



## ***BWP Series Motorized Transfer Cart***



## ***Operation and Maintenance Manual***

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## **Steerable transfer cart**

BWXP series transfer trolley is a kind of trackless material handling trolley. It is powered by storage battery. The battery is installed in the handling trolley and we also equip intelligent charger for it. The transfer trolley is controlled to go forward, backward, turn left, turn right, adjust speed through PLC and speed controller. Because it doesn't need rails, so it has the advantages of convenient use, safety and reliability, simple operation, low cost, and high efficiency. Because it can realize wireless remote control, so it is convenient for workshops transportation in factory. It is suitable for these occasions of crossing transportation of heavy workpiece, process transfer, assembly in standardized factory.

The trackless transfer trolley is made of cart frame, motor, driving device, fixed wheels, swivel wheels, battery, charger, braking device, controller, remote-controller, speed controller, warning device, operation device and safe detecting device and so on.

The trolley turns around any fixed wheel and turns 360 degree. The turning radius is the trolley length.

The motor adopts DC traction motor, the protection grade: IP44. Compact structure, large overload capacity, long service life. Excellent load performance, good low-speed performance, big starting torque, small starting current. It is suitable for frequent start and saves electricity. The motor runs with high efficiency in the range of all speeds. The motor adopts imported high-speed bearing retaining oil, and it is of free maintenance, high reliability and long service life.

The driving device adopts hardened surface gear. It has the following advantages: high mechanical transmission efficiency, stable start, low noise, convenient installation and maintenance. All axles rotate flexibly.

The wheels adopt cast steel, material:ZG55. The whole wheel is treated by hardening and tempering. The wheel tread is polyurethane and the hardness is more than or equal to Shore hardness 93A.

The traction lead-acid battery is selected based on *Traction lead-acid battery*. It accords



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with national standard. The traction lead-acid battery is mainly used in industrial and mining factory, warehouse, dock and station, as the DC power of transfer trolley or forklift. The trackless transfer trolley adopts diesel locomotive starting battery, so it can ensure the car for long time using.

The DC series charger is intelligent charger. It not only has the advantages of electric saving and quick charge, but has no damage to battery, and can also extend the lifetime. The charger adopts constant current and voltage charge+ float charge+ equalizing charge. It can improve the battery receptivity, reduce concentration polarization, electrochemical polarization, and reduce gas producing. Adopting this charge can improve the production efficiency.of battery. Thus the battery get less temperature rise and separate out less gas. This kind of charger has small volume, light weight (traditional charger's 1/2~1/5). It is the top-level product for battery manufacturing factory.

The advantages of this series of trackless transfer trolley are: simple structure, compact transmission system, easy maintenance, high load capacity, long using time, countertops minimal deformation, steady running, easy operation, low noise and the trolley has no strict requirement for the quality of the factory's ground. You not only take care of the ground flatness, but also the turning on the spot. This is your best choice for the transportation equipment between factories which meets the 6S standards.