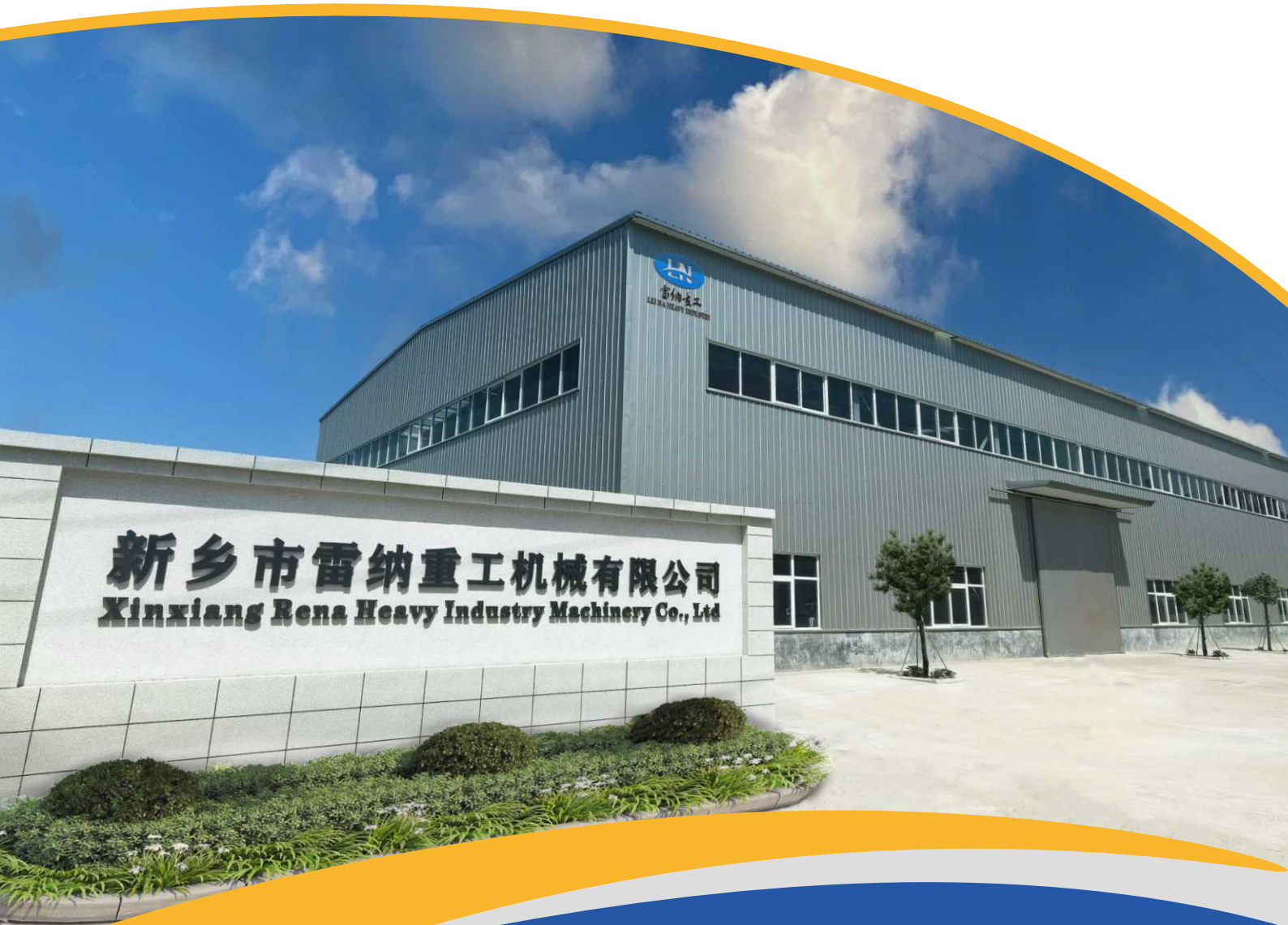


**NON STANDARD CUSTOMIZATION  
ELECTRIC TRANSFER CART**



**雷纳重工**  
LEI NA HEAVY INDUSTRY



**Xinxiang Lei Na Heavy Industry Machinery Co., Ltd**  
**新乡市雷纳重工机械有限公司**

# DIRECTORY

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# COMPANY INTRODUCTION



IOS CERTIFICATION



CUSTOMIZED



HIGH QUALITY

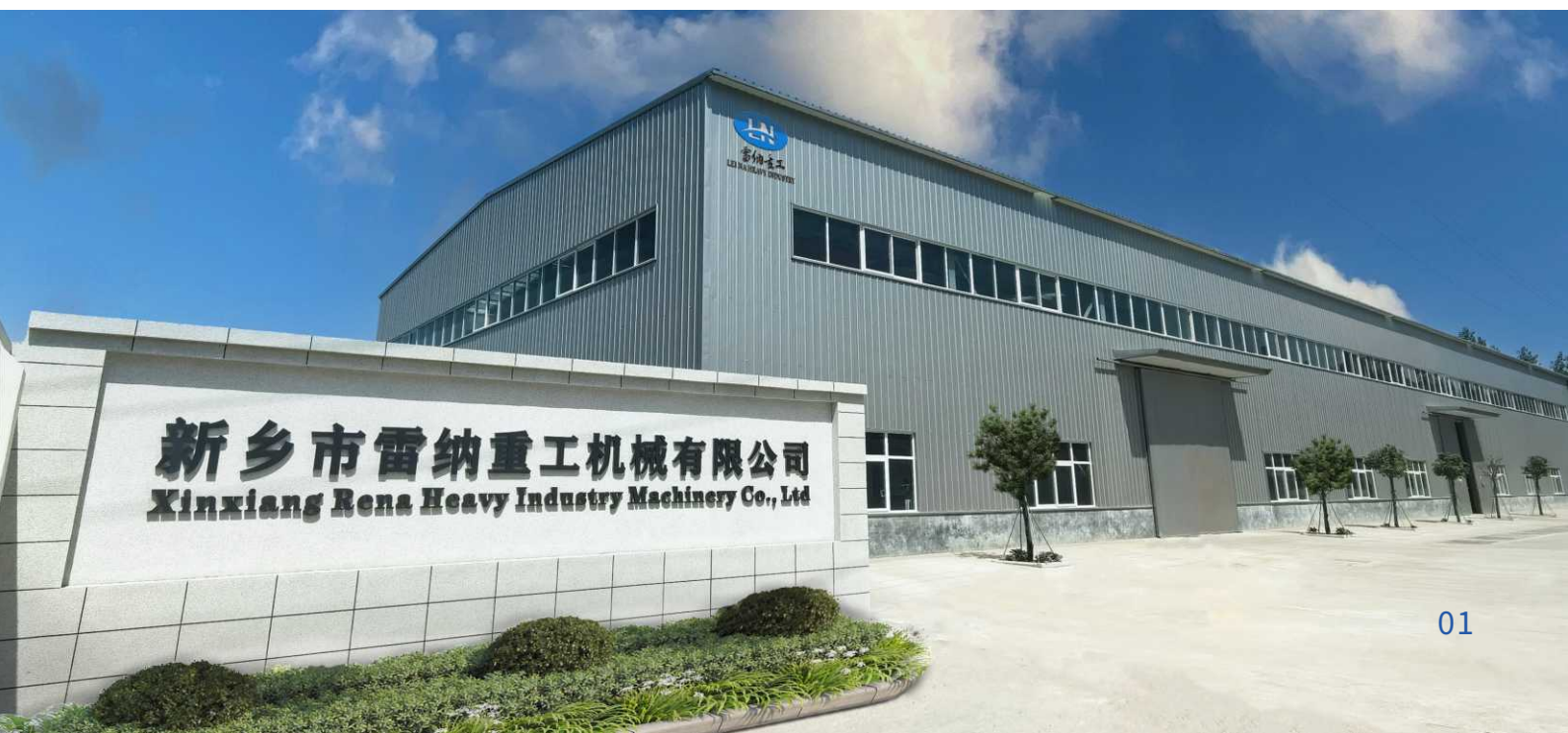


FAST DELIVERY

Xinxiang LEI NA Heavy Machinery Co., Ltd. is a company that focuses on the design, production and sales of electric handling equipment. Its non-standard products can meet the different needs of customers. For many years, it has always adhered to quality first and is committed to the construction of material handling systems in factories, workshops, warehouses, docks, railways and other fields.

Leina Heavy Machinery has more than 20 senior technicians and is a leader in design and manufacturing technology. So far, it has been directly exported to more than 50 countries and regions around the world, basically covering Asia, Central and Eastern Europe, North America and Latin America. It has successfully solved the handling problems for tens of thousands of companies at home and abroad.

The company currently produces KPX battery-powered series electric transfer carts with various tonnages ranging from 1 to 500 tons, KPD low-voltage rail-powered series electric transfer carts, KPJ cable reel-powered series electric transfer carts, KPT towing cable-powered series electric transfer carts, KPC busbar-powered series electric transfer carts, KP non-powered rail transfer carts, LWP trackless electric flat transfer carts, LZP electric rail turntables, LQY electric traction transfer carts, special electric transfer carts, electric transfer cart accessories, track laying, etc. The products are non-standard and customized to meet different working conditions and various needs of customers.





# PHILOSOPHY

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Enterprise quality criteria:  
craftsman spirit, meticulous craftsmanship

Enterprise service criteria:  
sincere and attentive, do at all costs

Enterprise code of conduct:  
vigorous and resolute, immediate execution

Enterprise core concept:  
iron shoulder honesty, innovation is far away

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# LWP Trackless Transfer Cart



## PRODUCT INTRODUCTION

Trackless Transfer Cart is a material handling equipment that does not require laying tracks and runs on flat and hardened ground. Its power is provided by a battery installed inside the transfer cart. Through the on-board electrical control system, the DC traction motor is powered to realize the start, stop, forward, backward, turning and other functions of the transfer cart, which are operated and controlled by a handheld operating handle (wired or wireless).

The biggest difference from the track electric transfer cart is that the operation is not restricted by the track track and can turn and run freely.

The difference from the steering wheel transfer cart is that the body is short, the load capacity is large, the operation is flexible, and it can be remotely controlled from a distance.

The Trackless Transfer Cart can achieve 360° turning in place and vertical and horizontal operation in place.

The length, width, height, running speed, table requirements, etc. of the Trackless Transfer Cart can be customized according to the customer's process requirements.

Model	LWP-2T	LWP-10T	LWP-16T	LWP-30T	LWP-50T	LWP-80T	LWP-100T
Table size(m)	2*1.5*0.45	2.3*2*0.55	4*2*0.6	3.5*2.2*0.7	5.5*2.6*0.8	6.5*2.8*0.95	6.6*3.0*1.2
power	Maintenance free battery						
wheelbase (m)	1.08	1.65	1.7	1.65	2	1.95	2
Wheel Diameter (m)	0.25	0.35	0.4	0.45	0.6	0.6	0.6
speed (m/min)	0-20	0-20	0-20	0-20	0-20	0-20	0-20
Motor Power (kw)	1	1.6	2	3.5	5	8	10
Battery capacity (Ah)	250	250	250	450	500	800	1000
battery voltage (V)	24	48	48	48	48	72	72
Maximum wheel load(kg)	14.4	42.6	64.5	110.4	174	185	190
Reference weight (t)	2.3	4.2	5.5	6.8	8	14.6	26.8

\* Non standard customization, parameter table for reference only

## PRODUCT INTRODUCTION

KPX Battery Powered Electric Transfer Cart is a rail transfer cart powered by batteries. The batteries are installed inside the transfer cart. The power supply provides power to the DC traction motor through the electrical control system to control the start, stop, forward, backward, speed regulation, turning, etc. of the transfer cart. This series of transfer carts can be used on S-shaped tracks, curved tracks, flammable and explosive places, ferries, etc.; hydraulic or mechanical lifting systems, V-shaped frames, roller frames, rollers, weighing devices, etc. are allowed to be installed on the transfer cart table; automatic remote control can be realized. This series of electric transfer carts adopts a box beam structure, which has the advantages of strong bearing capacity, no deformation, smooth start, large starting torque, small impact on the reducer, low voltage, long service life, unlimited running distance, and low requirements for track laying: Compared with KPJ, KPD, KPC, and KPT series transfer carts, it is safer and more maneuverable. It is suitable for medium and long distance transportation with low usage frequency. However, the battery needs regular maintenance. The length, width, height, running speed, track gauge, etc. of this series of electric transfer carts can be customized according to actual needs.



Model	KPX-16T	KPX-30T	KPX-50T	KPX-80T	KPX-100T	KPX-150T
Table size(m)	4*2*0.55	4.5*2.2*0.6	5*2.4*0.6	6*2.6*0.8	6.5*2.8*0.9	10*3*1.2
track width (m)	2.8	3.2	4.2	4.7	4.9	7
Distance within the track (m)	1.4	1.4	1.4	1.8	2	2
Number of wheels	4	4	4	4	4	8
Wheel Diameter (m)	0.35	0.4	0.5	0.6	0.6	0.6
Ground gap (mm)	50	50	50	75	75	75
speed (m/min)	0-20	0-20	0-20	0-20	0-20	0-20
Motor Power (kw)	2	3.5	5	8	10	15
Battery capacity (Ah)	180	250	330	400	440	600
battery voltage (V)	48	48	48	72	72	72
Full load running time (h)	4.3	3.5	3.3	3.6	3.2	2.9
endurance (km)	5.1	4.2	4	4.3	3.8	3.2
Maximum wheel pressure (KN)	64.5	110.4	174	278.4	343.8	265.2
Reference weight (t)	5.5	6.8	8	12.8	14.6	26.8
Recommended track model	P24	P38	P43	P50	QU100	QU100

\* Non standard customization, parameter table for reference only



## PRODUCT INTRODUCTION

KPD low-voltage rail power supply series electric Transfer Cart adopts rail power supply. The ground step-down transformer steps down the AC 380V power supply to AC 36V two-phase, connects to the two tracks respectively, and then takes power through the wheels, introduces it into the on-board electric control box, and rectifies it into DC 36V through the on-board rectifier. Then the DC traction motor is controlled by the DC control system to control the start, stop, forward, backward, speed regulation, etc. of the Transfer Cart. This series of electric Transfer Cart can be used in S-shaped tracks, curved tracks and high temperature occasions; hydraulic or mechanical lifting systems, racks, roller racks, rollers, weighing devices, etc. are allowed to be installed on the Transfer Cart table; automatic remote control can be realized. This series of electric flat cars adopts a box beam structure, which has the advantages of strong bearing capacity, no deformation, smooth start, large starting torque, small impact on the reducer, low voltage, long service life, and unlimited running distance. Compared with KPX battery-powered electric transfer carts, it avoids the problems of battery maintenance and charging troubles, but has higher requirements for track laying (insulation treatment is required). It is suitable for occasions with small loads, high frequency of use, and medium and long distance transportation. When the running distance is long, multiple transformers are required for power supply. The length, width, height, running speed, track gauge, etc. of this series of electric transfer carts can be customized according to actual needs.



Model		KPDZ-2t	KPDZ-5t	KPDZ-10t	KPDZ-20t	KPDZ-25t	KPDZ-30t	KPDZ-40t	KPDZ-50t	KPDZ-63t
rated load (t)		2	5	10	20	25	30	40	50	63
Table size	long	2000	3500	3600	4000	4500	4500	5000	5500	5600
	wide	1500	2000	2000	2200	2200	2200	2400	2400	2400
	tall	450	450	500	550	600	600	650	650	750
Track width (mm)		1200	2500	2600	2800	3200	3200	3800	4200	4300
Distance within the track (mm)		1200	1435	1435	1435	1435	1435	1435	1435	1435
Wheel Diameter (mm)		Φ270	Φ300	Φ300	Φ350	Φ400	Φ400	Φ500	Φ500	Φ600
Number of wheels		4	4	4	4	4	4	4	4	4
Ground gap (mm)		50	50	50	50	50	50	50	50	75
speed (m/min)		0-25	0-25	0-25	0-20	0-20	0-20	0-20	0-20	0-20
Motor Power (Kw)		1	1.2	1.6	2.2	3	3.5	4	5	6.3
Transformer power (KVA)		3	5	5	6.8	6.8	10	10	10	20
run length (m)		80	80	80	80	80	80	60	50	50
Maximum wheel pressure (KN)		14.4	25.8	42.6	77.7	94.5	110.4	142.8	174	221.4
Reference weight (t)		2.8	3.6	4.2	5.9	6.5	6.8	7.6	8	10.8
Recommended track model		P15	P18	P18	P24	P38	P38	P43	P43	P50

\* Non standard customization, parameter table for reference only

## PRODUCT INTRODUCTION

KPJ series cable reel power supply series rail electric transfer cart, is to use 380V power supply through cable to rely on the winding device on the transfer cart to realize the power supply of transfer cart. The winding device is placed under the rail transfer cart, and the power supply is directly controlled by the AC control system to start, stop, advance, retreat, speed regulation, etc. of the motor. The operating

system of the transfer cart adopts low-voltage 24V power supply control: hydraulic or V-shaped frame and other devices are allowed to be installed on the transfer cart table; automatic remote control can be realized. This series of transfer carts can be used in harsh environments such as high temperature, low temperature, explosion-proof, etc.

This series of electric transfer carts adopts a box beam structure, which has strong bearing capacity, no deformation, simple structure, low cost, and low requirements for track laying. It is a common rail transfer cart for workshops. Compared with the KPX series transfer cart, it is not limited by the use time, and compared with the KPD series transfer cart, it has low requirements for track laying. This series of transfer carts is suitable for any load and high frequency of use. For running distances exceeding 50 meters, a cable arranging device is required to lay and assist in winding. The maximum running distance can meet 200 meters. The length, width, height, running speed, track gauge, etc. of this series of electric transfer carts can be customized according to actual needs.



Model		KPJ-5t	KPJ-10t	KPJ-20t	KPJ-25t	KPJ-30t	KPJ-40t	KPJ-50t	KPJ-63t	KPJ-80t	KPJ-100t	KPJ-150t
rated load(t)		5	10	20	25	30	40	50	63	80	100	150
Table size	long	3500	3600	4000	4500	4500	5000	5500	5600	6000	6500	10000
	wide	2000	2000	2200	2200	2200	2400	2400	2400	2600	2800	3000
	tall	550	550	600	650	650	700	700	800	900	1000	1200
Track gauge (mm)		2500	2600	2800	3200	3200	3800	4200	4300	4700	4900	7000
Distance within the track(mm)		1435	1435	1435	1435	1435	1435	1435	1435	1800	2000	2000
Wheel Diameter(mm)		Φ300	Φ300	Φ350	Φ400	Φ400	Φ500	Φ500	Φ600	Φ600	Φ600	Φ600
Number of wheels		4	4	4	4	4	4	4	4	4	4	8
Ground gap(mm)		50	50	50	50	50	50	50	75	75	75	75
speed(m/min)		25	25	20	20	20	20	20	20	20	20	18
Motor Power(kw)		1.5	1.5	2.5	3	4	5.5	5.5	7.5	7.5	11	15
run length(m)		25	25	30	30	50	50	50	50	50	50	50
Maximum wheel pressure(KN)		25.8	42.6	77.7	94.5	110.4	142.8	174	221.4	278.4	343.8	265.2
Reference weight(t)		3.5	4	5.6	6.2	6.5	7.3	7.8	10.5	12.3	14.1	26.2
Recommended track model		P18	P18	P24	P38	P38	P43	P43	P50	P50	QU100	QU100

\* Non standard customization, parameter table for reference only



## PRODUCT INTRODUCTION

KPT series cable powered rail electric transfer cart directly introduces AC 380V cable into the Transfer Cart electrical control system to control the start, stop, forward, backward, speed regulation, etc. of the transfer cart. The placement of the transfer cart power supply cable is achieved by dragging the cable (drag chain can be added) by the movement of the transfer cart. It can be placed on the ground or in the air according to the specific conditions of the transfer cart's use site. The operating system of the transfer cart is controlled by a low-voltage 24V power supply; hydraulic or mechanical lifting systems, V-frames, roller frames, roller tables, weighing devices, etc. are allowed to be installed on the transfer cart table; automatic remote control can be achieved.



This series of transfer carts can be used in harsh environments such as high temperature, low temperature, and explosion-proof.

This series of electric transfer carts adopts a box beam structure, which has strong bearing capacity, no deformation, simple structure, and low requirements for track laying. Compared with other power supply series of electric transfer carts, it has low manufacturing cost and low vehicle height. It is a common rail transfer cart for workshops, and is mostly used in occasions with high frequency of use and low requirements for vehicle height. When the cable is placed on the ground, the running distance of this series of transfer carts should be  $\leq 20\text{m}$ ; for occasions with shorter running distances and slower running speeds, drag chains can also be used to reduce cable wear. If the cable is erected in the air, it is suitable for medium and long-distance transportation of transfer carts.

The length, width, height, running speed, track gauge, etc. of this series of electric transfer carts can be customized according to actual needs.

Model	KPT-5t	KPT-10t	KPT-20t	KPT-25t	KPT-30t	KPT-40t	KPT-50t	KPT-63t	KPT-80t	KPT-100t	KPT-150t
rated load(t)	5	10	20	25	30	40	50	63	80	100	150
Table size	long	3500	3600	4000	4500	4500	5000	5500	5600	6000	10000
	wide	2000	2000	2200	2200	2200	2400	2400	2400	2600	2800
	tall	450	500	550	600	600	650	650	750	800	1200
Track gauge(mm)	2500	2600	2800	3200	3200	3800	4200	4300	4700	4900	7000
Distance within the track (mm)	1435	1435	1435	1435	1435	1435	1435	1435	1800	2000	2000
Wheel Diameter(mm)	Φ300	Φ300	Φ350	Φ400	Φ400	Φ500	Φ500	Φ600	Φ600	Φ600	Φ600
Number of wheels	4	4	4	4	4	4	4	4	4	4	8
Ground gap(mm)	50	50	50	50	50	50	50	75	75	75	75
speed(m/min)	25	25	20	20	20	20	20	20	20	20	18
Motor Power(kw)	1.5	1.5	2.5	3	4	5.5	5.5	7.5	7.5	11	15
Maximum wheel pressure (KN)	25.8	42.6	77.7	94.5	110.4	142.8	174	221.4	278.4	343.8	265.2
Reference weight(t)	3.3	3.8	5.5	6	6.3	7.2	7.6	10.3	12.1	13.9	26
Recommended track model	p18	p18	p24	p38	p38	p43	p43	p50	p50	QU100	QU100

\* Non standard customization, parameter table for reference only



## PRODUCT INTRODUCTION

KPC series busbar powered series rail electric transfer cart, is to directly introduce AC 380V busbar into transfer cart AC control system, control transfer cart start, stop, forward, backward, speed regulation, etc. The installation position of busbar can be in the middle of the track or in the trench outside the track. For safety and convenience, a cover plate can be added above the trench, and the power supply in the trench can be introduced into the rail transfer cart through the automatic flap device. The operating system of transfer cart is controlled by low voltage 36V power supply; hydraulic or mechanical lifting system, V-frame, roller frame, roller, weighing and other devices are allowed to be installed on the transfer cart table; automatic remote control can be realized.

This series of transfer cart can be used in harsh environments such as high temperature and low temperature. This series of electric transfer cart adopts box beam structure, with strong bearing capacity, no deformation, simple structure, low requirements for track laying, low manufacturing cost, low vehicle height, and is the first choice for workshop assembly line; this transfer cart series is generally suitable for occasions with short running distance ( $\leq 50\text{m}$ ), high frequency of use, low vehicle height requirements, assembly line operation, etc.

The length, width, height, running speed, track gauge, etc. of this series of electric transfer carts can be customized according to actual needs.

Model		KPC-5t	KPC-10t	KPC-20t	KPC-25t	KPC-40t	KPC-50t	KPC-63t	KPC-80t	KPC-100t	KPC-150t
rated load (t)		5	10	20	25	40	50	63	80	100	150
Table size	long	3500	3600	4000	4500	5000	5500	5600	6000	6500	10000
	wide	2000	2000	2200	2200	2400	2400	2400	2600	2800	3000
	tall	450	500	550	600	650	650	750	800	850	1200
Track gauge (mm)		2500	2600	2800	3200	3800	4200	4300	4700	4900	7000
Distance within the track (mm)		1435	1435	1435	1435	1435	1435	1435	1800	2000	2000
Wheel Diameter (mm)		Φ300	Φ300	Φ350	Φ400	Φ500	Φ500	Φ600	Φ600	Φ600	Φ600
Number of wheels		4	4	4	4	4	4	4	4	4	8
Ground gap (mm)		50	50	50	50	50	50	75	75	75	75
speed (m/min)		25	25	20	20	20	20	20	20	20	18
Motor Power (kw)		1.5	1.5	2.5	3	5.5	5.5	7.5	7.5	11	15
Maximum wheel pressure (KN)		25.8	42.6	77.7	94.5	142.8	174	221.4	278.4	343.8	265.2
Reference weight (t)		3.3	3.8	5.5	6	7.2	7.6	10.3	12.1	13.9	26
Recommended track model		P18	P18	P24	P38	P43	P43	P50	P50	QU100	QU100

\* Non standard customization, parameter table for reference only

## LQY Electric Rail-Towed Transfer Cart



### PRODUCT INTRODUCTION

Rail-towed transfer cart is an electric rail-towed in-plant transport vehicle. It has the advantages of simple structure, easy use, easy maintenance, large load capacity, less pollution, etc. It is safe to operate without hindering cross-transportation, and it is easy to realize remote control and automation. Rail-towed transfer cart can tow other equipment for use in harsh environments such as high temperature, low temperature, and explosion-proof.

It is widely used in short-distance transportation, and can also be used to transport heavy objects across the span in the workshop with the crane. It brings great convenience to the transportation plan layout of the factory area.

## LZP electric rail turntable

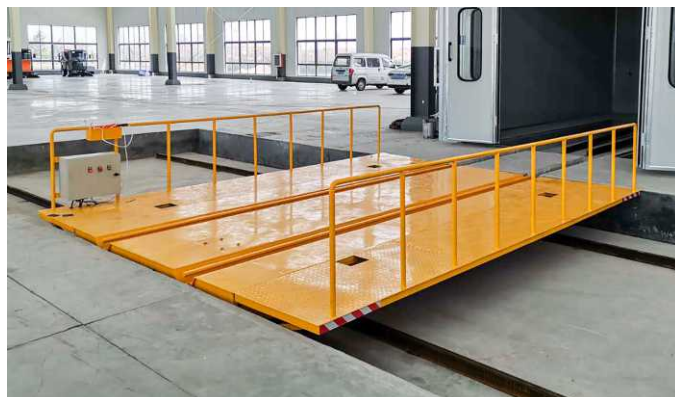


### PRODUCT INTRODUCTION

A rail turntable is a turntable on which rails are laid. The type, gauge, and horizontal height of the two rails are consistent with the rails on the ground that need to be connected with them. It is generally installed below the floor of the workshop and is mainly used in turning tracks, cross tracks, and other occasions. The rail electric flat car can achieve any angle of turning through the rail turntable. Its operation mode is manual and electric, and it can also rely on electricity to achieve automatic operation.



## SHUTTLE



## HYDRAULIC LIFTING ELECTRIC FLATBED



## WEIGHING CAR, STEEL CHARTER CAR



# OTHER SPECIAL MODEL SERIES

## COIL TRANSFER CART



## KP RAIL TRAILER



## ROTARY TRACK CAR





# HONOR AND CERTIFICATION



50

Exported to over 50 countries

130

130 independent technologies

3000

Over 3000 types of products

20000

Over 20000 global cooperative clients

## CORPORATE COMMITMENT

- ★ 1. Any quality problems that occur with electric flatcars produced and sold by Xinxiang Rena Heavy Industry Machinery Co., Ltd. will be covered by the "three guarantees" service provided by our company in accordance with regulations, and the after-sales service department will be responsible for this work.
- ★ 2. During the warranty period (within one year after installation, commissioning, and acceptance with signature and seal), if the electric flatbed provided by our company is damaged or cannot function normally due to quality problems, we will repair or replace it free of charge for the purchaser. If outside the warranty period, our company promises to only charge cost fees.
- ★ 3. After receiving information from customers about the quality of electric flatcars (such as phone calls, letters, or verbal notifications), after-sales service personnel will respond within 2 hours, and personnel from outside the province will be dispatched to the scene within 48 hours; Urgent issues should arrive at the scene within 24 hours; And open a 24-hour tracking service hotline.
- ★ 4. While promptly resolving the quality issues of sold electric flatcars, after-sales service personnel have the obligation to provide technical consulting services and answer other product related questions to users free of charge.
- ★ 5. After the installation, commissioning, and acceptance of our company's electric flatbed at the user's location, we will also establish an initial operation record of the product, which will be signed and stamped to meet the customer's satisfaction.



# PARTIAL COOPERATION CASE PRESENTATION



LWP Trackless Transfer Cart



KPX Battery Powered Series Electric Transfer Cart



KPX Coil Transfer Cart



LWP Trackless Transfer Cart



KPX Battery Powered Series Electric Transfer Cart



KPJ Series Cable Reel Power Supply Series Rail Electric Transfer Cart



KPX Battery Powered Series Electric Transfer Cart



KPT Series Cable Powered Rail Electric Transfer Cart



KPT Diesel engine rail transport vehicle



LWP Trackless Transfer Cart



LWP Trackless Transfer Cart



LWP Trackless Transfer Cart



KPX Electric Rail-Towed Transfer Cart



8+5-ton KPT double structure rail transport vehicle



KPT Series Cable Powered Rail Electric Transfer Cart

*craftsman spirit*  
*meticulous craftsmanship*

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