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 more than 60 invention 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 (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.

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 integrated solutions that serve people working at height.

2005
Year Established

1st
Market Share in Our Specialized Segment Within the Wind Power Industry

60+
Invention Patents

13
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

- Compact design
- Tool-free assembly
- Multi loading platforms
- Fall arrest protection

Advantages

- Complete system fits in a standard minivan.
- Quick-lock connections require no special tools.
- Different carriers suit panels, tiles, buckets and more.
- Independent mechanical safety device stops the carriage if the rope fails.

Benefits

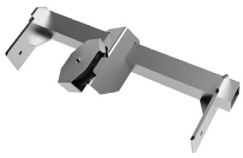
- **Easy Logistics:** Simple to transport, handle and store.
- **Fast Setup:** Saves installation and dismantling time.
- **High Versatility:** One hoist serves multiple applications.
- **Enhanced Safety:** Prevents uncontrolled descent.



Product Specifications

Plug-in model	MH03L250
Rated load	250 kg or 500 lb (US version)
Lifting speed	30 m/min / 98 ft/m (double speed)
Max. ladder length	21 m / 68 ft
Motor power	1.5 kW / 2.0 hp (Variable Frequency Drive)
Power supply	230 / 120 V, 1-ph, 50 / 60 Hz
Operating temperature	- 20 °C to + 55 °C / - 4 °F to + 131 °F
IP class	IP 54 (electrical)
Noise level	72 - 76 dB
Compliance	2006/42/EC (MD), EN 12158-2, ASME B20.1

Product Details



Rail Top Section



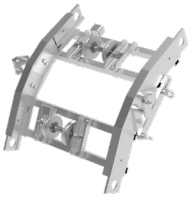
Rail Section Connectors



Guide Rail Support



Roof Support Bracket



Knee Section



Drive Unit



Carriage



LBS Grooved Drum

Various Platforms

1 Large Rotatable Platform
Internal dimension:
1200 × 800 × 370 mm / 47.2 × 31.4 × 14.5 in
Weight: 75 kg / 166 lb
Load capacity: 160 kg / 352 lb

2 Angle Adjustable Platform
Internal dimension:
700 × 330 × 810 mm / 27.5 × 12.9 × 31.8 in
Weight: 40 kg / 89 lb
Load capacity: 190 kg / 418 lb

3 Solar Water Heater Platform
Internal dimension:
1610 × 575 × 800 mm / 63.4 × 22.6 × 31.5 in
Weight: 35 kg / 77 lb
Load capacity: 198 kg / 436 lb

4 Brick Platform
Internal dimension:
440 × 350 × 890 mm / 17.3 × 13.7 × 35 in
Weight: 30 kg / 67 lb
Load capacity: 200 kg / 440 lb

5 Solar Panel Platform
Internal dimension:
700 × 330 × 1150 mm / 27.5 × 12.9 × 45.2 in
Weight: 23 kg / 51 lb
Load capacity: 210 kg / 463 lb

6 Plate Platform
Internal dimension:
900 × 140 × 2100 mm / 35.4 × 5.5 × 82.6 in
Weight: 33 kg / 73 lb
Load capacity: 190 kg / 418 lb

7 Universal Platform
Internal dimension:
700 × 330 × 810 mm / 27.5 × 12.9 × 31.8 in
Weight: 32 kg / 71 lb
Load capacity: 200 kg / 440 lb

8 Pipe-Type Solar Panel Platform
Internal dimension:
700 × 695 × 1415 mm / 27.5 × 27.3 × 55.7 in
Weight: 51 kg / 113 lb
Load capacity: 180 kg / 397 lb

9 Bucket Hanger
Dimensions:
780 x 668 x 257 mm / 30.7 × 26.3 × 10.1 in
Weight: 6.7 kg / 15lb



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

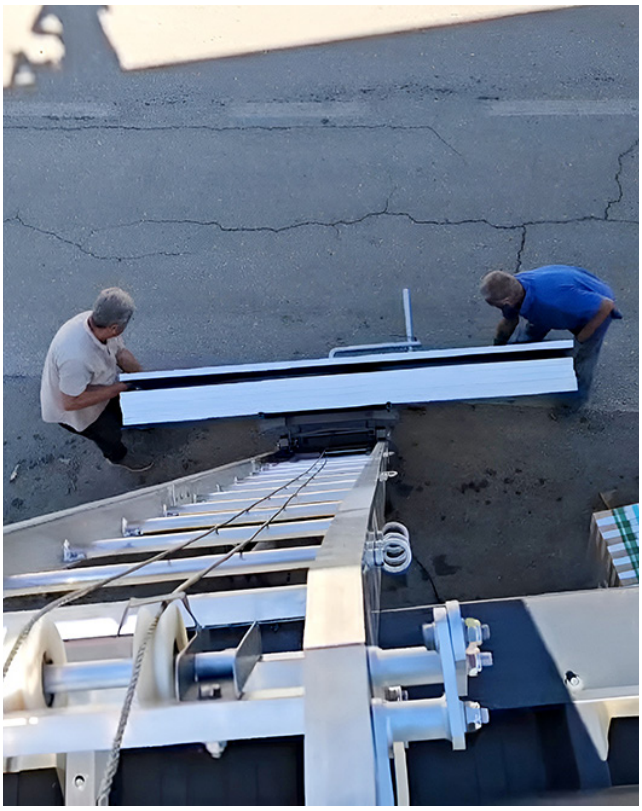
- Facing challenges due to cold climate
- Slowed down winter installation efficiency
- Needed a reliable solution to take different project heights

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”





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

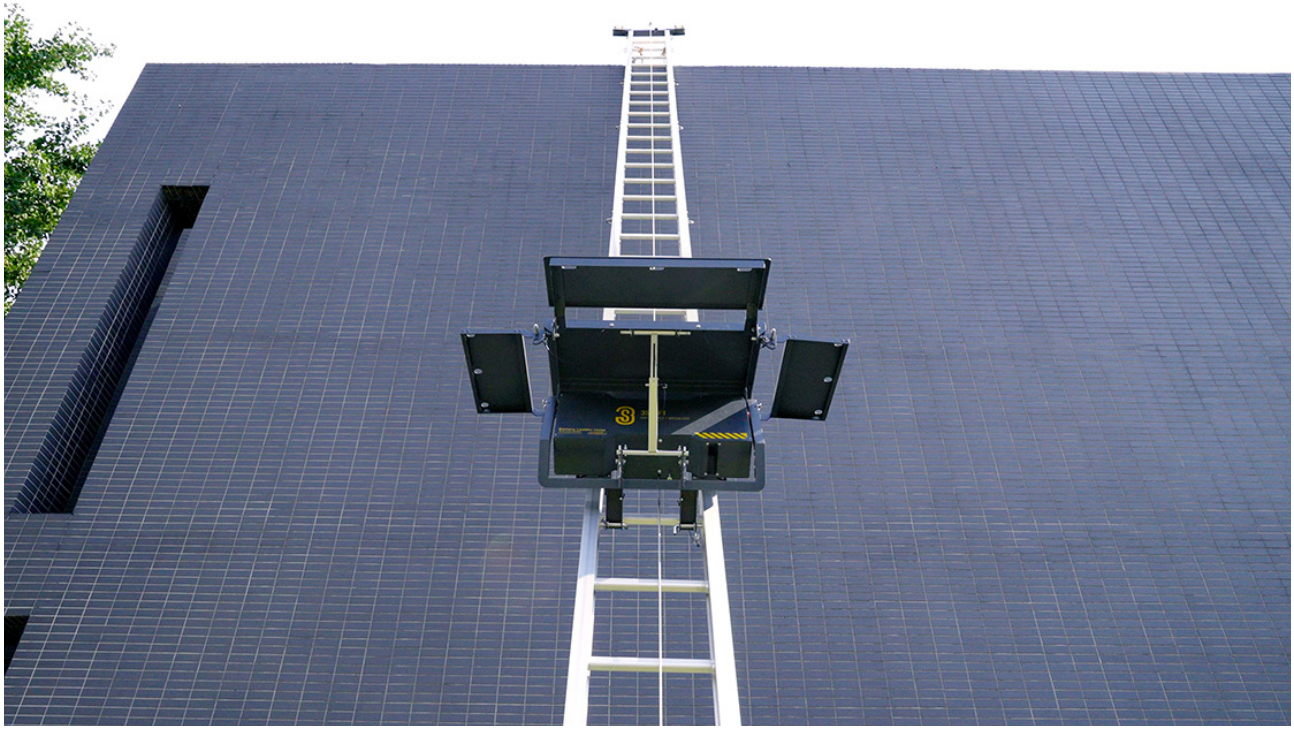
- Dual-brand battery compatibility
- Wireless operation
- Automatic tilting platform
- Fall arrest protection

Advantages

- Compatible with DEWALT® and Milwaukee® battery platforms.
- No external power supply or trailing cables required.
- Platform tilts over the head section for easy unloading at roof level.
- Independent mechanical safety device stops the drive unit if the rope fails.

Benefits

- **Lower Investment:** Uses batteries already available on site.
- **Site Flexibility:** Easy to deploy where power access is limited.
- **Safer Unloading:** Reduces reaching and manual handling at the roof edge.
- **Enhanced Safety:** Prevents uncontrolled descent.



Product Specifications

Plug-in model	MH04L120
Rated load	120 kg / 264 lb
Lifting speed	15 m/min / 49 ft/m
Max. ladder length	14 m / 45 ft
Motor power	0.55 kW / 0.73 hp
Battery	2 × 18 / 20 V, 5 / 6 Ah (DeWalt® or Milwaukee®)
Operating temperature	- 20 °C to + 40 °C / - 4 °F to + 104 °F
IP class	IP 54 (electrical)
Noise level	≤ 79 dB
Compliance	2006/42/EC (MD), EN 12158-2, ASME B20.1

Product Details



Head Section



Drive Unit



Rail Section



Solar Panel Platform



Universal Platform

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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