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# KINMOTOR

## PRODUCT CATALOGUE

SERVO CHAIN HOIST

VARIABLE FREQUENCY CHAIN HOIST

WORKSTATION SMART HOIST



# KINMOTOR

Zhejiang Jinzhou Electromechanical Technology Co., Ltd.

Address: No. 9, 26th Street, Eastern New Area,  
Wenling, Zhejiang, China

Website: [www.kinmotor.cn](http://www.kinmotor.cn)

Tel: 0576-86241218

Fax: 0576-86241218



Fast



Accurate



Stable

# ABOUT US

Zhejiang Jinzhou Electromechanical Technology Co., Ltd. is a subsidiary of Zhejiang New Folinn Co., Ltd., which is the key of the servo motors and light hoist with a provincial-level high-tech enterprise.

We process a series of high-performance and high-efficiency smart hoist with the professional research and development team according to the core drive technology of our parent company and our own servo motor technology. The core products include workstation smart hoist, servo chain hoist and variable frequency chain hoist, which are suitable for the light lifting and handling industry.

At the same time, the company making effort in practical applications. Provide customers with safe, efficient, and user-friendly plan.

In the future, we will still persist in innovation. The technology and quality will continue to strengthen. We will persist in working hand in hand with customers to create brilliance together.



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# Innovation Leads The Future

## Controller

1. Accurate positioning: Zero-speed servo function, lifting the work pieces smoothly, with a speed control ratio of up to 1:1000. And a minimum lifting speed can achieve 0.05m/min (zero speed start), which makes it easier to control the work pieces without vibration and noise.

2. Wide speed servo range and efficient operation: When unloaded or below 10% of the rated load, can reach the fastest lifting (1.9 times higher than the normal speed)

3. Diverse interfaces adapt to various control signal, which is flexible.

## Encoder

1. Adopting a high-resolution magnetic encoder with fast response rate.

2. Long life.

3. High control accuracy, achieving precise positioning.

## Special Drive Cover

1. Adopting intergrate aluminum die-casting technology. This is used for the assembly of driver modules, allowing the driver modules to come together. It can improve heat dissipation efficiency and increases product stability.

2. Dustproof, waterproof, and easy to dissipate heat.

3. Protection level up to IP55.

## Status Display Screen

Display of current operating speed (n.nn m/min), fault status, and other information.



## Gearbox

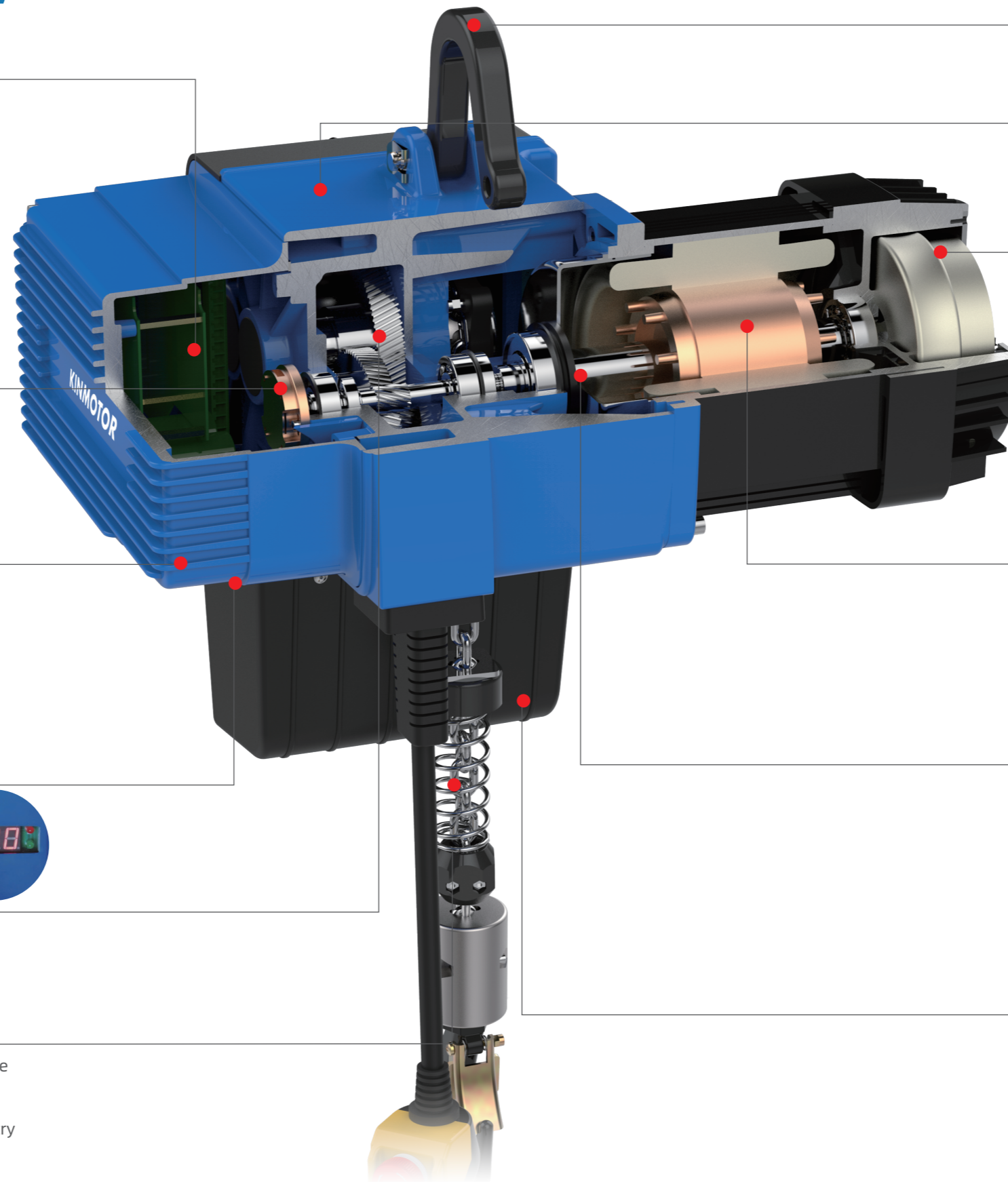
All shift position in the gearbox are engaged with helical gears. So noise is effectively reduced. And Operation is smooth. Product life is extended.

## Round Steel Chain

1. High strength and aging resistant materials with high surface strength.

2. After special surface treatment to prevent rust.

3. Can select additional rust protection, suitable for food industry and extreme dust environments.



## Hange

Articulated suspension and smaller hook size C, which can optimize headroom.

## Shell

The sturdy and lightweight Aluminum alloy shell adopts modern industrial design.

## Electromagnetic Brake

1. Fully utilizing the characteristics of servo controlled electronic brakes. At the same time, it adopts electromagnetic brake, no shaking during the lifting process, ensuring smooth operation and safe braking.

2. The combination of electronic brake and electromagnetic brake can fully reduce the wear of the brake pads. The life of the electromagnetic brake and the entire equipment has been extended.

## Servo Motor

1. Specially designed servo motor for lifting, which can achieve lifting at zero speed.(under rated load state) and accurately controlling the speed.

2. Without fan, ample power margin.

## Direct Connection Structure

1. Adopting a direct connection structure, there will be no slippage and ensuring control precision.

2. Through special algorithms of servo control, electronic clutch technology is implemented to provide reliable protection against overload situations.

## Chain box

1. Articulated installation, using impact resistance plastic.

2. Metal chain box, suitable for larger hook travel.

# D2 Series Servo Chain Hoist



## Product Brief

It adopts aluminum shell, which is lightweight and sturdy. Adopting low headroom, servo drive control and special servo motors, which can fully utilize advantages of hoist.

The direct connection method of the motor shaft ensures stable lifting without slipping, and adopts overload protection of motor control technology to ensure the safety and reliability of the system. The hoist has wide speed range and high accuracy. The minimum speed is 0.05m/min. The equipment is safe and reliable with complete protection functions and fast response speed. The control interface is diverse, making it easy for various workstations to control, especially suitable for high-precision assembly.

## Product Features

- ◆ Specially designed servo motor for smooth operation performance.
- ◆ The system has soft limit, reducing the risk of collision and providing flexible working range.
- ◆ Stepless speed change and accurate positioning. It has wide speed range and high accuracy. The minimum speed can reach 0.05m/min.
- ◆ Low noise. Smooth operation without vibration. High precision.
- ◆ The design of electronic friction clutch can maximize the life of the entire machine. And it does not require maintenance.
- ◆ Diverse interfaces, adaptable to various interface.

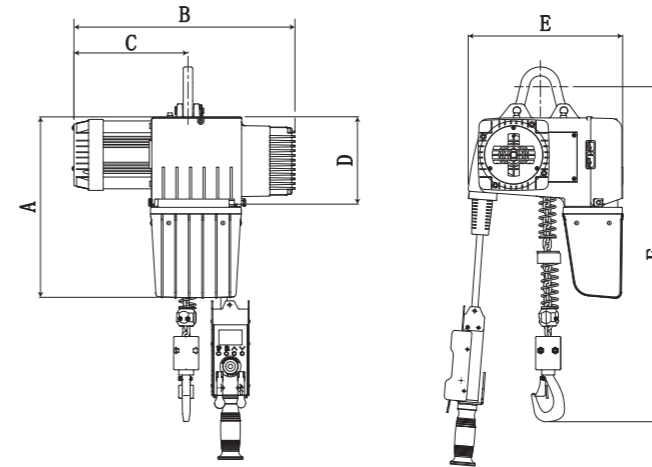
**E2 Stepless Gear Handle:** Four gear speeds, the maximum speed range for each gear can be set according to the customer's actual production needs. The speed is displayed in real-time. Tablet press style control with sensitive induction, especially suitable for precise control at ultra-low speeds.

## Product Specifications and Dimensions

Item name	Model	D2C012-E	D2C025-E	D2C050-E	D2C100-E	D2C200-E
Maximum load(Kg)		125	250	500	1000	2000 (Double chain)
Standard speed (m/min)		0-16	0-16	0-10	0-8	0-4
Customized speed (m/min)		0-20	0-20	0-17	0-15	0-7.5
Rated power(KW)		0.75	0.75	1.1	2.2	2.2
Vertical maximum stroke(m)		4 / 5 / 8 / 11 (customizable)				
Control mode		Wire control button/remote control button				
Self Weight(Kg)		25	25	32	52	62
Chain specifications(mm)		5.0	5.0	5.0	7.1	7.1
Voltage		standard 380V(optional 220V)				
Working level of the organization		3m / M6	3m / M6	3m / M6	2m / M5	2m / M5
Working temperature(°C)		-10°C~55°C				

Note: The above data is for selection reference only, and the actual data based on the product nameplate.

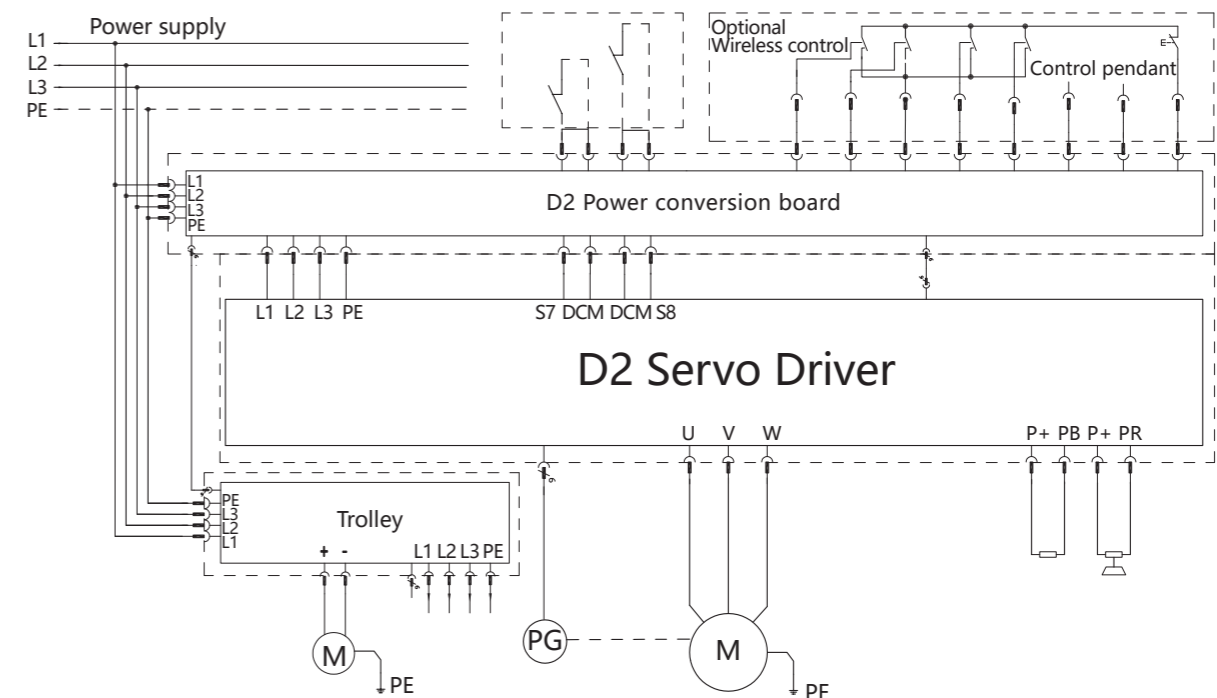
## Product Specifications and Dimensions



Outline Specification (Unit: mm)

Model	A	B	C	D	E	F
D2C012-E	346	424	219	167	296	h < 470
D2C025-E	346	424	219	167	296	h < 470
D2C050-E	350	468	260	188	313	h < 480
D2C100-E	446	546	303	233	349	h < 590
D2C200-E	446	546	303	233	349	h < 650

## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual.

## Handle for selecting



D2 2 key Stepless speed change Handle

Wireless controller



# D2 Series Variable Frequency Chain Hoist



Handle for selecting



Wireless controller

## Product Brief

It adopts aluminum shell, which is lightweight and sturdy. Adopting low headroom, servo drive control and special servo motors, which enable to achieve function of adjustable speed. At low speeds, it can be lower than half of the conventional gear. At high speeds, it can be higher than 50% of the conventional gear. Smooth operation and low vibration during lifting. The operation has no impact, low failure rate and complete protection functions, enable it has long product life. And multiple reserved interfaces, which is convenient for automation control.

## Product Features

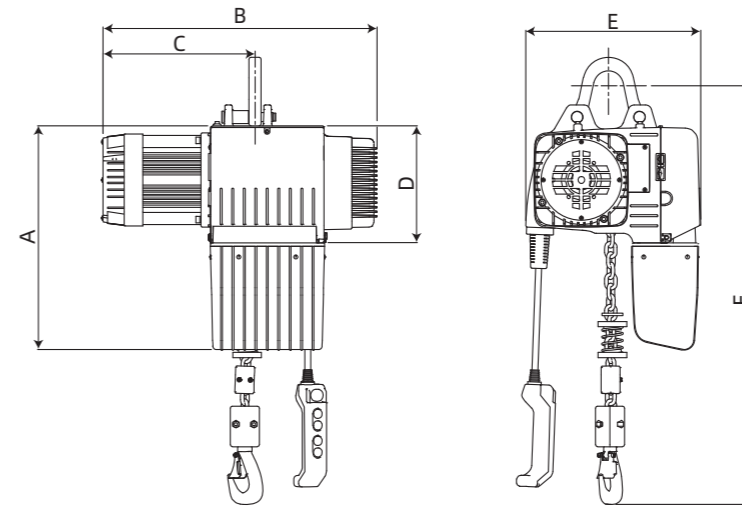
- ◆ Customized frequency conversion drive and variable frequency motor, which is reliable and stable.
- ◆ The system has soft limit, reducing the risk of collision and providing flexible working range.
- ◆ Speed range (customizable), can be 1/2 lower than conventional gear at low speeds, and 50% higher than conventional gear at high speeds (when rated load is less than 10%)
- ◆ Low noise. Smooth operation without vibration. High precision.
- ◆ Comprehensive and multiple protection functions ensure safe and stable operation.
- ◆ Compared to traditional hoist, it has faster response speed, more reliable operation, lower malfunctions rate, and longer product life.
- ◆ And multiple interfaces reserved for automation control.
- ◆ It is equipped with a built-in remote control module, which can control the electric trolley and large trolley.

## Product Specifications and Dimensions

Item name	Model	D2B012	D2B025	D2B050	D2B100	D2B200
Maximum load(Kg)		125	250	500	1000	2000 (Double chain)
Standard speed (m/min)		0/12	0/12	0/8	0/8	0.5/4
Customized speed (m/min)		0/20	0/20	0/17	0/15	0/7.5
Rated power(KW)		0.75	0.75	1.1	2.2	2.2
Vertical maximum stroke(m)		4/5/8/11(customizable)				
Control mode		Wire control button/remote control button				
Self Weight(Kg)		25	25	32	52	62
Chain specifications(mm)		5.0	5.0	5.0	7.1	7.1
Voltage		standard 380V(optional 220V)				
Working level of the organization		3m/M6	3m/M6	3m/M6	2m/M5	2m/M5
Working temperature(°C)		-10°C~55°C				

Note: The above data is for selection reference only, and the actual data based on the product nameplate.

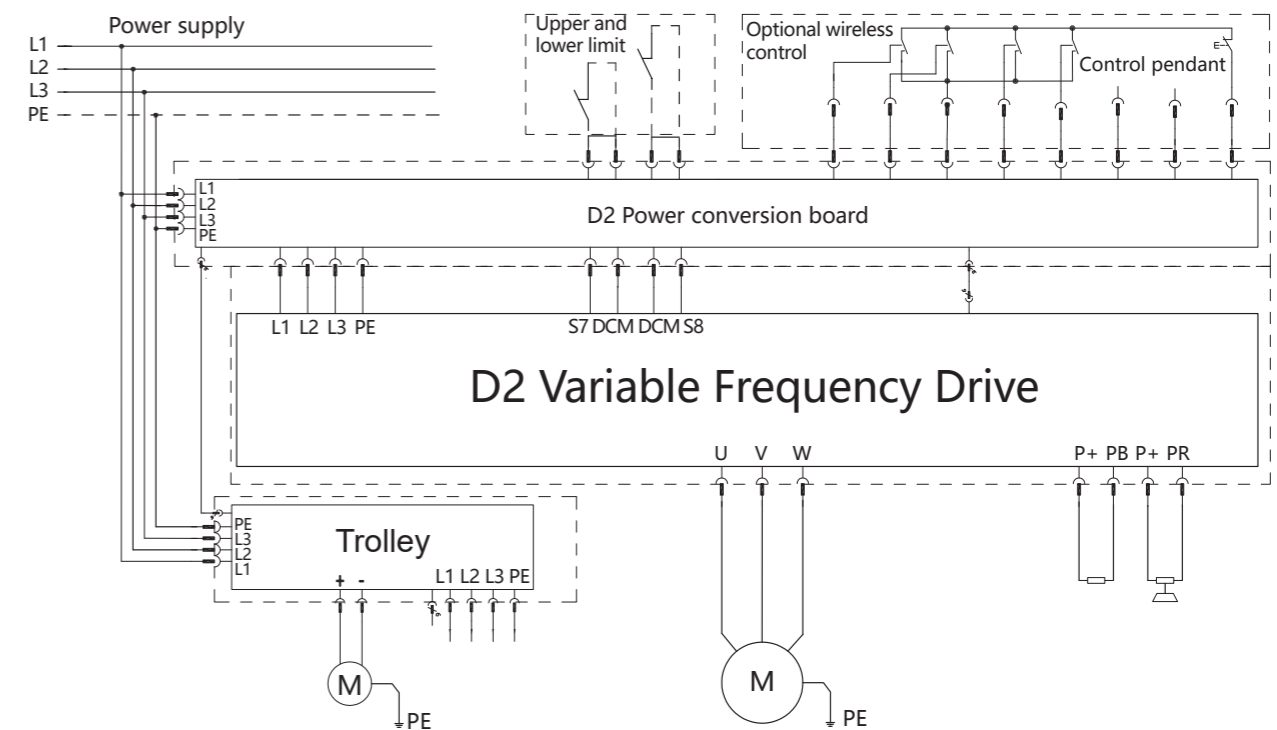
## Product Specifications and Dimensions



Outline Specification (Unit: mm)

model	A	B	C	D	E	F
D2B012	346	424	219	167	296	h < 470
D2B025	346	424	219	167	296	h < 470
D2B050	350	468	260	188	313	h < 480
D2B100	446	546	303	233	349	h < 590
D2B200	446	546	303	233	349	h < 650

## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual.

# D2 Series Paddle Type Hoist



## Product Features

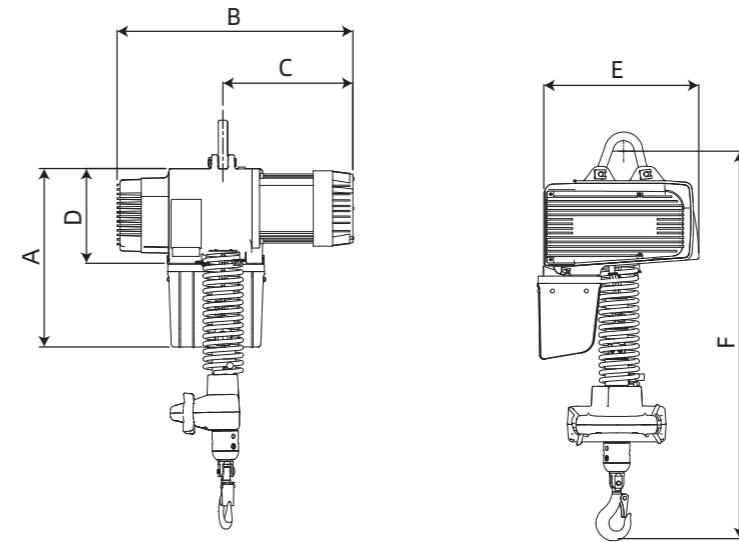
- ◆ The system has soft limit, reducing the risk of collision and providing flexible working range.
- ◆ Handle design adopts ergonomic, so it is comfortable. Equipped with double-side control paddles. It can easily be controlled by one hand. And both hands can switch freely.
- ◆ Stepless speed change enable millimeter level movement. Not only can achieve precise position, but also have smooth operation. Fully utilize the fast, accurate and stable characteristics of smart hoist.
- ◆ Suitable for various workstation. Not only reduce labor intensity but also achieve smart assembly. At the same time, it can ensure working efficiency.

## Product Specifications and Dimensions

Item name	Model	D2B012-F D2C012-F	D2B025-F D2C025-F	D2B050-F D2C050-F
Maximum load(Kg)		125	250	500
Lifting speed - dual speed (m/min)		1/12	1/12	1/8
Lifting speed - stepless speed(m/min)		0-16	0-16	0-10
Rated power(KW)		0.75	0.75	1.1
Vertical maximum stroke(m)		2.8(customizable)		
Control mode		F3 variable frequency dual speed/ F2 stepless speed change Handle		
Self Weight(Kg)		23	23	32
Chain specifications (mm)		5.0	5.0	5.0
Voltage		standard 380V(optional 220V)		
Working level of the organization		3m/M6	3m/M6	3m/M6
Working temperature(°C)		-10°C~55°C		

Note: The above data is for selection reference only, and the actual data based on the product nameplate.

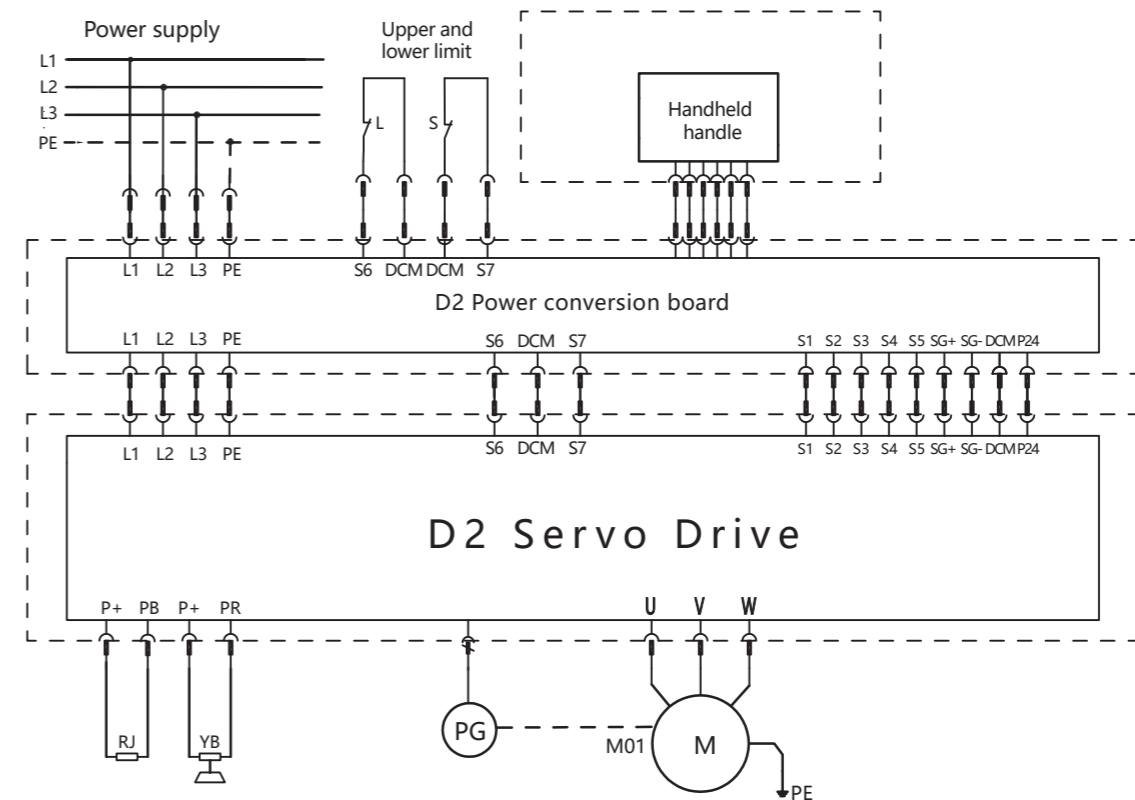
## Product Specifications and Dimensions



Outline Specification (Unit: mm)

Model	A	B	C	D	E	F
D3B012-F D3C012-F	346	424	219	167	296	h < 780
D3B025-F D3C025-F	346	424	219	167	296	h < 780
D3B050-F D3C050-F	350	468	260	188	313	h < 790

## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual.



# D3 Series Workstation Smart Hoist



## Product Brief

It adopts aluminum shell, which is lightweight and sturdy. And we have a unique patented technology, servo system controlled by industrial processors, which help D3 series workstation smart hoist improve lifting speed and assembly accuracy. It combines high technology and human action instructions, which makes it easier to move heavy object. Jinzhou smart hoist can maximize production efficiency and reduce the physical pressure of worker. At the same time, it can reduce product damage rate and industrial accident.

## Product Features

### 01 HANDLE/SUSPENSION DUAL MODE

- Handle mode:**  
According with ergonomics. Person with one hand can operate.
- Suspension mode:**  
It can move easily through handle. It can also directly move the item to precise position.

### 02 STEPLESS SPEED CHANGE/CONTROLLABLE SPEED

- The speed change according to the action speed of operators. It is suitable for situation that require different speed to achieve precise position.

### 03 PRECISE POSITIONING FUNCTION

- Enable operator to move precise equipment and fragile products accurately and smoothly.

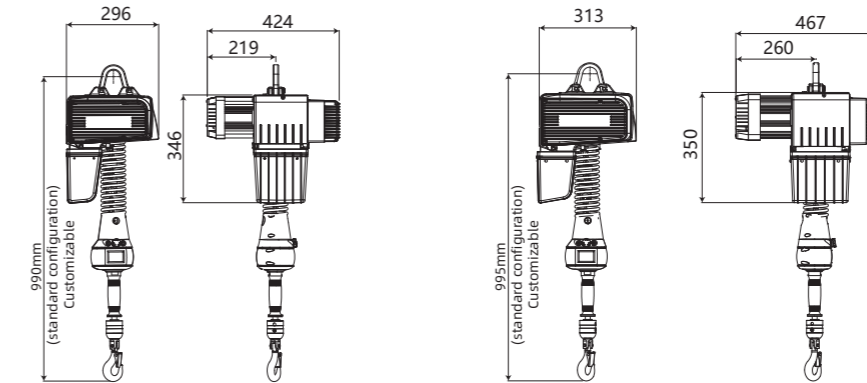
### 04 SAFE AND RELIABLE

- Overload protection function:**  
Automatic weight induction system. It will give an alarm and stop working when it senses overload.
- Photoelectric induction function:**  
There is an integrated photoelectric sensor in the handle. Only after sensing that the operator is in place can the hoist be operated, which can prevent accidental contact.
- Anti rebound function:**  
Prevent sudden changes in weight from causing movement and rebound, which can eliminate potential security risks.
- Power off protection function:**  
When the power supply fails, the safety brake automatically locks, the load will not fall.
- Soft limit function:**  
The system has soft limit, reducing the risk of collision and providing flexible working range.

## Product Specifications and Dimensions

Item name	Model	D3L012	D3L025	D3L050
Maximum load(Kg)		125	250	500
lifting speed(m/min)		0-16	0-16	0-10
Rated power(KW)		0.75	0.75	1.1
Vertical maximum stroke(m)		2.8(customizable)		
Control mode		Coaxial sliding handle		
Self Weight(Kg)		27	27	36
Chain specifications (mm)		5.0	5.0	5.0
Voltage		standard 380V(optional 220V)		
Working level of the organization		3m/M6	3m/M6	3m/M6
Working temperature(°C)		-10°C~55°C		

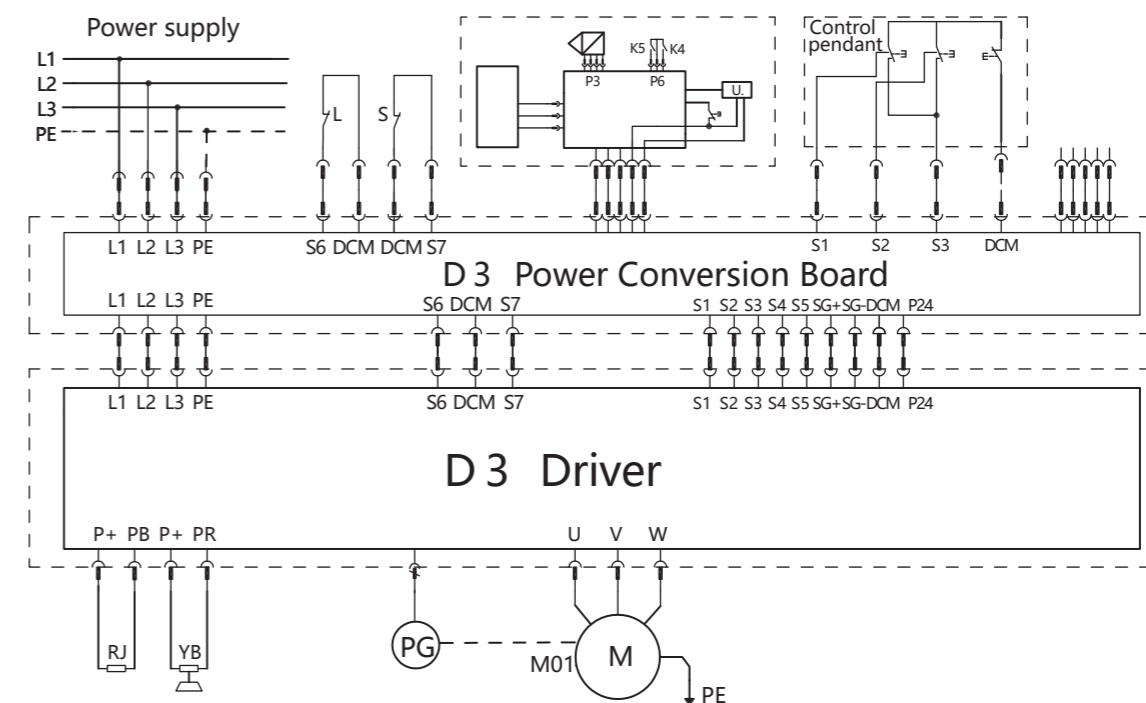
Note: The above data is for selection reference only, and the actual data based on the product nameplate.



D3L012/D3L025 series product size

D3L050 series product size

## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual.

# Q5 Series Workstation Smart Hoist



## Product Features

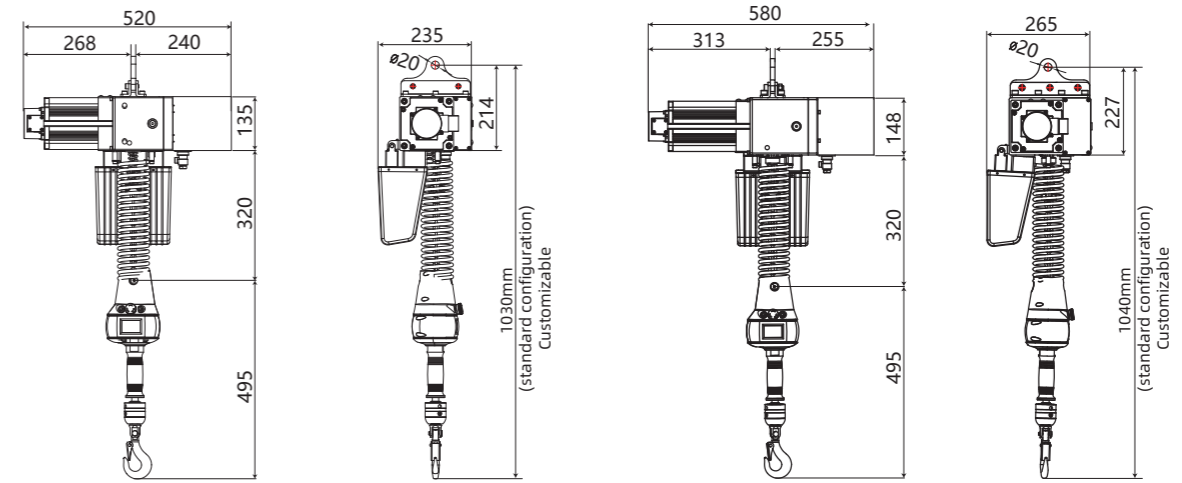
- Soft Limit Function
- Accurate Positioning
- Photoelectric Induction
- Suspension Mode
- Stepless Speed Change
- Handle Mode
- Overload Protection
- Anti Rebound
- Power-off Protection

## Product Specifications and Dimensions

Item name	Model	Q5L010	Q5L020	Q5L030	Q5L050	Q5L060
Maximum load(Kg)		100	200	300	500	600
lifting speed(m/min)		0-16	0-13	0-11	0-10	0-8
Rated power(KW)		0.55	0.75	1.1	1.5	1.5
Vertical maximum stroke(m)		2.8(customizable)				
Control mode		Coaxial sliding handle				
Self Weight(Kg)		40	40	45	45	45
Chain specifications(mm)		5.0	5.0	6.3	6.3	6.3
Voltage		standard 220V(optional 380V)				
Working level of the organization		3m/M6				
Working temperature(°C)		-10°C~55°C				

Note: The above data is for selection reference only, and the actual data based on the product nameplate.

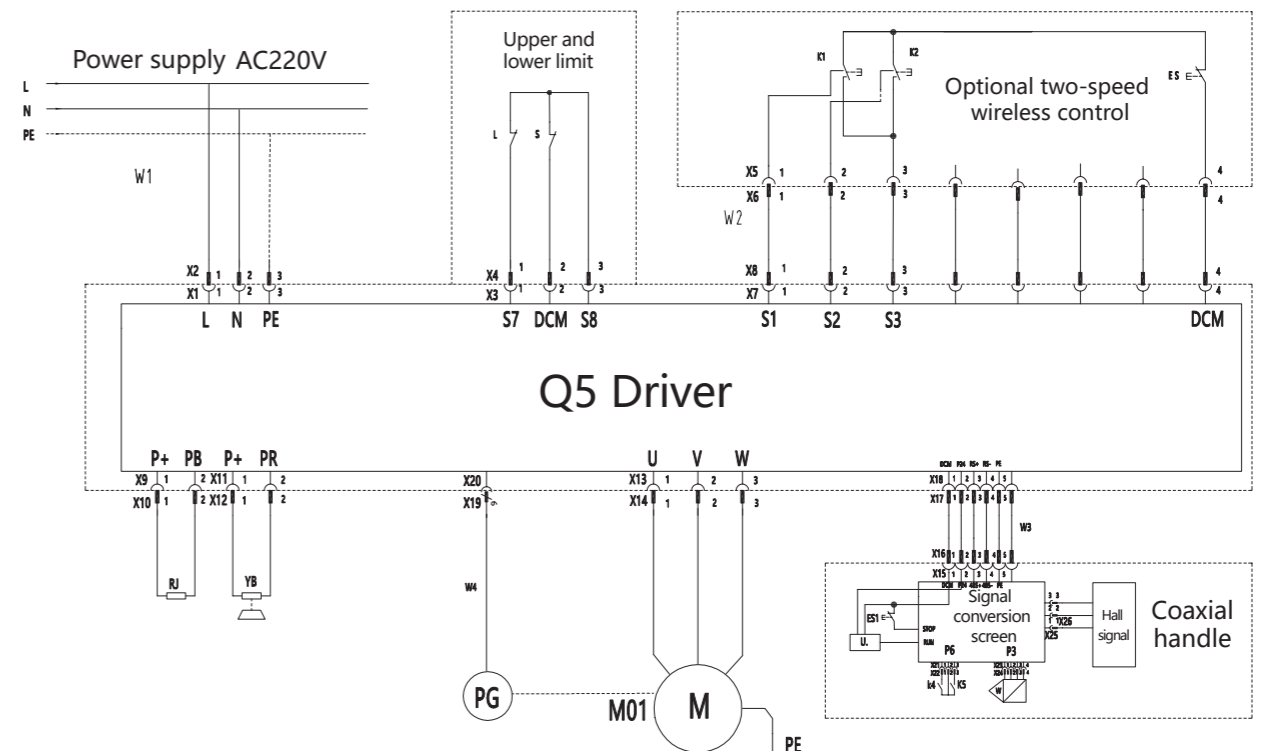
## Product Specifications and Dimensions



Q5L010/Q5L020 series product size

Q5L030/Q5L050 series product size

## Wiring Diagram





Note: For reference only, the actual line is subject to the product manual.



# X3 Series Workstation Smart Hoist



-  Handle mode
-  Over load protection
-  Suspension mode
-  Photoelectric induction
-  Stepless speed change
-  Anti rebound
-  Accurate positioning
-  Power off protection

## Product Features

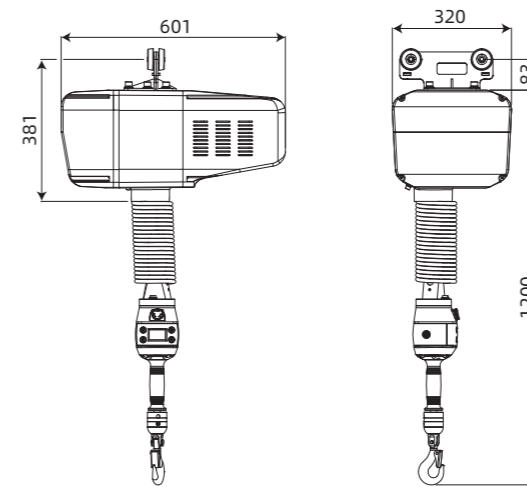
- ◆ It adopts steel wire rope structure to replace chain structure to achieve higher precision requirements and faster speed.
- ◆ The system has soft limit, reducing the risk of collision and providing flexible working range.
- ◆ The fastest speed can reach 30m/min. The slowest speed can reach 0.05m/min. Ensuring operator to move precise instruments and fragile products accurately and smoothly.
- ◆ Wrapping multiple steel wire ropes into thick ropes, which avoids rotation so it is more stable. It equipped with planetary reducer, so it can reduce noise during operation.

## Product Specifications and Dimensions

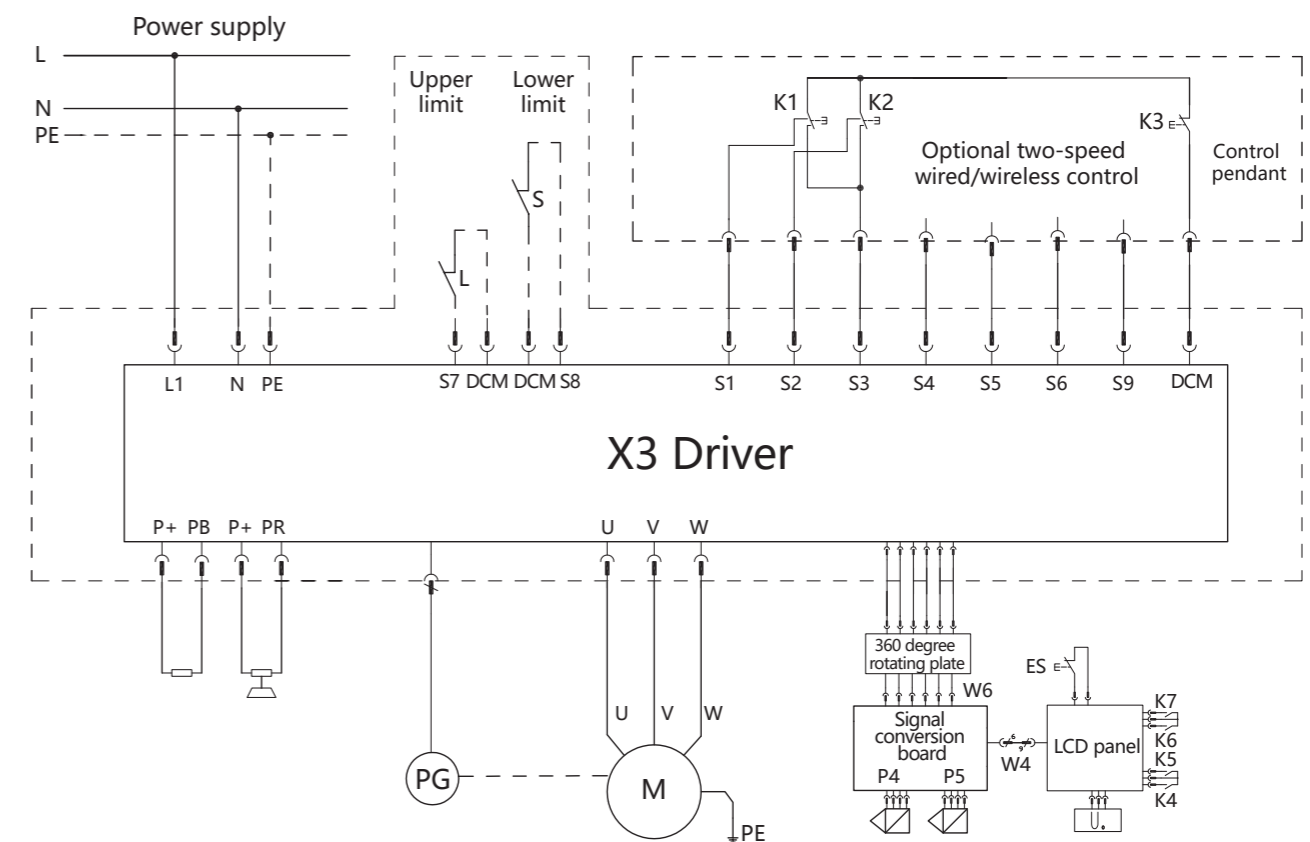
Item name	Model	X3S010	X3S020	X3S030	X3S060
Maximum load(kg)		100	200	300	600 (Double rope)
* Maximum lifting speed--handle mode(m/min)		35	29	25	10
* Maximum lifting speed--suspension mode(m/min) Optional		25	25	18	9
Rated power(Kw)		0.8	0.8	1.1	1.1
Vertical maximum stroke (m)		2.5	2.5	2.5	1.6
Control mode		Coaxial pressure handle			
Self Weight(Kg)		40	43	45	47
Voltage		standard 220V(optional 380V)			
Working level of the organization		3m/M6	3m/M6	3m/M6	2m/M5
Ambient temperature (non-condensing)		-10°C-55°C			

\*1. The speed data is for reference only, based on the product nameplate;  
 2. The fastest and slowest speed can be customized according to needs.  
 Note: The above data is for selection reference only, and the actual data based on the product nameplate.

## Product Specifications and Dimensions



## Wiring Diagram

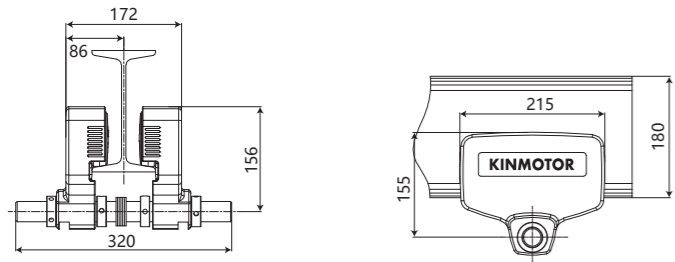


Note: For reference only, the actual line is subject to the product manual.

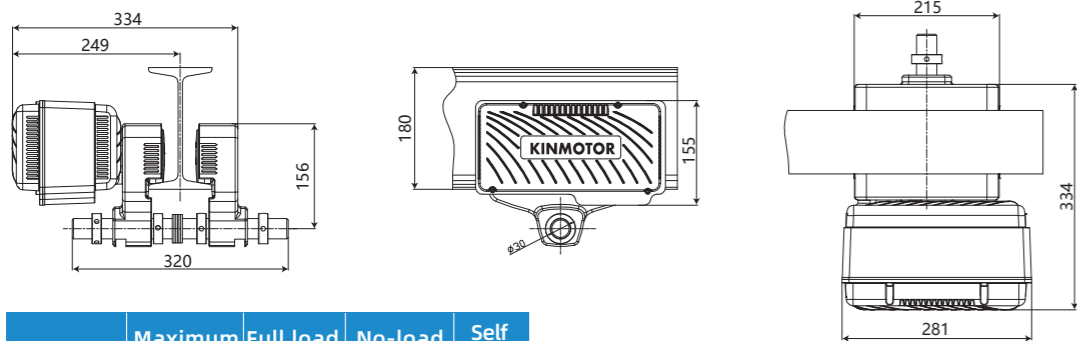
# ELECTRIC TROLLEY



## Manual Trolley

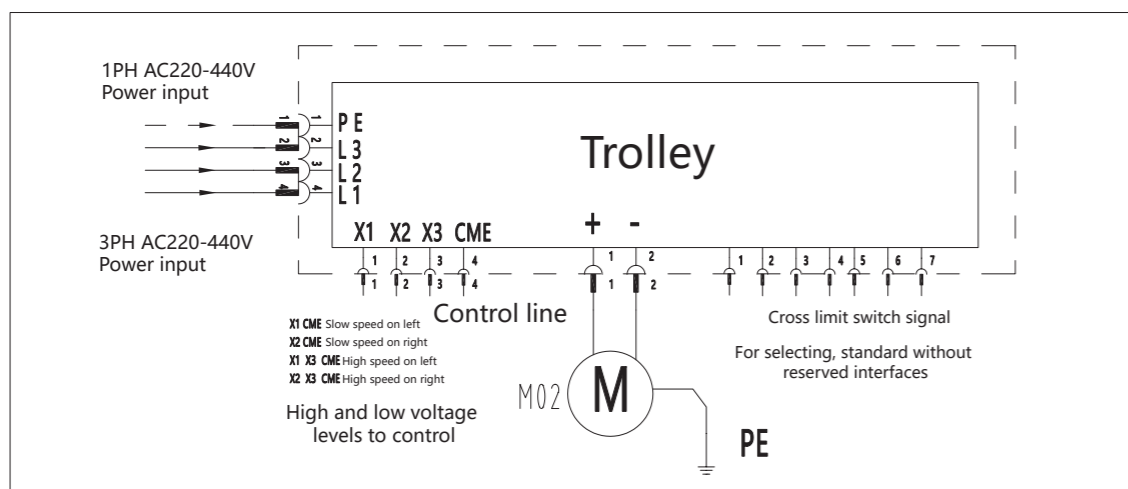


## Electric Trolley



Model	Maximum load (Kg)	Full load speed (m/min)	No-load speed (m/min)	Self weight (Kg)
ED2-220	2200	12/1	15	8

## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual.

# HANDLE FOR D3 SMART HOIST

Fit for situation that the item has small volume. And the lifting range is not high, which workers can reach it.	Fit for situation that the item has small volume. And the lifting range is not high, which workers can reach it.	Fit for situation that the item has small volume. And the lifting range is not high, which workers can reach it.			
<p>01 Main Machine 02 Spiral Cable 03 B4 Coaxial Sliding Handle 05 Hook</p>	<p>01 Main Machine 02 Spiral Cable 04 B6 Handle 05 Hook</p>	<p>01 Main Machine 02 Spiral Cable 07 Handheld Handle (F2 stepless speed change / F3 variable frequency dual speed) 05 Hook</p>			
Suitable for heights that workers cannot touch and the volume is large. The handle is connected to the main machine through a detached handle box.	Suitable for heights that workers cannot touch and the volume is large. The handle is connected to the main machine through a detached handle box.	Suitable for heights that workers cannot touch and the volume is large. The handle is connected to the main machine through a detached handle box.			
<p>01 Main Machine 02 Spiral Cable 08 Signal Cable 06 B1 Deatched Handle Box 05 Hook 09 B7 Deatched Handle</p>	<p>01 Main Machine 02 Spiral Cable 08 Signal Cable 06 B1 Deatched Handle Box 05 Hook 10 E3 Remote Stepless Tablet Press Style Handle</p>	<p>01 Main Machine 02 Spiral Cable 08 Signal Cable 06 B1 Deatched Handle Box 05 Hook 11 T1 Full Touch Controller</p>			
03 B4 Handle (Standard)	04 B6 Handle (Selecting)	07 Handheld Handle (Selecting)	09 B7 Deatched Handle (Selecting)	10 E3 Remote Stepless Tablet Press Style Handle(Selecting)	11 T1 Full Touch Handle(Selecting)
without gas circuit	without gas circuit	F2 stepless speed change / F3 variable frequency dual speed		convention	
01 Main Machine Classification	05 Hook And Rotating Components	H1 Electrical Slip Ring(Selecting)	Connecting Component	08 Signal Cable	Additional Accessories
125Kg 250Kg 500Kg	Rotating components Anti detachment hook			0.5m standard 2m for select	Wireless Remote Controller





# INSTALLATION SOLUTION



Installation Solution  
Of Knuckle-boom Crane



Installation Solution  
Of Cantilever Crane



Light Runways  
Installation Solution

