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山东锐鼎智能装备有限公司

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多功能系列跨运车

Multi-functional series straddle carriers

山东锐鼎智能装备有限公司

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公司介绍

Company profile

山东锐鼎智能装备有限公司植根于历史悠久的齐鲁大地，坐落在交通便利、举世闻名的五岳之首泰山脚下、羊祜故里起重之乡的羊流镇，公司主要从事物料搬运装备的研发、运营、生产、销售和服务，为客户提供集装箱转运解决方案、储能设备转运解决方案、散料系统解决方案、货场/堆场工厂物流系统解决方案、散改集工程解决方案、非标吊装整体解决方案。整合物料搬运装备领域技术研发优势和品牌优势，推出具有自主知识产权的行走式起重跨运车、自动翻箱机、全自动卸煤系统等产品与解决方案，全面对接港口、码头、工厂对物料搬运设备的非标定制化需求。公司研发团队积极挑战新场景、新高度，先后成功落地行业首台套项目近30项，综合实力已获得比亚迪汽车、宁德时代，山东港口集团、国家电网、南方电网、振华重工、金大地化工等行业知名公司的高度认可，公司一直秉承“追求卓越、品质先行”的经营理念，为客户提供最具竞争力的系统解决方案和优质的售后服务。

Shandong Ruidin Intelligent Equipment Co., Ltd. is rooted in the historic Qilu region, strategically located at the foot of Mount Tai—the foremost of China’s Five Great Mountains—in Yangliu Town, the renowned “Hometown of Hoisting Machinery” and birthplace of the ancient scholar Yang Hu. The company specializes in the R&D, operation, production, sales, and service of material handling equipment, delivering comprehensive solutions for: Container transfer

- Energy storage equipment transport
- Bulk material handling systems
- Yard/factory logistics systems
- Bulk-to-container engineering
- Customized lifting projects

Leveraging technological expertise and brand strength in the material handling sector, Ruidin has developed proprietary products and solutions, including walking lifting transfer vehicles, automatic container tippers, and fully automated coal unloading systems. These innovations address customized demands across ports, terminals, and industrial facilities.

The R&D team continuously pioneers applications in new scenarios and scales, having successfully implemented nearly 30 first-of-its-kind projects. Ruidin’s capabilities have earned recognition from industry leaders such as BYD Auto, CATL, Shandong Port Group, State Grid, China Southern Power Grid, ZPMC (Shanghai Zhenhua Heavy Industries), and Jindadi Chemical.

Upholding the philosophy of "Pursuing Excellence with Quality First," Ruidin delivers highly competitive system solutions and premium after-sales service to its global clientele.

储能跨运车

Energy storage straddling vehicle



基本参数Basic Parameters >>

基本参数 Basic Parameters	SSC35
外形尺寸（长*宽*高） Dimension(L*W*H)	6730*5300*5500mm
起重量 Lifting weight	35T
二级举升高度 Duplex lifting height	1500mm
最小离地间隙 Min. ground clearance	200mm
轴轮胎数量 Tire Qty	4 条
整机重量 Deadweight	30-35T
发动机（非公路国三标准） Engine(China Stagelll)	103KW
行走速度 Travel speed	5km*3km
提升速度 Lifting speed	3m/min
转弯半径 Turning Radius	8000mm
爬坡能力（空 / 满） Gradeability(Unladen/Laden)	3%/6%
轮胎 Tires	充气轮胎 Pneumatic tires
起吊工件 Lifting Device	W: 3300mm; H: 1500mm

储能跨运车（标准版 35T）

Energy storage straddling vehicle (Standard Version 35T)



基本参数Basic Parameters >>

基本参数 Basic Parameters	HKY3532B5	HKY3532A
起重量 Lifting weight	35T	35T
外形尺寸 (长*宽*高) Dimension(Length*Width*Height)	9100*5100*5450mm	7100*5100*6050mm
有效内宽 Inner width	3200mm	3200mm
轮距 Wheel base	6000mm	6000mm
二级举升高度 Duplex lifting height	无 N/A	1550mm
最小离地间隙 Min. Ground clearance	240mm	240mm
整机重量 Deadweight	约 18T(不含吊具 not including spreader)	约 20T(不含吊具 not including spreader)
发动机 (非公路国三标准) Engine(China Stagelll)	康明斯 97KW/ 潍柴 103KW Cummins/Weichai	康明斯 97KW/ 潍柴 103KW Cummins/Weichai
行走泵 (闭式行走) Travel Pump(ClosedTravel)	海德克 / 林德 / 丹佛斯 Hytek/Linde/Danfoss	海德克 / 林德 / 丹佛斯 Hytek/Linde/Danfoss
行走速度 (空载) Travel speed(Unladen)	5km/h	5km/h
行走速度 (重载) Travel Speed(Laden)	3km/h	3km/h
转弯半径 Turning Radius	7000mm	7000mm
爬坡能力 (空 / 满) Gradeability(Unladen/Laden)	5%/3%	5%/3%
操控形式 Manipulation	方向盘 (可选装遥控) Steering wheel(can be remote control)	方向盘 (可选装遥控) Steering wheel(can be remote control)
轮胎 Tires	1100 实心轮胎 +1300 实心轮胎各两条 1100(02PCs)+1300 Solid Tire (02PCs)	1100 轮实心轮胎胎 +1300 实心轮胎各两条 1100(02PCs)+1300 Solid Tire (02PCs)
起吊工具 Lifting Tools	链条 + 锁头 Chain+Lock	自动吊具 Automatic Spreader

集装箱跨运车（储能版 60T-80T）

Container straddle carrier (Energy storage version 60T-80T)



基本参数Basic Parameters >>

基本参数 Basic Parameters	HKY6037	HKY8037
起重量 Lifting weight	60T	80T
外形尺寸 (长*宽*高) Dimension(Length*Width*Height)	12000*5600*6400mm	12000*5900*6400mm
有效内宽 Inner width	3700mm	3700mm
轴距 Wheel base	6500mm	7500mm
二级举升高度 Duplex lifting height	1700mm	1700mm
最小离地间隙 Min. Ground clearance	300mm	300mm
轴轮胎数量 Tire Qty	4 条	8 条
整机重量 Deadweight	约 35T(不含吊具 not including spreader)	约 45T(不含吊具 not including spreader)
发动机 (非公路国三标准) Engine(China Stagelll)	潍柴 129KW	潍柴 176kw
行走泵 (闭式行走) Travel Pump(ClosedTravel)	林德 / 丹佛斯 Linde/Danfoss	林德 / 丹佛斯 Linde/Danfoss
行走速度 Travel speed	3km-5km/h	3km-5km/h
转弯半径 Turning Radius	9000mm	12000mm
爬坡能力 (空 / 满) Gradeability(Unladen/Laden)	5%/3%	5%/3%
轮胎 Tires	实心轮胎 Solid Tires	实心轮胎 Solid Tires
起吊工具 Lifting Tools	大件吊具 oversized Load spreader	大件吊具 oversized Load spreader

集装箱跨运车（电动版 35T-80T）

Container straddle carrier (Electric version 35T-80T)



基本参数Basic Parameters >>

基本参数 Basic Parameters	HKY3532AEV	HKY6037AEV	HKY8037AEV
起重量 Lifting weight	35T	60T	80T
外形尺寸 (长*宽*高) Dimension (Length*Width*Height)	7100*5100*6050mm	12000*5600*6400mm	12000*5900*6400mm
有效内宽 Inner width	3200mm	3700mm	3700mm
轴距 Wheel base	6000mm	6500mm	7500mm
二级举升高度 Duplex lifting height	1550mm	1700mm	1700mm
最小离地间隙 Min. Ground clearance	240mm	300mm	300mm
轴轮胎数量 Tire Qty	4 条	4 条	8 条
整机重量 Deadweight	约 20T(不含吊具 not including spreader)	约 35T(不含吊具 not including spreader)	约 43T(不含吊具 not including spreader)
永磁同步电动机 permanent magnet synchronous motor	80KW	90KW	120KW
锂电池 Lithium battery	磷酸铁锂 Lithium Iron Phosphate	磷酸铁锂 Lithium Iron Phosphate	磷酸铁锂 Lithium Iron Phosphate
行走泵 (闭式行走) Travel Pump (Closed Travel)	林德 / 丹佛斯 Linde/Danfoss	林德 / 丹佛斯 Linde/Danfoss	林德 / 丹佛斯 Linde/Danfoss
行走速度 Travel speed	5km-7km/h	5km-7km/h	3km-5km/h
转弯半径 Turning Radius	7000mm	10000mm	12000mm
爬坡能力 (空 / 满) Gradeability (Unladen/Laden)	5%/3%	5%/3%	5%/3%
轮胎 Tires	实心轮胎 Solid Tires	实心轮胎 Solid Tires	实心轮胎 Solid Tires
起吊工具 Lifting Tools	自动吊具 Automatic Spreader	大件吊具 oversized Load spreader	大件吊具 oversized Load spreader

主要技术及特点

Main Technology and Features



整机结构 Structure

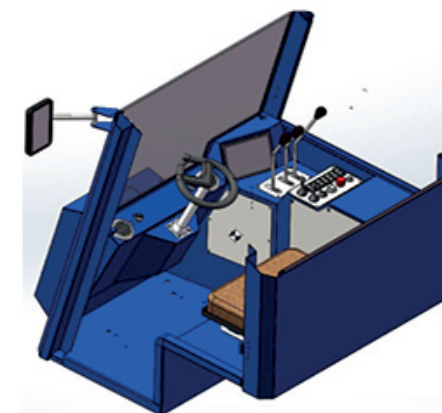
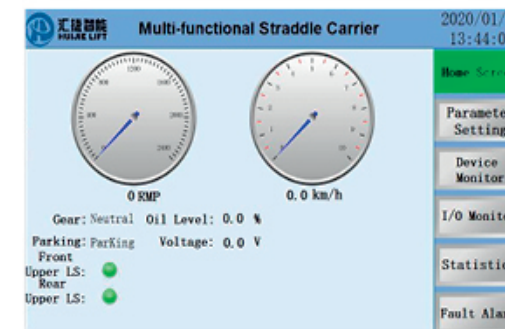
- 采用有限元和动态模拟仿真技术，确保钢结构件寿命。Finite element and dynamic simulation technology is used to ensure steel structure lifetime.
- 整车面漆按海港标准执行，整体喷砂处理后，先底漆、中漆、面漆。
Painting is in accordance with the port standards. After sandblasting treatment, then primer, middle paint and top coating start in sequence.
- 轮胎选用超大超宽实心轮胎，安全耐用，维护成本低。
Solid tires are more enduring with lower maintenance cost.
- 整机重量轻，轮压低，可适应各种复杂路况。
Machine is light with low wheel load pressure, and can work in different working conditions.

电控系统 Electric control system

- CAN总线系统，各种信号以数据方式传播，传送距离远，数据准确，稳定可靠；
CAN bus system, signals are transmitted by data with long distance transmission, accurate data and high reliability.
- 高性能电气元器件：SYMC控制器、倍加福传感器、安费诺连接器。
High-performance electrical components: SYMC controller, P+F sensor, Amphenol connector.

驾驶室液控操作系统 Hydraulic control operation system in Cab

- 选用成熟的液压推杆技术，操作简单、故障率低、维护方便。
Use mature hydraulic hand lever, reducing breakdown, easy for both operation and maintenance.
- 静液压驱动行走技术，无级变速、动作平稳、高效、节能。
Hydrostatic driven travel technology, stepless speed change, smooth movement, high efficiency and energy saving.
- 吊箱侧移对箱机构。Side Shift stacking mechanism.
- 整车平衡防倾斜系统。Anti-rollover protection system.



标准机施工案例

Standard machine construction case list



内蒙



美国



浙江



江苏



山东



天津

标志性施工案例

Typical Construction Cases



上海振华港机



北京海博思创



昆山林德气体



深圳波通纳



深圳比亚迪



天津平高集团

标志性施工案例

Typical Construction Cases



四川亿虎



科陆电子



金风科技



南都电源



中创新航



新源智储

标志性施工案例

Typical Construction Cases



广钢气体



沃太能源



苏州精控



许继电气



阿特斯



中国中车

标志性施工案例

Typical Construction Cases



中国台湾



山东安诚



江苏林洋



内蒙中车



内蒙云储



酒泉南都电源

跨运车综合特点

Comprehensive features of cross-haul trucks



①高可靠性:

相较于老式起吊设备更安全、效率更高、体验更好、每小时可吊箱10个左右，可倾斜倒货装货。

High reliability:

Compared with old-fashioned lifting equipment, it is safer, more efficient, and has better operation. It can handle about 10 containers per hour, which can be tilted and dumped.

②使用范围广:

可进仓库，可吊装各种大件，如风电塔筒、叶片、罐体、结构件、预制件等。

Wide application:

It can enter the warehouse and handle various oversized loads, such as wind power towers, blades, tanks, structural parts, prefabricated parts, etc.

③可定制:

可根据客户货物种类定制机型和吊具，根据国发〔2014〕和〔2018〕33号文件，跨运机不属于特种设备，不需要年检，驾驶人员也无需特种设备操作。

Can be customized:

The models and spreaders can be customized according to the cargo size. According to the National Development and Reform Commission [2014] and [2018] 33 documents, straddle carriers are not special equipment, no annual inspection is required, and drivers do not need special operating certificates.

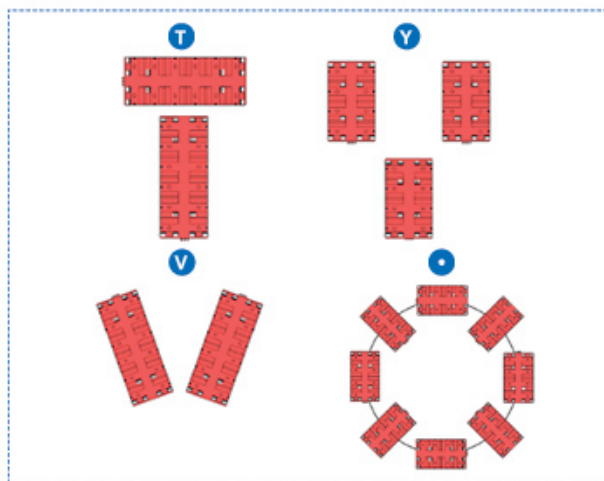
SPMT 自行走模块运输车

SPMT self-propelled module transport vehicle

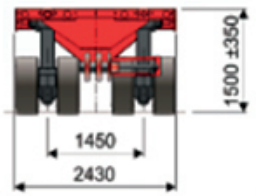
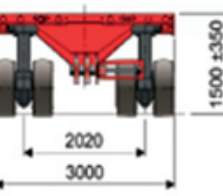


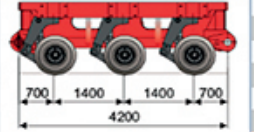
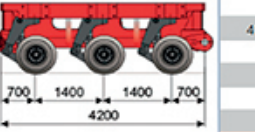
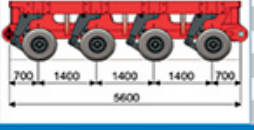
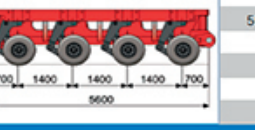
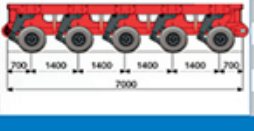
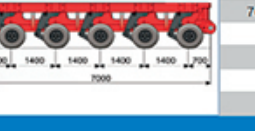
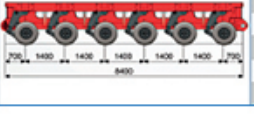
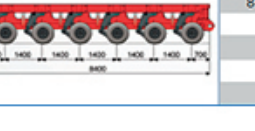
组合和转向
COMBINATION AND STEERING

SPMT模块（离散）组合
SPMT Module (Discrete) Combination >>



参数相关
PARAMETER CORRELATION >>

技术特性	SPMT 40T	SPMT 48T
	2430	3000
		
平台高度	1500±350mm 355/65-15 24Pr TT/TL 285/70 R19.5 315/60 R22.5 385/55 R22.5	1500±350mm 355/65-15ST
轴载	40吨	48吨

3轴线					
型号		2430 L3	3000 L3		2430 L3
平台尺寸	4200x2430 mm	4200x2430 mm	4200x3000 mm	4200x2430 mm	4200x3000 mm
悬挂轴数	6	6	6	6	6
总重	120 t	120 t	144 t	13.7 t	15.5 t
自重	12.7 t	14.5 t	13.7 t	13.0 t	12.9 t
载重	107.3 t	105.5 t	130.8 t	129 t	129 t
4轴线					
型号		2430 L4	3000 L4		2430 L4
平台尺寸	5600x2430 mm	5600x2430 mm	5600x3000 mm	5600x2430 mm	5600x3000 mm
悬挂轴数	8	8	8	8	8
总重	160 t	160 t	192 t	17.8 t	19.3 t
自重	16.5 t	18 t	17.8 t	17.4 t	17.2 t
载重	143.5 t	142 t	174.2 t	172.7 t	172.7 t
5轴线					
型号		2430 L5	3000 L5		2430 L5
平台尺寸	7000x2430 mm	7000x2430 mm	7000x3000 mm	7000x2430 mm	7000x3000 mm
悬挂轴数	10	10	10	10	10
总重	200 t	200 t	240 t	21.7 t	23.2 t
自重	20 t	21.5 t	21.7 t	17.8 t	21.6 t
载重	180 t	178.5 t	218.3 t	216.8 t	216.8 t
6轴线					
型号		2430 L6	3000 L6		2430 L6
平台尺寸	8400x2430 mm	8400x2430 mm	8400x3000 mm	8400x2430 mm	8400x3000 mm
悬挂轴数	12	12	12	12	12
总重	240 t	240 t	288 t	26 t	27.5 t
自重	24 t	25.5 t	26 t	26.2 t	26.5 t
载重	216 t	214.5 t	262 t	260.5 t	260.5 t

自行式液压模块车

Self-propelled hydraulic modular vehicle



自行式液压模块车产品特点:

- (1)窄体模块化设计，单模块宽度2430mm;
- (2)40t超大轴载，尤其适用于集中载荷运输(海洋工程平台等);
- (3)多车并车功能:可实现多达600轴线模块车软、硬联接并车，最大载重量达到20000t;
- (4)多模式转向，单车及并车转向模式相同;
- (5)*国家863计划”重点支持项目，项目编号2009AA044101。

Product Features of Self-Propelled Hydraulic Modular Transporters:

- (1) Narrow-body modular design with a single module width of 2430mm;
- (2) 40t ultra-high axle load, particularly suitable for transporting concentrated loads (e.g., offshore engineering platforms);
- (3) Multi-vehicle coupling function: Supports soft and hard connections for up to 600-axle modular transporters, with a maximum load capacity of 20,000t;
- (4) Multi-mode steering, with consistent steering modes for both single vehicles and coupled vehicles;
- (5) A key project supported by the "National 863 Program," Project No. 2009AA044101.