



WIRELESS

FREEHOIST+

Lift Smarter

Work Easier

App Control



MAKE A BETTER WORLD

FREEHOIST+

Solving key challenges in stage rigging

No more cluttered stage setups

Eliminate complex cabling for a cleaner, safer, and more organized work environment.

Reduce labor costs

Skip traditional wiring processes to lower installation and maintenance expenses.

Shorten setup time

No time-consuming cabling required—activate equipment quickly and accelerate the entire rigging schedule.

Flexible hoist operation

Operate through an intelligent app for greater freedom and adaptability across diverse stage scenarios.



PRODUCT INTRODUCTION

FreeHoist developed by Mode China in 2021, is the world's first truly wireless stage hoist.

It requires no power cables and no control console, and delivers up to 168 hours of operation on a single charge, meeting the rigging and build-up needs of a wide range of stage productions and events.



Battery-powered

Free from power-cable limitations



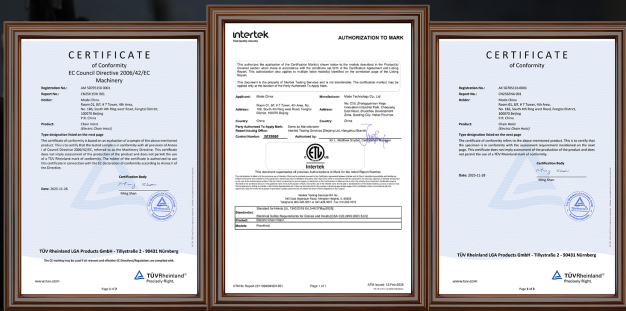
Multi-terminal control

It can be operated using handheld controllers, mobile phones or tablets and laptops.



Permanent magnet synchronous motor (PMSM)

Synchronized lifting across multiple hoists with less than 1 cm deviation



FreeHoist D8+ EN17206 Certificate AK 50705150 0001

UL&CSA Certification

FreeHoist D8+ EN17206 Certificate AK 50705116 0001

CONTROL FUNCTION



- Configurable handheld controller



Group operation



100m control range



Stable signal

- Control terminal can operate up to 100 hoists simultaneously
- Effective control range up to 100 meters radius
- 2.4GHz & 5.8GHz dual-band wireless communication for enhanced anti-interference
- All hoists automatically stop within 1.5 seconds if one hoist stops to ensure on-site safety
- Custom group names
- Hoist grouping sequence remains unchanged when switching control terminals
- Users can monitor wireless signal strength via the control terminal

PRODUCT FEATURES



Dual brakes



Remote power switch



Limit Switch

- Aerospace-grade aluminum housing for high strength and lightweight design
- Adjustable upper and lower limits with high-precision micro switches cut power automatically at chain extremes.
- Patented 45° chain guide ensures smooth chain operation and reduces jamming.
- A dual electromagnetic brake system significantly reduces the possibility of brake failure, improving operational safety and stability.
- Precision noise-reducing gears provide constant torque with low heat and noise.
- Permanent magnet synchronous motor with fast dynamic response for frequent start-stop and precise positioning, reducing wear and maintenance while extending service life.



POWER LITHIUM BATTERY



Safe and stable operation



Long-lasting service life



BMS control

- The power lithium battery can support the FREEHOIST carrying a load of 800kg over a round-trip distance of 144m.
- The power lithium battery has no “memory effect” and can be charged at any state of charge.
- With weekly charge-discharge cycles, after 6 years of use, the battery still retains 87% of battery life.
- Built-in BMS chip optimizes charge and discharge through balancing management, reducing battery aging and extending service life.
- Power lithium batteries are more environmentally friendly; lithium extraction, use, and recycling do not cause significant environmental pollution.
- Each lithium cell undergoes 17 rigorous tests covering fatigue, degradation, high temperature, charge/discharge, and other dimensions, ensuring stable performance and safety, providing long-lasting and strong power for the wireless hoist.



Battery capacity retention curve

TUV Certification

UN38.3 Test Report



FREEHOIST+

Built-in load monitoring function



Load visibility



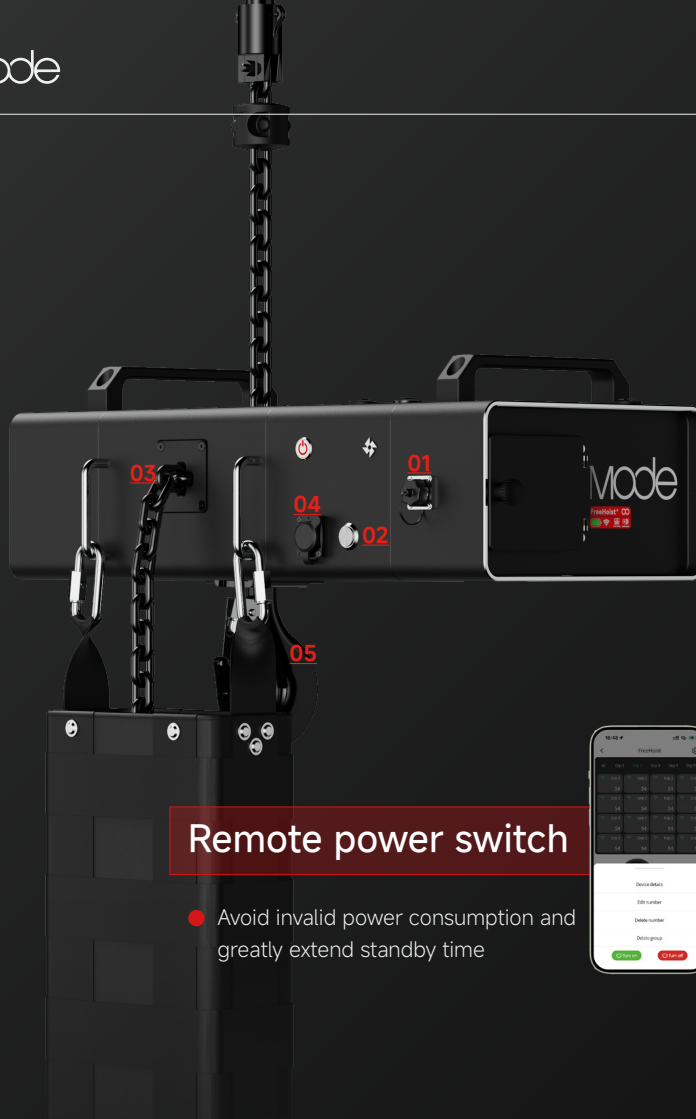
Balanced positioning



Overload warning

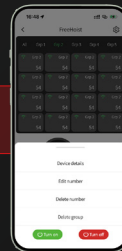
- Real-time load monitoring of suspended objects.
- Overload real-time warning to prevent accidents.
- When multiple hoists lift a structure together, each hoist's load can be monitored to ensure even force distribution.

• Real-time load display



Remote power switch

- Avoid invalid power consumption and greatly extend standby time



01 Charging Port (The battery can also be removed and charged separately.)

02 This button switches operation from mobile/tablet control to pendant mode.

03 Adjustable Upper and Lower Limit Protection

04 Pendant Connection (Pendant plug included).

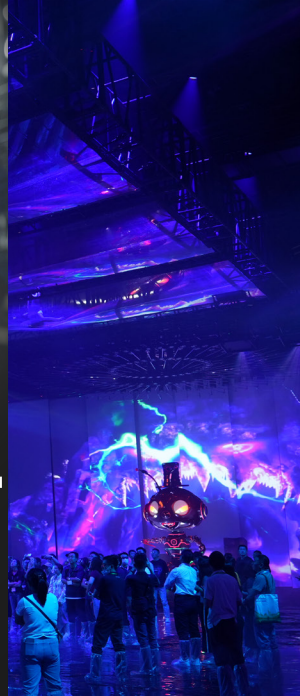
05 Load Monitoring Hook

Whats included in the Freehoist+ Standard Configuration?

Model No	Freehoist+
Capacity	2200 lbs. (1000 KG)
Lift	65.6 ft. (20M)
Max Lift Speed	11.5 fpm (3.5 mpm)
Suspension	Hook Swivel Latch Type (upper and lower)
Weight	70.55 lbs. (excluding chain)
Control Method: (Switchable with button on hoist)	Phone / Tablet or Pendant (Download ModeController app (Android or IOS) and control single hoist or synchronized lifting of multiple units at once)
Protection Rating	IP65 Dust and Water Proof
Compliance	TUV D8+, EN14492-2, IGWW-SQP2, CE Rated, UL & CSA
Safety	Dual Brakes, Upper/Lower Limit Switches, Built-in Real-Time Load Monitoring (load cell) 8:1 Safety Factor, Battery Status Indicator, Remote Power Switch
Pendant (pickle)	Pendant (Pickle) (Up / Down / Emergency Stop buttons, Magnetic Start Key, Running and Low Battery status indicators)
Chain Bag	Fabric
Lithium Ion Battery	1 ea - 36volt, 5 Ah
Charger	1 ea - Charger (110v, includes connectors for charging battery inside hoist or direct to battery)
Road Case	1 ea - Fully assembled on 4 casters
Freight	Included for U.S. States (also available for pickup from Corona, CA warehouse) typically ships in 3-7 days



FREEHOIST Application Case



Return of the Journey to the West
Live Show



2025 Kuaishou Super Summer Gala



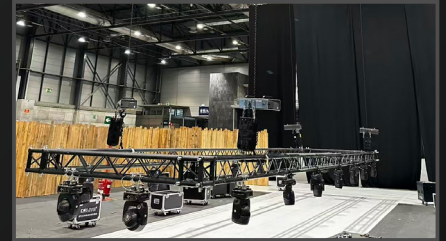
VIVO Launch Event
at the National Aquatics Center



Shanghai Import and Export Expo



National Convention and Exhibition Center (Tianjin)



IFEMA Exhibition, Spain



Korean Youth Para Games



Russian Theatre



Croatian Sports Arena



Guangzhou International Auto Show – Audi Booth



Picnic Fest Music Festival



Star-Studded Concert