



3S INDUSTRY
SAFE | SIMPLE | SPECIALIZED

LADDER HOIST



Company Profile

3S Industry Group INC. is a China-based leading provider of equipment and services for people working at height. Our products have been applied in 17 different industries and exported to more than 70 countries. Our core business is the wind industry. With our strong focus on R&D, we have been granted for more than 600 patents and obtained over 100 global safety qualification certificates. We strive to support our customers and make a better future in the field of working at height.

Headquartered in Beijing, 3S Industry has Manufacturing Centers in Beijing and Tianjin. With wholly-owned subsidiaries in Dallas (USA), Hamburg (Germany), Chennai (India), Tokyo (Japan), Jaraguá do Sul City (Brazil), and Dubai (UAE). Our global after-sales service teams provide on-site installation and maintenance services for our customers around the world. This way, 3S Industry ensures quick and reliable technical support, offering one-stop-shop service for our customers.

With our 3S brand creed Safe, Simple, Specialized, we are dedicated to our mission of providing products and services that exceed customer expectations. We strive to make our products the best in their field. We use scientific and technological innovation to drive the development of integrative solutions that serve people working at height.

2005

Year
Established

1st

Market Share in Our
Specialized Segment Within
the Wind Power Industry

600+

Global Patents

11

Global
Subsidiaries

200,000+

Units of 3S Work-at-Height
Products in Service

100+

Global
Qualifications

900+

Employees

5,000+

Wind Farms Utilizing
3S Products

20+

Global Standards



- Headquarters ● Subsidiary ● Countries and regions where 3S products are used



Headquarters in Beijing



Factory in Tianjin



North America Branch in Dallas



Europe Branch in Hamburg



India Branch in Chennai



Japan Branch in Tokyo



Brazil Branch in Jaraguá do Sul

Plug-in Ladder Hoist

The MH03L250 redefines efficiency in high-altitude lifting. Designed with integrated safety features, its smooth start / stop technology minimizes load jolts, protecting both equipment and personnel. Enables fast, tool-free installation, making it a highly efficient solution for material transport.

Features

- Tool-free assembly
- Small-sized & lightweight design
- Safety specialized catch
- Multiple transport platforms
- Equipped with fall protection system

Advantages

- Modular components connect via quick-release mechanisms without wrenches
- Drive unit weighs only 65kg; system fits in a standard minivan
- Mechanical redundancy engages instantly in the event of rope failure
- Interchangeable carriers for different materials (panels, tiles, buckets)

Benefits

- Rapid Deployment: Reduces site setup time by up to 60%
- Logistical Efficiency: Eliminates the requirement for heavy haulage
- Risk Mitigation: Ensures compliance with strict safety regulations (CE/UL)
- Operational Versatility: One unit serves multiple trades



Product Specifications

Plug-in model	MH03L250
Rated load (kg / lbs)	250 / 552
Lifting speed (m / min ft / min)	30 98 (double speed)
Max. lifting height (m / ft)	21 / 68
Start / Stop mechanism	Smooth start / stop function
IP class	IP 54 (electrical)
Operating temperature (°C)	-20 to +55
Drive unit weight (kg / lbs)	65 / 56 (143 / 123)
Noise level (dB)	72 - 76
Wire rope diameter (mm)	6
Power supply (V)	230 / 110 , Frequency adaptation
Control system	VFC (Variable Frequency Control) with Overload Detection

Product Details



Rail Top Section



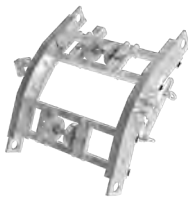
Rail Section Connectors



Guide Rail Support



Roof Support Bracket



Knee Section



Carriage



LBS Grooved Drum



Drive Unit

Various Platforms

01 Plate Platform

Dimensions: 1400 x 155 x 2090 mm
Weight: 32 kg Rated load: 165 kg

02 Brick Platform

Dimensions: 440 x 350 x 890 mm
Weight: 24 kg Rated load: 150 kg

03 Large Rotary Platform

Dimensions: 1200 x 800 x 340 mm
Weight: 85 kg Rated load: 165 kg

04 Universal Platform

Dimensions: 700 x 330 x 810 mm
Weight: 32 kg Rated load: 220 kg

05 Angle-adjustable Platform

Dimensions: 700 x 330 x 810 mm
Weight: 40 kg Rated load: 210 kg

06 Bucket Hanger

Dimensions: 780 x 668 x 257 mm
Weight: 6.7 kg

07 Horizontal Solar Panel Platform

Dimensions: 700 x 330 x 1150 mm
Weight: 22.7 kg Rated load: 220 kg

08 Vertical Solar Panel Platform

Dimensions: 768 x 964 x 1580 mm
Weight: 50.4 kg



Battery Ladder Hoist

Battery ladder hoist solution eliminate cords, reduce trip hazards, and keep your team productive. Specifically engineered for solar, roofing, moving and construction. It delivers reliable, high-performance operation anytime, anywhere, maximizing convenience and efficiency for daily tasks.

Features

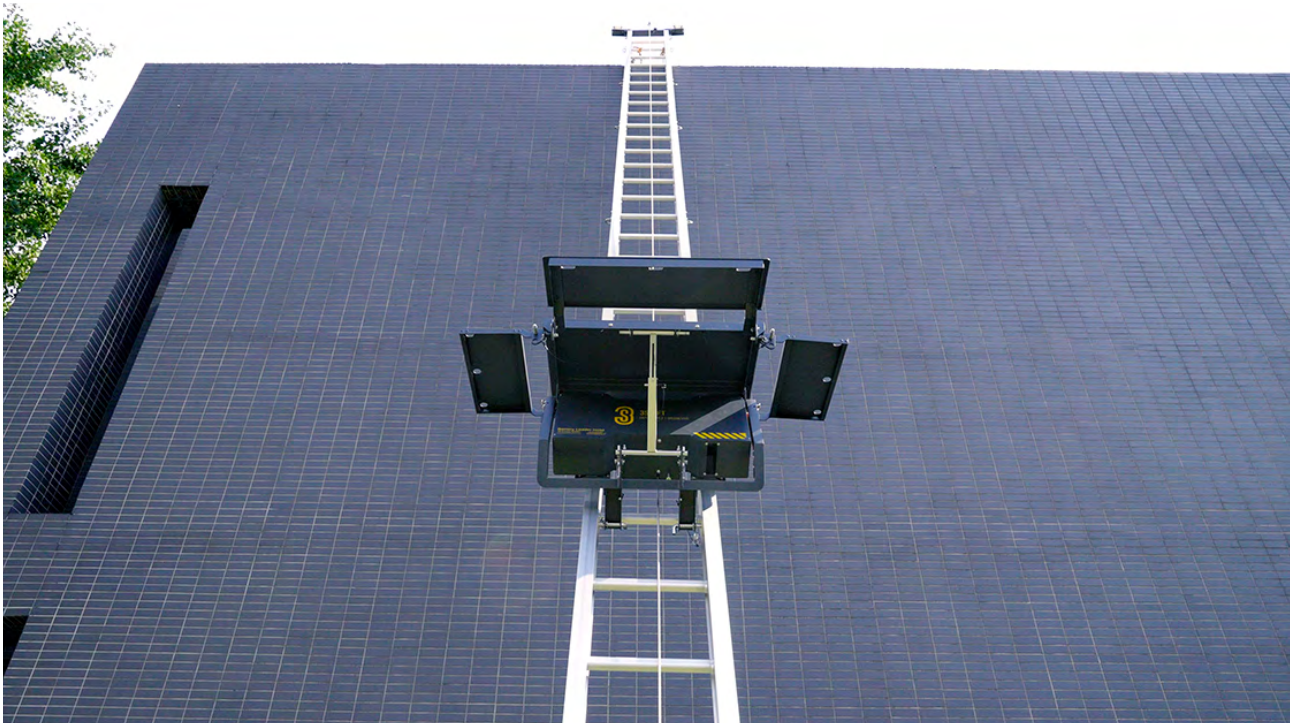
- Dual-battery compatibility
- Wireless operation
- Wire rope drive
- Automatic tilting function
- Equipped with fall protection system

Advantages

- Works with existing Dewalt/ Milwaukee ecosystems
- Eliminates trailing cables and power supply dependencies
- Superior durability compared to nylon strap alternatives
- Mechanically tips load at the apex for retrieval

Benefits

- Capital Efficiency: utilizing batteries already owned by the contractor
- Enhanced Safety: Removes primary trip hazards and electrical risks
- Longevity: 50% longer service life and resistance to abrasion
- Ergonomics: Reduces physical strain on operators receiving materials



Product Specifications

Battery model	MH04L120
Power supply (w)	550
Battery voltage	2 pcs *18 V / 5 Ah
Battery brand	Dewalt / Milwaukee
Rated load (kg / lbs)	120 / 265
Max. lifting height (m / ft)	14 / 46 (Customizable)
Lifting speed (m / min ft / min)	15 49
Wire rope diameter (mm)	5
Waterproof rating	IP 54 (electrical)
Overload detection	Current overload protection

Product Details



Head Section



Drive Unit



Rail Section



Solar Panel Platform



Universal Platform

Construction Scenarios in Bulgaria

Project Name

Bulgaria Construction Site Project - Materials Transportation

Project Description

- Building approximately 3 stories;
- Narrow space at the site;
- Large-scale lifting equipment couldn't operate;

Solution

- Provided 21 m / 68 ft ladder hoist equipped with universal platform;
- Transport various building materials to required heights.
- Flexible angle adjustment, effectively bypassing the limitations.

Case Results

- Saved time
- Lowered labor costs
- The work efficiency improved
- 24 months without any problems



Commerical Solar PV Installation

Project Name

Solar Panel Installation Project in Bosnia and Herzegovina

Project Description

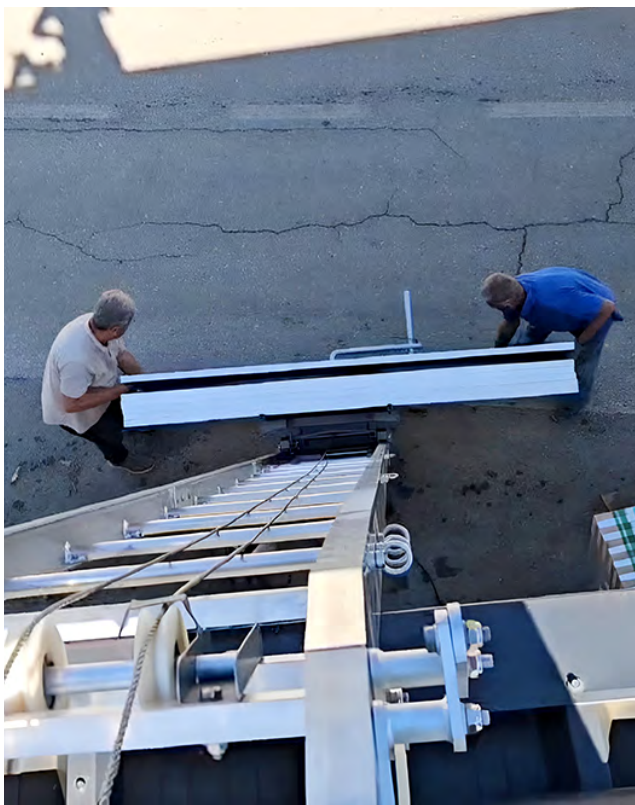
- Facing challenges due to cold climate
- Slowed down winter installation efficiency
- Needed a reliable solution to take different project heights

Solution

- Provided 14 m rail section paired with solar panel platform
- Lifting with varying heights
- Operates in temperatures ranging from -20°C to +55°C.
- With the capacity to handle 6 panels in a single operation.

Case Results

- Used the ladder hoist for over 1 year
- Completing numerous solar panel installation projects, as the customer put it: "A small device with a big impact"



Residential Solar PV Installation

Project Name

Solar Panel Installation Project in the United States

Project Description

- Relying on standard ladders and manual lifting
- Summer temperatures +40°C
- Labor costly
- Prolonged work hours

Solution

- Provided 10m battery ladder hoist with solar panel platform
- 120 kg load capacity
- 3-4 panels per trip.
- Assembled within 15 minutes.

Case Results

- Project timelines dropped from 3–4 days to 1–2 days per home
- Less physical fatigue, reduce incidents by 75%.
- Capable to get more jobs.





Scan to learn more



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