



**3S INDUSTRY**  
SAFE | SIMPLE | SPECIALIZED

# INDUSTRIAL ELEVATOR



# Company Profile

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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 makes 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

**1<sup>st</sup>**

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



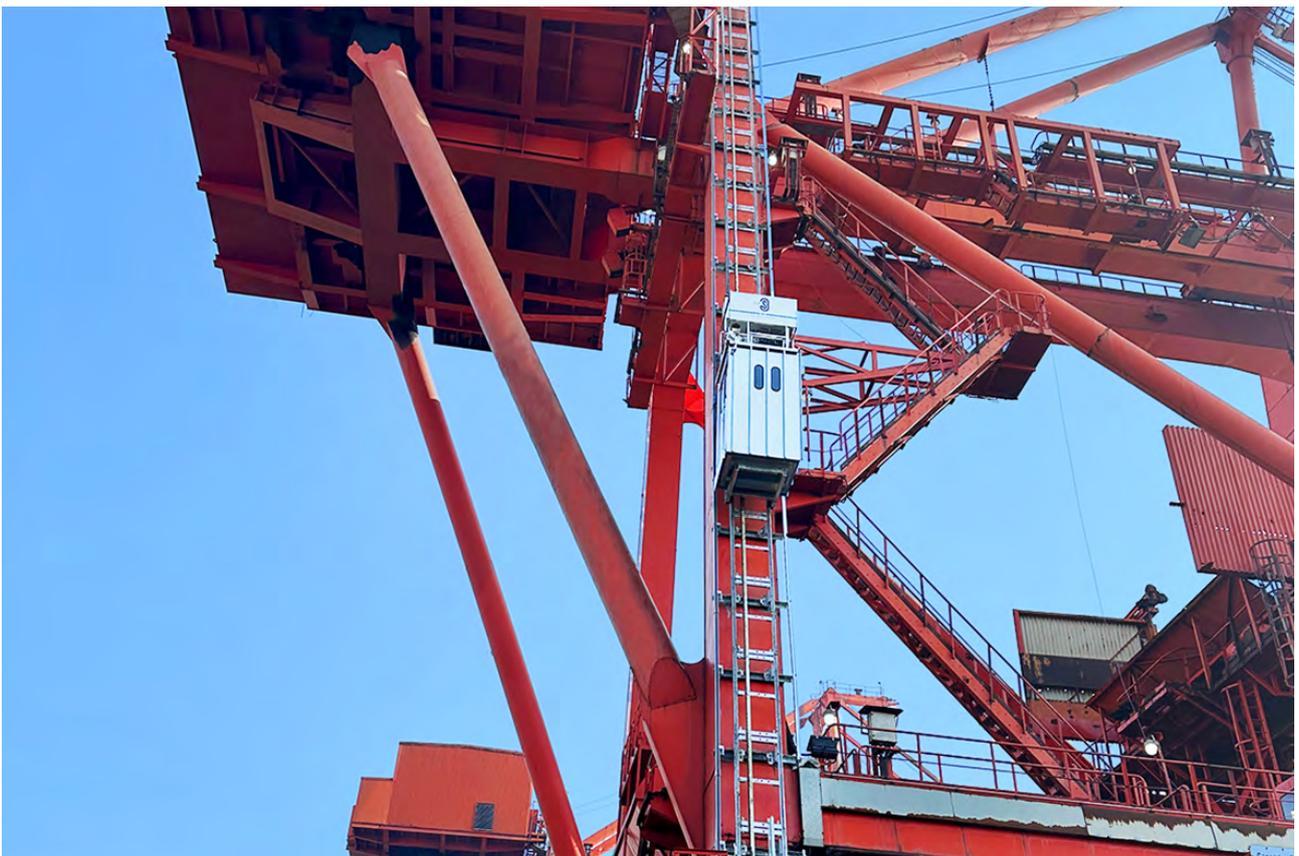
Brazil Branch in Jaraguá do Sul

# Industrial Elevator

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Industrial elevators are designed for high-altitude lifting in industrial applications.

Featuring renowned 3S LIFT rack-and-pinion technology and variable frequency control, our industrial elevators deliver reliable, high-quality performance. Built with durable galvanized components and robust engineering, they offer superior corrosion resistance and thrive in harshest industrial environments, ensuring maximum uptime with minimal downtime. Multiple models provide seamless operation. Key benefits include enhanced productivity, extended lifespan, reduced maintenance costs, and exceptional safety—all designed for strong adaptability across diverse industrial applications.



# Product Specifications

Model	SC50	SC100	SC200
Rated load (kg)	500	1000	2000
Speed (m/min)	0-36		
Power supply	380V / 50Hz		
Internal cage dimensions (mm)	1000*1000*2200	1200*1000*2200	3000*1400*2200
Max. height (m)	300m		

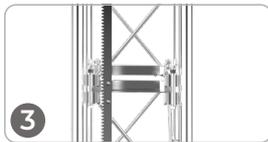
# Product Details



Tie-in



Overspeed Safety Device



Mast Section



Interlocking Device



Constant-Speed Controlled Descent Function



Rack and Pinion Drive



Gear Motor



Frequency Converter



Programmable Logic Controller

# Hydropower Dam Shafts

## Project Name

Pumped - Storage Power Station

## Project Description

The upper reservoir dam is a roller-compacted concrete gravity dam. The total length of the dam crest is 476.8 m, the elevation of the dam crest is 777.60 m, the maximum dam height is 101 m, and the width of the dam crest is 8.0 m

Requirements: High temperature and high humidity & Narrow space & Lifting height: 90m

## Solution

Steel-Guided ladders & Aluminum - alloy light - type cage. The customized size of the cage is 950\*860\*2100mm, with a rated load of 350 kg. The total lifting height is 85.63 m. The wall-attached frame is directly fixed to the concrete structure of the dam body through chemical anchor bolts

## Case Results

Since its delivery in 2021, it has been operating smoothly for 4 years without any failure records. It is safe and reliable and has won high praise from the client



# Waste Incineration Power Plant - Chimney Internal

## Project Name

Environmental Protection Testing Special Industrial Elevator Project

## Project Description

An environmental protection testing special industrial elevator shall be installed according to the "Environmental Protection Standard" requirements  
Requirements: Small space, 1\*1m; Chimney's height: 80m

## Solution

Industrial elevator's traveling height is 74m & customized cage (800\*600mm). Customized steel ladder with rails, rack and pinion drive(520\*1960mm), 2 persons, 400kg

## Case Results

The environmental protection testing special industrial elevator runs smoothly and is safe and reliable. At the same time, it does not change the internal structure of the chimney, which reduces the overall construction intensity and has been praised by customers



# Coal Power Plant - Chimney External

## Project Name

Environmental Protection Testing Special Industrial Elevator Project

## Project Description

The height of the chimney (100m), and the continuous emission monitoring system at 38 meters.  
Requirements: Low-Temperature Environment (- 40 Celsius)

## Solution

The industrial Elevator specifications are designed as below:

Rated load: 450 kg, 3 persons; Lifting speed: 0-0.6 m/s (variable frequency speed);

Cage size: 1000\*1200\*2200 mm; Two separate doors( enter door & through door)

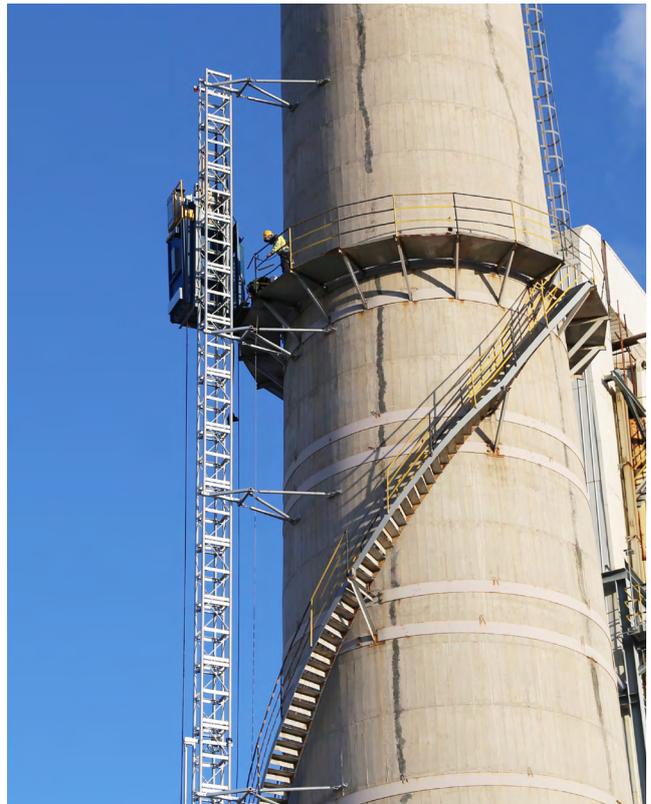
## Case Results

Meet the relevant fire safety regulations

Design life: More than 20 years. Working temperature: (- 40 ~ 60 Celsius)

The core drive unit is reliable and has excellent performance.

It is dust-proof and waterproof, and can travel stably, reliably, and safely within its service life.



# Thermal Power Plant - Chimney Internal

## Project Name

Thermal Power Plant Industrial Elevator Project

## Project Description

The power plant's second-stage chimney has a 65-meter platform which can only be accessed using stairs. The Owner requires 3S LIFT to install an industrial elevator which is capable of directly accessing the 65m platform inside the chimney and can stop at the second maintenance platform (40m) and third maintenance platform (65m)

Requirements: Limited space, internal interference

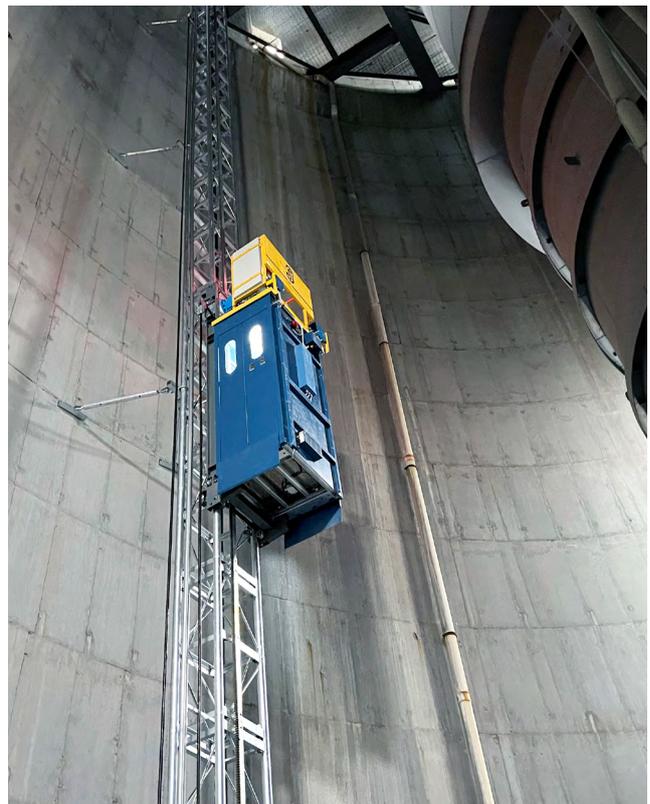
## Solution

Install an industrial elevator that can directly reach the 65-meter platform inside the chimney, and can stop at the 40-meter second maintenance platform and the 65-meter third maintenance platform

Customized attachment (up to 4.5m) & Mast section & Cage Dimensions; Lifting height: 65m & 3 landings (65-40-0)

## Case Results

This industrial Elevator is used for both persons and goods. It meets the relevant safety standards and has safety configuration



# Satellite Launch Rack

## Project Name

Industrial Elevator for the Launch Arm of Landspace (Comparable to SpaceX)

## Project Description

With the development of civil aviation, the application of mobile launch racks has increased significantly. The height is usually around 60 meters and the climbing space for personnel is narrow with a lack of safety protection.

Requirements: Limited space (1.1\*1.1m)

## Solution

A 1508mm \* 650mm slice-type standard section & Cage (800\*800mm) was adopted. The power supply system adopts a dual busbar & power supply form.

## Case Results

Currently, 3S is the only one in China to provide product solutions for such scenarios. Internationally, only Alimak has similar working conditions.



# Explosion-Proof Industrial Elevators

## Project List

### ① Shenhua Power Plant - Ordos Cracking Furnace

Requirement: The whole machine shall be Exd IICT4 explosion - proof and provide the whole - machine explosion - proof certification.

### ② Huisheng Engineering - Chemical Chimney in Qinzhou, Guangxi

Requirement: Electrical explosion - proof Exd IIBT4 for electrical components.

### ③ Fuhua Chemical Chemical Chimney

Requirement: Electrical explosion - proof Exd IIBT4 for electrical components.

### ④ PetroChina Dushanzi Petrochemical - Chimney Lift

Requirement: Electrical explosion - proof Exd IIBT4 for electrical components.

The overall mechanical structure shall be designed with reference to the Exd IIBT4 explosion - proof grade.





Scan to learn more



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