

KRC

CRANE SYSTEMS

BROCHURE

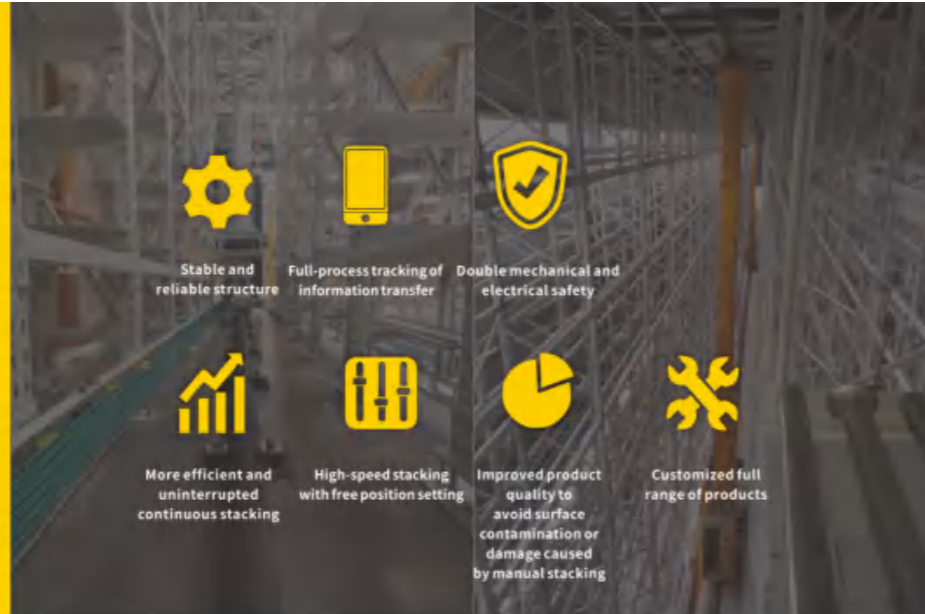
WAREHOUSING TRANSPORT

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Single-column Light Stacking Warehouse Robot

Single-column Light Type	Technical Parameter
Model	YF-DDJ00A
Rated load	≤ 100 kg
Stacker height	≤ 9 m
Aisle width	≥ 800 mm
Lift drive form	Wire rope/synchronous belt
Travel speed	≤ 180 m/min
Travel acceleration	≤ 1 m/s ²
Lifting speed	≤ 60 m/min
Lifting acceleration	≤ 1 m/s ²
Fork acceleration	0.5 m/s ² -1 m/s ²
Positioning mode	Laser or barcode
Fork	Plate-fork/clamp
Fork operation positioning accuracy	± 3 mm
Horizontal operation positioning accuracy	± 3 mm
Vertical lifting positioning accuracy	± 3 mm
Materials of column and ground rail	Aluminum alloy profile/steel profile
Operating mode	Manual, semi-automatic, automatic
Power supply mode	Sliding contact line
Speed regulation mode	Frequency conversion/servo
Communication mode	Optical communication or wireless communication

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Product features:

1. Simple and practical structure
2. Small aisle width
3. Not easy to destabilize
4. Modular components

Single-column Light High-speed Stacking Warehouse Robot

Single-column Light-load High-speed Type	Technical Parameter
Model	YF-DDJ00B
Rated load	≤ 50 kg
Stacker height	≤ 6 m
Lift drive form	Synchronous belt
Available fork type	Plate-fork/clamp
Travel speed	≤ 300 m/min
Travel acceleration	≤ 3 m/s ²
Lifting speed	≤ 80 m/min
Lifting acceleration	≤ 1 m/s ²
Fork acceleration	0.5 m/s ² -1 m/s ²
Positioning mode	Laser or barcode
Fork operation positioning accuracy	± 3 mm
Positioning accuracy	± 3 mm
Vertical lifting positioning accuracy	± 3 mm

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Product features:

Light-load/high-speed/flexible/accurate and reliable manipulation.

1. Servo drive technology is adopted for traveling and lifting to ensure highly reliable manipulation under the condition of acceleration and high speed;
2. Single-column light weight body is adopted. The column is made of special aluminum profile; and
3. The lifting device adopts automatic tensioning synchronous toothed belt transmission mechanism.



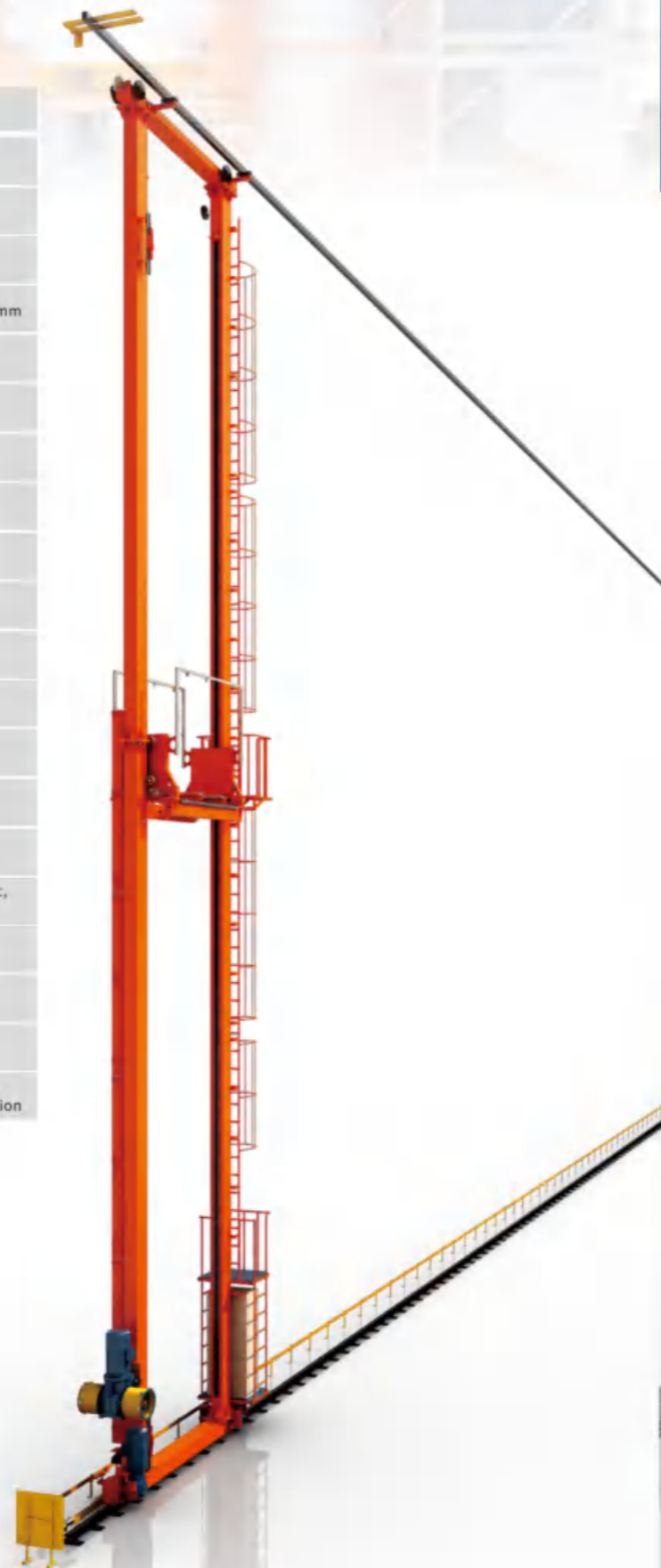
Double-column Stacking Warehouse Robot

Double-column Medium-duty /Height-duty Type	Technical Parameter	
Model	YF-DDJ20A	YF-DDJ30A
Rated load	Single depth 300-1500 kg /double depth 300-1000 kg	Single depth 1.5-5 T /double depth 1-2 T
Stacker height	3-24 m	3-24 m
Aisle width	1200 mm pallet \geq 1400 mm	1200 mm pallet \geq 1400 mm
Bottom height	Single depth 700 mm /double depth 800 mm	Single depth 800mm /double depth 900mm
Top height	1650 mm (incl. goods)	1650 mm (incl. goods)
Travel speed	\leq 160 m/min	\leq 160 m/min
Travel acceleration	\leq 0.5 m/s ²	\leq 0.5 m/s ²
Lifting speed	\leq 40 m/min	\leq 40 m/min
Lifting acceleration	\leq 0.5 m/s ²	\leq 0.5 m/s ²
Fork speed	\leq 40 m/min	\leq 40 m/min
Fork acceleration	0.5 m/s ² -1 m/s ²	0.5 m/s ² -1 m/s ²
Horizontal operation positioning accuracy	\pm 5 mm	\pm 5 mm
Vertical lifting positioning accuracy	\pm 5 mm	\pm 5 mm
Fork operation positioning accuracy	\pm 3 mm	\pm 3 mm
Operating mode	Manual, semi-automatic, automatic	Manual, semi-automatic, automatic
Power supply mode	Sliding contact line	Sliding contact line
Speed regulation mode	Frequency control	Frequency control
Positioning mode	Laser/barcode	Laser/barcode
Communication mode	Optical communication or wireless communication	Optical communication or wireless communication

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Product features:

1. Mature and reliable structural design
2. Small wobble amplitude
3. Sufficient strength and rigidity
4. Simple drive system and layout



Shuttle Robot



Characterized by high speed, high reliability, and low cost, the automatic rail guide vehicle (RGV) is widely applied in the logistics system and mainly used for material conveying and workshop assembly.

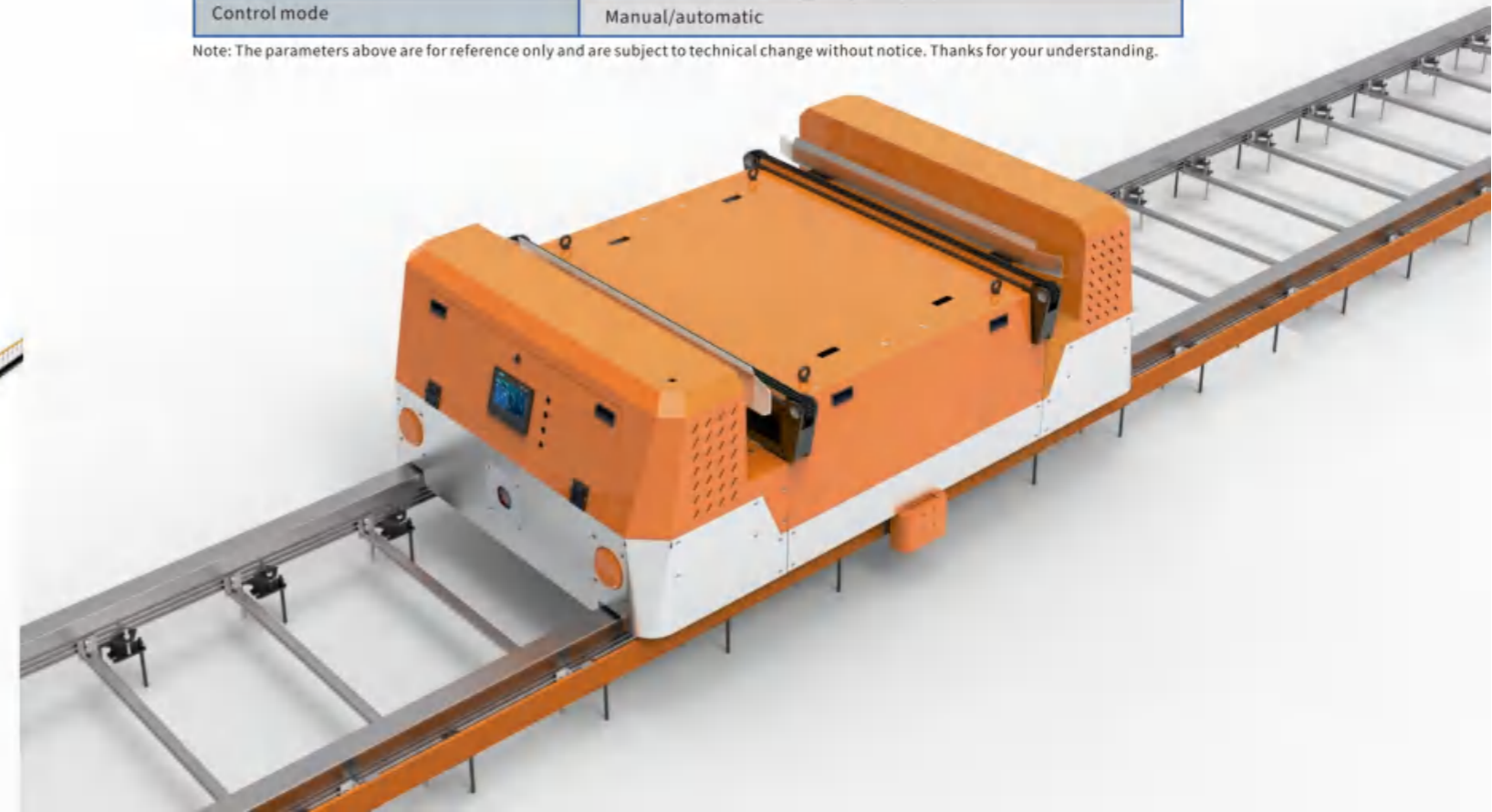
Features:

- ✓ Adopt aluminum alloy rail with high speed and low noise;
- ✓ Repeatedly optimized command control strategy for high system operation efficiency; and
- ✓ Stable performance and export quality.

Equipment parameters

Model	YF-RGV00/10/20-A/B
Rail form	Rectilinear, circular, turnout
Rail material	Aluminum profile, GB/T11264 light rail
Load	50 kg-10 t (customizable)
Speed	\leq 200 m/min (customizable)
Acceleration	\leq 1 m/s ²
Debug mode	Frequency conversion/servo
Transfer mode	Chain, roller, retractable fork, customizable multi-station
Positioning mode	Laser/barcode
Traveling positioning accuracy	\pm 5 mm
Power supply mode	Sliding contact line
Communication mode	Optical communication, wireless communication, power line carrier, leaky wave
Control mode	Manual/automatic

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.



Hoist Series

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Reciprocating Hoist

Product features:

- 1. Frame structure for better stability
- 2. Large lift stroke
- 3. Large bearing range
- 4. Available safety measures

Equipment parameters

Model	YF-TSJ20A
Rated load	50-5000 kg
Hoist height	2-20 m
Lift drive form	Precise roller chain with short pitch
Lifting speed	≤ 60 m/min
Lifting acceleration	≤ 1 m/s ²
Lift positioning accuracy	± 5 mm
Transport mode	Chain/roller
Transport speed	12-20 m/min
Operating mode	Manual, automatic, semi-automatic
Speed regulation mode	Frequency control
Positioning mode	Encoder/laser/barcode

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.



Dense Storage

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Multilayer Box-type Shelf Shuttle Robot

The multilayer box-type shelf shuttle robot supports load up to 50 kg. With a very compact structure, its floor area is 30%~ 50% less than that of the general and traditional solutions. Besides, for the same spatial arrangement, it has a inbound/outbound processing capacity which is 5~10 times that of traditional warehousing system.



Model	YF-DCC00A
Maximum bearing capacity	50 kg
Maximum speed at no load	4 m/s
Maximum speed at full load	3 m/s
Positioning mode	Photoelectric positioning
Positioning accuracy (Y direction)	± 2 mm
Motor power	≤ 0.4 kW
Power supply mode	Battery/supercapacitor

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Four-directional Shelf Shuttle Robot

The four-directional shelf shuttle robot can operate at different layers by virtue of the layer change hoist. It is a completely automatic dense storage system that conveys, stores and manages pallet goods. Its hoisting and direction change operation is achieved through mechanical structure which is more compact, stable and reliable than hydraulic structure.



Model	YF-SXC00A
Maximum bearing capacity	2000 kg
Maximum speed at no load	2 m/s
Maximum speed at full load	1.2 m/s
Acceleration	0.5 m/s ²
Jacking time	3 s
Direction change time	3 s
Battery capacity	48 V/32 Ah
Battery type	Lithium iron phosphate
Charge mode	Automatic charging /charger
PLC	Siemens
Communication mode	WIFI

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

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Mobile Robot Series

Stacking Mobile Robot

Performance features:

1. Very narrow aisle for high position and efficient storage;
2. Thin body, small turning radius; and
3. Excellent flexibility and high working efficiency.



Stacking Mobile Robot	Technical Parameter			
Model	EDA20-16	EDA20-30	CDD30J-16	CDD20J-16
Navigation mode	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation
Communication mode	WIFI/5G	WIFI/5G	WIFI/5G	WIFI/5G
Rated load	2000 kg	2000 kg	3000 kg	2000 kg
Lifting height	1600 mm	3000 mm	1600 mm	1600 mm
Positioning accuracy	± 10 mm	± 10 mm	± 10 mm	± 10 mm
Minimum ground clearance	30 mm	30 mm	35 mm	30 mm
Charge mode	Automatic + manual	Automatic + manual	Automatic + manual	Automatic + manual
Traveling direction	Forward,backward,turn	Forward,backward,turn	Forward,backward,turn	Forward,backward,turn
Standard battery	24 V/160 Ah	24 V/160 Ah	24 V/200 Ah	24 V/160 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention			
Alarm mode	Light alarm, broadcast	Light alarm, broadcast	Light alarm, broadcast	Light alarm, broadcast
Drive mode	Steering wheel drive	Steering wheel drive	Steering wheel drive	Steering wheel drive
Load center distance	600 mm	600 mm	600 mm	600 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	1825 mm	1825 mm	2730 mm	2515 mm
Running speed	1.5 m/s	1.5 m/s	1.2 m/s	1.5 m/s
Turning radius	1130 mm	1180 mm	2095 mm	1885 mm
Fork size	61*190*1150 mm	61*190*1150 mm	61*190*1150 mm	61*190*1150 mm
Fork outer width	680 mm	680 mm	780 mm	680 mm
Overall size (L*W)	1618*960 mm	1618*960 mm	2447*1260 mm	2199*1073 mm
Dead weight	750 kg	800 kg	1200 kg	900 kg
Overall height	2195 mm	2420 mm	2280 mm	2240 mm
Maximum lifting height (indentify according to accessible height)	3000 mm	3000 mm	3000 mm	3000 mm
Overall projection area	1.52 m ²	1.54 m ²	3.08 m ²	2.06 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Handling Mobile Robot



Handling Mobile Robot	Technical Parameter
Model	EBA20
Navigation mode	Integrate positioning + GPS navigation
Communication mode	WIFI/5G
Rated load	2000 kg
Lifting height	205 mm
Positioning accuracy	± 10 mm
Minimum ground clearance	30 mm
Minimum height above ground	30 mm
Charge mode	Automatic + manual
Traveling direction	Forward, backward, turn
Standard battery	24 V/160 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention
Alarm mode	Light alarm, broadcast
Drive mode	Steering wheel drive
Load center distance	500 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	1755 mm
Running speed	1.5 m/s
Turning radius	1070 mm
Fork size	61*190*1150 mm
Fork outer width	680 mm
Overall size (L*W)	1550*960 mm
Dead weight	690 kg
Maximum handling weight	2000 kg
Overall projection area	1.56 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Performance features:

1. Adapt to carriers or materials such as pallets and material boxes; be able to achieve accurate positioning of fork operation in natural environment; carry high sensitivity sensing module to offer carrier detection and release detection functions; accurately fork materials with a repeated release accuracy of ± 10 mm;
2. Narrow body, small aisle, and small turning radius allow for flexible unattended handling in a narrow space;
3. Fast, efficient, flexible, and improved factory efficiency;
4. Intelligent application, supporting special customization according to customer demands;
5. Small body but large battery for longer service time; and
6. The body is built-in with multiple protection mechanisms and alarm devices for usage safety.

Narrow Aisle Mobile Robot



Double-sided Stacking Mobile Robot

Double-sided Stacking Type Technical Parameter

Model	EDC03-40
Navigation mode	Fusion navigation
Communication mode	WIFI/5G
Rated load	300 kg
Lifting height	4000 mm
Extension-retraction distance of the fork	950 mm
Positioning accuracy	± 10 mm
Minimum ground clearance	30 mm
Charge mode	Automatic + manual
Traveling direction	Forward, backward, turn
Standard battery	24 V/150 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop
Alarm mode	Light alarm, broadcast
Drive mode	Steering wheel drive
Minimum pickup height	350 mm
Load center distance	400 mm
Stacking aisle width Pallet 800*800	975 mm
Running speed	1.0 m/s
Turning radius	1130 mm
Overall size (L*W)	1518*823 mm
Dead weight	1250 kg
Overall projection area	1.26 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Performance features:

1. Thin body allows for the fork to freely extend and retract;
2. Narrow aisle; the overall width is 76% less than that of the three-directional fork AGV;
3. Its acts quickly and flexibly so as to achieve maximum efficiency of material operation in the production process, greatly improving the intelligent warehousing capacity; and
4. The repeated positioning accuracy is ±10 mm on the strength of SLAM natural navigation.

Omni-directional Stacking Mobile Robot

Performance features:

1. Have characteristics including omni-directional movement, gantry forward, high-level stacking; be able to achieve accurate positioning of unattended fork operation in natural environment; offer carrier detection and release detection functions; accurately fork materials;
2. Quick charge, long battery life, flexible operation, applicable to a variety of workplaces;
3. The body is built-in with multiple protection mechanisms, alarm devices, and hydraulic circuit proportional valve for usage safety; and
4. Intelligent application, supporting special customization according to customer demands.



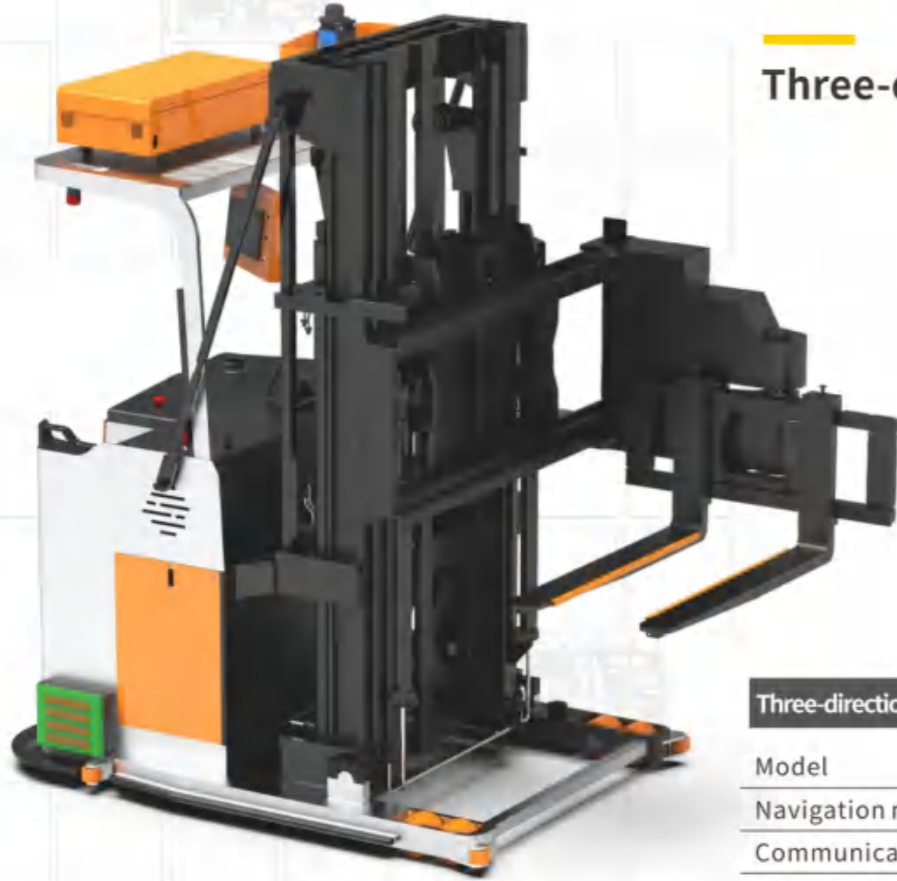
Omni-directional Stacking Type Technical Parameter

Model	EDQ15-45	EDQ30-30
Navigation mode	Fusion navigation	Fusion navigation
Communication mode	WIFI/5G	WIFI/5G
Rated load	1500 kg	3000 kg
Lifting height	4500 mm	3000 mm
Positioning accuracy	±15 mm	±20 mm
Minimum ground clearance (bearing center distance)	70 mm	135 mm
Charge mode	Automatic + manual	Automatic + manual
Traveling direction	Omni-directional, spin	Omni-directional, spin
Standard battery	24 V/200 Ah	48 V/300 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention	
Alarm mode	Light alarm, broadcast	Light alarm, broadcast
Drive mode	Steering wheel drive	Steering wheel drive
Load center distance	500 mm	600 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	2480 mm	3520 mm
Running speed	1.0 m/s	1.0 m/s
Reach distance	920 mm	1200 mm
Fork size	35*100*1070 mm	50*150*1220 mm
Overall size (L*W)	2060*1845 mm	2350*2680 mm
Dead weight	2400 kg	6500 kg
Maximum lifting height	4500 mm	3000 mm
Overall projection area	5.05 m ²	6.3 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Narrow Aisle AMR

Three-directional Mobile Robot



Three-directional Fork AMR	Technical Parameter
Model	EDDM15 (max9 m)
Navigation mode	Fusion navigation
Communication mode	WIFI/5G
Rated load	1500 kg
Lifting height	6000 mm
Positioning accuracy	± 20 mm
Minimum ground clearance	32 mm
Charge mode	Automatic + manual
Traveling direction	Forward, backward, turn
Standard battery	48 V/320 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention
Alarm mode	Light alarm, broadcast
Drive mode	Steering wheel drive
Load center distance	600 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	1760 mm
Running speed	1.0 m/s
Turning radius	2075 mm
Main aisle width	4150 mm
Fork size	45*125*1220 mm
Overall size (L*W)	3170*1550 mm
Dead weight	6300 kg
Overall projection area	4.8 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Performance features:

1. Apply to indoor narrow aisle warehouse with a minimum width of 1600 mm, saving space and significantly improving warehouse capacity;
2. Be able to control the fork to complete turning or moving left or right without body steering; greatly improving working efficiency;
3. Support lithium iron phosphate battery automatic charging system solution; and
4. The complete vehicle adopts CAN communication protocol.



Jacking Backpack Mobile Robot

Jacking Backpack Type	Technical Parameter	
Model	EKA10	EKA15
Navigation mode	QR code navigation	QR code navigation
Communication mode	WIFI/5G	WIFI/5G
Rated load	1000 kg	1500 kg
Positioning accuracy	± 10mm	± 10mm
Minimum ground clearance	30 mm	30 mm
Charge mode	Automatic + manual	Automatic + manual
Traveling direction	Forward, backward, turn, spin	Forward, backward, turn, spin
Standard battery	48 V/40 Ah	48 V/40 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop	
Alarm mode	Light alarm, broadcast	Light alarm, broadcast
Drive mode	Differential driving	Differential driving
Minimum pickup height	310 mm	430 mm
Running speed (full load/no load)	1.0/1.3 m/s	1.0/1.3 m/s
Spin radius	606 mm	606 mm
Overall size (L*W)	1100*793 mm	1100*793 mm
Dead weight	290 kg	370 kg
Reserved safety distance on the left and right for moving straight	100 mm	100 mm
In situ spin diameter of standard pallet (excl. the safety distance)	1565 mm	1565 mm

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Performance features:

1. **Compact body**
Compact body structure, small width, high load, small stacking aisle, be able to shuttle under goods base plate, improving warehouse capacity;
2. **Flexible route change**
The fusion navigation mode of "QR code + inertial navigation" allows for higher positioning accuracy. Virtual map paths can meet highly flexible production needs. The paths and stations can be modified rapidly in order to adapt to warehouse and production line change; and
3. **Safety and high efficiency**
Adopt "safety rim + laser obstacle avoidance" double obstacle avoidance measures to effectively guarantee the safety during handling.

Counter Balanced Mobile Robot



Four-wheel Counter Balanced Technical Parameter

Model	EPD20-16
Navigation mode	Integrate positioning + GPS navigation
Communication mode	WIFI/5G
Rated load	2000 kg
Lifting height	1600 mm
Positioning accuracy	± 20 mm
Minimum ground clearance	121 mm
Charge mode	Automatic + manual
Traveling direction	Forward, backward, turn
Standard battery	48 V/300 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention
Alarm mode	Light alarm, broadcast
Drive mode	Bridge driving
Load center distance	500 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	4050 mm
Running speed	1.0 m/s
Turning radius	2145 mm
Fork size	40*122*1070 mm
Overall size (L*W)	3490*1225 mm
Dead weight	3260 kg
Maximum lifting height (identify according to the accessible height)	6000 mm

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Four-wheel Counter Balanced Mobile Robot

Performance features:

1. Attachments can be customized to meet the operational requirements of materials in different forms such as pallets, paper rolls and soft rolls in different scenarios;
2. The rated load is 3 t; and
3. Safety circuits with multiple protection and alarm configurations makes it safer to use.

Legless Counter Balanced Mobile Robot

Performance features:

1. Apply to the handling, stacking and loading/unloading of materials on low shelves in the warehouse;
2. The rated load is 6 t;
3. Attachments can be customized according to requirements; and
4. Safety circuits with multiple protection and alarm configurations makes it safer to use.



Legless Counter Balanced

Technical Parameter

Model	EDB10-30	EDB15-16	EDB20-16	EDB30-16
Navigation mode	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation
Communication mode	WIFI/5G	WIFI/5G	WIFI/5G	WIFI/5G
Rated load	1000 kg	1500 kg	2000 kg	3000 kg
Lifting height	3000 mm	1600 mm	1600 mm	1600 mm
Positioning accuracy	± 10 mm	± 10 mm	± 10 mm	± 20 mm
Minimum ground clearance	55 mm	70 mm	70 mm	80 mm
Charge mode	Automatic + manual	Automatic + manual	Automatic + manual	Automatic + manual
Traveling direction	Forward, backward, turn	Forward, backward, turn	Forward, backward, turn	Forward, backward, turn
Standard battery	24 V/160 Ah	24 V/160 Ah	24 V/200 Ah	48 V/300 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention			
Alarm mode	Light alarm, broadcast	Light alarm, broadcast	Light alarm, broadcast	Light alarm, broadcast
Drive mode	Steering wheel drive	Steering wheel drive	Steering wheel drive	Steering wheel drive
Load center distance	500 mm	500 mm	500 mm	500 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	2440 mm	2820 mm	3005 mm	3460 mm
Running speed	1.5 m/s	1.5 m/s	1.5 m/s	1.2 m/s
Turning radius	1150 mm	1535 mm	1720 mm	2125 mm
Fork size	35*100*1070 mm	35*100*1070 mm	40*122*1070 mm	45*125*1070 mm
Overall size (L*W)	2360*1075 mm	2685*1120 mm	2865*1220 mm	3325*1320 mm
Dead weight	1950 kg	1950 kg	3150 kg	4050 kg
Overall height	2195 mm	2254 mm	2295 mm	2315 mm
Maximum lifting height (identify according to the accessible height)	3000 mm	3000 mm	3000 mm	3000 mm
Vehicle projection area (excl. the fork)	1.37 m ²	1.8 m ²	2.16 m ²	2.93 m ²
Vehicle projection area (incl. the fork)	2.19 m ²	3 m ²	3.49 m ²	4.39 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Forward Stacking Mobile Robot

Small Forward Stacking Mobile Robot

Performance features:

1. Apply to the handling, stacking and loading/unloading of materials on low shelves in the warehouse;
2. Compact structure helps achieve flexible stacking and handling in the narrow aisle;
3. Safety circuits with multiple protection and alarm configurations makes it safer to use; and
4. Quick charging, long battery life, flexible operation, applicable to a variety of workplaces.



Small Forward Stacking Type

Technical Parameter

Model	EDRA10-30	EDRA15-30	EDRA20-30
Navigation mode	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation
Communication mode	WIFI/5G	WIFI/5G	WIFI/5G
Rated load	1000 kg	1500 kg	2000 kg
Lifting height	3000 mm	3000 mm	3000 mm
Positioning accuracy	± 10 mm	± 10 mm	± 10 mm
Minimum ground clearance (bearing center distance)	70 mm	70 mm	70 mm
Charge mode	Automatic + manual	Automatic + manual	Automatic + manual
Traveling direction	Forward, backward, turn	Forward, backward, turn	Forward, backward, turn
Standard battery	24 V/160 Ah	24 V/160 Ah	24 V/160 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention		
Alarm mode	Light alarm, broadcast	Light alarm, broadcast	Light alarm, broadcast
Drive mode	Steering wheel drive	Steering wheel drive	Steering wheel drive
Load center distance	500 mm	500 mm	500 mm
Stacking aisle width Pallet 1000*1200 (1200 cross-fork placing)	2515 mm	2615 mm	2765 mm
Running speed	1.5 m/s	1.5 m/s	1.2 m/s
Turning radius	1650 mm	1750 mm	1900 mm
Reach distance	500 mm	600 mm	670 mm
Fork size	35*100*1070 mm	35*100*1070 mm	40*122*1070 mm
Overall size (L*W)	2385*1100 mm	2385*1100 mm	2385*1100 mm
Dead weight	1875 kg	1900 kg	2050 kg
Overall height	2090 mm	2090 mm	2090 mm
Maximum lifting height (identify according to accessible height)	5500 mm	5500 mm	5500 mm
Overall projection area	1.79 m ²	1.79 m ²	1.8 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Forward Stacking Mobile Robot



Large Forward Stacking Mobile Robot

Performance features:

1. With characteristics of narrow aisle, high lifting and high operating accuracy, be able to achieve accurate positioning of fork operation in natural environment; carry high sensitivity sensing module to offer carrier detection and release detection functions; accurately fork materials with a repeated release accuracy of ±10 mm;
2. Quick charging, long battery life, flexible operation, applicable to a variety of workplaces;
3. The body is built-in with multiple protection mechanisms and alarm devices for usage safety; and
4. Intelligent application, supporting special customization according to customer demands.

Large Forward Stacking Type

Technical Parameter

Model	EDR20-45S
Navigation mode	Integrate positioning + GPS navigation
Communication mode	WIFI/5G
Rated load	2000 kg
Lifting height	4500 mm
Positioning accuracy	± 10 mm
Minimum ground clearance	70 mm
Charge mode	Automatic + manual
Traveling direction	Forward, backward, turn
Standard battery	48 V/320 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop, fork collision prevention
Alarm mode	Light alarm, broadcast
Drive mode	Steering wheel drive
Load center distance	500 mm
Stacking aisle width Pallet 1000*1000 (1200 cross-fork placing)	2965 mm
Running speed	1.0 m/s
Turning radius	2010 mm
Reach distance	655 mm
Fork size	40*122*1070 mm
Overall size (L*W)	2795*1510 mm
Dead weight	3600 kg
Overall height	2345 mm
Maximum lifting height (identify according to accessible height)	8000 mm
Overall projection area	3.24 m ²

Note: The stacking aisle width excludes the safety distance. The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Bin Mobile Robot



Product features:

- 1. Compact body**
Characterized by compact body structure, small width and high lift; used for forking cargo laterally; small stacking aisle, improving warehouse capacity;
- 2. Multi-bin handling**
Be able to accommodate and carry multiple bins and transfer goods rapidly, effectively improving warehouse utilization ratio;
- 3. Flexible route change**
The fusion navigation mode of "QR code+inertial navigation" allows for higher positioning accuracy. Virtual map paths can meet highly flexible production needs. The paths and stations can be modified rapidly in order to adapt to warehouse and production line change; and
- 4. Safety and high efficiency**
Adopt "safety rim+laser obstacle avoidance" double obstacle avoidance measures to effectively guarantee the safety during handling.

Bin Mobile Robot	Technical Parameter
Model	EKD03-35
Navigation mode	QR code navigation
Communication mode	WIFI/5G
Single pickup load	50 kg
Rated load of temporarily storage shelves	250 kg
Extension-retraction distance of the fork	850 mm
Positioning accuracy	± 10 mm
Minimum ground clearance	30 mm
Charge mode	Automatic + manual
Traveling direction	Forward, backward, turn, spin
Standard battery	48 V/40 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop
Alarm mode	Light alarm, broadcast
Drive mode	Differential driving
Minimum pickup height	350 mm
Running speed	1.0 m/s
Spin radius	850 mm
Overall size (L*W)	1600*973 mm
Dead weight	800 kg
Maximum lifting height (identify according to accessible height)	3500 mm
Applicable bin size	600 mm*400 mm
Overall projection area	1.58 m ²

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.

Traction Mobile Robot

Seat-type Traction Mobile Robot

Performance features:

- 1.** Support indoor and outdoor long-distance handling scenarios;
- 2.** Hybrid navigation and positioning technology helps achieve accurate positioning in natural environment;
- 3.** Quick charging, long battery life, flexible operation; and
- 4.** It has multiple safety protection functions to guarantee the safety of people, vehicles, and goods.



Seat-type Traction	Technical Parameter	
Model	EPA30	EPA60
Navigation mode	Integrate positioning + GPS navigation	Integrate positioning + GPS navigation
Communication mode	WIFI/5G	WIFI/5G
Rated traction weight	3000 kg	6000 kg
Traction capability	2200 N	3200 N
Positioning accuracy	± 20 mm	± 20 mm
Minimum ground clearance	100 mm	100 mm
Charge mode	Automatic + manual	Automatic + manual
Traveling direction	Forward, backward, turn	Forward, backward, turn
Standard battery	48 V/300 Ah	48 V/300 Ah
Safety measures	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop	Laser obstacle avoidance, mechanical collision prevention, remote emergency stop
Alarm mode	Light alarm, broadcast	Light alarm, broadcast
Drive mode	Bridge driving	Bridge driving
Running speed	1.0 m/s	1.0 m/s
Turning radius	1890 mm	1890 mm
Overall size (L*W)	2390*1500 mm	2390*1500 mm
Dead weight	1100 kg	1450 kg
Support automatic hook or not	No	No
Height of traction pin from ground	330 mm	330 mm

Note: The parameters above are for reference only and are subject to technical change without notice. Thanks for your understanding.