

Let It Become A Pleasure Moving Forward With Heavy Load !

Shanghai Haipeng Unmanned Vehicle Technology Co.,Ltd



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HEAVY-LOAD UNMANNED VEHICLE



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HAIPENG-UMV

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● HAIPENG GROUP

Jiangsu Haipeng Group is a diversified group company that integrates three areas of business: special vehicle manufacturing, automobile sales, and pharmaceutical chain sales. The group currently has over 2,500 employees and its annual sales volume is 5 billion. In the field of special vehicle manufacturing, the company has always insisted on technological research and development as its core competitiveness, establishing its own scientific research center. Its products are widely used in metallurgy, port, logistics, offshore engineering, petroleum, shipping, military and other fields. While deeply cultivating the special vehicle market, the products have been exported to Australia, Southeast Asia, Europe and America for a long time.

In recent years, with the development of the market, Haipeng has begun to invest a significant amount of manpower and resources in the research and development of unmanned vehicles, and has established a subsidiary in Shanghai (HAIPENG-UMV) accordingly.



In the last few years, HAIPENG-UMV has emerged in unmanned vehicle field and has got a certain performance. HAIPENG-UMV will continue to develop new products, overcome industry technical challenges, and provide the market with high-quality and stable heavy load unmanned vehicles.

● HAIPENG SPECIAL VEHICLE



- established in 2005, registered capital: 150 million, fixed assets: 80 million
- main products: hydraulic flatbed/ self-propelled module/holding tank vehicles and car carriers
- 21205 square meters welding workshop
- 3000 square meters military workshop
- 2494 square meters assembly workshop
- 5564 square meters electrophoretic coating workshop
- 2728 square meters warehouse
- 5000 square meters test ground
- 2 full-equipped welding production lines
- One of the largest electrophoretic spray coating lines in East China
- 180 metalworking equipments

● HONOR QUALIFICATION

- National High-tech Enterprise
- ISO Quality Management System Certification
- World Manufacturer Identification Code Certificate
- Jiangsu Province Fluid Power Drive and Control Engineering Technology Research Center
- Jiangsu Province Enterprise Technology Center
- Equipment Manufacturing Qualification Certificate
- National Military Standard Quality Management System Certification
- Weapon Equipment Scientific Research and Production Unit Confidentiality Qualification Certification

● HAIPENG-UMV

Shanghai Haipeng Un-Manned Vehicles Technology Co., Ltd (HAIPENG-UMV) is a subsidiary of Jiangsu Haipeng Special Vehicle Co., Ltd invested by Haipeng Group. We are committed to the R&D and manufacturing of heavy load AGVs and unmanned vehicles. We can also provide customers with unmanned logistics solutions for heavy cargos.

The core products and services are as follows:

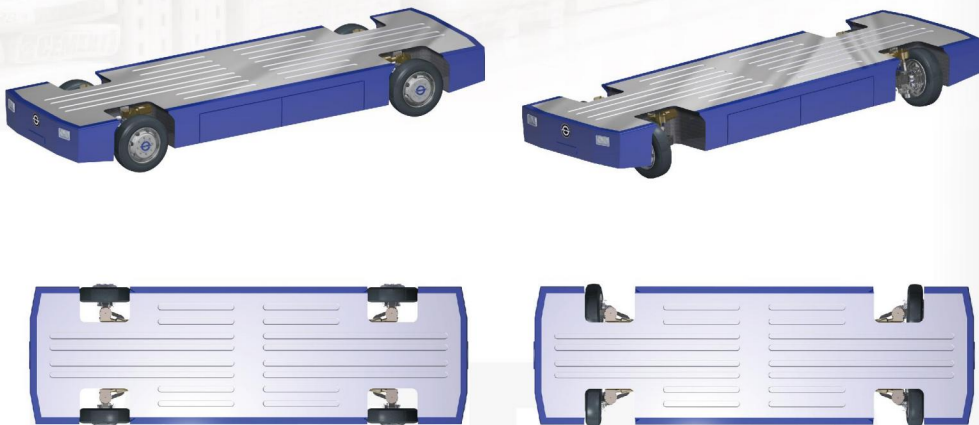
- Adaptive pavement multi-drive omnidirectional heavy load AGV (maximum load: 600 tons)
- Multi-drive omnidirectional and intelligent wire-controlled chassis (speed: 40 km/h, maximum load :120 tons)
- Port IGV and steel coil IGV (level 4 intelligent driving, 40/65/120 tons optional heavy load)
- Unmanned hot metal cars / slag pot carriers and unmanned driving modifications of hot metal cars, slag pot carriers, dump trucks.
- Comprehensive unmanned logistics solution for steel plants.



Cattle Series of Wheel-edge Drive Omnidirectional Heavy Load Unmanned Vehicle Chassis

Features and Advantages:

- Corner module design: Integrating driving, braking, steering, and suspension into a single corner module, which can be sold separately to vehicle manufacturers.
- Wheel-edge drive
- Independent wheel steering
- Omnidirectional movement, capable of moving straight, diagonally, laterally and rotating in place, head-and-tail sway mode is also available.
- High parking positioning accuracy
- Intelligent driving sensor brackets like 360° surround view, idar, cameras, millimeter wave radar are reserved
- The chassis domain controller can communicate with the intelligent driving domain controller via CAN bus
- The drive system and power battery are equipped with an independent thermal management system
- Wide operating temperature: -40°C to 60°C



Technical Parameter:

Vehicle model	HPB8	HPB20
Driving form	4 x 4	8 x 8
Empty weight	2T	5T
Maximum load	8T	20T
Dimensions	8000*2300*1030mm	10000*2500*1030mm
Wheelbase	5000mm	1500/5000/1500mm
Longitudinal parking positioning accuracy	6mm	6mm
Lateral parking positioning accuracy	6mm	6mm
Maximum speed with full load	35km/h	30km/h
Maximum speed with empty load	40km/h	40km/h
Minimum ground height	≥150mm	
Maximum braking deceleration	5m/s ²	
Maximum gradability	18%	
Minimum turning radius	Pivot steering	
Driving brake	Hydraulic brake by wire	
Parking brake	EPB brake	
Power battery	110KWh	250KWh
	600VDC	

Application Area:



Manatee Series of Port IGV

Features and Advantages:

- Chassis hydraulic lifting function
- Able to pivot steering
- Multi-sensor fusion
- Able to travel in both directions and move diagonally
- 360-degree environmental perception without blind spots
- Remote driving and remote fault diagnosis



Technical Parameter:

Vehicle model	HPA20	HPA65	HPA120
Driving form	4 x 2/4 x 4	8 x 4	12 x 4
Empty weight	≤15T	≤22T	≤40T
Maximum load	20T	65T	120T
Wheelbase	6000mm	1650-6000-1650mm	1650-1650-4400-1650-1650mm
Maximum speed with full load	35km/h	35km/h	25km/h
Maximum speed with empty load	35km/h		
Maximum acceleration and deceleration with full load	≥3m/s ²	≥3m/s ²	≥2m/s ²
Maximum deceleration	≥5m/s ²		
Maximum gradability	≥7%		
Minimum turning radius(outside)	≤8m	≤11m	≤13m
Dimensions (L/H/W)	8.5*2.7*1.4m	15*2.7*1.6m	16*2.7*1.65m
Power battery	Electric quantity	141/282/350KWh	
	Operating voltage	618.24VDC	

Application Area:



Rhino Series of Manned/Unmanned Dual-function Steel Coil Transporter

Features and Advantages:

- Manned/Unmanned dual-function
- Chassis hydraulic lifting function
- Able to pivot steering
- Multi-sensor fusion
- Able to travel in both directions and move diagonally
- 360-degree environmental perception without blind spots
- Remote driving and remote fault diagnosis



Technical Parameter:

Vehicle model	HPC65	HPC120
Driving form	8 x 4	12 x 4
Empty weight	≤22T	≤40T
Maximum load	65T	120T
Wheelbase	1650-6000-1650mm	1650-1650-4400-1650-1650mm
Maximum driving speed with full load	35km/h	25km/h
Maximum driving speed with empty load	35km/h	
Maximum acceleration and deceleration with full load	≥3m/s ²	≥2m/s ²
Maximum deceleration	≥5m/s ²	
Maximum gradability	≥7%	
Minimum turning radius(outside)	≤11m	≤13m
Dimensions (L/H/W)	15*2.7*1.6m	16*2.7*1.65m
Power battery	Electric quantity	282/350KWh
	Operating voltage	618.24VDC

Application Area:

