT HANDLING EQUIPMENT CO., LTD**

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CE



SGS



## Performance Characteristics:

1. Safe and flexible
2. The running distance is not limited.
3. Speed adjustable
4. Low noise level
5. Save labor cost
6. Environmental friendly
7. Easy operation
8. Easy maintenance
9. Suitable for high using frequency circumstances
10. Any deadweight



## Principle:

BDG series low-voltage rail power supply rail transfer cart is a transfer cart provided with power by rail. The low-voltage rail is laid inside the factory building. The power supply supplies power to the DC traction motor through an electrical control system, which enables the transfer cart to start, stop, move forward, move backward, speed control, etc. smoothly. This series of flat carts can be used in vertical tracks, L-shaped tracks, S-shaped tracks, arc-shaped tracks and explosive and ferry occasions. A hydraulic lifting system can be additionally arranged on the flat cart; Flat cart DC motor has the advantages of stable starting, large starting torque, small impact on reducer, low voltage, long service life, etc. Compared with BJT and BXC series transfer carts, their running distance is not limited, and they also have high requirements for road paving, which is suitable for various transportation occasions. But the battery needs regular maintenance. Due to the limited battery capacity, its service time is limited.



## Performance characteristics

1	Load capacity (t)	*
2	Number of insulated wheels	*
3	Frame structure	Steel plate welded structure
4	Table steel plate thickness (mm)	*
5	Maximum wheel pressure (t)	*
6	Ground requirements	Track laying and ballasting
7	External dimensions (mm)	(Customized)
8	Height (mm)	*
9	Ground clearance (mm)	*
10	Rail inner distance (mm)	Customized
11	Run length (m)	No limit
12	Motor power	*
13	Wheel diameter (mm)	*
14	Wheel material	ZG55
15	Walking speed (m/min)	*
16	Brake mode	Electromagnetic brake
17	Mode of operation	Wired Handle+Wireless Remote Control
18	Cart body color	Custom+Warning Signs
19	Safety inspection	Stop when meeting people
20	Warning device	Audible and visual alarm
21	Other functions	Electric quantity display

## Component Description

**1. Corner Wheel Exclusive Car frame:** The corner wheel is equipped on this cart frame. The frame is of two longitudinal beams, several beams with steel panel welded together, which is crossed welded together and stiffened. In order to prevent concentrated load, which can lead to deformation of the cart, the grid frame can make the table equally loaded. The two groups of wheels are installed close to both ends of longitudinal beams. The arrangement can lower effectively the height of car frame. For the convenience to shipment, lifting holes are set at both sides.

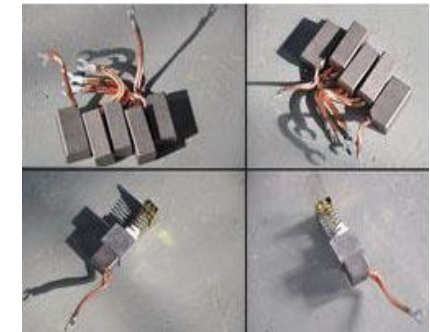
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**2.Reducer:** It adopts a special hard gear reducer for flat carts, with high transmission efficiency, stable operation, low noise, convenient installation and maintenance, and flexible rotation of all levels of shafts.



**3. Carbon brush:** As a sliding contact, carbon brush is widely used in many electrical equipment. Carbon brush products are applied to devices that transmit energy or signals between the fixed part and the rotating part of motors or generators or other rotating machinery. They are generally made of pure carbon and coagulant. They are generally square in shape and clamped on metal supports. Springs are arranged inside them to press it tightly against the rotating shaft. When the motor rotates, electric energy is transmitted to the coils through phase changers. As its main component is carbon, it is called carbon brush and is easy to wear. Regular maintenance and replacement shall be carried out and carbon deposition shall be removed.



**4. DC motor:** it can run at low speed and high power, with stable starting and large driving torque, thus eliminating the need for reducer to directly drive large load; Low voltage, long life, small volume and light weight.



**5. Electromagnetic brake :**Electromagnetic brake is one connector which transfers the torsion from the active side to passive side. It can be freely combined,excision or brake as per actual demand, Due to it is propelled by electromagnetic force to make power, so it is called electromagnetic brake. It is used to stop or slow down the mechanical moving parts, commonly know as brake. It is mainly consist of brake frame, brake component and operation device etc.



**6.Wheel:**The wheel adopts crane special wheel, the wheel is insulated, the wheel material ZG55, the overall quenching, the hardness HB320-380 of the wheel tread and the inner side of the wheel rim, the depth is 20mm, and the wheel is a single wheel rim; The bearing seat adopts one wheel and two bearing seats. The bearing seat adopts QT400-10 nodular cast iron. After the wheel is assembled, it can rotate flexibly.As a result, fatigue resistance, dimensional stability and cutting resistance are relatively good.



**7. Transformer :**For the KBD series transfer cart, the power source 380v is transformed into AC 36v two-phase and are respectively connected to the two rails. Then the flat cart's wheels conduct the AC 36v on rail into the electrical appliance box at the bottom of the cart. And then the AC 36v is transformed into DC 36v and then control the dc motor through the dc control system.



**8. Wireless remote control:** remote control can safely, efficiently and conveniently realize the functions of emergency stop, start, stop, forward, backward, slow travel, etc. The running speed can be adjusted at will from 0 ~ 20m/min, the starting is stable and the performance is stable. The control distance is within 100 meters.



**9. Handle control:** The operating handle leads out 3-5m multi-core cables from the Cart-mounted control box with 4-6 keys to realize emergency stop, start, stop, forward, backward, slow running, etc.  
Power-on: Turn on the emergency stop button, pick up the operating handle or remote control, and click the green button.  
Shutdown: Press the red button and shoot the emergency stop button. This operation is suitable for emergency shutdown.



**10. Acousto-optic warning lamp:** No less than 2 new-type acousto-optic warning integrated alarms are installed at both ends of the rail cart to ensure the safety of the flat cart during operation. At the same time, it can remind on-site personnel to pay attention to safety. High luminous efficiency, long service life, energy conservation and environmental protection; Excellent core circuit design, arbitrary conversion of sound and acousto-optic working modes, sound alarm intensity as high as 115 decibels and strong penetration capability.



**11. Buffer:** The transfer cart is equipped with a buffer to protect the vehicle body from collision with hard objects (walls or other equipment). Two kinds of bumpers can be selected, one is a simple spring bumper mounted on the car body, and the other is welded directly to the cart body during production.



**12. Emergency stop button:** There is an emergency stop button at the front and rear of the transfer cart. In case of emergency, the operator can press it immediately. The transfer cart will no longer operate and only need to rotate and eject.

## Advantage



It can run on curved roads and circular roads, and appropriately increasing the number of step-down transformers is not limited by the running distance of flat carts, thus bringing great convenience to the layout of transportation in long areas.

The rail power supply series electric flat cart is electrified on the rail, and is not suitable for occasions such as paint spraying rooms, dust workshops, smelting workshops and the like. The medium such as paint, iron filings, molten steel and the like will affect the electric conduction and power taking performance of the trolley on the rail,

and is even unsafe. It is also not suitable for outdoor environment, rain and snow weather, and accumulated water

between tracks can easily cause short circuit of the trolley. Compared with BJT, BTL and other cars with cables, BDG flat carts have higher safety performance by converting rectification into safe voltage.

## Function:

1. Transport Function: BDG series transfer car is designed to transferring material, so the first and foremost function is transport.
2. Hydraulic lifting: the BDG series transfer car are able to be installed with hydraulic lifting device according to clients demand to realize lifting.
3. Unloader & tipper: the BDG series transfer car are able to be installed with tipper according to clients demand to unload material.
4. Rolling table: the steerable transfer car can be equipped with roller etc to realize cylinder products turn and other material sliding.
5. Other Functions: we are capable of designing and customizing product as per your requirement.
6. Safety device: safety devices can be installed on electric flat cars, such as proximity switch, stop when meeting people, buffer device and alarm device.



## Application Hydraulic Lift



## Dump



## Roller



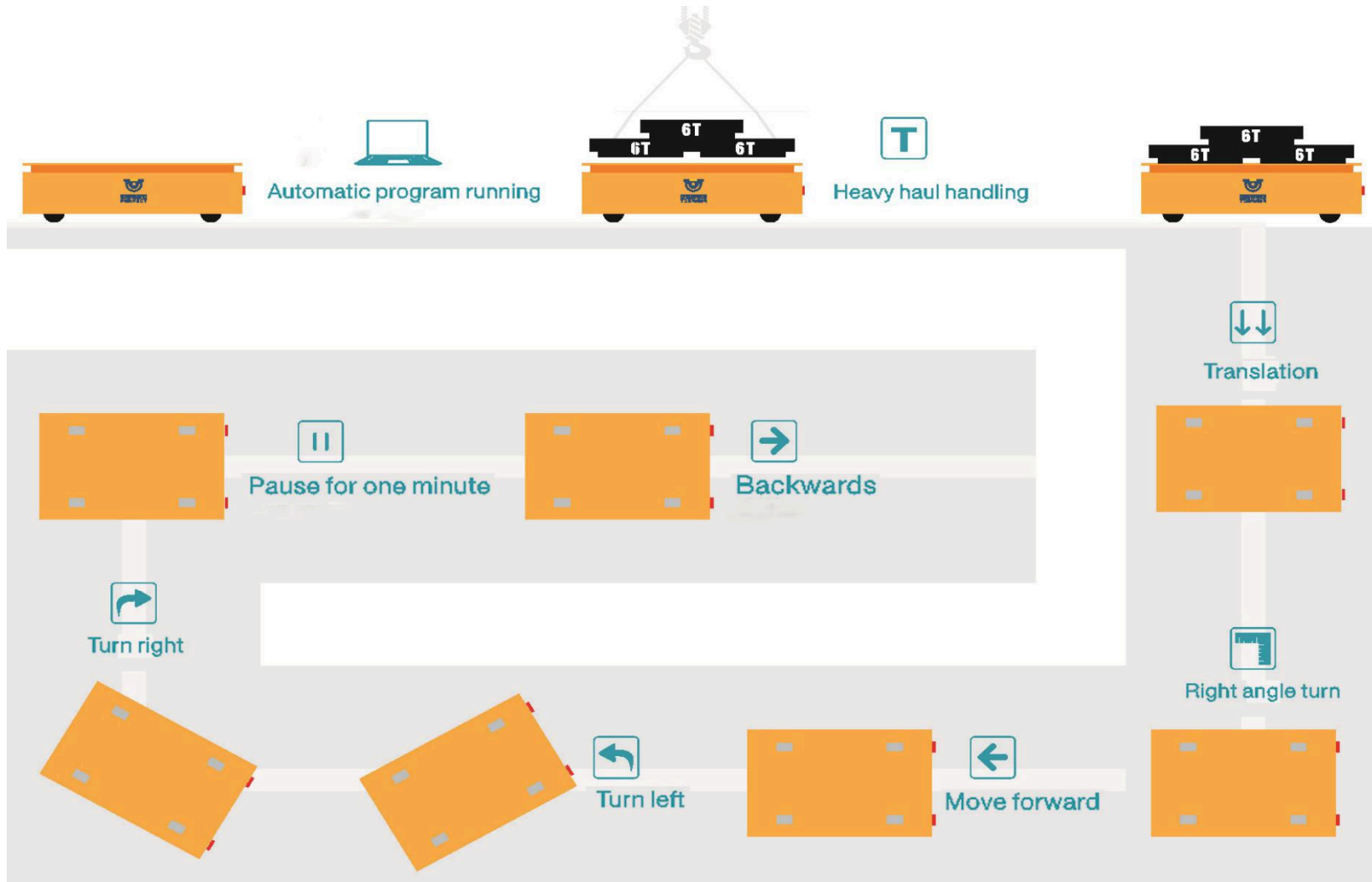


- Before-sale >
  - 1 10 days delivery
  - 2 Free-offer Project
  - 3 Flexible Payment
  - 4 Free Reception
- After-sale >
  - 1 Low Failure Rate
  - 2 Remote Instruction
  - 3 Free Part Replacement
  - 4 2 years' Warranty

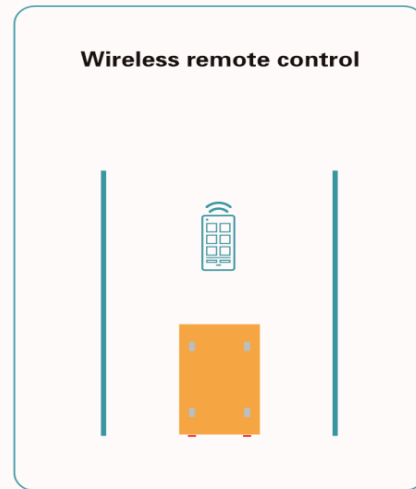
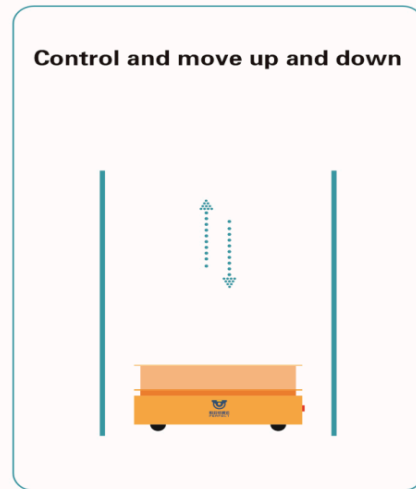
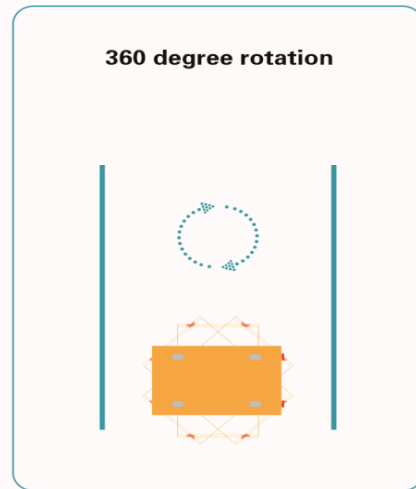
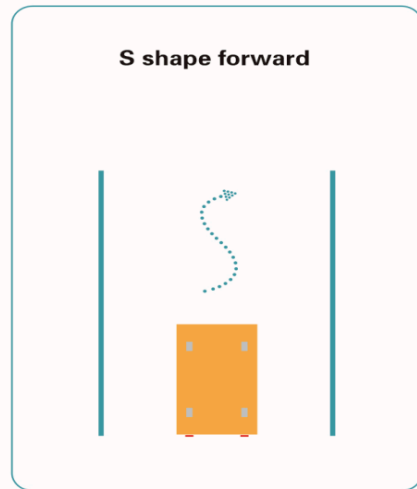
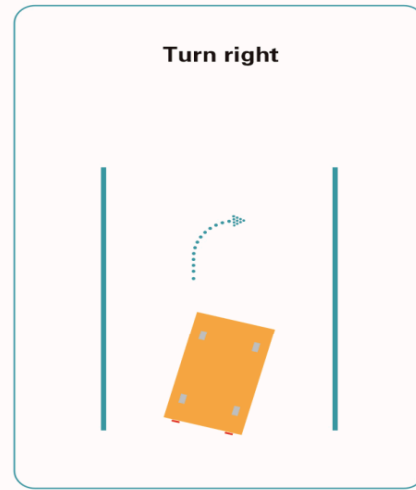
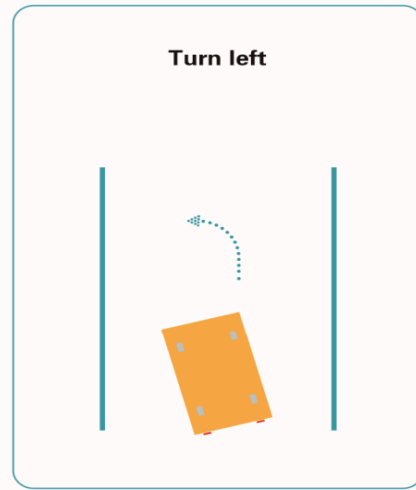
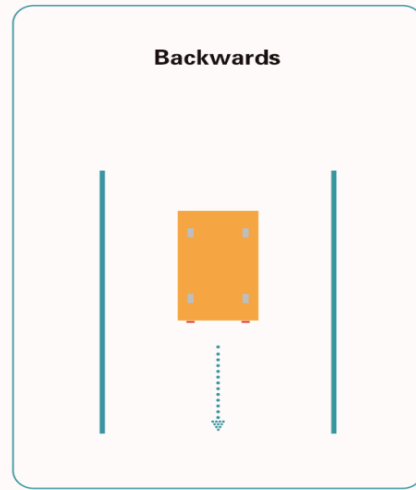
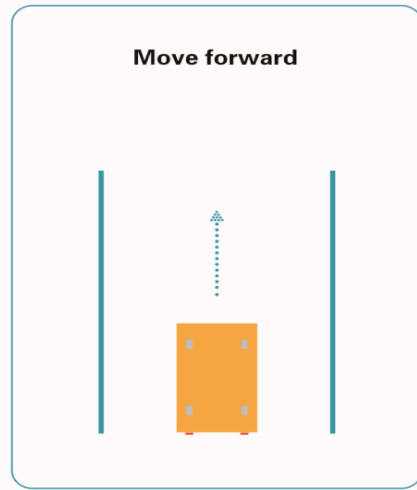
## Product

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

## AGV Automatic Transport Solution



## BWP 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

## Company Introduction



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 transfer 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.

# PERFT<sup>®</sup>

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