

**KE CRANE**

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# ***ELECTRIC FLAT CAR***

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# ELECTRIC FLAT CAR

## —— Electric flat car

Electric flat car, some called cross car, and some called ferry car, KP series electric flat car is a kind of linear rail (can also curve) transport vehicles. It has the advantages of simple structure, simple use, easy maintenance, large carrying capacity, and no pollution to the environment, and is widely used in machinery factories, warehouses and metallurgical factories as transport inside and outside the workshop or with cranes to move heavy objects over the span, such as: raw materials, casting and forging, riveting and welding machines, machining parts and finished products. KPJ type, KPD type and KPX type flat car produced by the factory are designed according to the principle of heavy crane, the box-shaped structure, two traffic body ground beam bearing, than the old flat car by four corner boxes for the bearing point, the strength is better, the safety factor is higher, the local carrying capacity is larger, easy to repair, maintenance and beautiful appearance. The new flat car can adopt Weizhong transmission, also can adopt dual drive, with a soft starting motor, so that the flat car runs more smoothly and braking is safer.

## KPD series of electric flat car



KPD series of electric flat car is rail low-voltage powersupply electric flat car, not towing cable, the carwalk wayRail for the cable wire, a step-down transformer supply will be 380 volt power supply voltage to 36 volts (24 V) after, Send to walk co-per rail, and then by the conductive device on the vehicle will be sent to the rise of low voltage electrical transformer 36 volt power supply to 380 voltsAfter work, for motor. Low voltage power supply series of electric flatcar into two series, namely, single phase low voltagepower supply and three - phase low - voltage power supply two.

KPD series of electric flat car												
Single-phase power supply	KPD -6-2	KPD -10-2	KPD -6-1	KPD -10-1	KPD -16-1	KPD -25-1	KPD -40-1	KPD -63-1	KPD	KPD	KPD	KPD
Three-phase power supply	KPD -5-2S	KPD -10-2S	KPD -6-1S	KPD -10-1S	KPD -16-1S	KPD -25-1S	KPD -40-1S	KPD -63-1S	KPD -100-1S	KPD -150-1S	KPD -200-1S	KPD -250-1S
Load(t)	6	10	6	10	16	25	40	63	100	150	200	500
Long(mm)	3200	3200	3600	3600	4000	4500	5000	5600	6300	8000	10000	10000
Wide(mm)	1600	1600	2000	2000	2200	2200	2500	2500	2800	3000	3000	3500
High(mm)	520	520	520	520	650	650	700	850	900	1150	1250	1250
Gauge	762		1435		1435				1800		1800	2000
Wheelbase	1700	1700	2000		2200	2500	2800	3200	3600	4400	6400	6400
Speed(m/min)	30		30		30		25		20	20	20	18
Motor power	2.2KW		2.2KW		3.5KW		5KW	7.5KW		2*7.5kw		
Wheel diameter	Φ400		Φ400		Φ500		Φ600	Φ700	Φ800	Φ700		Φ800
Bottom clearance	50		50		60				60			
Number of wheels	4		4		4				8			
Wheel pressure(t)	2.5		2.5		6	9	14	22	34	26	34	44
Be self-possessed(t)	2.5-2.7		2.7-2.9		4.3	4.7	6.5	9.5	12	24	26	42
Rail	p=24		p=24		p=38		p=43	p=50		p=50	QU80	

According to user needs to design and manufacture kinds of non-standard products, the above parameters can be improved without notice



## KPX battery electric vehicle

KPX series accumulator power supply rail flatcar, is provided by the battery power supply rail flat car, battery installation in the car's interior, power through the electrical control system, providing power to a DC traction motor: make the car start, stop, forward, backward, speed etc.. this series of flat to stype track and arc track, flammable and explosive, ferry occasions: flat car can be additionally arranged on hydraulic lift system: flat DC motor start smoothly, start the advantages of large t-orque, small impact on the speed reducer, low voltage, long service life: compared with KPJ, KPD series flat the car, with the security and flexibility: the running distance is not restricted, the track laying requirements are nothigh, the frequency of use is not high, suitablefor long distance transport-ation. But the battery need regular maintenance battery life as for about 2.5 years, and the use of the limited time.



## KPX battery electric vehicle



KPX battery electric car, with no requirement for insulated rail, rail, low cost, simple operation, Interior minister can distance run, for the transport, the layout isvery convenient. (shape and size and low voltage electricCar is similar, height is slightly high)

name		KPX battery electric vehicle						
type		KPX-5-1	KPX-10-1	KPX-20-1	KPX-30-1	KPX-50-1	KPX-75-1	KPX-100-1
Line weight(t)		5	10	20	30	50	75	100
Countertop size (mm)	Long	3600	3600	4000	4500	5000	5800	6500
	Wide	2000	2000	2200	2200	2500	2500	2800
	High	550	550	700	700	700	850	900
Speed(m/min)		-20-25	-20-25	-20-25	-20-25	-20-25	-20-25	-18-22
Motor power(kw)		2.5			3.0	5	6.3	10
Rechargeable battery	Type	D250/D330/D400						
	Specification	212*140*335						
	Voltage	2V/只						
	Operating voltage	48伏					48伏	78伏
Be self-possessed(t)		3.9	4.3	5.2	6.5	8.3	11.4	14.5
Wheelbase		1435						
Minimum curve radius		30m				35m	55m	70m

According to user needs to design and manufacture kinds of non-standard products, the above parameters can be improved without notice



### **Turn trackless electric flat car**

Design simple and compact structure, mature technology, reliable and large carrying safety factor, stable and reliable, to ensure smooth along the track structure under the action of external force Moving at a constant speed. Electric flat car whole USES the high quality steel, welding is complete, has enough stiffness and strength, the frame of the welding, heat treatment, Inspection and acceptance check in accordance with relevant standards. Relative motion of the mechanical parts reliable lubrication, wear resistance and stable operation. Electric flat car surface After sandblasting, coated with three high-strength anti-rust paint, paint two level, conform to the requirements of the environmental protection regulations, appearance of color can be selected according to customer's request. electric Flat car to have a complete safety protection measures and stop function, reasonable decorate the emergency stop button, to ensure that in the case of emergency and danger, can Convenient quickly to stop operation of personnel and equipment will not cause harm. Electric flat car has overload automatic protection and limit protection Complete de-vice, safety protection measures.



### **KPJ ries of electric flat car**

KPJ series is the roll cable power supply rail flat car, storage will exchange 380V cable car up on line device cable car power supply, below the wire coiling device placed on the rail flat car, directly to the power supply through the exchange control system to control the motor start stop, forward and backward, etc.. operating system for low voltage 36V power control; flat car can be installed hydraulic lifting system: this series of flat car for harsh environment, high temperature environment, explosion-proof environment because the agency relatively simple, low cost, is the shop across the common rail flat-car; relative to the KPX series flat car, not affected by the restriction of time, relative to the KPD series flat car, for track laying requirements is not high, the car is applicable to arbitrary load, the use of high frequency applications: for running a distance of more than 50 meters need to increase the traverse to auxiliary winding. Maximum operation distance can meet 200 —eters.





KPDS series three phase rail power supply track flat car technical parameters table

平车型号 Model	KPDS-2t	KPDS-5t	KPDS-10t	KPDS-16t	KPDS-20t	KPDS-25t	KPDS-30t	KPDS-40t	KPDS-50t	KPDS-63t	KPDS-80t	KPDS-100t	KPDS-100t
额定载重量 Rated load (t)	2	5	10	16	20	25	30	40	50	63	80	100	63
台面尺寸 Table size (mm)	长 Length (L)	3500	3600	4000	4000	4500	4500	5000	5500	5600	5600	6500	10000
	宽 Width (W)	1500	2000	2000	2000	2200	2200	2500	2500	2500	2500	2800	3000
	高 Height (H)	450	450	500	500	550	600	650	650	750	750	850	1200
轮距 Wheel Base (mm)	1200	2500	2600	2800	2800	3200	3200	3800	4200	4300	4300	4900	7000
轨内侧距 Rail Inner Gauge (mm)	1200	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	2000	2000
车轮直径 Wheel Diameter (mm)	φ270	φ300	φ300	φ350	φ350	φ400	φ400	φ500	φ500	φ600	φ600	φ600	φ600
车轮数量 Wheel Quantity (个)	4	4	4	4	4	4	4	4	4	4	4	4	8
离地间隙 Ground Clearance (mm)	50	50	50	50	50	50	50	50	50	75	75	75	75
运行速度 Running Speed (min)	25	25	25	20	20	20	20	20	20	20	20	20	18
电机功率 Motor Power (Kw)	0.8	1.5	1.5	2.2	2.5	3	4	5.5	5.5	7.5	7.5	11	15
变压器功率 Transformer Power (KVA)	3	5	5	6.8	6.8	6.8	10	10	10	20	20	30	20
变压器数量 Transformer Quantity (个)	1	1	1	1	1	1	1	1	1	1	1	1	1
运行长度 Running distance (m)	80	80	80	80	80	80	80	60	50	50	50	50	50
最大轮压 Max Wheel Load (KN)	14.4	25.8	42.6	64.5	77.7	94.5	110.4	142.8	174	221.4	278.4	343.8	265.2
参考重量 Reference Weight (t)	2.8	3.6	4.2	5.5	5.9	6.5	6.8	7.6	8	10.8	12.8	14.6	26.8
荐用道轨型号 Recommended Rail Model	P15	P18	P18	P24	P24	P38	P38	P43	P43	P50	P50	QU100	QU100

Instructions:1, the load, table size, rail inside distance can be designed and manufactured according to customer needs.2, Optional wireless remote control device (imported or domestic).3, Optional automatic stop, limit device.4, optional track automatic power off function.5, optional DC brush motor, DC brushless motor.6, optional domestic electrical appliances, imported electrical appliances.7, optional high temperature occasion requirements.

All kinds of non-standard products can be designed and manufactured according to the needs of users, and the above parameters are subject to technical improvement without notice.

KPJ series cable coil power supply rail flat car series parameter table

平车型号 Model	KPDZ-2t	KPDZ-5t	KPDZ-10t	KPDZ-16t	KPDZ-20t	KPDZ-25t	KPDZ-30t	KPDZ-40t	KPDZ-50t	KPDZ-63t	KPT-80t	KPT-100t	KPT-150t
额定载重量 Rated load (t)	2	5	10	16	20	25	30	40	50	63	80	100	150
台面尺寸 Table size (mm)	长 Length (L)	2000	3500	4000	4000	4500	4500	5000	5500	5600	6000	6500	10000
	宽 Width (W)	1500	2000	2000	2000	2200	2200	2500	2500	2500	2600	2800	3000
	高 Height (H)	500	550	550	600	600	650	700	700	800	900	850	1200
轮距 Wheel Base (mm)	1200	2500	2600	2800	2800	3200	3200	3800	4200	4300	4700	4900	7000
轨内侧距 Rail Inner Gauge (mm)	1200	1435	1435	1435	1435	1435	1435	1435	1435	1435	1800	2000	2000
车轮直径 Wheel Diameter (mm)	φ270	φ300	φ300	φ350	φ350	φ400	φ400	φ500	φ500	φ600	φ600	φ600	φ600
车轮数量 Wheel Quantity (个)	4	4	4	4	4	4	4	4	4	4	4	4	8
离地间隙 Ground Clearance (mm)	50	50	50	50	50	50	50	50	50	75	75	75	75
运行速度 Running Speed (min)	25	25	25	20	20	20	20	20	20	20	20	20	18
电机功率 Motor Power (Kw)	0.8	1.5	1.5	2.2	2.5	3	4	5.5	5.5	7.5	7.5	11	15
运行长度 Running distance (m)	25	25	25	25	30	30	80	50	50	50	50	50	50
最大轮压 Max Wheel Load (KN)	14.4	25.8	42.6	64.5	77.7	94.5	110.4	142.8	174	221.4	278.4	343.8	265.2
参考重量 Reference Weight (t)	2.5	3.5	4	5.2	5.6	6.2	6.5	7.3	7.8	10.5	12.3	14.1	26.2
荐用道轨型号 Recommended Rail Model	P15	P18	P18	P24	P24	P38	P38	P43	P43	P50	P50	QU100	QU100

Instructions:1, the load, table size, rail inside distance can be designed and manufactured according to customer needs.2, Optional wireless remote control device (imported or domestic).3, Optional automatic stop, limit device.4, optional track automatic power off function.5, optional DC brush motor, DC brushless motor.6, optional domestic electrical appliances, imported electrical appliances.7, optional high temperature occasion requirements.

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KPJ series cable coil power supply rail flat car series parameter table

平车型号 Model	KPX-2t	KPX-5t	KPX-10t	KPX-16t	KPX-20t	KPX-25t	KPX-30t	KPX-40t	KPX-50t	KPX-63t	KPX-80t	KPX-100t	KPX-150t
额定载重量 Rated load (t)	2	5	10	16	20	25	30	40	50	63	80	100	150
台面尺寸 Table size (mm)	长 Length(L)	2000	3600	4000	4000	4500	4500	5000	5500	5600	6000	6500	10000
	宽 Width(W)	1500	2000	2000	2000	2200	2200	2500	2500	2500	2600	2800	3000
高 Height(H)	450	450	500	500	550	600	600	650	650	750	800	850	1200
轮距 Wheel Base (mm)	1200	2500	2600	2800	2800	3200	3200	3800	4200	4300	4700	4900	7000
轨内侧距 Rail Inner Gauge (mm)	1200	1435	1435	1435	1435	1435	1435	1435	1435	1435	1800	2000	2000
车轮直径 Wheel Diameter (mm)	φ270	φ300	φ300	φ350	φ350	φ400	φ400	φ500	φ500	φ600	φ600	φ600重	φ600
车轮数量 Wheel Quantity (个)	4	4	4	4	4	4	4	4	4	4	4	4	8
离地间隙 Ground Clearance (mm)	50	50	50	50	50	50	50	50	50	75	75	75	75
运行速度 Running Speed (min)	25	25	25	20	20	20	20	20	20	20	20	20	18
电机功率 Motor Power (kw)	0.8	1.5	1.5	2.2	2.5	3	4	5.5	5.5	7.5	7.5	11	15
变压器功率 Transformer Power (KVA)	3	5	5	6.8	6.8	6.8	10	10	10	20	20	30	30
变压器数量 Transformer Quantity (个)	1	1	1	1	1	1	1	1	1	1	1	1	1
运行长度 Running distance(m)	80	80	80	80	80	80	80	60	50	50	50	50	50
最大轮压 Max Wheel Load (KN)	14.4	25.8	42.6	64.5	77.7	94.5	110.4	142.8	174	221.4	278.4	343.8	265.2
参考重量 Reference Weight (t)	2.8	3.6	4.2	5.5	5.9	6.5	6.8	7.6	8	10.8	12.8	14.6	26.8
荐用道轨型号 Recommended	p15	p18	p18	p24	p24	p38	p38	p43	p43	p50	p50	QU100	QU100

Instructions:1, the load, table size, rail inside distance can be designed and manufactured according to customer needs; 2, Optional wireless remote control device (imported or domestic); 3, Optional automatic stop, limit device ;1,4, optional track automatic power off function ;5, optional DC brush motor, DC brushless motor ;6, optional domestic electrical appliances, imported electrical appliances ;7, optional high temperature occasion requirements.

All kinds of non-standard products can be designed and manufactured according to the needs of users, and the above parameters are subject to technical improvement without notice.

Trackless electric flat car technical parameters table

载重量 rated load(t)	最大冲击载荷 impacted rated load(t)	车架结构 structure of frame	钢板厚度 thickness of the steel plate (mm)	整车总重 cart weight (t)	最大轮压 wheel load(t)	地面要求 ground requirement	外形尺寸 table size (mm)	载重量 rated load(t)	整车高度 height of the whole cart(mm)	离地间隙 space from the ground(mm)	电机功率 motor power (kw)	转向机构 turning structure	蓄电池型号 battery model/quantity	蓄电池维护 battery maintenance	充电器安装形式 charger motor's installation	车体颜色 cart's color	制动方式 brake principle	地面平整调节 ground balance	操作方式 operation method			
																				轴距 axles distance (mm)	行走速度 running speed (m./min)	其他功能 other functions
5	7.5	钢板焊接梁式结构 steel plates welded,beam structure	8	4.3	2.8	水泥地面 cement ground	3000×2000 3600×2000 4000×2200 4500×2200 5000×2200 5500×2300 6000×2300	10	15	50	3.5	机械式 mechanical	φ300/4 φ350/4 φ400/4 φ400/6 φ500/6	免维护 free of maintenance	车载式 installed on cart 分体式 split-type	黄色+警示标志 yellow and warning signs	2500 3100 3400 3900 4300 4800 5200	无间断边走边转弯 turning while driving with no stop	电器按钮控制 control button	配转向灯、夜灯、 电量显示 turning light, night light and power display		
10	15		10	5.3	4.6			3100	5		5										3100	有线+无线 with wire or no wire
15	22.5		12	6.6	4.3			3400	6		6										3400	机械自动调节 mechanical automatic adjustment
20	30		14	7.9	5.6			3900	7		7										3900	雷达测距控制 radar control
30	45		14	8.8	7.7			4300	10		10										4300	3-0.3m 防碰撞 定距锁定自停 automatic stop for obstacles
40	60		16	10	10			4800	12		12										4800	
50	75	16	10.5	10.5	5200	12	12	5200														
5	5	50	1500	2500	2500	转弯方式 turning type	电器按钮控制 control button	450	50	50	3.5	机械式 mechanical	φ300/4 φ350/4 φ400/4 φ400/6 φ500/6	免维护 free of maintenance	车载式 installed on cart 分体式 split-type	黄色+警示标志 yellow and warning signs	2500 3100 3400 3900 4300 4800 5200	无间断边走边转弯 turning while driving with no stop	电器按钮控制 control button	配转向灯、夜灯、 电量显示 turning light, night light and power display		
10	530		1500	3100	3100			5			5										3100	有线+无线 with wire or no wire
15	600		1700	3400	3400			6			6										3400	机械自动调节 mechanical automatic adjustment
20	600		1800	3900	3900			7			7										3900	雷达测距控制 radar control
30	650		1800	4300	4300			10			10										4300	3-0.3m 防碰撞 定距锁定自停 automatic stop for obstacles
40	700		1800	4800	4800			12			12										4800	
50	700	1800	5200	5200	12	12	5200															

All kinds of non-standard products can be designed and manufactured according to the needs of users, and the above parameters are subject to technical improvement without notice.



### Ladle ia a flat car

Ladle is a flat car for high temperature of ladle transportspecific. Due to the high temperature and safety, More wins. flat Falcon Feng material, the demand of the transmission system. Electrical Control Commission for all and common Rail flatcar breeding large area. In order to prevent spilling angry molten steel and slag, motor start and stop are slow, Slow speed, reduce inertia. In order to prevent the heat radiation of ladle. The inside of the vehicle without thermal insulation material In order to prevent the molten steel temperature impact damage to the motor. Dual motor, damaged another bench can continue normal function.



### Rotary electric flat car

Rotary electric flat car is a kind of electric flat car can run on the 90° turn on the track. Principle: the electric flat car running to the electric turntable, Manual or automatic rotary electric rotary disc, the electric flat car along the perpendicular to the orbit docking with the vertical track, to achieve a 90 degree turn, apply to equipment life Circular or-bit, the production line cross track etc.. The system has stable operation, high precision orbit docking, can realize the automatic electrical control.





### ***Vacuum furnace ferry electric flat car***



Vacuum furnace ferry electric flat car is composed of the lower three layers of the body, the first layer of vehicle (the car) for long distance running car: car (car second layer laid on the middle) A rail, the ball screw drive and the vacuum furnace orbital docking; third layer (upper car) The car) for rack and pinion drive with vacuum furnace car automatic docking the car pull vacuum furnace, in order to track second layer of vehicle track and vacuum furnace and dockings smoothly without impulse The strike force, safe and reliable operation of the variable frequency device.

### ***Electric car ferry***

The electric car ferry is composed of an upper and lower car body. The lower car body is used for ferrying. It is generally designed to be below the ground and the upper plane is at the ground level. The lower car body is equipped with rails on the table to connect different tracks to facilitate the two. The layer car transports the items to different tracks that are parallel to each other.



### ***U type electric flat car***

The U type electric flat car is a specially designed fixing device for transporting cylindrical workpieces that are easy to roll and scatter on the flat car table. The U frame is removable to facilitate the transportation of other workpieces.





### **Paint room electric flat car**

The paint room electric flat car in the paint room runs to the paint room, and then the two cars are separated, and the tractor (power supply vehicle) drives out of the paint room to avoid the impact of high temperature on motors and electrical appliances.



### **The abrasive blasting transfer cart**

The abrasive blasting cart adopts a dust-proof design to avoid the impact of sand and dust on the transmission system. The frame is mainly made of welded steel. The gaps in the vehicle body are to facilitate the sand to leak directly from the vehicle body during the sandblasting process, making it easier to sand blast



### **Hydraulic lifting electric flat car**

The hydraulic lifting electric flat car can move freely without being limited by distance without the need for external power. It is easy to operate and can lift freely. The two cars can lift the workpiece at the same time or independently. The hydraulic lifting electric flat car can The raised height can be designed according to the dimensions provided by the customer



### **The hydraulic rail transfer cart**



Loading capacity: 4 tons  
 Power supply mode: battery  
 Countertop size (mm):3000\*1000  
 Table height (mm): 600  
 Gauge: 750  
 Operation method: handle operation + wireless remote control



### **Rail transfer cart with small gauge and large table**

Loading capacity: 50 tons  
 Power supply method: drag cable  
 Countertop size (mm):2500\*4500  
 Height (mm):700  
 Gauge (mm): 1160  
 Operation mode: handle operation



### **Cable reel electric flat car KPJ-200T**

Loading capacity: 200 tons  
 Power supply method: cable reel  
 Countertop size (mm):5000\*4500  
 Height (mm):1100  
 Gauge (mm): 2920  
 Operation method: handle operation + wireless remote control



### **Small tonnage and small rail moment models**

Loading capacity: 3 tons  
 Power supply method: drag cable  
 Countertop size (mm):1714\*880  
 Height (mm):388<sup>30</sup>  
 Gauge (mm): 700  
 Operation mode: handle operation



### **Low table height cart**

Loading capacity: 30 tons  
 Power supply method: safety sliding line  
 Countertop size (mm):4000\*6000  
 Height (mm):350  
 Gauge (mm): 3000  
 Operation method: handle operation + wireless remote control

