

# Aotto

## 经典传承 · 智行万里



### 奥图重载无轨运输车

Aotto heavy-duty trackless vehicle

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济南奥图自动化股份有限公司

Jinan Aotto Automation Co.,, Ltd.



# 智行系列全电动重载运输车

## AIC SERIES ELECTRIC HEAVY-DUTY VEHICLE



### 产品介绍 | Product introduction

智行系列全电动重载运输车是济南奥图自动化股份有限公司推出的新型重载运输车。可广泛应用于机械制造、汽车工业、重工制造、模具制造、工程机械、船舶制造、港口货场、钢板配送、钢铁冶金、矿山运输、航空航天、军工等行业。

AIC series electric heavy-duty vehicle can be widely used in machinery manufacturing, automobile industry, heavy industry manufacturing, mold manufacturing, engineering machinery, shipbuilding, port cargo yard, steel plate distribution, steel metallurgy, mining transportation, aerospace, military industry and other industries, etc.

### 产品特点 | Product feature

-  载重10~100T  
Capacity 10~100T
-  0°-360°任意旋转，多种移动模式（横向、纵向、斜向）  
0°-360° arbitrary rotation, multiple movement modes (horizontal, vertical, diagonal)
-  搭载Aotto智造云，手机APP监控设备参数，实现预测性维护、线上管理  
Equipped with Aotto Smart Cloud, monitor device parameters by mobile APP, so make predictive maintenance and online management possible
-  四轮伺服驱动、伺服转向，爬坡可达5%  
Four-wheel servo driven, servo steering, climbing up to 5%
-  可配置自动巡航（磁条、激光、二维码、北斗）  
Navigable by magnetic stripe, laser, QR code or Beidou





智行系列全电动重载运输车(参数表) | Specification

主参数	(1)额定负载 Rated Load (Ton)	10	20	30	50	70	100	
Main Parameter	(1)台面尺寸 Table Size L*W (mm)	4500*2500			5000*2650		6000*3000	
驱动 Drive System	轮组结构 Steering Control	舵轮 Steering Wheel						
	驱动单元数量 Driving & Steering Quantity	2驱动+4转向 2 Driving Wheels + 4 Steering Wheels			4驱动+4转向 4 Driving Wheels + 4 Steering Wheels			
	电机类型 Motor	直流伺服电机 DC Servo Motor						
移动 Moving	空载速度 No-load Speed (m/min)	0-30						
	满载速度 Full-load Speed (m/min)	0-24						
	行驶 Moving Direction	直行/横行/斜行/原地360°旋转 Straight / Horizontal / Oblique / Situ 360° rotation						
	爬坡 Climbing Ability	≤5%						
导航 Guide*	方式 Guide Mode	激光导航/磁钉导航/色带导航/二维码导航 Laser / Magnetic nail / Ribbon / QR code						
	精度 Accuracy	±10mm						
控制方式 Control Mode	手动 Manual	线控/专用无线遥控器控制 Wire control / dedicated wireless remote control						
	自动 Automatic	根据工艺规划，系统自动规划 Route automatically planned according to process requirement						
通讯 Communication	有线 Wire	CAN/Ethernet						
	无线 Wireless	WIFI						
安全保障 Safety	急停按钮数量 Emergency Stop	4						
	激光扫描仪 Laser Scanner	2						
	防撞触边 Safety edges	全方位 All Around the Body						
	防撞梁 Safety Beam*	2						
	3D视觉避障 3D Visual obstacle avoidance*	2						
电源保障 Power Source	电池类型 Battery Type	锂电池 Lithium battery						
	(1)电池容量 Battery Capacity (AH)	200		400		800		
	电池电压 Battery Voltage (V)	48						
	(1)充电机电源 Charger Power (V)	3相 3 phase, 380; 50Hz						
	充电机输出 Charger Output	48V/150A						
	充电时间 Charging Time	0%~100% 3小时，15%~95% 2小时 3 hours for 0%~100% ; 2 hours for 15%~95%				0%~100% 4-5小时，15%~95% 3小时 4-5 hours for 0%~100% ; 3 hours for 15%~95%		
	满载续航里程 Full-Load Endurance distance (m)	≥2000						
	电池寿命 Battery Life	充满满放1500次 Fully charged and discharged 1500 times						
	自动在线充电 Online Charging*	仅在导航模式下有效 Selectable only under guide mode						
	自动在线换电池 Online Battery Change*	仅在导航模式下有效 Selectable only under guide mode						
车身参数	(1)外形尺寸 Outline L*W*H (mm)	4500*2500*650			5000*2650*950	5000*2650*1020		6000*3000*1200
Body Parameter	自重（约） Approximate weight (Ton)	4	5	6	10	12	15	

说明：1. 带\*项均为可选项

2. 标<sup>(1)</sup>的参数可根据客户需求定制

3. 订货格式：AIC□-□

└ 车辆配置 B:标准机型；H:高配机型；S: 超配机型

└ 车辆额定载重

如：50吨标准运输车，订货规格：AIC50-B；

30吨高配运输车，订货规格：AIC30-H；

B 标准机型：国产伺服电机、驱动

H 高配机型：进口伺服电机、驱动

S 超配机型：进口伺服电机、驱动、安全继电器、安全扫描仪

Remarks: 1. Items with \* are options

2. Parameters with <sup>(1)</sup> could be tailored

3. Order format : AIC□-□

└ Configuration B: Basic; H: High; S: Super

└ Capacity

Example : 50T Standard Cart, Order No. is AIC50-B

30T High configured Cart, Order No. is AIC30-H

B Basic configured : Servo motors and drivers from China

H High configured : Servo motors and drivers from Europe and America

S Super configured : Servo motors and drivers from Europe and America, and with safety relays and safety laser scanner



# 经典系列电动无轨重载运输车

## AHC SERIES MOTOR TRACKLESS HEAVY-DUTY VEHICLE



### 产品介绍 | Product introduction

经典系列电动无轨重载运输车是我公司自主研发设计制造，适用于机械制造、汽车工业、重工制造、模具制造、工程机械、船舶制造、港口货场、钢铁配送、矿山运输、航空航天、军工等行业的新型转运设备。特别适用于重载、繁忙的工业应用。

AHC series motor trackless heavy-duty vehicle is developed to transport heavy duty parts in industries such as machinery manufacturing, automobile industry, heavy industry manufacturing, mold manufacturing, construction machinery, ship building, port goods yard, iron and steel distribution, mine transportation, aerospace and military industry.

- 整车采用蓄电池供电、交流电机驱动，承载力大，启动稳定，不依赖导轨，可实现双向行驶。液压转向机构保证了较小的转弯半径，可在较小空间内实现转向。

The vehicle uses battery to supply power, AC motor driving, with large load bearing and smoothly start and stop, no guide rail, and bidirectional driving. Hydraulic steering mechanism ensures small turning radium, making it possible to steer in small space.

- 整车安装有防撞安全保护装置和声光报警系统。采用电磁制动，响应速度快，制动距离短。根据承载吨位不同可选配聚氨酯或无内胎橡胶轮，车轮不损坏车间地面涂层。

The vehicle is installed with anti-collision protection device and audible and visual alarm system. With electromagnetic braking system, the vehicle can response quickly, and with short braking distance. In order to protect the floor surface, polyurethane or tubeless rubber wheels could be selected according to different capacities.

- 车辆标配有两组电池，可轮流使用，保证车辆的持续运行。配备专用的电池更换车，可快速完成电池更换。

To ensure continuous operation of the vehicle and exchange battery quickly, two sets of batteries and one special battery change cart will be within the standard supply scope.

### 产品特点 | Product feature

 <div>不依赖导轨运行 No guide rail for operation</div>	 <div>可双向行驶 Bidirectional driving</div>
 <div>交流驱动，维护费用低 AC driving and low maintenance cost</div>	 <div>转弯半径小，操作灵活 Small turning radium and flexible operation</div>
 <div>可遥控亦可线控 Remote control and wire control</div>	 <div>制动距离短，安全性能高 Short braking distance and high safety performance</div>



经典系列电动无轨重载运输车(参数表) | Specification

主参数 Main Parameter	<sup>(1)</sup> 额定负载 Rated Load (Ton)	30	50		
	<sup>(1)</sup> 台面尺寸 Table Size L*W (mm)	4600*2500	5000*2500	4600*2500	5000*2600
驱动与转向 Drive & Steering System	轮组结构及动力 Steering Control& Power	舵轮，液压 Steering Wheel, Hydraulic			
	驱动&转向轮数量 Driving & Steering Quantity	2驱动+2转向 2 Driving Wheels + 2 Steering Wheels		1驱动+4转向 1 Driving Wheel + 4 Steering Wheels	
	驱动电机类型 Driving Motor	交流电机 AC Motor			
移动 Moving	低速 Low Speed (m/min)	0-15 柜内调整 (adjustable within electric cabinet)			
	高速 High Speed (m/min)	15-30 柜内调整 (adjustable within electric cabinet)			
	行驶 Moving Direction	直行/转向 Straight / Steering			
	最小转弯半径 Min.Turning radius (mm)	5200		5000	
	爬坡 Climbing Ability	≤3%			
控制方式 Control Mode	手动 Manual	线控/专用无线遥控器控制 Wire control / dedicated wireless remote control*			
安全保障 Safety	急停按钮数量 Emergency Stop	4			
	激光扫描仪 Laser Scanner*	2			
	防撞梁 Safety Beam	2			
电源保障 Power Source	电池类型 Battery Type	铅酸电池 Lead-acid battery			
		锂电池 Lithium battery*			
	<sup>(1)</sup> 电池容量 Battery Capacity (AH)	270	400 / 875		
	电池电压 Battery Voltage (V)	48			
	<sup>(1)</sup> 充电机电源 Charger Power (V)	3相 3 phase, 380; 50Hz			
	满载续航里程 Full-Load Endurance distance (m)	≥2000			
车身参数 Body Parameter	<sup>(1)</sup> 外形尺寸 Outline L*W*H (mm)	4600*2500*980	5000*2500*1000	4600*2500*980	5000*2600*980
	自重 (约) Approximate weight (Ton)	7.5	9	9.5	10

说明：1. 带\*项均为可选项

2. 标<sup>(1)</sup>的参数可根据客户需求定制

3. 订货格式：AHC□-□

└ 车辆配置 B:标准机型；H:高配机型

└ 车辆额定载重

如：50吨标准运输车，订货规格：AHC50-B；

30吨高配运输车，订货规格：AHC30-H；

B 标准机型：国产激光扫描仪

H 高配机型：进口安全激光扫描仪+安全继电器

Remarks: 1. Items with \* are options

2. Parameters with <sup>(1)</sup> could be tailored

3. Order format : AHC□-□

└ Configuration B: Basic; H: High

└ Capacity

Example : 50T Standard Cart, Order No. is AHC50-B

30T High configured Cart, Order No. is AHC30-H

B Basic configured : Laser scanner from China

H High configured : Exported safety laser scanner and safety relay







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# Aotto 奥图股份

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