



**3S LIFT**

SAFE | SIMPLE | SPECIALIZED

# 3S LIFT

## BLADE MAINTENANCE PLATFORM



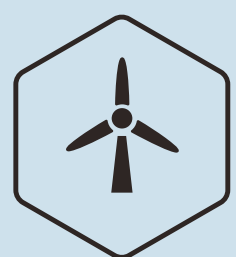


# COMPANY INTRODUCTION

Ficont Industry (Beijing) Co., Ltd. is a China-based leading provider of equipment and services for people working at height. Our products have been applied in 16 different industries and exported to 61 countries. Our core business is the wind industry. With our strong focus on R&D, we have been granted for more than 800 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 Intelligent Manufacturing Centers in Beijing and Tianjin. With wholly-owned subsidiaries in Plano (USA), Hamburg (Germany), Chennai (India), and Tokyo (Japan). 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.



**150,000+**

Products used in wind turbines



**800+**

International Patents



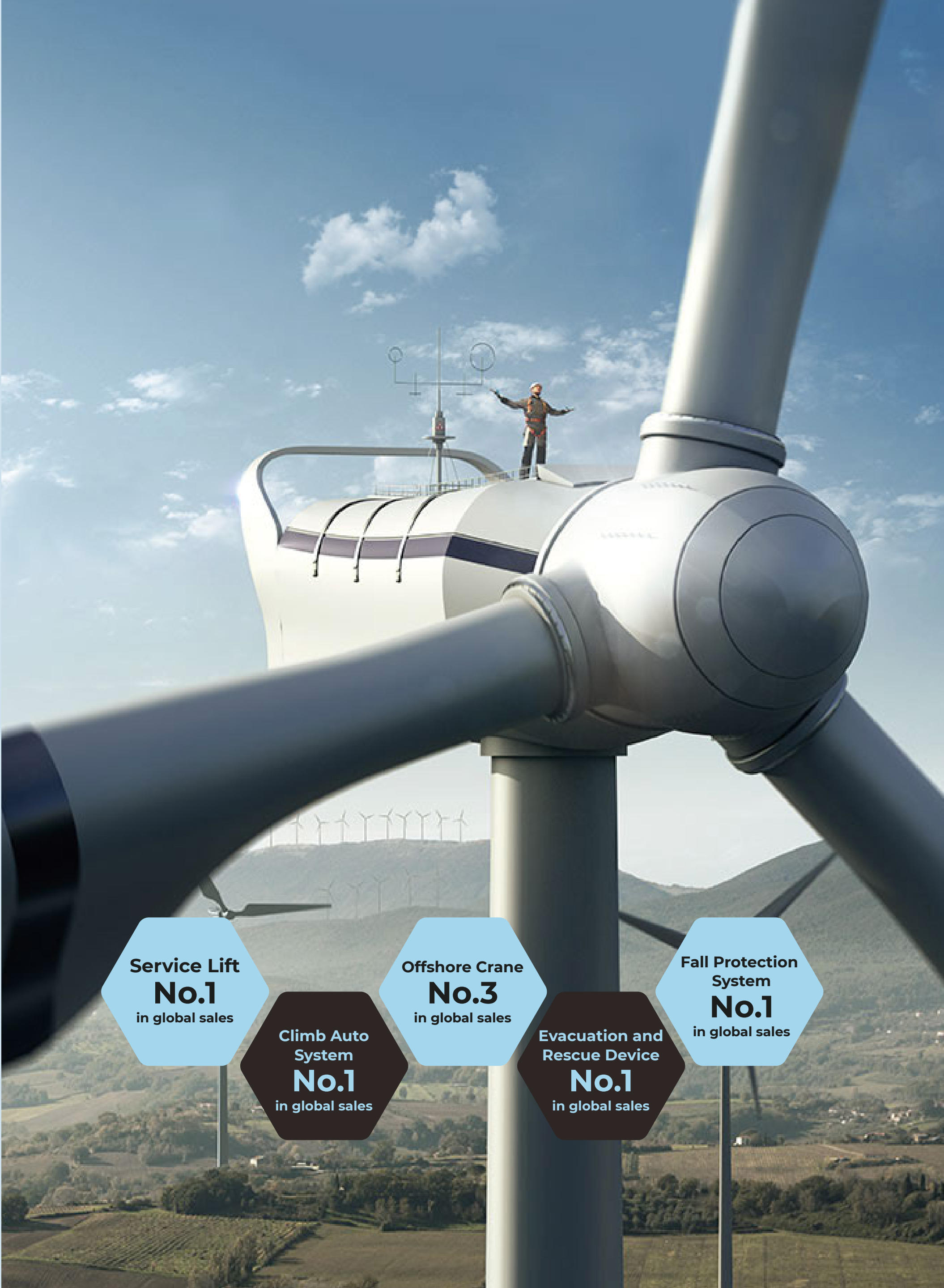
**380+**

Product Certificate



**10+**

Domestic/International Standards



Service Lift  
**No.1**  
in global sales

Offshore Crane  
**No.3**  
in global sales

Fall Protection  
System  
**No.1**  
in global sales

Climb Auto  
System  
**No.1**  
in global sales

Evacuation and  
Rescue Device  
**No.1**  
in global sales





**1 Thermal power**



**3 Petrochemical**



**5 Windpower**



**2 Bridge**



**4 Hydropower**



**6 Construction**



# 01 . WIND POWER

## **SOFIT-Z3** **Unanchored, suspended, and extendable**

BLADE MAINTENANCE PLATFORM FOR MEGAWATT WTG

### | INTRODUCTION OF SOFIT-Z3

This equipment is designed for the inspection and maintenance of wind turbine blades. It is suspended on the wind turbine by the extending rod support bracket (driven by the motor) without the ground anchor, enabling vertical traveling and horizontal extension of the platform to change the maintenance position. It boasts features of smooth operation, compact structural design, straightforward safety measures, and convenient transportation. These attributes significantly enhance the safety of maintenance personnel and the efficiency of inspection, maintenance, and turnover.

The blade maintenance platform features an exclusive automatic levelling system, incorporating a special anti-tilt function to ensure stability during operation. With a horizontal extension range of 1 to 18 m and a horizontal movement range of  $\pm 15^\circ$ , the flexible and versatile blade maintenance platform allows a 360° all-around maintenance. The equipment can be transported as a whole without disassembly, ensuring convenience and reliability.

This product holds proprietary intellectual property rights and multiple international certifications, accompanied by professional third-party testing reports.

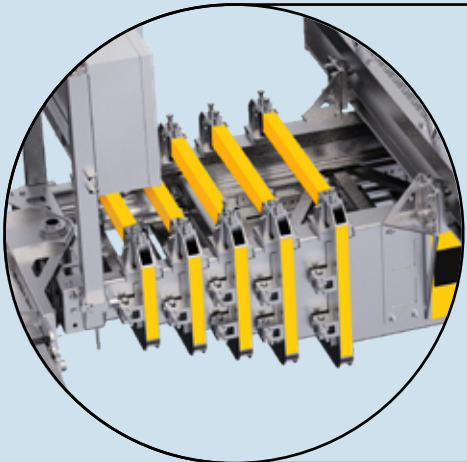




SOFIT-Z3

TECHNICAL SPECIFICATIONS

Rated load		350 kg	Lifting speed	9 m/min
Dimensions (Length×Width×Height)		5.8 m × 2 m × 2.7 m	Extending length	1-18 m (Length above 18 m can be customized)
SafeLock	Model	SL3	Wire rope	Diameter: 9.1 mm (min. breaking force:62 KN)
	Qty	3 sets	Load bearing capacity of the suspension point	>17500 N
Traction hoist	Model	C700	Power /Voltage	7kW/400 V
	Rated lifting force	700 kg	Carrying capacity	3
	Qty	3 sets	Self-Weight	1300 kg
	Power	1.8 kW	Certification	CE



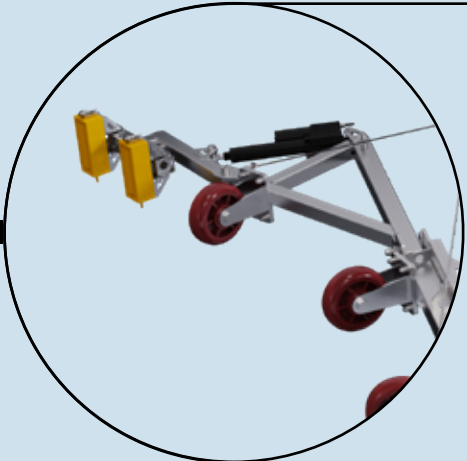
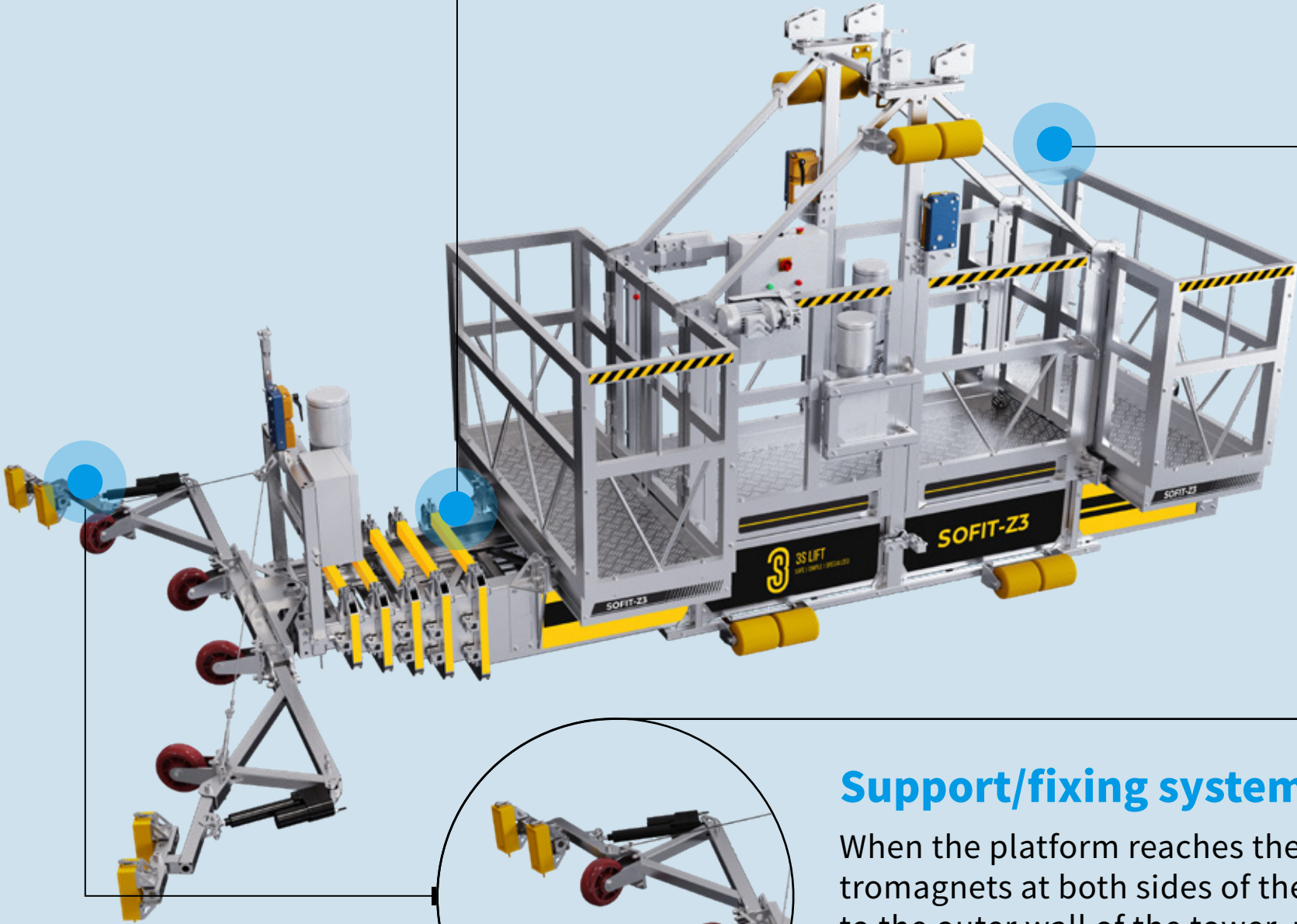
Extending arm support bracket (motor-driven)

The extending arm support bracket, powered by a motor, facilitates the extension and retraction of the SOFIT-Z3 blade maintenance platform. This allows the platform to reach any position along the blade for maintenance, covering an extension range of 1 to 18 m. This flexibility reduces the demand for human effort and conserves material resources, ultimately culminating in elevated operational efficiency.



Sponge wall rollers

Incorporating three sponge wall rollers, this system safeguards the blade's integrity during operations.



Support/fixing system for the tower

When the platform reaches the designated position, the electromagnets at both sides of the support/fixing system adhere to the outer wall of the tower, providing a secure connection. When the platform moves laterally, the connection ensures steadfast stability of the platform.



# SOFIT-Z3 | KEY PROJECT CASES

1



PANJIN PROJECT, LIAONING PROVINCE

## Background:

The ordinary suspended platform is secured onto the ground by the ground cage and ground anchor, and then it is pulled out to the blade for maintenance by using wire rope pulling and lifting hoist and wire rope. The distance of lateral movement perpendicular to the tower is about 30 m. If the distance is greater than 30 m, it will be inconvenient to operate the platform in some areas such as hills, fields, fish ponds, etc.

## Solutions:

To maintain the tower and blade (blade tip is more than 7 m) of the wind turbine (large MW), 3S LIFT provides a blade maintenance platform with an extending rod support bracket to facilitate maintenance.

2



JINGBIAN PROJECT, SHAANXI PROVINCE

## Background:

The single-machine capacity of the wind turbine has increased. Especially when the distance from the blade to the tower of the wind turbine (more than 4 MW) is  $\geq 8$  m, the existing maintenance tools on the market cannot satisfy the maintenance work of such wind turbine.

## Solutions:

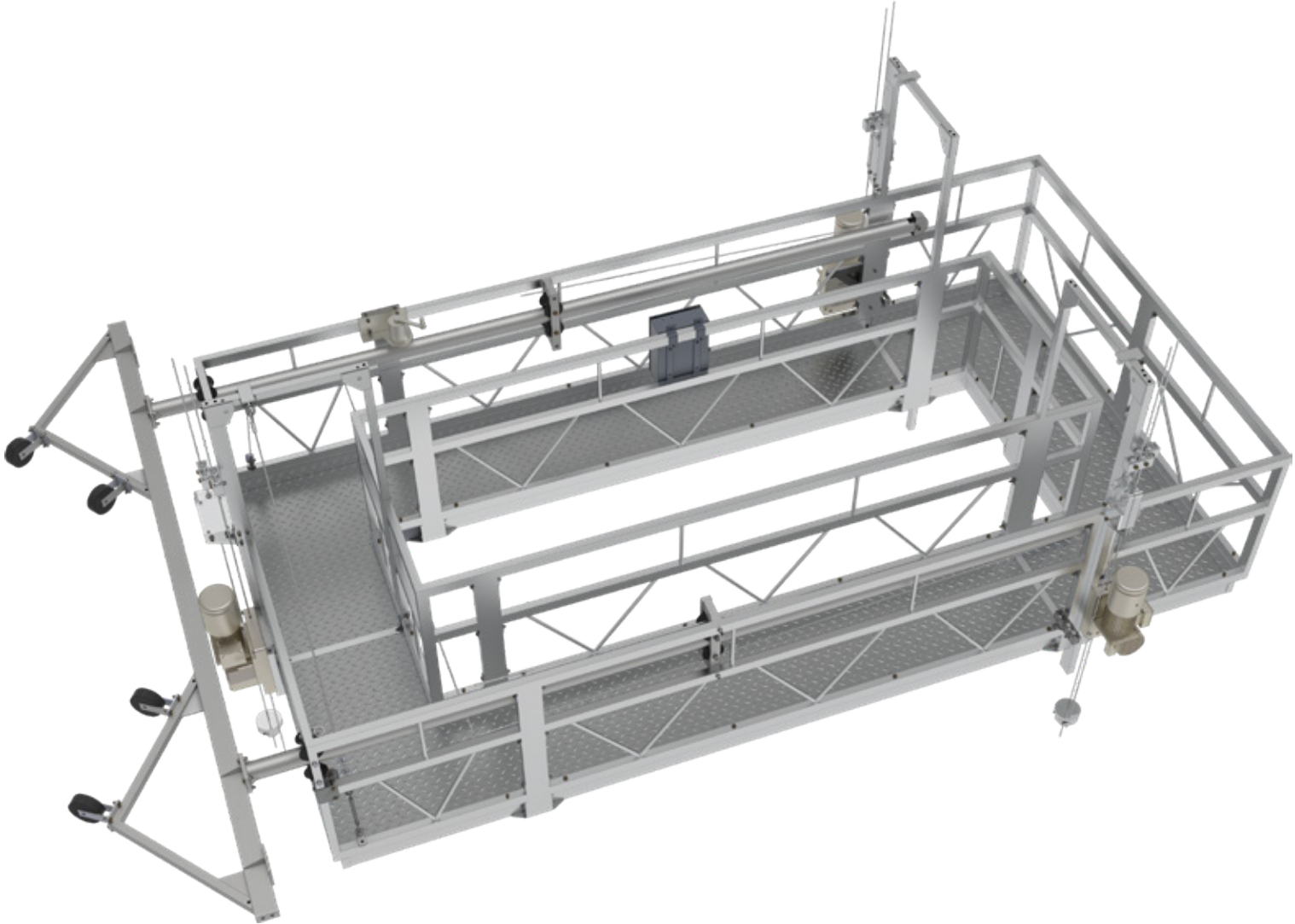
The extending rod support bracket is designed to extend the blade maintenance platform to the blade for maintenance without using the ground anchor and the wire rope pulling and lifting hoist.



# SOFIT-W3

## TECHNICAL SPECIFICATIONS

Rated load	600 kg
Running speed	9 m/min
Power	5.4 kW
Self-Weight	800 kg
Voltage	400 V/690 V three-phase
Dimensions	External dimensions: 5.2 × 3.7m / Internal dimensions: 3.6× 1.2m Customization:2.2m
Certification	CE

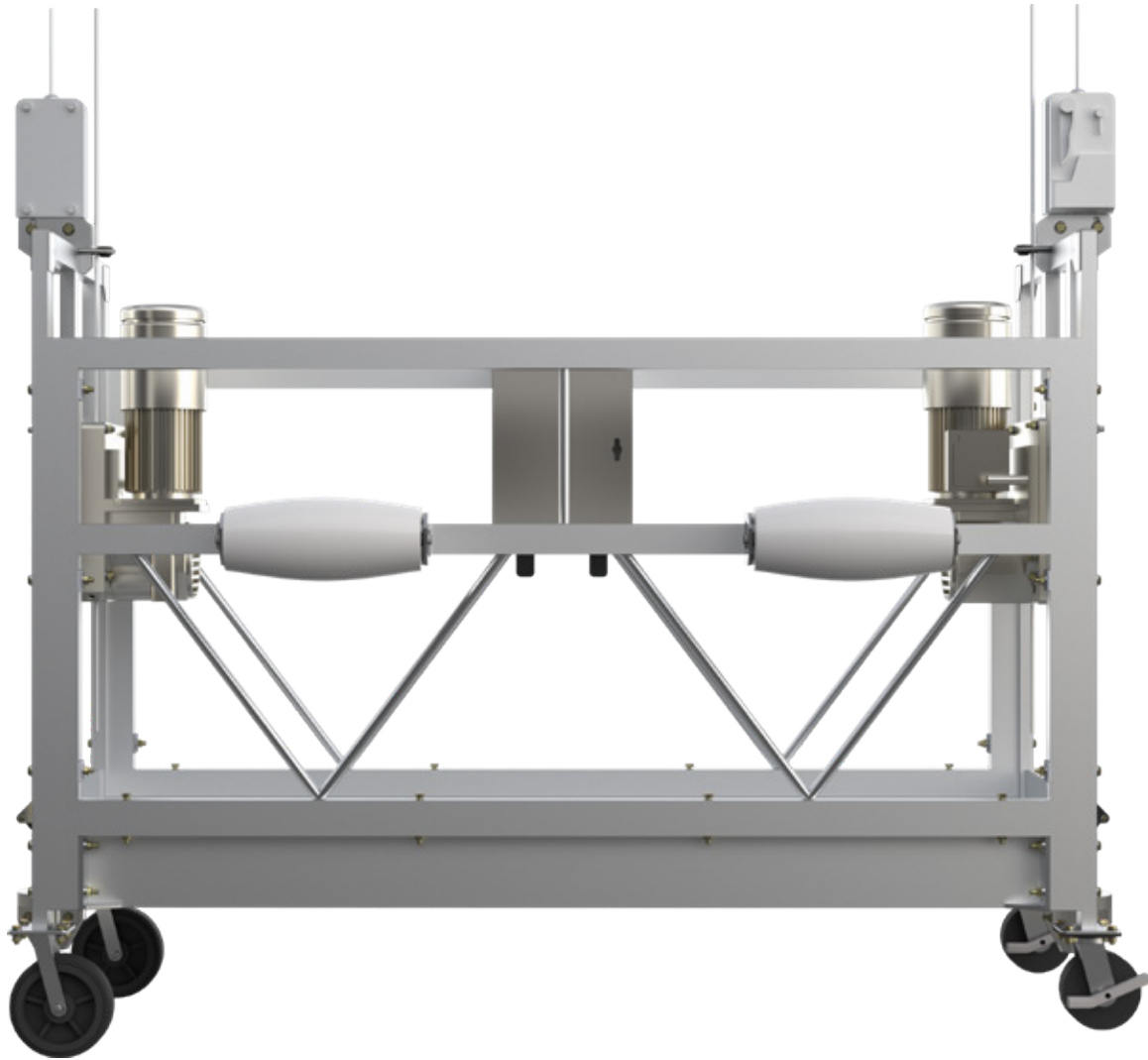




# SOFIT-22

## TECHNICAL SPECIFICATIONS

Rated load	280 kg
Running speed	9 m/min
Power	3 kW
Self-Weight	240 kg
Voltage	400 V/690 V three-phase
Dimensions	2× 0.7× 1.1 m
Certification	CE/UL

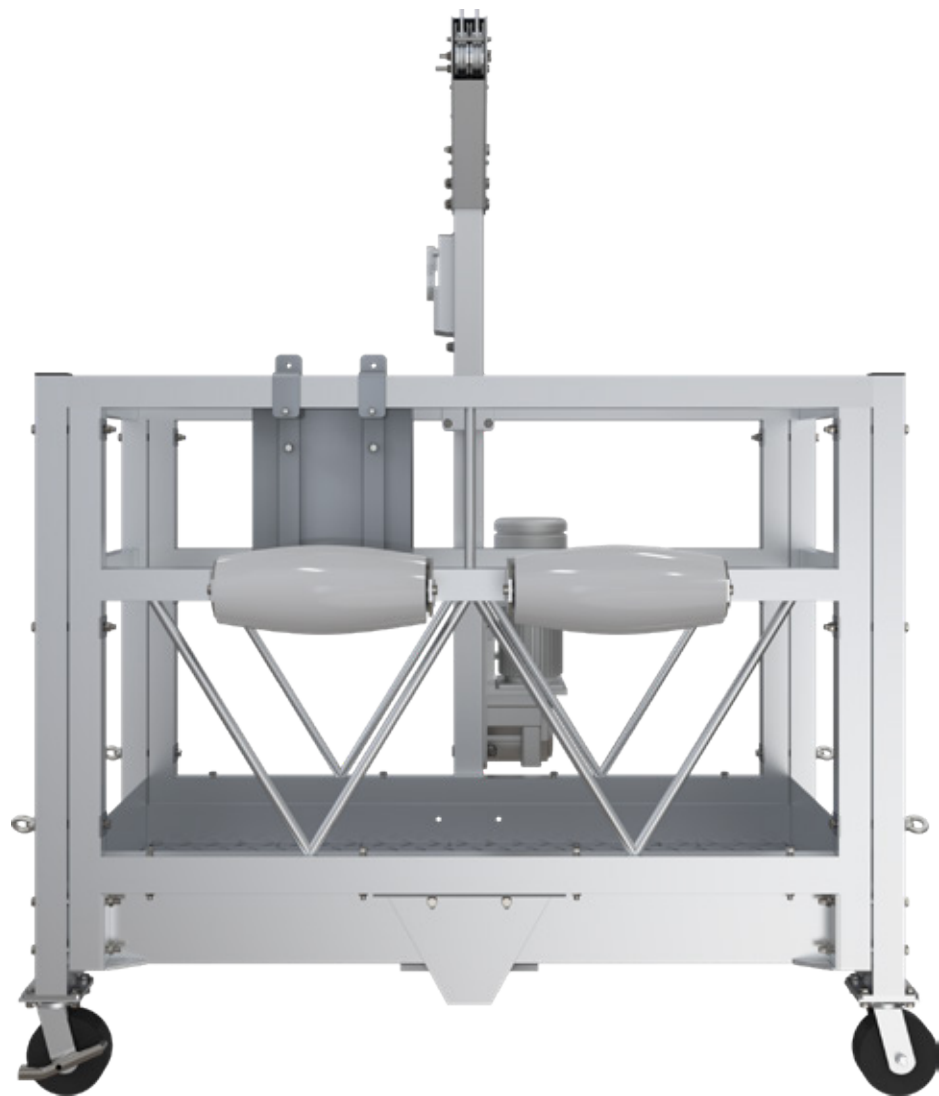




# SOFIT-11

## TECHNICAL SPECIFICATIONS

Rated load	240 kg
Running speed	9 m/min
Power	1.5 kW
Self-Weight	200 kg
Voltage	400 V/690 V three-phase
Dimensions	1.5 × 0.7 × 1.1 m

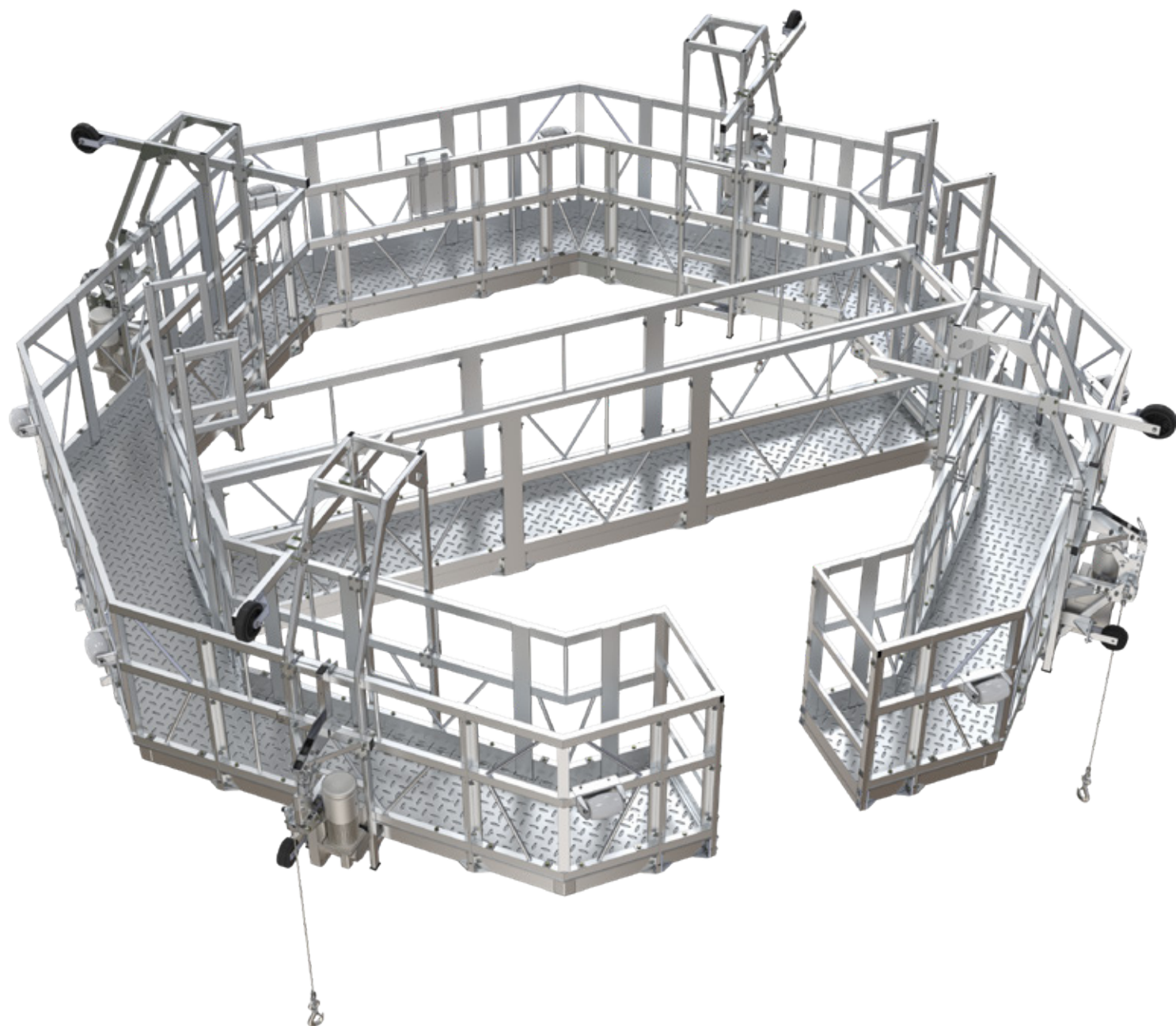




# CP4-500

## TECHNICAL SPECIFICATIONS

Rated load	600 kg
Running speed	9 m/min
Power	7.2 kW
Self-Weight	1300 kg
Voltage	400 V/690 V
Dimensions	Customizable combination of multiple dimensions





# 02.THERMAL POWER

## INCINERATOR MAINTENANCE PLATFORM | INTRODUCTION



The maintenance platform for the incinerator is suspended access equipment that can move up or down along the inner wall of the incinerator. The maintenance platform is composed of a suspension assembly, platform, traction hoist, SafeLock, electrical control system, wire rope, etc. The platform is mainly used for the maintenance work of the refractory materials, membrane wall, and spray gun interface of the domestic waste incinerator.

The maintenance platform can be disassembled into sheet-like parts and components. Put the parts and components into the incinerator through the access door. After that, assemble the parts and components into straight sections or the required platform assembly. The platform is suspended from the incinerator roof using the suspension wire rope and is powered by a traction hoist that drives the suspension wire rope, thus enabling the platform to move up or down vertically along the suspension wire rope and stop flexibly at any height to work. The whole system is integrated, flexible, and convenient without any auxiliary external force. Compared with the traditional incinerator maintenance method, the 3S LIFT maintenance platform can improve working efficiency, and safety, and be customized according to the actual conditions.

The platform has a 3S LIFT self-developed safety protection system, independent control system, hoisting system, and other core technologies. It has applied for domestic/international patents and obtained certifications from authorized third-party.





## Multiple safety protection systems

1. The maintenance personnel and platform are equipped with independent double fall protection systems (SafeLock and flexible anchor line) to prevent them from overturning and make the operation safer.
2. Equipped with top limit switch/ultimate top limit switch. When the platform reaches the positions of the limit switches, it will stop automatically to avoid accidental disengagement at the top.
3. Equipped with the manual descent system. In the case of power-off or emergency, the manual descent function can be used to let the platform reach the ground safely.
4. Equipped with the overload protection system. When the platform is overloaded, ensure that the platform can only descend but cannot ascend.

## No more climbing, but more efficient operation

1. The electric hoisting system replaces the maintenance personnel climbing, improving the working efficiency.
2. Compared with the erection of scaffolding at height or a platform on the surface of the automatic grate, the 3S LIFT maintenance platform is more time-saving and fast.

## Simple operation and convenient movement

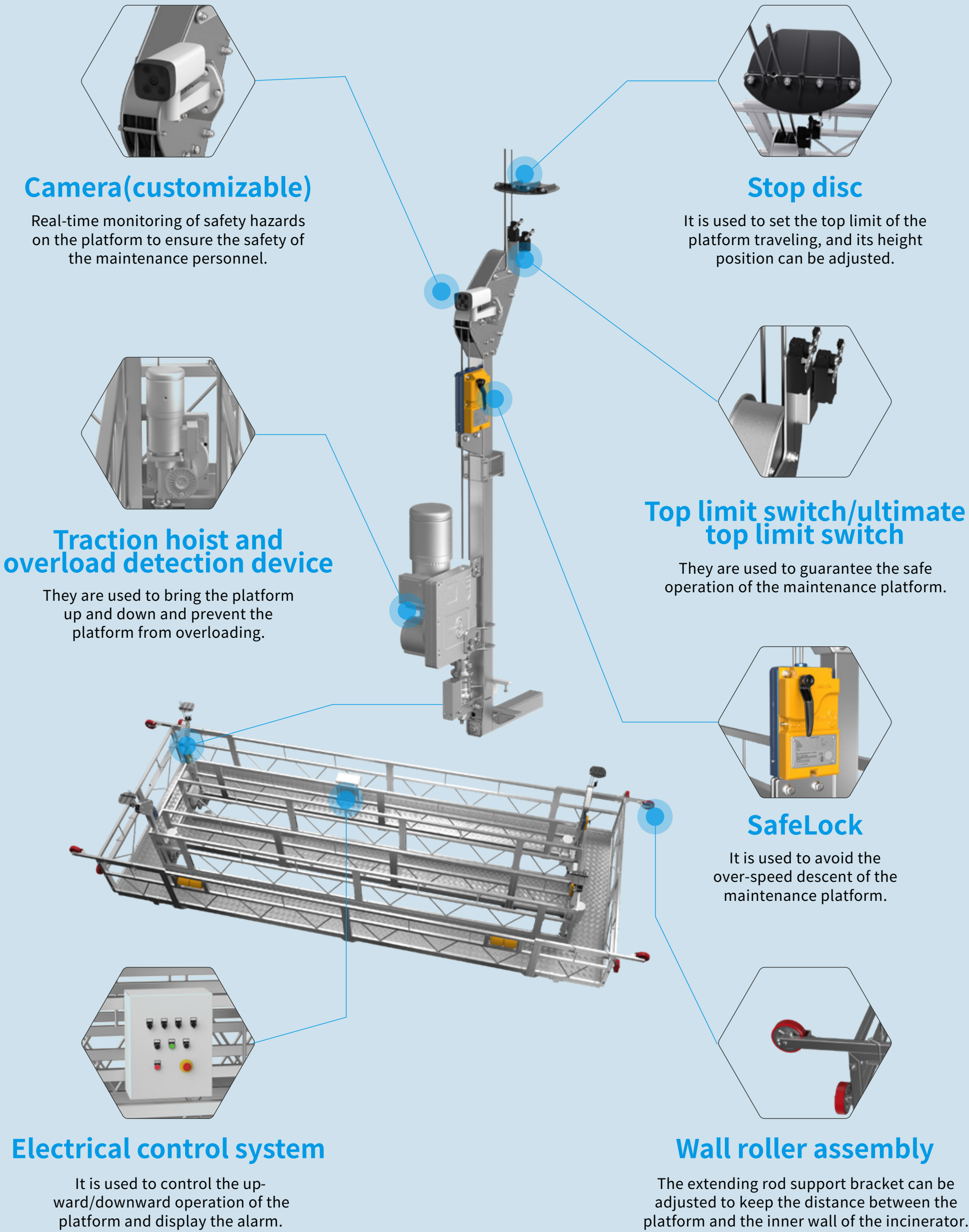
1. The light aluminum alloy material is adopted. It is easy to transport and install.
2. There are two operation modes - operation on the control panel and manual operation. They can be switched according to different working conditions.



# INCINERATOR MAINTENANCE PLATFORM

## TECHNICAL SPECIFICATIONS (CUSTOMIZABLE)

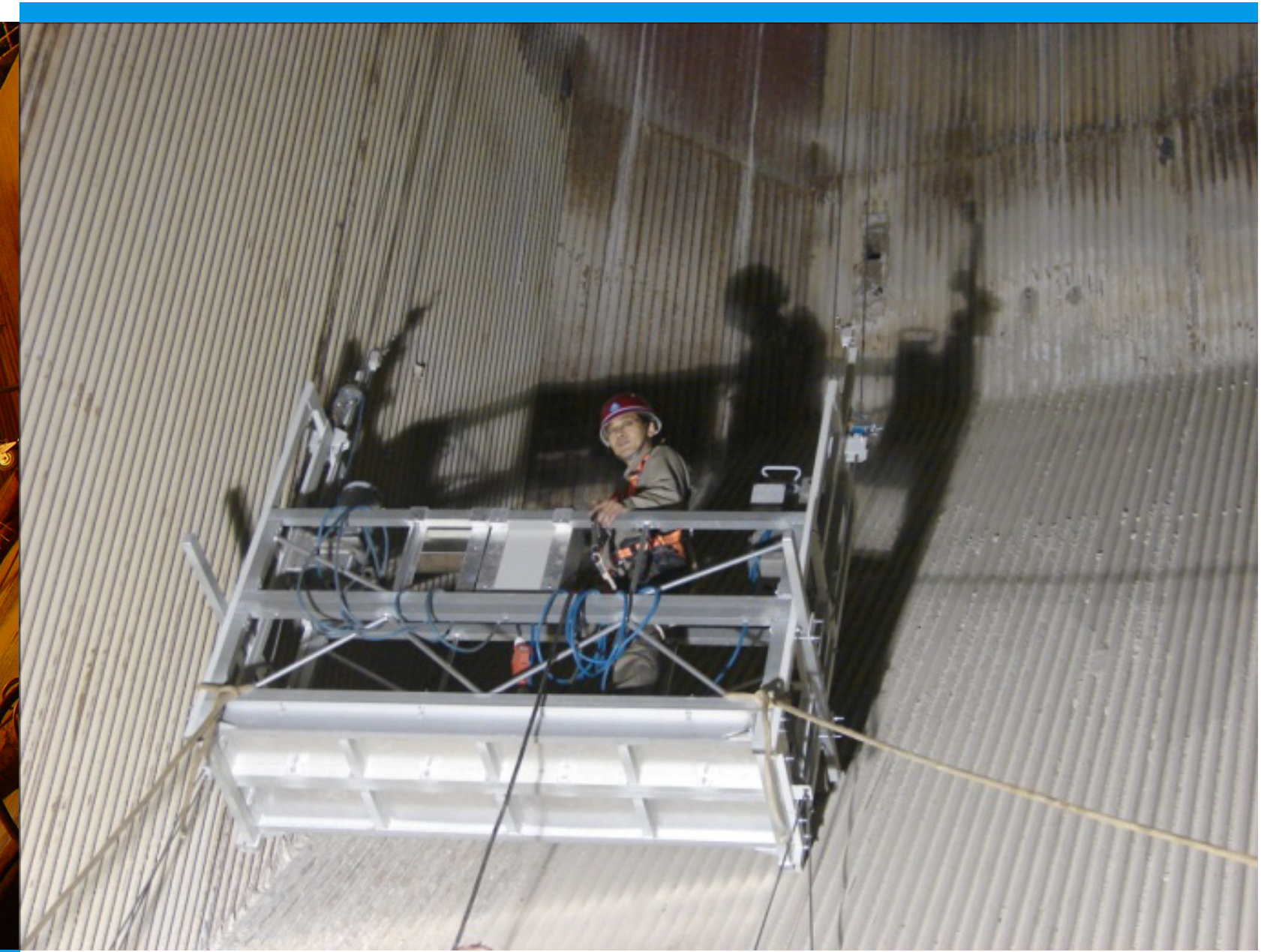
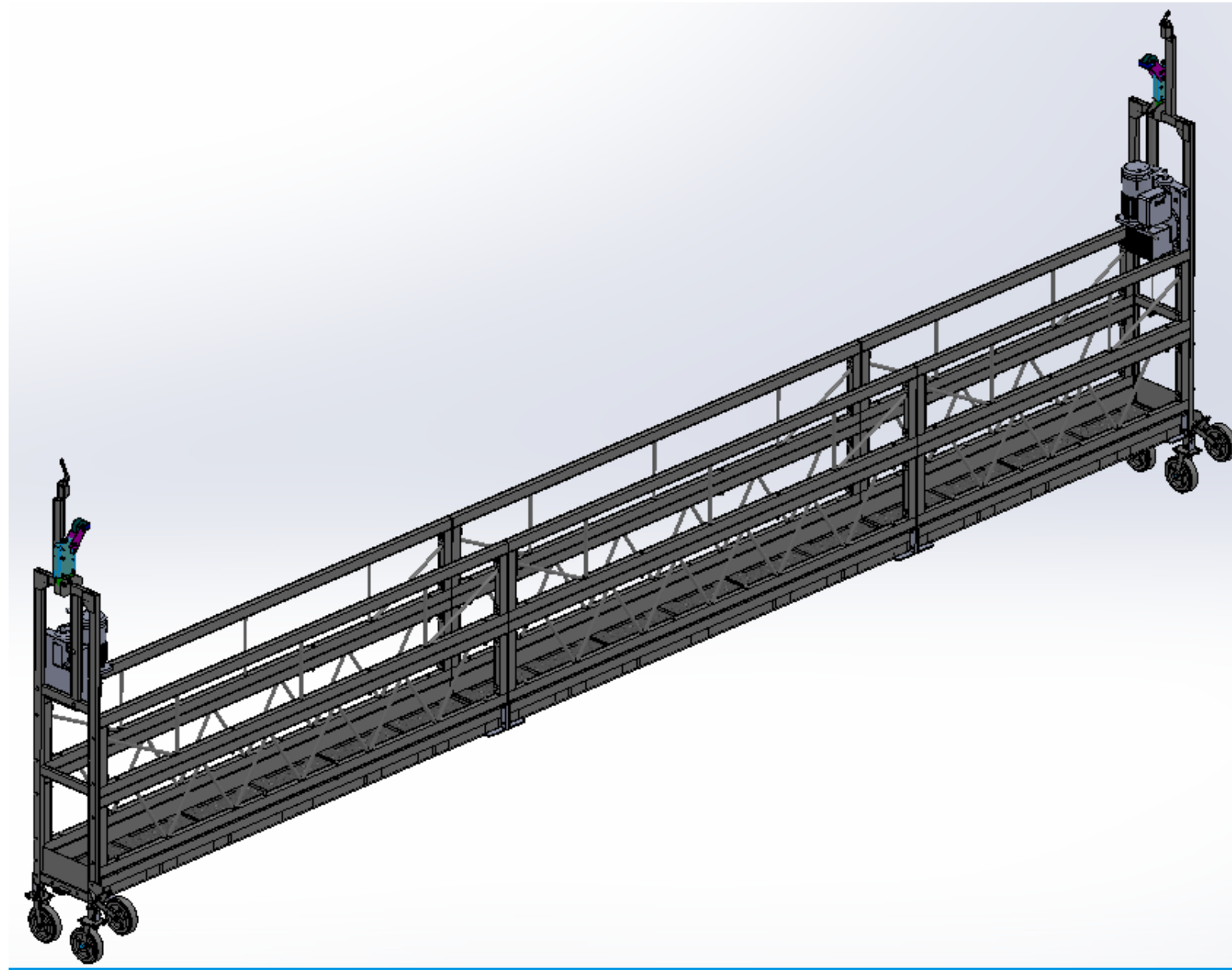
Rated load		660 kg	Running speed		9 m/min
Dimension (customizable) (Length×Width×Height)		8.2 m×3.1 m×2.2 m	Weight (incl. traction hoist, SafeLock and electrical control cabinet)		1300 kg (aluminium)
Wire rope		Structure: 9.1 mm min. breaking force: 62 kN	Load bearing capacity of the suspension point		>17500 N
Traction hoist	Model	C700	SafeLock	Model	SL3-9.1
	Rated lifting force	700 kg			
	Power	7.2 kW			
	Voltage /Frequency	400V AC/50 Hz			
	Braking torque	15 N.m			
	Qty	4 sets		Qty	4 sets





# MAINTENANCE PLATFORM FOR INNER INCINERATOR

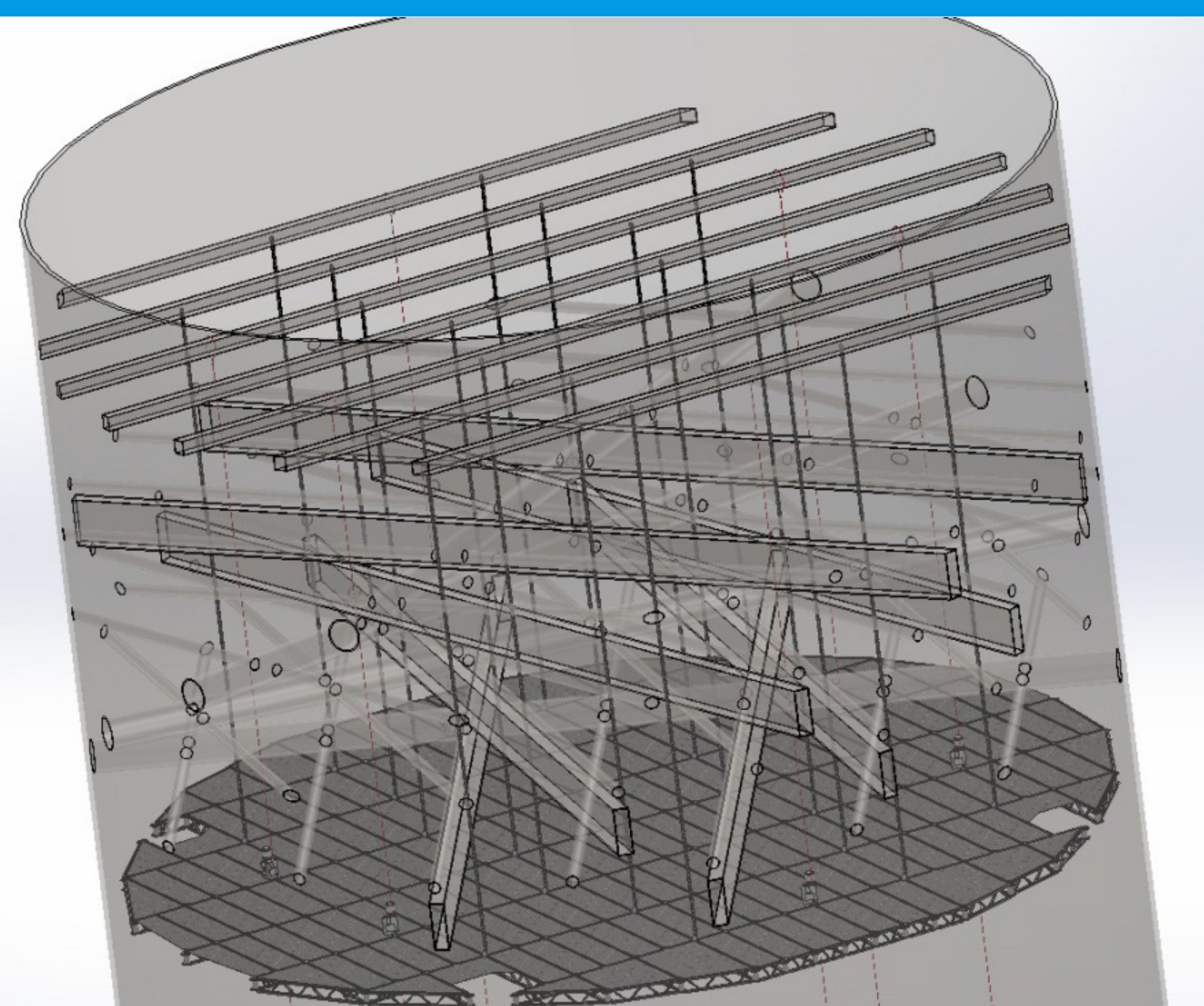
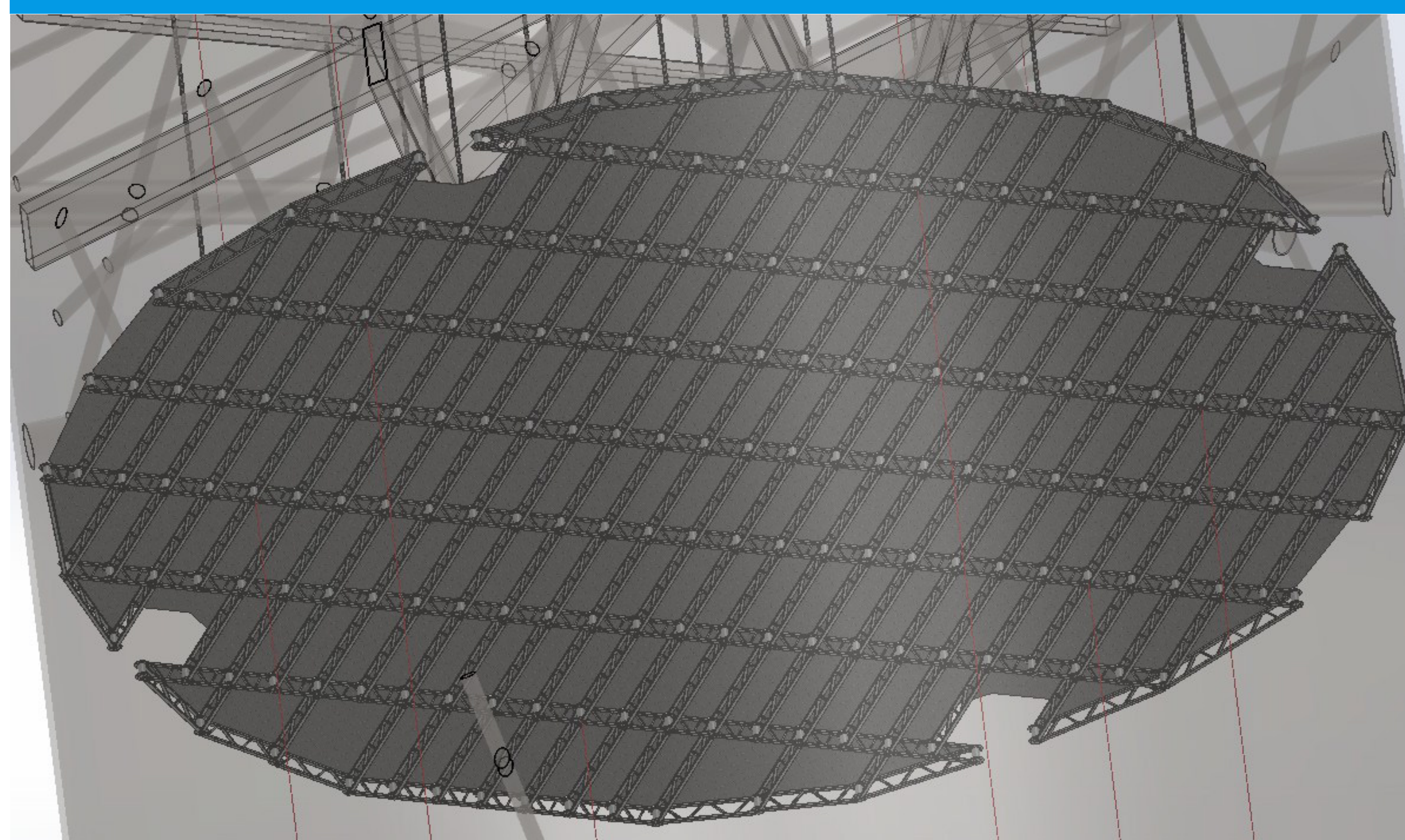
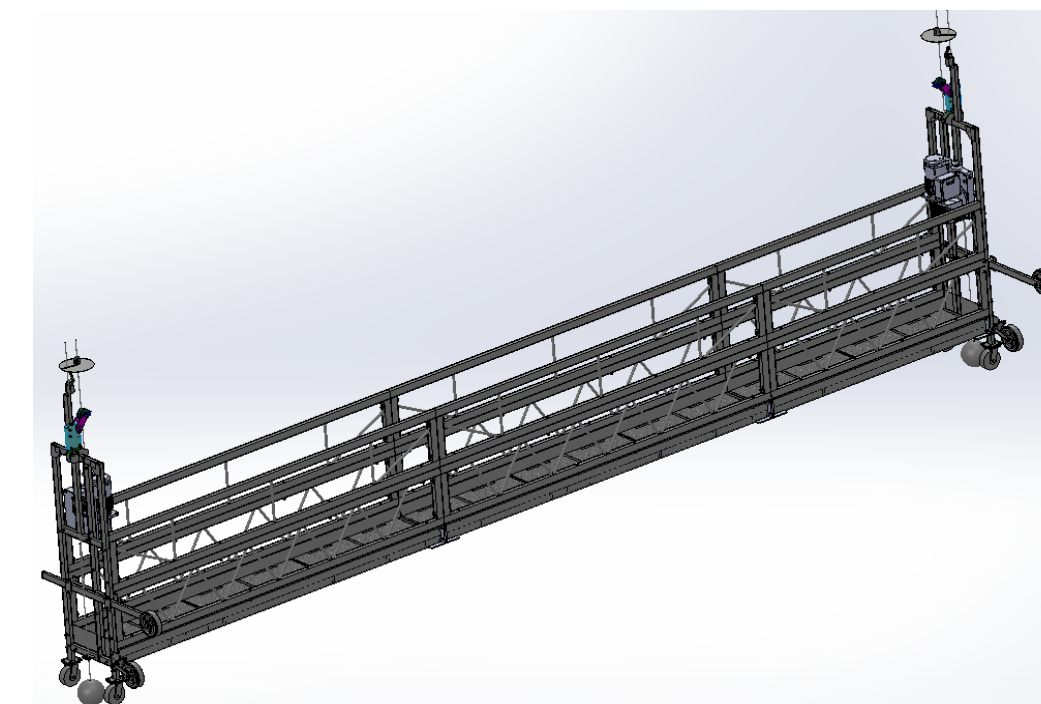
INTERNAL APPLICATION





# MAINTENANCE PLATFORM FOR ABSORPTION TOWER (FOR DESULFURIZATION)

INTERNAL APPLICATION





# MAINTENANCE PLATFORM FOR COOLING TOWER

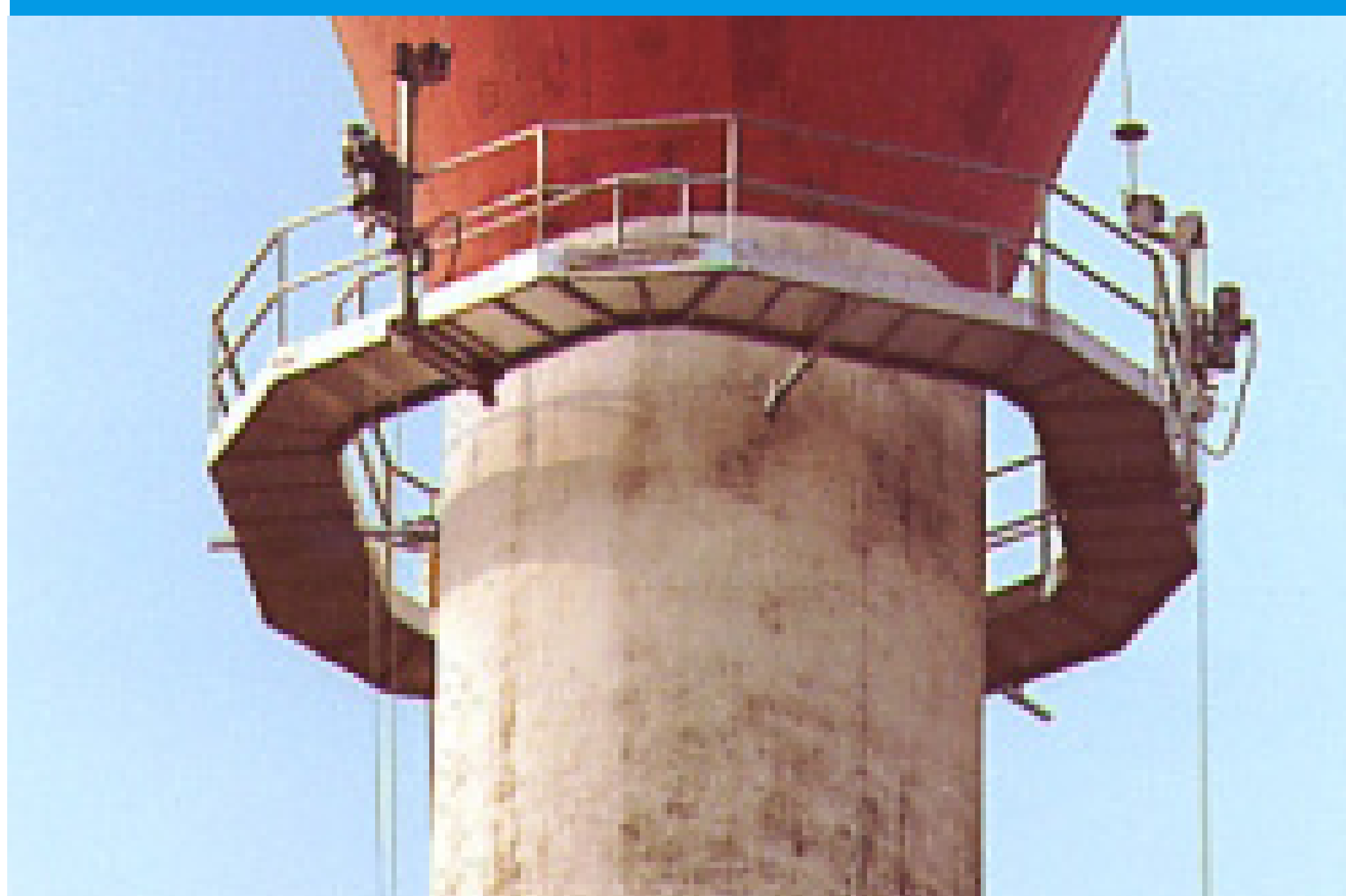
EXTERNAL APPLICATION





# MAINTENANCE PLATFORM FOR STACK

EXTERNAL APPLICATION





# 03.HYDROPOWER

## MAINTENANCE PLATFORM FOR HYDROPOWER

HORIZONTAL MOVEMENT 4-12 M





# MAINTENANCE PLATFORM FOR TURBINE DRAFT TUBE

INTERNAL APPLICATION

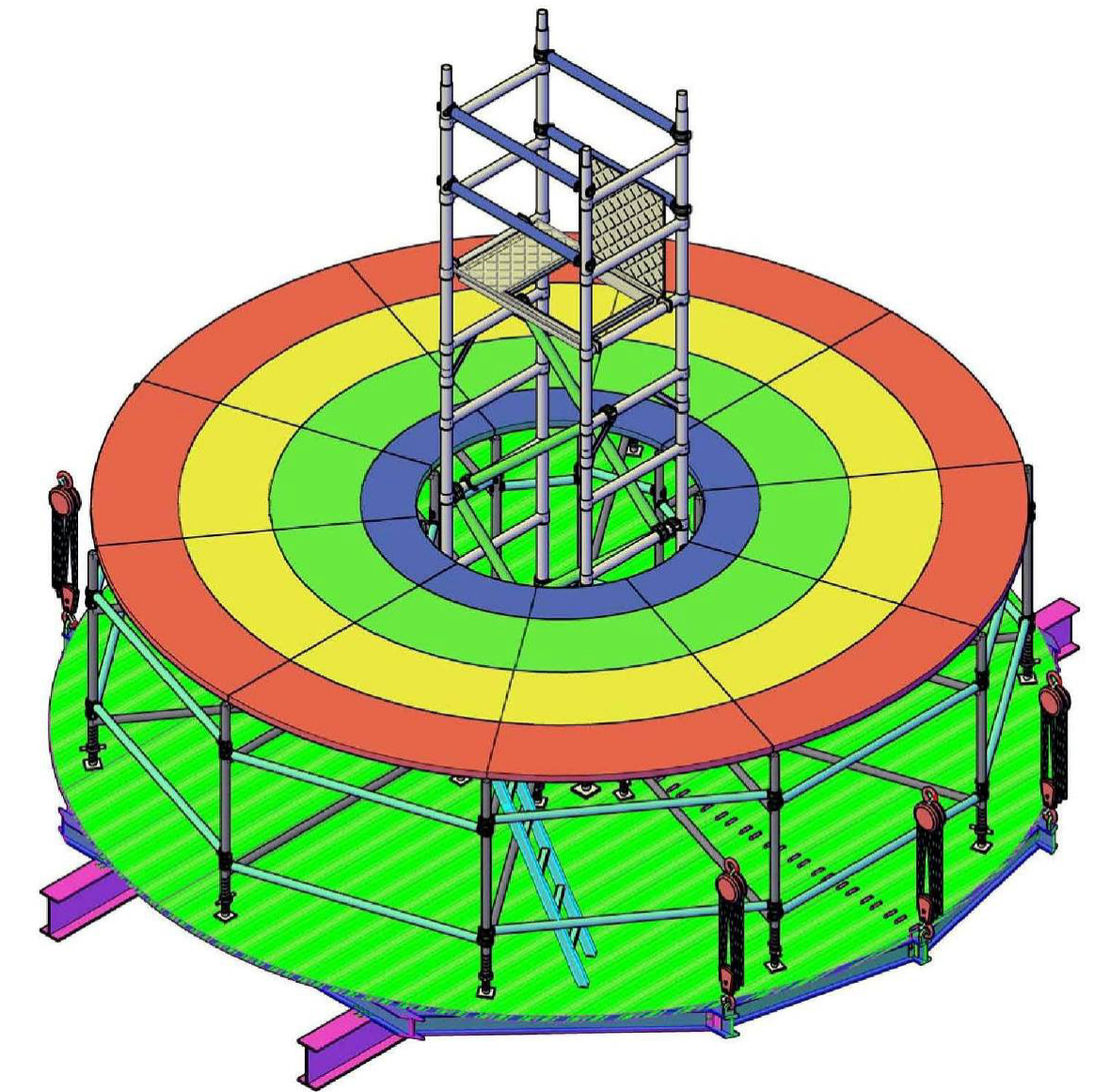
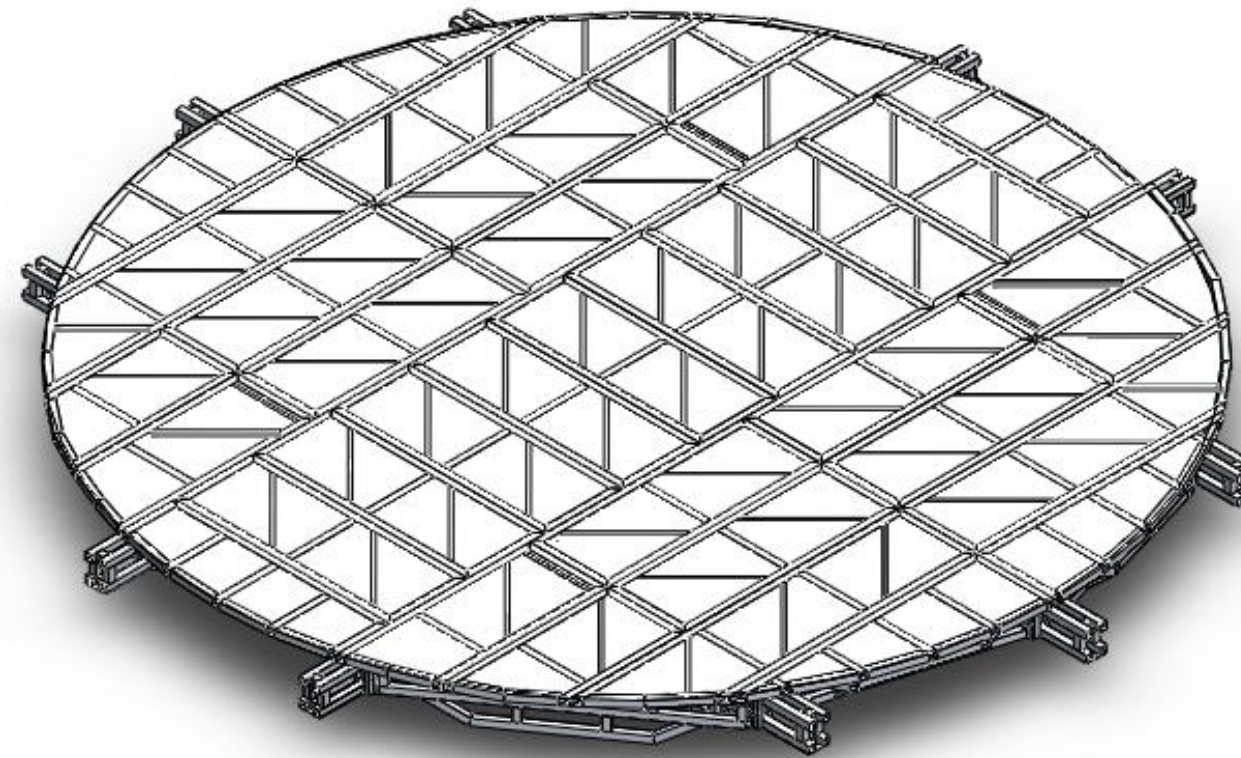
**TXHA-6250**

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**TXHA-7800**

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**COMBINATION TYPE**

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# MAINTENANCE PLATFORM FOR STAYED CABLE

EXTERNAL APPLICATION



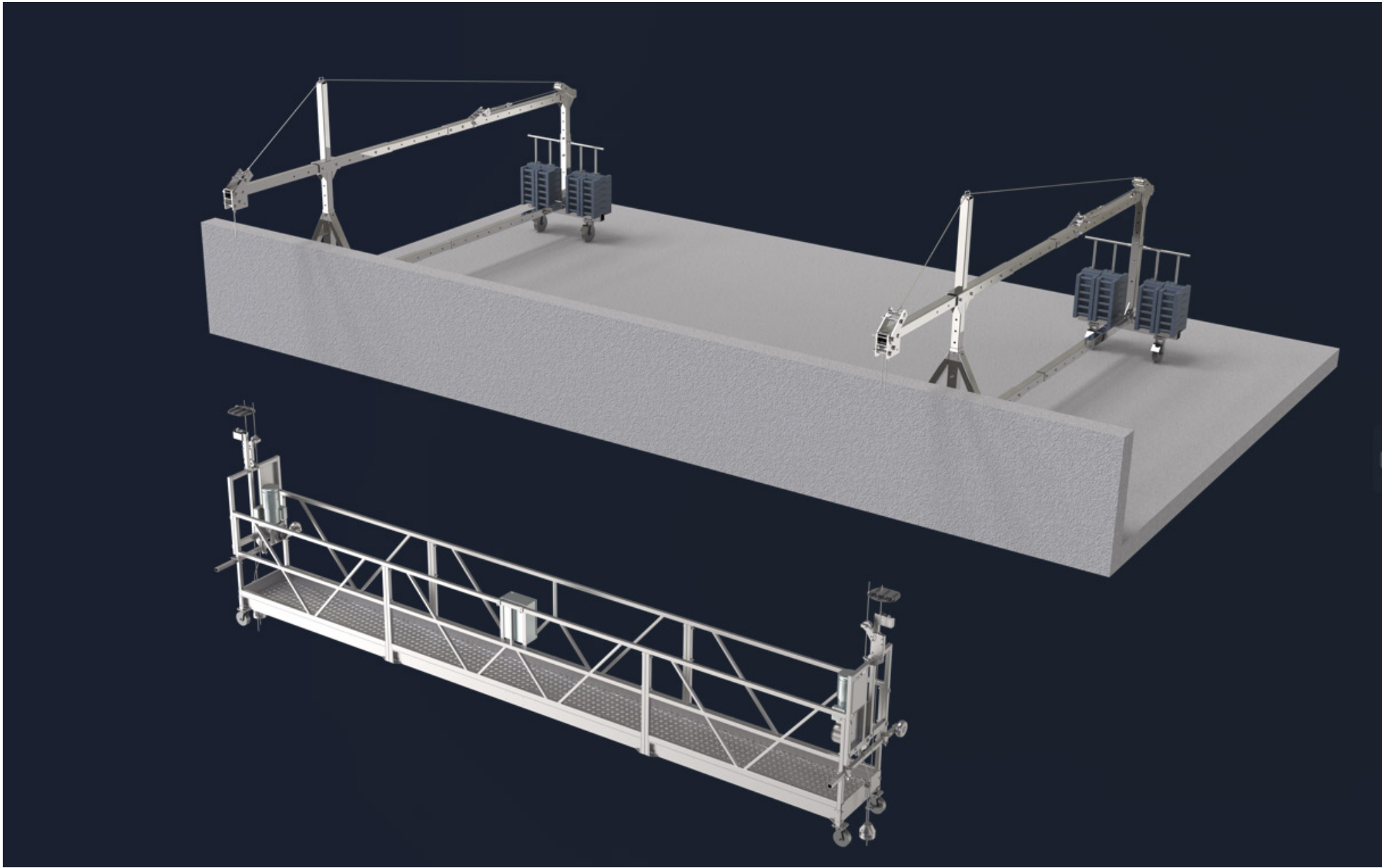


# XP700 SYSTEM

## INTRODUCTION

### INTRODUCTION OF BOILER MAINTENANCE PLATFORM

Model/Variant	Rated Load (kg)	Capacity person	Self-Weight (kg)	Dimension (m)	Voltage/Frep (V/Hz)	Current (A)
XP-700-2E	280	2	260	2x0.7x1.065	230/60 400/50	15.2 8.8
XP-700-3E	420	4	280	3x0.7x1.065		
XP-700-4E	560	5	310	4x0.7x1.065		
XP-700-5E	700	7	340	5x0.7x1.065		
XP-700-6E	840	9	370	6x0.7x1.065		
XP-700-7E	980	10	400	7x0.7x1.065		
XP-700-8E	970	10	430	8x0.7x1.065		
XP-700-9E	940	10	450	9x0.7x1.065		
XP-700-10E	900	9	480	10x0.7x1.065		
XP-700-11E	860	9	510	11x0.7x1.065		
XP-700-12E	820	9	540	12x0.7x1.065		





# HORIZONTAL SAFETY SYSTEM

## EXTERNAL APPLICATION

