

HELI
EMPOWER THE WORLD



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INTELLIGENT MOBILE ROBOT PRODUCT MANUAL

All-Scenario Intelligent Logistics
Solution Provider



INTELLIGENT • INTEGRATED
INNOVATIVE • INTERACTIVE



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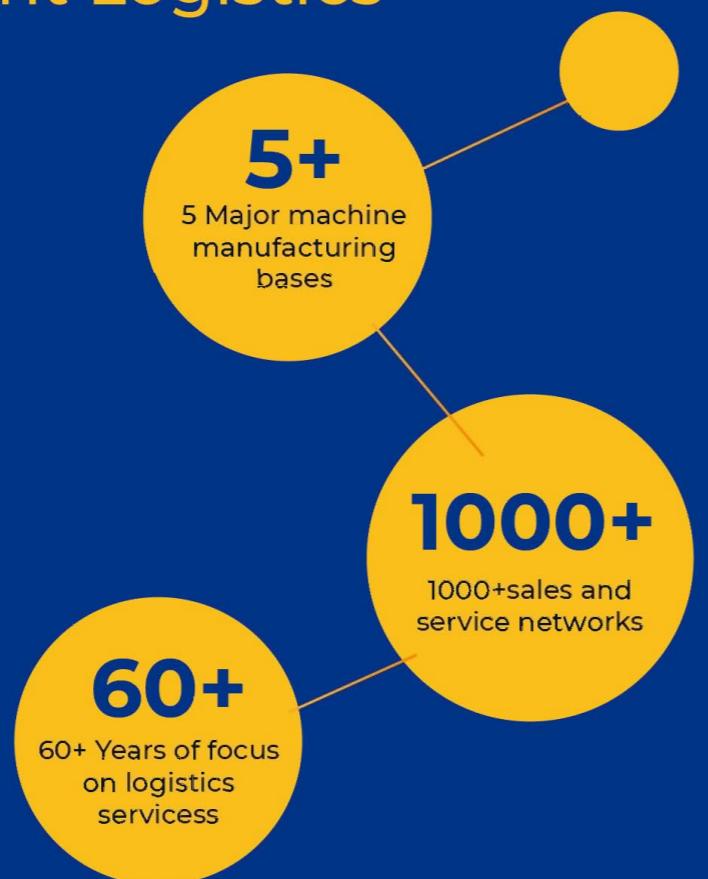


HELI YUFENG INTELLIGENT LOGISTICS SYSTEM

Heli Yufeng: Navigating the New Era of Intelligent Logistics

Anhui Heli Yufeng Intelligent Technology Co., Ltd. (abbreviated as “Heli Yufeng”) is a controlled subsidiary of Anhui Heli Co., Ltd. (Stock Code: 600761). Headquartered in Hefei, China, the company has been recognized as a National High-Tech Enterprise and National-Level Innovative “Little Giant” Enterprise.

Heli Yufeng provides intelligent logistics system solutions for factories and industrial parks. The company has established a product matrix comprising “Intelligent Logistics Storage Robots + Intelligent Mobile Robots,” while independently developing products such as “Intelligent Integration Systems + Digital Twin Platforms.” In collaboration with Heli’s global network of over 1,000 marketing and service institutions, Heli Yufeng offers comprehensive full-stack intelligent logistics solutions throughout the entire project lifecycle. The company has established benchmark demonstration projects across multiple industries, for example new energy, chemical and fertilizer, beverages, food and cold chain, automotive, tires, etc.



HELI YUFENG

Empower The World
Make Logistics More Free

INTELLIGENT LOGISTICS SOLUTIONS FOR ALL SCENARIOS

HELI delivers comprehensive intelligent logistics solutions for industrial parks—covering production line, warehousing, and cross-area transportation—to build an efficient, flexible, and seamlessly integrated system that accelerates automation progress for our users.



PRODUCTION LINE LOGISTICS

Flexible Distribution with Real-time Response to Production Tasks



WAREHOUSING AND LOGISTICS

Integrated Intelligent Storage for Multifunctional Warehouses



CROSS-AREA TRANSPORTATION

Outdoor/Semi-outdoor Transportation Across Plant Areas for Complex and Dynamic Scenarios



HANDLING AGV

01

Specialized Handling AGV

CBD15-AGV1A1Li CBD20-AGV1A1Li

It is mainly used for point-to-point transfer of materials between ground-level flat warehouses, production lines, and different processes within production lines, and can be customized.

Key Features

- Equipped with an NDC control system, it ensures stable and reliable vehicle control and system scheduling.
- Adopting laser navigation, it boasts high positioning accuracy.
- With a compactly designed body, it enables flexible operation.
- Equipped with obstacle avoidance lasers + fork tip sensors + contour algorithm protection + anti-collision edges + acousto-optic early warning, it achieves comprehensive safety protection.
- Adopting servo-integrated electric steering, it offers fast response and precise control.
- Adopting a pressure-boosted floating design for the driving wheels, it ensures reliable ground contact and high stability.



Technical Parameters

Product Model	Unit	CBD15-AGV1A1Li	CBD20-AGV1A1Li
Type	/	Handling	Handling
Navigation	/	Laser Guided (Reflective)	Laser Guided (Reflective)
Rated Load	kg	1500	2000
Max. Lift Height	mm	120	120
Max. Speed (Loaded/Unloaded)	km/h	5/5	5/5
Min. Turning Radius	mm	1453	1453
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2208	2208
Position Deviation Accuracy	mm	±5	±5
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/40	48/40
Weight (incl. battery)	kg	450	450
Standard Dimensions (L x W x H)	mm	1644x932x1887	1644x932x1887

Note: Products can be customized to meet specific application requirements. The above parameters are for reference only. Exact specifications are subject to actual consultation.

Specialized Handling AGV

CBD15-AGV1A1Li CBD15-AGV6B5Li

It is mainly used for point-to-point horizontal handling, capable of meeting the needs of medium and short-distance handling in supermarkets, workshops, and warehouses. It can also be custom-designed according to specific handling requirements.

Key Features

- Adopting a horizontal drive with integrated electric steering, it achieves higher steering control precision;
- Equipped with a mechanical operating handle, it allows flexible switching between manual and automatic modes;
- Featuring a dual servo control system, it boasts short system response time and excellent motor follow-up performance;
- Equipped with visual, laser, infrared, and ultrasonic obstacle avoidance, it provides all-round safety protection;
- With a split-type housing design, it enables quick battery replacement.



Technical Parameters

Product Model	Unit	CBD15-AGV6A5Li	CBD15-AGV6B5Li
Type	/	Handling	Handling
Navigation	/	2D/3D slam	2D/3D slam
Rated Load	kg	1500	1500
Max. Lift Height	mm	120	120
Max. Speed (Loaded/Unloaded)	km/h	5/5	5/5
Min. Turning Radius	mm	1453	1315
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2208	2144
Position Deviation Accuracy	mm	±10	±10
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/40	48/30
Weight (incl. battery)	kg	450	450
Standard Dimensions (L x W x H)	mm	1644x932x1887	1615x780x2500

Note: Products can be customized to meet specific application requirements. The above parameters are for reference only. Exact specifications are subject to actual consultation.

Specialized Handling AGV

CBD30-AGV6A5Li

It is commonly used for point-to-point transfer of materials between ground-level flat warehouses, production lines, and different processes within production lines, and can be customized.

Key Features

- Designed as a specialized model, it features a compact body and flexible operation.
- Equipped with obstacle avoidance lasers + fork tip sensors + contour algorithm protection + anti-collision edges + acousto-optic early warning, it creates comprehensive safety protection.
- Fitted with end recognition cameras + pallet in-place switches, it enables precise goods picking.
- Adopting servo-integrated electric steering, it boasts fast response and precise control.
- With a pressure-boosted floating design for the driving wheels, it ensures reliable ground contact and high stability.



Technical Parameters

Product Mode	Unit	CBD30-AGV6A5Li
Type	/	Handling
Navigation	/	2D/3Dslam
Rated Load	kg	3000
Max. Lift Height	mm	120
Max. Speed (Loaded/Unloaded)	km/h	5/5
Min. Turning Radius	mm	1482
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2235
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	48/100
Weight (incl. battery)	kg	750
Standard Dimensions (L x W x H)	mm	1668x855x1917

Note: Products can be customized to meet specific application requirements. The above parameters are for reference only. Exact specifications are subject to actual consultation.

Specialized Handling AGV

EBA20II

It is mainly used for point-to-point horizontal handling, capable of meeting the needs of medium and short-distance handling in supermarkets, workshops, and warehouses, and can be customized.

Key Features

- Featuring a thin-arm design and a small turning radius, it easily adapts to narrow aisles and confined spaces;
- Equipped with a floating drive system that automatically adjusts traction force under varying loads, the AGV robot can steadily and smoothly navigate ramps and floor gaps;
- Standard configurations include a pallet recognition camera and a pallet positioning pressure plate, enabling precise picking and placing of multi-format pallets, racks, and material cages.



Technical Parameters

Product Mode	Unit	EBA20II
Type	/	Handling
Navigation	/	2D/3Dslam
Rated Load	kg	2000
Max. Lift Height	mm	205
Max. Speed (Loaded/Unloaded)	km/h	3.6/5.4
Min. Turning Radius	mm	1335
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	1918+300
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	48/60
Weight (incl. battery)	kg	600
Standard Dimensions (L x W x H)	mm	1650x990x1927

Note: Products can be customized to meet specific application requirements. The above parameters are for reference only. Exact specifications are subject to actual consultation.

STRADDLE-TYPE AGV

02

Specialized Straddle-type AGV

CTD40-AGV11BLi CTD60-AGV1A1Li

It is mainly used indoors, with an operating lifting height of less than 5 meters, for handling and stacking scenarios of heavy-load materials.

Key Features

- High-precision laser navigation technology, with a positioning accuracy of up to ± 5 mm;
- Compact body, small turning radius and excellent stability;
- Strong load-bearing capacity and a wide range of applications; High-strength mast with strong load-bearing capacity at high positions;
- Modular design, supporting optional legs of various widths.



Technical Parameters

Product Model	Unit	CTD40-AGV11BLi	CTD60-AGV1A1Li
Type	/	Straddle	Straddle
Navigation	/	Laser Guided (Reflective)	Laser Guided (Reflective)
Rated Load	kg	4000	6000
Max. Lift Height	mm	5000	5000
Max. Speed (Loaded/Unloaded)	km/h	6/7	6/7
Min. Turning Radius	mm	1770	2124
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2845	3250
Position Deviation Accuracy	mm	± 5	± 5
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/404	80/300
Weight (incl. battery)	kg	3400	4650
Standard Dimensions (L x W x H)	mm	2313x1646x2434	2644x1753x2270

Specialized Straddle-type AGV

CDD20KJ

It is commonly used in scenarios such as pallet handling, production line docking, and line-side warehouse storage. It can be applied to carriers like square grid pallets and European standard pallets, and is suitable for industries such as new energy, automotive parts, 3C electronics, and retail, among others.

Key Features

- Adopting a thin arm design with a small turning radius, it easily adapts to narrow passages and confined spaces;
- Equipped with a floating drive system that automatically adjusts traction force under varying loads, the AGV robot can steadily and smoothly navigate ramps and floor gaps;
- Standard configurations include a pallet recognition camera and a pallet positioning pressure plate, enabling precise picking and placing of multi-format pallets, racks, and material cages;
- Features 360° obstacle avoidance laser safety protection;
- Supports customization to meet the needs of different carriers.



Technical Parameters

Product Model	Unit	CDD20KJ
Type	/	Narrow Aisle Stacker
Navigation	/	2D/3Dslam
Rated Load	kg	2000
Max. Lift Height	mm	3300
Max. Speed (Loaded/Unloaded)	km/h	3.6/5.4
Min. Turning Radius	mm	1300
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	1970+300
Position Deviation Accuracy	mm	± 10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	24/200
Weight (incl. battery)	kg	1010
Standard Dimensions (L x W x H)	mm	1960x1318x2110

Specialized Straddle-type AGV

CDD50KJ CDD80KJ

It is commonly used in handling scenarios such as non-standard pallets, finished products on production lines, and equipment, and is applicable to industries like engineering machinery, automotive parts, etc.

Key Features

- Adopting a high-strength frame design, the drive assembly is suitable for heavy-duty operations;
- Equipped with a Curtis controller + servo controller, it is more stable, safer and more precise;
- Reserved with abundant attachment interfaces, it meets various handling scenarios under special operating conditions;
- Equipped with lifting pump control and lowering proportional valve, it achieves precise control of lifting and lowering;
- Standard-equipped with a pallet recognition camera + pallet in-place pressing plate, it enables pick-and-place operations for various types of pallets, racks, and material cages, as well as precise goods picking.



Technical Parameters

Product Model	Unit	CDD50KJ	CDD80KJ
Type	/	Wide Stance Stacker	Wide Stance Stacker
Navigation	/	2D/3Dslam	2D/3Dslam
Rated Load	kg	6000	8000
Max. Lift Height	mm	3000	3000
Max. Speed (Loaded/Unloaded)	km/h	3.6/5.4	3.6/5.4
Min. Turning Radius	mm	1995	2095
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2850+300	3000+300
Position Deviation Accuracy	mm	±10	±10
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/300	80/300
Weight (incl. battery)	kg	3500	3800
Standard Dimensions (L x W x H)	mm	2600x1600x2700	2700x1800x3000

03

STACKING-TYPE AGV

Specialized Stacking-type AGV

CDD30L0AGV1

It is commonly used in medium and high-level stereoscopic warehousing and the automated turnover of production line materials.

Key Features

- Adopting laser navigation for precise positioning;
- Adopting servo control for more accurate operation;
- Designed with dual-mode control to meet manual driving needs;
- Equipped with multiple safety protections including laser, mechanical, emergency stop, and acousto-optic safeguards;
- Featuring a side-pull battery replacement design for easy swapping.



Technical Parameters

Product Model	Unit	CDD30L0AGV1
Type	/	Stacker
Navigation	/	2D/3Dslam
Rated Load	kg	3000
Max. Lift Height	mm	1500
Max. Speed (Loaded/Unloaded)	km/h	2.8/3.6
Min. Turning Radius	mm	1925
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2800
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	51.2/240
Weight (incl. battery)	kg	2150
Standard Dimensions (L x W x H)	mm	2360x1110x2455

Dual-mode Stacking-type AGV

CDD16-AGV6A5Li CDD16-AGV1D1Li

It is commonly used in scenarios such as pallet handling, production line docking, and line-side warehouse storage. It is suitable for narrow-aisle rack storage and narrow-aisle production line handling, and applicable to industries including new energy, automotive parts, 3C electronics, and retail, among others.

Key Features

- Easily adapts to narrow passages and confined spaces;
- Equipped with a floating drive system that automatically adjusts traction force under varying loads, the AGV robot can steadily and smoothly navigate ramps and floor gaps;
- Adopting a servo steering system, it achieves higher steering control precision;
- Featuring forward dual obstacle avoidance and a full-enclosed anti-collision edge design, along with optional forward top obstacle avoidance and rear bottom obstacle avoidance, it fully meets users' safety standards;
- Supports customization to meet the needs of different carriers.



Technical Parameters

Product Model	Unit	CDD16-AGV6A5Li	CDD16-AGV1D1Li
Type	/	Narrow Body & Wide Stance Stacker	Narrow Body & Wide Stance Stacker
Navigation	/	2D/3Dslam	Laser Guided (Reflective)
Rated Load	kg	1600	1600
Max. Lift Height	mm	3000	3000
Max. Speed (Loaded/Unloaded)	km/h	4/5	4/5
Min. Turning Radius	mm	1320	1320
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2307	2307
Position Deviation Accuracy	mm	±10	±5
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	24/173	24/173
Weight (incl. battery)	kg	1110	1110
Standard Dimensions (L x W x H)	mm	1832x1010x2150	1832x1010x2150

Dual-mode Stacking-type AGV

EDA20II

It is commonly used in scenarios such as pallet handling, production line docking, and line-side warehouse storage. It is suitable for narrow-aisle rack storage and narrow-aisle production line handling, and applicable to industries including new energy, automotive parts, 3C electronics, and retail, among others.

Key Features

- Easily adapts to narrow passages and confined spaces;
- Equipped with a floating drive system that automatically adjusts traction force under varying loads, the AGV robot can steadily and smoothly navigate ramps and floor gaps;
- Standard configurations include a pallet recognition camera and a pallet positioning pressure plate, enabling precise picking and placing of multi-format pallets, racks, and material cages;
- Multiple safety protections, including 360° obstacle avoidance laser safety protection;
- Equipped with a 3D vertical obstacle avoidance camera to ensure safety in human-machine interaction scenarios;
- Supports customization to meet the needs of different carriers.



Technical Parameters

Product Model	Unit	EDA20II
Type	/	Narrow Body & Wide Stance Stacker
Navigation	/	2D/3Dslam
Rated Load	kg	2000
Max. Lift Height	mm	3300
Max. Speed (Loaded/Unloaded)	km/h	3.6/5.4
Min. Turning Radius	mm	1250
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	1930+300
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	24/200
Weight (incl. battery)	kg	920
Standard Dimensions (L x W x H)	mm	1705x930x1410

Dual-mode Stacking-type AGV

EDQ10

It is suitable for narrow-aisle rack storage and narrow-aisle production line handling.

Key Features

- It features driving modes including straight movement, lateral movement, diagonal movement, and in-place rotation;
- It enables continuous and free switching of driving modes for more efficient handling;
- Narrow-body design, with a lateral movement aisle width of only 1.8 meters;
- Dual-drive and four-steering structure equipped with full servo motors, achieving high-precision control;
- Customizable non-standard forks are available to meet the handling needs of different types of cargo carriers.



Technical Parameters

Product Model	Unit	EDQ10
Type	/	Omni-Directional Stacker
Navigation	/	2D/3Dslam
Rated Load	kg	910
Max. Lift Height	mm	2500
Max. Speed (Loaded/Unloaded)	km/h	3.6/2.8
Min. Turning Radius	mm	1705+300
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	1875+300
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	48/50
Weight (incl. battery)	kg	800
Standard Dimensions (L x W x H)	mm	1705X1000X1410

04

COUNTERBALANCED AGV

Dual-mode Counterbalanced AGV

CPD35L0AGV1

Counterbalanced AGVs are commonly used in automotive manufacturing, auto parts logistics, high-level rack storage, and stereoscopic warehouses.

Key Features

- Laser navigation ensures precise positioning and simple deployment;
- Servo control for higher precision; Side-pull battery replacement for convenient endurance;
- Multiple optional working devices such as pushers are available to adapt to different working scenarios;
- Multiple safety protections including laser, mechanical, emergency stop, and acousto-optic safeguards.



Technical Parameters

Product Model	Unit	CPD35L0AGV1
Type	/	Dual Mode Counterbalance
Navigation	/	2D/3Dslam
Rated Load	kg	3500
Max. Lift Height	mm	3000
Max. Speed (Loaded/Unloaded)	km/h	2.8/3.6
Min. Turning Radius	mm	2100
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	3760
Position Deviation Accuracy	mm	±20
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	51.2/420
Weight (incl. battery)	kg	5100
Standard Dimensions (L x W x H)	mm	3655X1510X2360

Dual-mode Stacking-type AGV

CPD20SQ-AGV6A5Li

Applicable to transfer operations in indoor and outdoor environments of various places such as logistics and warehousing systems, automated factories, workshops, and warehouses.

Key Features

- Three-point support electric steering, featuring a small turning radius and excellent passability;
- Equipped with a ZAPI controller, it is more stable, safer and more precise;
- Manual and automatic dual driving modes;
- Enables fast battery replacement to enhance endurance.



Dual-mode Stacking-type AGV

CPD35SQ-AGV6A5Li

Applicable to transfer operations in indoor and outdoor environments of various places including logistics and warehousing systems, automated factories, workshops, and warehouses.

Key Features

- Three-point electric steering with small turning radius and excellent passability;
- Adopting ZAPI controller for greater stability, safety and precision;
- Equipped with manual and automatic dual modes, covering a wide range of scenarios;
- Supports fast battery swapping to enhance endurance.



Technical Parameters

Product Model	Unit	CPD20SQ-AGV6A5Li
Type	/	Counterbalance
Navigation	/	2D/3Dslam
Rated Load	kg	2000
Max. Lift Height	mm	5000
Max. Speed (Loaded/Unloaded)	km/h	7/7
Min. Turning Radius	mm	1741
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	3532
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	48/404
Weight (incl. battery)	kg	3750
Standard Dimensions (L x W x H)	mm	3286x1170x2425

Technical Parameters

Product Model	Unit	CPD35SQ-AGV6A5Li
Type	/	Counterbalance
Navigation	/	2D/3Dslam
Rated Load	kg	3500
Max. Lift Height	mm	5500
Max. Speed (Loaded/Unloaded)	km/h	7/7
Min. Turning Radius	mm	2124
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	3924
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	80/404
Weight (incl. battery)	kg	5300
Standard Dimensions (L x W x H)	mm	3640x1321x2600

Indoor-specific Omnidirectional Counterbalanced AGV

CPD10SQ-AGV1A1Li

Mainly used in indoor production lines, warehousing and other operational scenarios, especially suitable for transfer operations in narrow spaces and with long materials.

Key Features

- Dual front-wheel drive with strong power;
- Electric steering featuring high operational precision and excellent reliability;
- Three steering wheels with independent steering, enabling movement in any direction;
- Stable operational movement.



Indoor-specific Omnidirectional Counterbalanced AGV

CPD40-AGV1A1Li CPD50-AGV1A1Li

Indoor Counterbalanced AGV is mainly applied in the handling and stacking scenarios of heavy-load materials in warehousing and production lines.

Key Features

- Adopting laser navigation technology with a positioning accuracy of up to $\pm 5\text{mm}$;
- Compact overall vehicle with small turning radius and excellent passability;
- Full electromagnetic braking with short braking distance; 360° all-round protection for high safety;
- Vertical drive and electric steering with high control precision.



Technical Parameters

Product Model	Unit	CPD10SQ-AGV1A1Li
Type	/	Omni-Directional Counterbalance
Navigation	/	Laser Guided (Reflective)
Rated Load	kg	1000
Max. Lift Height	mm	2900
Max. Speed (Loaded/Unloaded)	km/h	5/5
Min. Turning Radius	mm	1250
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2780
Position Deviation Accuracy	mm	± 5
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	24/280
Weight (incl. battery)	kg	2530
Standard Dimensions (L x W x H)	mm	2440x1280x2500

Technical Parameters

Product Model	Unit	CPD40-AGV1A1Li	CPD50-AGV1A1Li
Type	/	Counterbalance	Counterbalance
Navigation	/	Laser Guided (Reflective)	Laser Guided (Reflective)
Rated Load	kg	4000	5000
Max. Lift Height	mm	5000	5000
Max. Speed (Loaded/Unloaded)	km/h	6/7	6/7
Min. Turning Radius	mm	2065	2215
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	3838	4015
Position Deviation Accuracy	mm	± 5	± 5
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	80/280	80/300
Weight (incl. battery)	kg	6150	6900
Standard Dimensions (L x W x H)	mm	3596x1414x2245	3746x1470x2245

Indoor-specific Counterbalanced AGV

CPD16SH-AGV6A5Li CPD20SH-AGV6A5Li
CPD25SH-AGV6A5Li CPD30SH-AGV6A5Li

It is often used in the handling and stacking scenarios of materials in indoor warehousing and production lines, suitable for working environments with relatively narrow operation space and medium and high working height conditions.

Key Features

- Adopting 3D laser SLAM navigation technology with high positioning accuracy and simpler deployment;
- Compact vehicle structure, small turning radius and high overall passability;
- Side-mounted automatic charging for higher charging reliability;
- LCD interactive intelligent instrument, facilitating users to monitor the overall vehicle status.



Indoor-specific Counterbalanced AGV

EDB15II EDB20II

Load capacity of 1.5 tons and maximum lifting height of 4.5 meters. It is suitable for various places such as logistics and warehousing systems, automated factories, workshops, warehouses, etc., and can be used for indoor handling scenarios of carriers like cross-shaped pallets and European standard pallets. It is widely applied in industries such as lithium battery, beverage, home appliance, display panel, etc.

Key Features

- High-strength frame and low center of gravity, the drive assembly meets the requirements of heavy-duty working conditions; Curtis controller + servo controller for greater stability, safety and precision;
- Reserved abundant attachment interfaces to meet the special handling scenarios of various operating conditions;
- Equipped with lifting pump control and descending proportional valve to achieve precise control of lifting and lowering;
- Standard configurations include a pallet recognition camera and a pallet positioning pressure plate, enabling precise picking and placing of multi-format pallets, racks, and material cages.



Technical Parameters

Product Model	Unit	CPD16SH-AGV6A5Li	CPD20SH-AGV6A5Li	CPD25SH-AGV6A5Li	CPD30SH-AGV6A5Li
Type	/	Counterbalance	Counterbalance	Counterbalance	Counterbalance
Navigation	/	2D/3Dslam	2D/3Dslam	2D/3Dslam	2D/3Dslam
Rated Load	kg	1600	2000	2500	3000
Max. Lift Height	mm	5000	6000	6000	6000
Max. Speed (Loaded/Unloaded)	km/h	7/8	7/8	7/8	7/8
Min. Turning Radius	mm	1330	1598	1790	1790
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2960	3124	3328	3328
Position Deviation Accuracy	mm	±10	±10	±10	±10
Communication Method	/	5G/wifi	5G/wifi	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/125	48/202	80/173	80/202
Weight (incl. battery)	kg	2780	3525	3970	4370
Standard Dimensions (L x W x H)	mm	2550x1010x1900	2833x1235x2075	3048x1235x2075	3048x1235x2075

Technical Parameters

Product Model	Unit	EDB15II	EDB20II
Type	/	Counterbalance	Counterbalance
Navigation	/	2D/3Dslam	2D/3Dslam
Rated Load	kg	1500	2000
Max. Lift Height	mm	4000	4000
Max. Speed (Loaded/Unloaded)	km/h	3.6/5.4	3.6/5.4
Min. Turning Radius	mm	1300	1685
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2600+300	2985+300
Position Deviation Accuracy	mm	±10	±10
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	24/200	24/200
Weight (incl. battery)	kg	2800	2900
Standard Dimensions (L x W x H)	mm	2530x1205x2110	2930x1205x2110

Indoor-specific Counterbalanced AGV

EDB30 EDB40 EDB50

Load capacity of 3 tons and maximum lifting height of 6 meters. It is suitable for various places such as logistics and warehousing systems, automated factories, workshops, warehouses, etc., and can be used for indoor handling scenarios of carriers like cross-shaped pallets and European standard pallets. It is widely applied in industries including lithium battery, beverage, home appliance, etc.

Key Features

- High-strength frame design ensures a low center of gravity, and the drive assembly meets the requirements of heavy-duty operations;
- Curtis controller + servo controller, delivering higher stability, safety and precision;Optional solid rubber tires, suitable for both indoor and outdoor warehouse use;
- Optional full-wheel braking for smoother operation at high lifting heights;
- Reserved abundant attachment interfaces;
- Equipped with lifting pump control and descending proportional valve to achieve precise lifting and lowering control;
- Standard configurations include a pallet recognition camera and a pallet positioning pressure plate, enabling precise picking and placing of multi-format pallets, racks, and material cages.



Outdoor-specific Counterbalanced AGV

CPD20SQ CPD25SQ CPD30SQ CPD35SQ

Suitable for transfer operations in indoor and outdoor environments of various locations including logistics and warehousing systems, automated factories, workshops, and warehouses.

Key Features

- Three-point electric steering with small turning radius and excellent passability;
- ZAPI controller delivers higher stability, safety and precision;Reserved abundant attachment interfaces;
- Equipped with lifting pump control and descending proportional valve to achieve precise lifting and lowering control;
- Dual front-wheel drive with strong power and high operating efficiency;Load capacity of 2-3.5 tons, optional.



Technical Parameters

Product Model	Unit	EDB30	EDB40	EDB50
Type	/	Counterbalance	Counterbalance	Counterbalance
Navigation	/	2D/3Dslam	2D/3Dslam	2D/3Dslam
Rated Load	kg	3000	4000	5000
Max. Lift Height	mm	6000	6000	6000
Max. Speed (Loaded/Unloaded)	km/h	6/7	6/7	6/7
Min. Turning Radius	mm	1900	2150	2600
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	3250+300	3520+300	4230+300
Position Deviation Accuracy	mm	±10	±10	±10
Communication Method	/	5G/wifi	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/300	48/300	80/300
Weight (incl. battery)	kg	4600	5000	7500
Standard Dimensions (L x W x H)	mm	3200x1370x2435	3450x1370x2435	4200x1560x2350

Technical Parameters

Product Model	Unit	CPD20SQ-AGV6B5Li	CPD25SQ-AGV6B5Li	CPD30SQ-AGV6B5Li	CPD35SQ-AGV6B5Li	CPD20SQ-AGV1A1Li	CPD25SQ-AGV1A1Li	CPD30SQ-AGV1A1Li	CPD35SQ-AGV1A1Li
Type	/	Counterbalance							
Navigation	/	2D/3Dslam	2D/3Dslam	2D/3Dslam	2D/3Dslam	Laser Guided (Reflective)	Laser Guided (Reflective)	Laser Guided (Reflective)	Laser Guided (Reflective)
Rated Load	kg	2000	2500	3500	3500	2000	2500	3000	3500
Max. Lift Height	mm	5000	5000	5000	5000	5000	5000	5000	5000
Max. Speed (Loaded/Unloaded)	km/h	5/5	6/7	6/7	6/7	6/7	6/7	6/7	6/7
Min. Turning Radius	mm	1720	1845	2021	2021	1720	1845	2021	2021
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	3570	3770	3855	3855	3570	3770	3855	3855
Position Deviation Accuracy	mm	±10	±10	±10	±10	±5	±5	±5	±5
Communication Method	/	5G/wifi							
Std. Battery Capacity	V/Ah	80/150	80/280	80/346	80/404	80/280	80/300	80/300	80/300
Weight (incl. battery)	kg	3300	4800	5000	5300	3300	4800	5000	5300
Standard Dimensions (L x W x H)	mm	L: 2060 W: 1180 H: 4203	L: 2275 W: 1262 H: 4367	L: 2419 W: 1262 H: 4367	L: 2419 W: 1180 H: 4203	L: 2060 W: 1262 H: 4367	L: 2275 W: 1262 H: 4367	L: 2419 W: 1262 H: 4367	L: 2419 W: 1262 H: 4367

TOWING-TYPE AGV

05

Specific Towing-type AGV

EPQ30AJ

Ride-on Towing-type AGV adopts steering wheel drive with a towing capacity of 3 tons. It can hook up various types of trailers and is suitable for material transportation in warehouses and production lines, luggage transportation at airports, etc.

Key Features

- Adopting vertical drive + electromagnetic braking, featuring reliable power and fast braking response;
- Curtis controller + servo controller, ensuring higher stability, safety and precision;
- Customized modifications such as non-standard towing hooks, compatible with various types of trailers.



Technical Parameters

Product Model	Unit	EPQ30AJ
Type	/	Tractor
Navigation	/	2D/3Dslam
Rated Towing Capacity	kg	3000
Rated Traction	N	695
Max. Speed (Loaded/Unloaded)	km/h	3.6/5.4
Min. Turning Radius	mm	1275 (With Safety Edge)
Max. Gradeability	%	8/3
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	24/160
Weight (incl. battery)	kg	550
Standard Dimensions (L x W x H)	mm	1475x980x2420 (With Safety Edge)

It can hook up various types of trailers and is suitable for material transportation in warehouses and production lines, luggage transportation at airports, etc.

Key Features

- Adopting motor drive + electromagnetic braking, with reliable power and agile braking;
- Curtis controller + servo controller, ensuring higher stability, safety and precision;
- Suitable for various indoor and outdoor scenarios;
- Compatible with various types of trailers.



Technical Parameters

Product Model	Unit	EPQ40J	EPQ60J
Type	/	Tractor	Tractor
Rated Towing Capacity	kg	4000	6000
Rated Traction	N	1000	1500
Max. Towing Capacity	N	3000	4500
Max. Speed (Loaded/Unloaded)	km/h	5/7	5/7
Min. Turning Radius	mm	1890 (With Safety Edge)	1890 (With Safety Edge)
Service Brake	/	Electromagnetic Brake	Electromagnetic Brake
Drive Motor Power	kw	3	4.5
Drive Control Method	/	AC	AC
Std. Battery Capacity	V/Ah	24/200	48/300
Weight (incl. battery)	kg	1000	1300
Standard Dimensions (L x W x H)	mm	2385x1510x2205	2385x1510x2205

HIGH REACH AGV

06

Dual-mode High Reach AGV

CQDE20HJ CQDE20J

The High Reach AGV offers a substantial load capacity of 2.0 tons. Its key feature is a unique mast design that moves forward and backward as a complete unit, enabling efficient stacking in narrow aisles. This makes it perfectly suited for warehouses utilizing medium-to-high level racking in medium-density storage environments. Furthermore, it can be supplied with various custom configurations to meet diverse operational requirements.

Key Features

- Tri-point Chassis & Optional All-Wheel Braking: Ensures powerful traction and superior stability when handling loads at height.
- Curtis & Servo Controllers: Deliver enhanced operational stability, safety, and precision.
- High-Strength H-Type Mast with Ample Safety Margin: Guarantees secure and reliable high-level load handling.
- Multiple Customizable Options: Adaptable to various types of load carriers for increased versatility.



Technical Parameters

Product Model	Unit	CQDE20HJ	CQDE20J
Type	/	Reach Truck	Reach Truck
Navigation	/	2D/3Dslam	2D/3Dslam
Rated Load	kg	2000	2000
Max. Lift Height	mm	8000	8000
Max. Speed (Loaded/Unloaded)	km/h	6/7	6/7
Min. Turning Radius	mm	2060	2050
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2915+300	2855+300
Position Deviation Accuracy	mm	±10	±10
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/350	48/300
Weight (incl. battery)	kg	3800	2800
Standard Dimensions (L x W x H)	mm	2168/2702x1490x3166(With Safety Edge)	2136/2600x1460x2105(With Safety Edge)

Dual-mode High Reach AGV

CQD12-AGV1C1Li CQD16-AGV1C1Li

The High Reach AGV is commonly deployed in scenarios such as narrow-aisle stacking and automatic production line docking. With a load capacity of 1.2 to 1.6 tons, its compact design and minimized turning radius enable superior performance in right-angle stacking. Furthermore, it can be supplied with various custom configurations to meet specific operational needs.

Key Features

- Equipped with an NDC control system, it ensures stable and reliable vehicle control and system scheduling.
- Adopting laser navigation, it boasts high positioning accuracy.
- Three-Point Chassis Design: Enables a compact turning radius and superior maneuverability for operation in narrow aisles and confined spaces.
- Cast Alloy Outriggers: Provide a low center of gravity and enhanced stability.
- Comprehensive Safety System: Integrates obstacle-avoidance lasers, fork-tip sensors, 3D obstacle detection, contour-following algorithms, bumpers, and audio-visual alarms for complete protection.
- NDC System with Curtis Controller: Offers a cost-effective solution, while the servo steering control ensures high-precision movement.



Technical Parameters

Product Model	Unit	CQD12-AGV1C1Li	CQD16-AGV1C1Li
Type	/	Reach Truck	Reach Truck
Navigation	/	Laser Guided (Reflective)	Laser Guided (Reflective)
Rated Load	kg	1200	1600
Max. Lift Height	mm	2000	5000
Max. Speed (Loaded/Unloaded)	km/h	6/7	6/7
Min. Turning Radius	mm	1296	1481
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2170+200	2261+200
Position Deviation Accuracy	mm	±5	±5
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/100	48/100
Weight (incl. battery)	kg	2130	2300
Standard Dimensions (L x W x H)	mm	2046x1106x2047	2106x1106x2047

Cold Storage High Reach AGV

CQD16-AGV1A1LiL CQD20-AGV1A1LiL
CQD25-AGV1A1LiL CQD30-AGV1A1LiL



Cold Storage High Reach AGV is engineered for demanding environments, specifically indoor, high-bay, narrow-aisle cold storage facilities. It delivers reliable performance with the ability for continuous operation in temperatures from 0°C to -18°C and can also handle intermittent shifts in deep-freeze conditions as low as -30°C.

Key Features

- Compact Chassis Design: Optimized for high-density stacking in cold storage environments.
- Side-Mounted Wireless Charging: Ensures highly reliable and convenient charging.
- Cold-Rated Critical Components: Specialized navigation head and obstacle sensors guarantee high reliability in low temperatures.
- Cold-Specific Lubricants: Dedicated oils and greases ensure efficient and safe transmission system operation in freezing conditions.
- Corrosion-Resistant Materials: Anti-corrosion paint, chains, and cylinders built to withstand the damp, harsh cold storage atmosphere.



Technical Parameters

Product Model	Unit	CQD16-AGV1A1LiL	CQD20-AGV1A1LiL	CQD25-AGV1A1LiL	CQD30-AGV1A1LiL
Type	/	Reach Truck	Reach Truck	Reach Truck	Reach Truck
Navigation	/	Laser Guided (Reflective)	Laser Guided (Reflective)	Laser Guided (Reflective)	Laser Guided (Reflective)
Rated Load	kg	1600	2000	2500	3000
Max. Lift Height	mm	8500	8500	8500	8500
Max. Speed (Loaded/Unloaded)	km/h	7/7	7/7	7/7	7/7
Min. Turning Radius	mm	1637	1745	1845	1925
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2646	2710	2846	2875
Position Deviation Accuracy	mm	±5	±5	±5	±5
Communication Method	/	5G/wifi	5G/wifi	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	80/173	80/202	80/202	80/272
Weight (incl. battery)	kg	3820	3846	4400	4660
Standard Dimensions (L x W x H)	mm	2250x1360x2245	2293x1360x2245	2458x1438x2245	2458x1438x2245

Specialized High Reach AGV

CQD16 CQD20 CQD25 CQD30

The High Reach AGV is commonly employed in narrow aisle and indoor high-level lifting scenarios.

Key Features

- High Maneuverability & Trafficability: Enables a narrower right-angle stacking aisle.
- Side-Mounted Automatic Charging: Provides enhanced charging reliability.
- Innovative Mast Design: Delivers exceptional load capacity at height.
- Interactive LCD Smart Display: Allows for easy monitoring of vehicle status.
- Enhanced Safety System: Features curve automatic deceleration and automatic obstacle detection to ensure operational safety.



Technical Parameters

Product Model	Unit	CQD16-AGV1B1Li	CQD20-AGV1B1Li	CQD25-AGV11CLi	CQD30-AGV11CLi	CQD16-AGV6A5Li	CQD20-AGV6A5Li	CQD25-AGV6A5Li	CQD30-AGV6A5Li
Type	/	Reach Truck							
Navigation	/	Laser Guided (Reflective)	Laser Guided (Reflective)	Laser Guided (Reflective)	Laser Guided (Reflective)	Natural Navigation	Natural Navigation	Natural Navigation	Natural Navigation
Rated Load	kg	1600	2000	2500	3000	1600	2000	2500	3000
Max. Lift Height	mm	8500	8500	8500	8500	8500	8500	8500	8500
Max. Speed (Loaded/Unloaded)	km/h	6/7	6/7	6/7	6/7	6/7	6/7	6/7	6/7
Min. Turning Radius	mm	1637	1745	1845	1925	1637	1745	1845	1925
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2646	2710	2846	2875	2646	2710	2846	2875
Position Deviation Accuracy	mm	±5	±5	±5	±5	±10	±10	±10	±10
Communication Method	/	5G/wifi							
Std. Battery Capacity	V/Ah	48/202	48/280	80/202	80/280	80/173	80/202	80/202	80/280
Weight (incl. battery)	kg	3820	3846	4400	4660	3820	3846	4400	4660
Standard Dimensions (L x W x H)	mm	L: 2250 W: 1360 H: 2245	L: 2293 W: 1360 H: 2245	L: 2458 W: 1438 H: 2245	L: 2458 W: 1438 H: 2245	L: 2250 W: 1360 H: 4203	L: 2293 W: 1360 H: 2245	L: 2458 W: 1438 H: 2245	L: 2458 W: 1438 H: 2245

Specialized Omnidirectional High Reach AGV

CQD20QJ

The Omnidirectional Reach Truck features a fully moving mast that extends and retracts as a single unit. Its core capability lies in the independently controlled four-wheel steering system, which facilitates multiple movement modes, including straight travel, crabbing (lateral movement), diagonal travel, and zero-radius turning. During side-shift travel, it maintains a very narrow operating aisle. This exceptional maneuverability makes it particularly well-suited for handling long, bulky materials in confined spaces.

Key Features

- Full-Omnidirectional Movement: Capable of straight, lateral, diagonal, and zero-radius turning, with seamless, continuous switching between modes for highly efficient transport.
- Wide Chassis & Fork Carriage: Designed for handling and stacking extra-long loads with enhanced safety.
- Dual Steering-Wheel Drive/Brake System: Delivers powerful traction and reliable braking, capable of operating on wet or icy surfaces.
- Patented Reach Mechanism: Features extensive reach distance with high positioning accuracy.
- Patented Servo Steering Wheel: Ensures high-precision steering control with rapid response time.



Specialized Omni-directional High Reach AGV

CQD40QJ CQD50QJ

The Omnidirectional Reach Truck features a fully moving mast that extends and retracts as a single unit. Its core capability lies in the independently controlled four-wheel steering system, which facilitates multiple movement modes, including straight travel, crabbing (lateral movement), diagonal travel, and zero-radius turning. During side-shift travel, it maintains a very narrow operating aisle. This exceptional maneuverability makes it particularly well-suited for handling long, bulky materials in confined spaces.

Key Features

- Full-Omnidirectional Movement: Capable of straight, lateral, diagonal, and zero-radius turning, with seamless, continuous switching between modes for highly efficient transport.
- Wide Chassis & Fork Carriage: Designed for handling and stacking extra-long loads with enhanced safety.
- Dual Steering-Wheel Drive/Brake System: Delivers powerful traction and reliable braking, capable of operating on wet or icy surfaces.
- Patented Reach Mechanism: Features extensive reach distance with high positioning accuracy.
- Patented Servo Steering Wheel: Ensures high-precision steering control with rapid response time.



Technical Parameters

Product Model	Unit	CQD20QJ
Type	/	Omni-Directional Reach Truck
Navigation	/	2D/3Dslam
Rated Load	kg	2000
Max. Lift Height	mm	4000
Max. Speed (Loaded/Unloaded)	km/h	4/5
Min. Turning Radius	mm	1305
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2040+300
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	24/200
Weight (incl. battery)	kg	3300
Standard Dimensions (L x W x H)	mm	1850x2040x3125

Technical Parameters

Product Model	Unit	CQD40QJ	CQD50QJ
Type	/	Omni-Directional Reach Truck	Omni-Directional Reach Truck
Navigation	/	2D/3Dslam	2D/3Dslam
Rated Load	kg	4000	5000
Max. Lift Height	mm	8000	8000
Max. Speed (Loaded/Unloaded)	km/h	7/8	7/8
Unloaded 360° Turning Aisle Width	mm	3270	3450
Ground Clearance at Wheelbase Center	mm	100	140/165
Position Deviation Accuracy	mm	±10	±10
Communication Method	/	5G/wifi	5G/wifi
Std. Battery Capacity	V/Ah	48/300	80/350
Weight (incl. battery)	kg	7200	9000
Standard Dimensions	mm	2300x2474x2620/2511	2300x2700x2620/2500

Specialized High Reach AGV

EDQA15

The Narrow-Width High Reach AGV offers a 1.5-ton load capacity. Its key feature is a unique mast design that moves forward and backward as a complete unit. This, combined with a compact body and a minimized turning radius, results in exceptional maneuverability and operational efficiency. It is perfectly suited for stacking in narrow aisles, meeting the demands of environments with medium storage density and high throughput.

Key Features

- Slim-Profile Design & Compact Turning Radius: Enhances agility for effortless operation in narrow aisles and confined spaces;
- Imported Transmission & 3-Point Chassis: Ensures exceptional stability when the mast is extended, at any height.
- Abundant Pre-Installed Attachment Interfaces: Offers high configurability for specialized handling tasks across various scenarios.
- Precision Lift Control System: Utilizes a lift pump control and proportional lowering valve for accurate and smooth positioning.
- Standard Pallet Recognition & Handling System: Equipped with a camera and a positioning plate to enable automated handling of diverse pallets, racks, and containers.



Technical Parameters

Product Model	Unit	EDQA15
Type	/	Narrow Aisle Reach Truck
Navigation	/	2D/3Dslam
Rated Load	kg	1500
Max. Lift Height	mm	4000
Max. Speed (Loaded/Unloaded)	km/h	4/5
Min. Turning Radius	mm	1506
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	2330+300 (C=600)
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	24/200
Weight (incl. battery)	kg	2290
Standard Dimensions (L x W x H)	mm	2190x1238x2050

07 TRI-DIRECTIONAL STACKING AGV

Dual-mode Tri-directional Stacking AGV

CDME16J

The Narrow Aisle Tri-directional Stacking AGV performs stacking and retrieval on both sides of the aisle through a 180-degree fork rotation and lateral shifting. A key advantage is that the vehicle does not need to turn when handling loads, resulting in simpler, safer operation and significantly enhanced efficiency. It is specifically designed for medium-to-high level stacking in narrow aisle environments.

Key Features

- Servo-driven Tri-directional Fork Head: Ensures safe, reliable, stable, and highly efficient operation.
- Premium Dual-Control System: Features imported Curtis controller and servo controller for enhanced stability, safety, and precision.
- High-Strength Imported Mast: Robust design with high safety margins guarantees stable and secure performance.
- All-Wheel Braking System: Provides exceptional stability, even during high-level lifting operations.
- Customizable Design: Can be tailored to meet specific customer requirements, including different pallet types and aisle dimensions.



Technical Parameters

Product Model	Unit	CDME16J
Type	/	Very Narrow Aisle Tri-Directional Stacker
Navigation	/	2D/3Dslam
Rated Load	kg	1600
Max. Lift Height	mm	8000
Max. Speed (Loaded/Unloaded)	km/h	5/6
Min. Turning Radius	mm	2240
Aisle Width for Right-angle Stacking (1000x1200 pallet)	mm	1650
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	48/300
Weight (incl. battery)	kg	7120
Standard Dimensions (L x W x H)	mm	3400x1550x3960

HEAVY DUTY BACKPACK AGV

08

Roller Heavy Duty Backpack AGV

BF06M0AGV

Roller Heavy Duty Backpack AGV is commonly used for material delivery in manufacturing production lines and warehousing and logistics centers.

Key Features

- Servo control for enhanced precision;
- Integrated motorized roller, compact and efficient.
- Adjustable roller speed to match various line rates.
- Multi-level positioning protection to prevent impact and slippage.
- Top-mounted control panel (HMI) for easy access.
- Zoned and prioritized task management with multi-vehicle coordination and automated charging.



Technical Parameters

Product Model	Unit	BF06M0AGV
Type	/	Powered Roller Pallet
Navigation	/	Magnetic Guidance
Rated Load	kg	600
Wheelbase	mm	950
Max. Speed (Loaded/Unloaded)	km/h	3.6
Min. Turning Radius	mm	1135
Ground Clearance at Wheelbase Center	mm	30
Position Deviation Accuracy	mm	±10
Communication Method	/	5G/wifi
Std. Battery Capacity	V/Ah	48/52
Weight (incl. battery)	kg	650
Standard Dimensions (L x W x H)	mm	1800x1400x980

COLLABORATIVE SORTING ROBOT

1.6T COLLABORATIVE SORTING ROBOT

FJD16-AGV6A5LI

Applicable Scenarios

This system innovatively integrates the automatic handling capabilities of AGVs with automated picking functions, making it suitable for a wide range of tasks such as handling, picking, depalletizing, replenishment, loading, and unloading in both production and retail environments.

Product Features

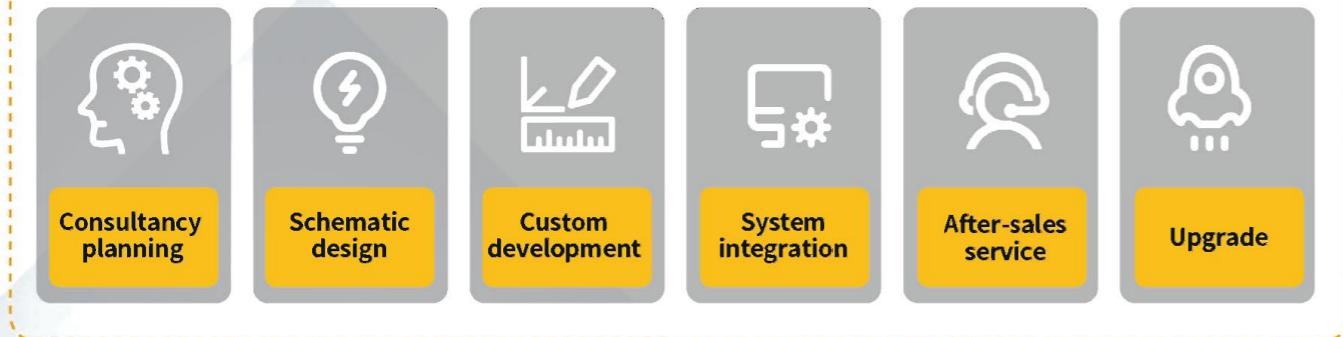
- Flexible & Efficient, Dual-Mode Synergy: The intelligent mobile robot base is equipped with flexible joints, enhancing operational efficiency in integrated scenarios such as handling and picking.
- Powerful Load & Wide Applicability: With a transport load capacity of 1600 kg, a single grasp capacity of 60 kg, and a working radius of 2000 mm.
- Precision Navigation & Stable Docking: Utilizing SLAM laser navigation technology, the vehicle achieves a positioning accuracy of ±10 mm.
- Intelligent Recognition & Accurate Operation: Automatically identifies material information and placement posture, enabling precise material selection and palletizing.



Technical Parameters

Product Model	Unit	FJD16-AGV6A5LI
Rated Load	kg	1600
Load Center Distance	mm	600
Standard Dimensions (L×W×H)	mm	3440×1430×930
Minimum Turning Radius	mm	1995
Maximum Travel Speed, Laden / Unladen	km/h	7/7
Maximum Lifting Speed, Laden / Unladen	mm/s	30/35
Maximum Lowering Speed, Laden / Unladen	mm/s	40/35
Positioning Accuracy	mm	±10
Std. Battery Capacity	V/Ah	76.8/404
Curb Weight (Including Battery)	kg	3650

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Metallurgy

