



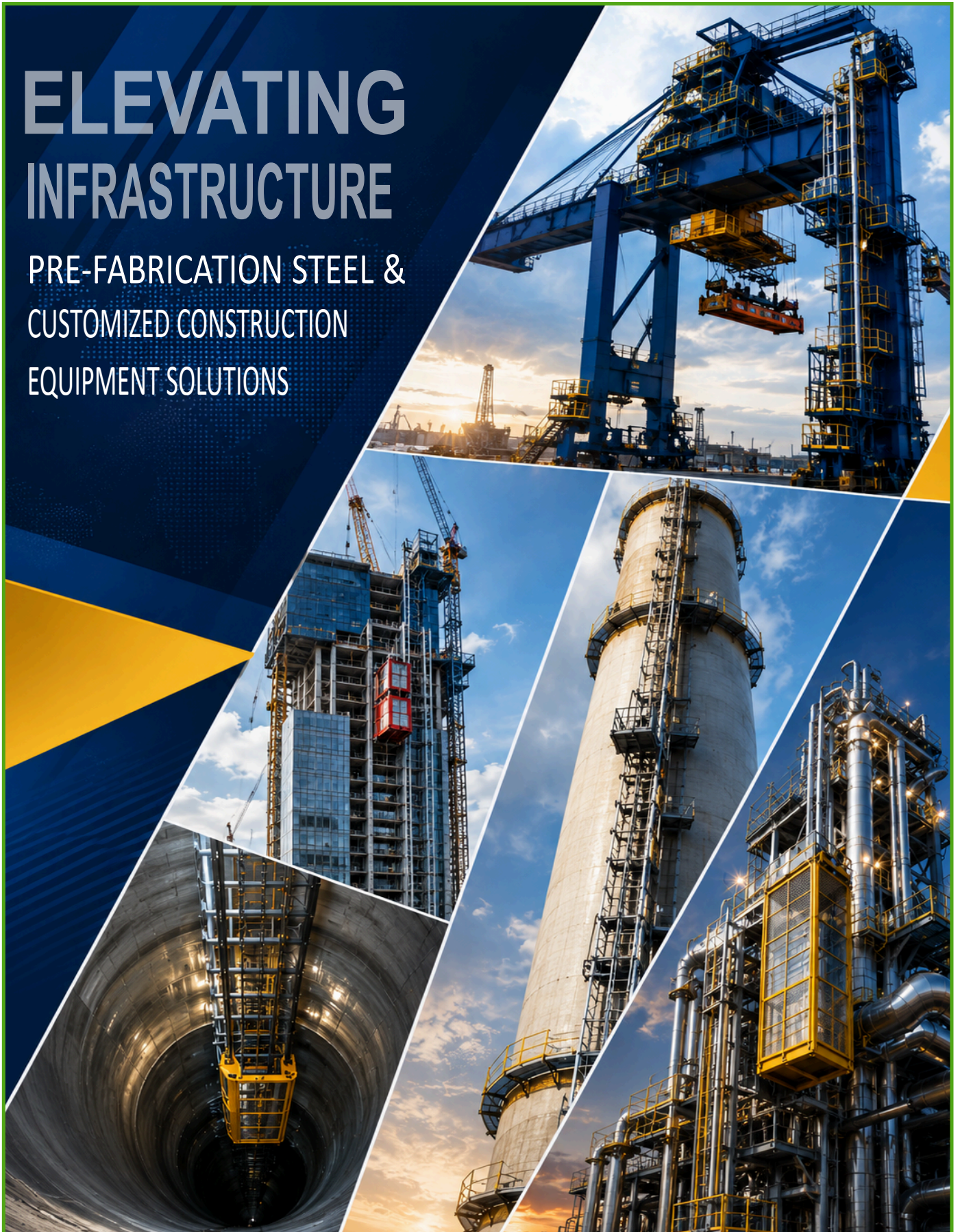
**IGAWARA CORPORATION PTE LTD**

井河原私人有限公司

**CUSTOMIZED CONSTRUCTION EQUIPMENT DIVISION**

# ELEVATING INFRASTRUCTURE

PRE-FABRICATION STEEL &  
CUSTOMIZED CONSTRUCTION  
EQUIPMENT SOLUTIONS



# QUALITY POLICY

We deliver bias-free customer satisfaction through the effective implementation of **ISO 9001** and **AS9120** Compliant quality systems

We shall:



Never compromise and put profit above the quality management system.



Conduct stringent check on the reliability of customers and vendors.



Only engage in businesses where long term relations with customers and vendors are sustainable for the mutual benefits of all parties.



Adhered to customer requirements and specifications to achieve total customer satisfaction.

## Service with a Difference

- Delivering service that consistently exceeds expectations
- Providing comprehensive, end-to-end power solutions
- Ensuring reliable performance for critical operations
- Driven by expert engineering and strict quality control
- Manufactured in compliance with global ISO standards
- One trusted partner from concept to completion
- Proven track record across international projects
- Extensive experience in global trade and logistics
- Delivering value through cost efficiency and reliability



# CUSTOMIZED CONSTRUCTION EQUIPMENT OVERVIEW

## COMPANY OVERVIEW

We are a specialized industrial supplier providing integrated solutions in prefabricated steel structures and customized construction equipment.

Our core capability is built on two closely connected pillars:

### 1. Prefabricated Steel Structures

We design and fabricate high-precision steel components including H-beams, box columns, trusses, and heavy industrial modules. Our expertise covers complex structures such as turbine steel frameworks, boiler house structures, and large-scale industrial pipe racks, supported by advanced CNC cutting, robotic welding, and modular pre-assembly systems.

### 2. Customized Construction Equipment

We engineer and deliver non-standard lifting and access systems for demanding industrial environments, including port cranes, high-rise construction hoists, chimney inspection systems, and explosion-proof maintenance platforms. Each system is designed for specific site conditions, load requirements, and safety standards.

What distinguishes us is the integration between steel fabrication and equipment engineering. Structural steel components and equipment systems are designed in parallel, ensuring full compatibility from factory production to on-site installation.

By combining manufacturing capability, engineering design, and project execution, we reduce interface risks, improve installation efficiency, and provide a single point of responsibility for both materials and equipment systems.

Our solutions are widely applied in:

Power plants, petrochemical facilities, ports and shipyards, high-rise construction, and heavy industrial projects across international markets.

## ENGINEERING APPLICATION FIELDS

Our engineered solutions in prefabricated steel structures and customized construction equipment are applied across demanding industrial environments, including:

- Port infrastructure
- High-rise construction
- Industrial plants
- Petrochemical facilities
- Extreme access environments



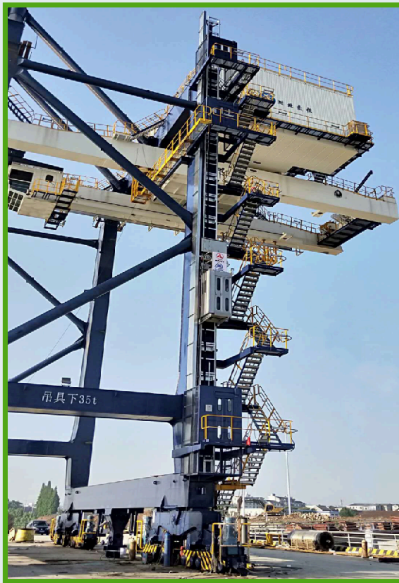
# APPLICATION SCENARIOS

## PORT INFRASTRUCTURE

Port infrastructure relies fundamentally on one core foundation: high-performance steel and precision-fabricated structural components.

Large-scale equipment such as the 35t Ship-to-Shore Gantry Crane is ultimately a structural steel-intensive application, where performance, safety, and service life are determined by material quality and fabrication accuracy.

We specialize in supplying pre-fabricated steel components and heavy structural materials for port construction and customized lifting equipment manufacturing.



### WHY PORT INFRASTRUCTURE REQUIRES FULL CUSTOMIZATION

Unlike general lifting equipment, ship-to-shore cranes cannot be standardized because:

- Each port has unique civil engineering constraints
- Rail alignment and quay geometry vary significantly
- Environmental loads differ by coastal region
- Equipment must integrate with port-wide logistics systems
- Transportation and on-site assembly define structural segmentation

In practice, every crane becomes a one-off engineered infrastructure asset.

### PORT INFRASTRUCTURE DEMAND DRIVERS

Steel demand in port crane and infrastructure projects is driven by:

- Expansion of container terminal capacity
- Upgrade of heavy lifting equipment (30–80t class cranes)
- Automation of port logistics systems
- Replacement of aging marine steel structures
- Increased requirements for safety and maintenance access systems

Each project requires customized steel sizing and prefabrication design.

### STRUCTURAL STEEL AT THE CORE OF PORT EQUIPMENT

A Ship-to-Shore Gantry Crane is a large-scale steel structure system operating under extreme conditions:

- High cyclic loading from container handling
- Continuous exposure to marine corrosion
- Dynamic wind and operational vibration
- Long-span structural stress distribution

Its performance depends primarily on:

- High-strength steel grades for main girders and legs
- Precision-fabricated welded box structures
- Fatigue-resistant connection nodes
- Corrosion-protected surface treatment systems



### KEY STEEL REQUIREMENTS

1. High-strength structural steel (H-beams, box sections, welded profiles)
2. High-precision tolerances for large-scale structural assembly
3. High-efficiency fabrication for fast-track port construction
4. Cost-optimized material usage through engineering and nesting optimization
5. CNC laser cutting and precision processing of steel components
6. Prefabricated modular steel structures for rapid on-site installation

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# APPLICATION SCENARIOS

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## PORT INFRASTRUCTURE

### FROM STRUCTURAL STEEL TO INTEGRATED WORKING SYSTEMS

Port infrastructure is no longer defined by standalone machines—it is defined by engineered steel ecosystems, where cranes, access systems, maintenance platforms, and safety structures are all part of one continuously loaded structural framework.

The case of a Ship-to-Shore crane integrated with an internal personnel lifting system illustrates a key shift:

the crane is not only a lifting machine, but a self-servicing steel structure that must support its own lifecycle operations.

### STEEL IS NO LONGER “MATERIAL SUPPLY” — IT IS SYSTEM ARCHITECTURE

In modern port engineering, steel is not simply supplied as beams or plates. It becomes:

- The load-bearing skeleton of dynamic equipment
- The guide system for vertical and horizontal motion
- Integrated interface for mechanical, electrical, and safety systems
- The fatigue-critical foundation for 20–30 years of continuous duty cycles

For complex crane-integrated systems, every steel member must simultaneously satisfy:

- Structural load resistance
- Equipment mounting accuracy
- Vibration and fatigue stability
- Corrosion resistance under marine exposure

This turns steel fabrication into precision system engineering rather than conventional construction supply.

### INTEGRATED ACCESS SYSTEMS REDEFINE STRUCTURAL DESIGN LOGIC

When a personnel lift or maintenance access system is embedded inside a crane structure, it fundamentally changes the steel design philosophy.

Instead of “adding equipment onto steel,” the design becomes:

Steel structure + access system = unified engineered body

Key implications include:

- The crane’s main columns must function as both load path and guided rail support
- Local reinforcements are required to handle point loads from moving lift assemblies
- Structural deflection limits must consider human transport safety, not just crane operation
- Connection nodes become dual-purpose joints, carrying both mechanical stress and guide precision functions

This requires far higher coordination between:

- Structural engineers
- Fabrication teams
- Equipment designers
- Erection contractors

### CUSTOMIZED CONSTRUCTION EQUIPMENT FOR PORT INFRASTRUCTURE

Modern port infrastructure requires more than standard equipment. Every project demands customized construction systems designed around specific crane structures, operational requirements, marine environments, and maintenance conditions.

Supported by high-performance structural steel and precision-fabricated components, customized port equipment combines strength, safety, corrosion resistance, and modular engineering to ensure reliable long-term operation under heavy-duty marine conditions.

# APPLICATION SCENARIOS

## HIGH-RISE CONSTRUCTION

High-rise construction requires specialized equipment and structural steel materials capable of operating safely and efficiently under extreme height, wind load, and space limitations.

Our business focuses on supplying:

- Pre-fabricated structural steel components
- Customized construction equipment
- Heavy-duty steel support structures
- High-rise lifting and access equipment
- Precision fabricated steel assemblies

These products are widely used in:

- Super high-rise commercial towers
- Urban mixed-use developments
- Curtain wall installation projects
- Roof-level lifting operations
- High-rise maintenance and construction works



## CUSTOMIZED TOWER CRANE EQUIPMENT

### Urban High-Rise Construction Equipment

High-density city projects require customized tower crane equipment designed for restricted working environments and complex building geometries.

### Main Equipment

- Tower crane steel mast sections
- Climbing frames and support brackets
- Steel anchoring structures
- Temporary steel working platforms
- Crane base reinforcement frames
- Protective steel structures

### Equipment Features

- High-strength fabricated steel construction
- Compact installation design
- Heavy-load support capability
- Wind-resistant structural design
- Modular assembly for fast installation

### Typical Applications

- Internal climbing tower cranes
- Super high-rise lifting operations
- Restricted urban construction sites
- Complex core-wall construction projects



## SUMMARY – CUSTOMIZED TOWER CRANE EQUIPMENT

Customized tower crane steel structures form a critical lifting infrastructure in high-rise construction, providing stable, safe, and adaptable load handling capabilities in densely built urban environments.

Through precision-fabricated steel components and modular assembly design, these systems ensure reliable performance under complex site constraints, supporting efficient vertical construction workflows from foundation to superstructure completion.

# APPLICATION SCENARIOS

## HIGH-RISE CONSTRUCTION

### HIGH-RISE HOIST & ACCESS EQUIPMENT

#### Construction Hoist Supporting Structures

Construction hoists are critical equipment for manpower and material transportation in high-rise projects.

We provide customized steel structures and equipment components for high-speed vertical access operations.

#### Main Products

- Hoist mast steel sections
- Landing platforms
- Steel safety barriers
- Wall tie support systems
- Access walkways and platforms
- Heavy-duty steel brackets

#### Technical Characteristics

- High-load structural capacity
- Precision fabricated connections
- Fast modular installation
- Corrosion-resistant treatment
- Long-term fatigue durability

#### Project Benefits

- Efficient vertical transportation
- Reduced installation time
- Safer worker access
- Reliable high-rise operation support

### PRE-FABRICATION STEEL FOR HIGH-RISE CONSTRUCTION

#### Structural Steel Components & Fabrication

High-rise projects require high-precision steel fabrication to support both permanent structures and temporary construction equipment.

#### Key Steel Products

- H-beams & welded box sections
- Steel plates & connection parts
- Prefabricated steel platforms
- Heavy-duty support brackets
- Lifting & mounting frames

#### Application Advantages

- Faster installation
- Reduced site welding
- Improved structural consistency
- Lower manpower demand
- Better quality control

### FACADE INSTALLATION EQUIPMENT

#### Cantilever Lifting Equipment for Curtain Wall Installation

Super high-rise façade installation requires specialized lifting equipment capable of handling heavy glass or curtain wall panels at extreme heights.

#### Main Products

- Cantilever lifting booms
- Steel support frames
- Roof anchoring structures
- Lifting brackets and frames
- Steel pulley support assemblies
- Maintenance access platforms

#### Steel Engineering Features

- Lightweight fabricated steel structures
- High-strength boom assemblies
- Precision welded connection systems
- Wind-resistant support structures
- Modular transportable components

#### Application Areas

- Curtain wall installation
- Glass panel lifting
- Exterior façade maintenance
- Roof-level lifting operations

#### Fabrication Capabilities

- CNC laser cutting
- Precision welding
- Modular pre-assembly
- Surface treatment & corrosion protection
- Dimensional accuracy control

#### Equipment Capability

- High-load vertical lifting performance
- Precision material positioning
- Stable operation in high-rise wind conditions
- Adaptation to confined urban spaces
- Integration with construction workflow

# APPLICATION SCENARIOS

## INDUSTRIAL PLANTS

Industrial chimneys, smoke stacks, and exhaust towers present extreme engineering challenges: ultra-height structures, tapered or curved geometries, dense surrounding piping, and harsh corrosive or high-temperature environments.

Standard scaffolding and conventional lifting platforms are no longer sufficient.

We deliver purpose-designed customized construction equipment, engineered specifically for your plant conditions and backed by in-house steel prefabrication capabilities.



### Application Challenges in Industrial Plants

Industrial stacks require safe and efficient access solutions under extreme conditions:

- Ultra-high elevation (100m–300m+ structures)
- Tapered or cylindrical concrete/steel geometries
- Dense external obstacles (pipes, steel frames, flanges)
- Corrosive gases and high temperature
- Strong wind loads at high altitude
- Limited base access space and tight plant layouts

### Customized Equipment Solutions

#### Rail-Guided Chimney Hoist Systems

- Adjustable rail brackets for tapered or cylindrical structures
- Precision wall-following guidance system
- Rigid rack-and-pinion drive for stability at height

#### Modular Work Cages & Platforms

- Retractable cage extensions for obstacle clearance
- Multi-level working platforms for full-height coverage
- Semi-enclosed corrosion-resistant design

#### Obstacle-Adaptive Engineering

- Custom track routing to bypass pipes and steel protrusions
- Telescopic boarding systems for restricted base entry areas

#### Advanced Safety Architecture

- Dual mechanical anti-fall protection systems
- Independent rail braking mechanism
- Multi-level electrical and mechanical interlocks

#### Engineering Customization Capability

We don't adapt standard equipment — we redesign the system around your structure.

- Profile-adaptive rails for conical/cylindrical stacks
- Thermal expansion joints for vertical structures
- Modular design for fast installation and relocation
- Site-specific load & wind optimization

### Core Value Statement

We transform complex industrial chimney geometries into safe, repeatable, rail-guided vertical access systems — powered by precision steel prefabrication and engineered customization.

# APPLICATION SCENARIOS

## INDUSTRIAL PLANTS

### STEEL MATERIALS & FABRICATION SYSTEM FOR CUSTOMIZED CHIMNEY ACCESS EQUIPMENT

Customized chimney lifting and access systems are not standard equipment—they are structural steel engineering systems exposed to extreme height, corrosion, wind load, and thermal stress.

Therefore, material selection and fabrication quality define system safety, not just design.

### STEEL MATERIALS & FABRICATION SYSTEM FOR CUSTOMIZED CHIMNEY ACCESS EQUIPMENT

#### 1. Core Structural Steel System

##### Primary Load-Bearing Structures

- High-strength structural steel
- H-beams for vertical rail supports and base frames
- Box sections (welded or formed) for high-torsion stability
- Heavy-duty welded profiles for cantilever and bracket systems

##### Secondary Structural Components

- Angle steel for reinforcement bracing
- Channel steel for platform framing
- Flat bars for stiffening and edge support

#### 2. Steel Tube & Pipe System (Critical for Chimney Integration)

##### Steel Tubes

- Seamless / welded structural steel tubes
- Large-diameter circular tubes for curved rail adaptation
- Thick-wall tubes for high wind and vibration resistance

##### Steel Pipes (Industrial Integration & Support)

- Cable protection conduits
- Structural tie-back elements
- Auxiliary service routing (power / control / safety systems)

#### 3. Flange & Connection System (Key for Modular Assembly)

##### Flange Structures

- Rail segment connections
- Modular tower assembly
- Equipment interface points

##### Connection Systems

- Bolt-connected flange joints (high torque grade bolts)
- Anti-loosening locking systems for vibration resistance
- Alignment-guided assembly interfaces for fast installation

#### 4. Plate System (Critical for Platforms & Enclosures)

##### Structural Steel Plates

- High-strength thick steel plates for base platforms
- Anti-slip patterned plates for working decks
- Reinforced gusset plates for joint strength

##### Application Areas

- Working cages / lift platforms
- Base anchoring structures
- Safety enclosure panels
- Cantilever extension decks



# APPLICATION SCENARIOS

## PETROCHEMICAL FACILITIES

Petrochemical facilities require large quantities of customized steel equipment and pre-fabricated steel components to overcome complex structural conditions such as flanges, valves, steel pipes, insulation layers, and confined access spaces. Standard steel products are often unable to match the non-standard geometries found in towers, chimneys, reactors, and process structures.

Supported by advanced PRE-FABRICATION STEEL capabilities, we provide customized steel fabrication solutions including laser-cut steel plates, structural steel components, flange adaptation parts, pipe support structures, maintenance platforms, and heavy-duty access equipment. Through precision laser cutting, steel pre-processing, welding, and modular fabrication, existing steel materials are transformed into highly adaptable engineered equipment for petrochemical maintenance and construction applications.

### ENGINEERED FOR THE REALITY OF PETROCHEMICAL PLANTS

Petrochemical facilities are not standard structures.

Every distillation tower, chimney, reactor vessel, and process column is surrounded by:

- Process equipment
- Piping systems
- Insulation layers
- Steel support structures and platforms
- Curved geometries
- Congested access zones

Conventional access equipment is rarely designed for these realities.

As a result, standard systems often:

- Cannot fit properly
- Require excessive on-site modification
- Create unsafe climbing conditions
- Interfere with valves and piping
- Increase shutdown duration and labor cost

At extreme heights and in hazardous environments, compromise is not an option.

That is why petrochemical facilities require:

### CUSTOMIZED CONSTRUCTION EQUIPMENT

Designed specifically for the exact geometry and operating conditions of each tower and structure.

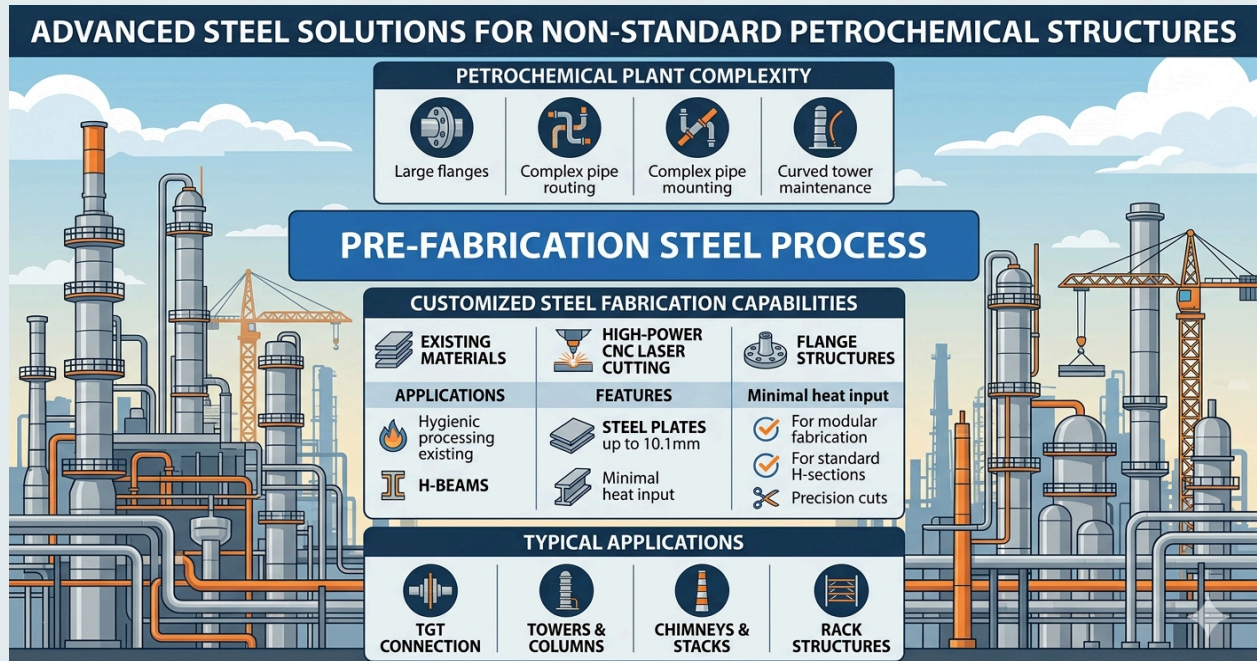
### CORE EQUIPMENT SOLUTIONS

- Customized Steel Access Structures
- Laser-Cut Structural Steel Components
- Pipe & Flange Steel Fabrication
- Maintenance Platforms & Working Structures
- PRE-FABRICATION STEEL Components
- Modular Steel Fabrication



# APPLICATION SCENARIOS

## PETROCHEMICAL FACILITIES



### FOR NON-STANDARD PETROCHEMICAL STRUCTURES

Petrochemical plants are filled with:

- Large flanges
- Complex pipe routing
- Valve assemblies
- Structural steel members
- Curved tower surfaces
- Congested maintenance zones

Our PRE-FABRICATION STEEL process focuses on:

- Pre-processing existing steel materials
- Modifying structural steel components
- Fabricating customized steel parts
- Adapting steel equipment to field conditions
- Improving installation efficiency
- Supporting modular fabrication and faster site assembly

### CUSTOMIZED STEEL FABRICATION CAPABILITIES

#### Laser-Cut Steel Plates & Structural Components

- Steel plates
- H-beams
- Channel steel
- Structural brackets
- Connection plates
- Reinforcement components

#### Features

- Precision tolerance up to  $\pm 0.1$  mm
- Smooth cutting edges
- Minimal heat deformation
- Fast fabrication turnaround
- High repeatability for modular fabrication
- Consistent quality for complex industrial

### TYPICAL APPLICATIONS

#### Petrochemical Towers & Columns

Customized steel brackets, platforms, and access structures adapted to flanges and piping.

#### Industrial Chimneys & Stacks

Heavy-duty steel supports and climbing structures for high-elevation maintenance.

#### Refinery Pipe Rack Structures

Pipe supports, transition assemblies, and structural reinforcement fabrication.

#### Reactor & Vessel Maintenance

Temporary steel platforms, suspended structures, and confined-space access components.

# APPLICATION SCENARIOS

## EXTREME ACCESS ENVIRONMENTS

In modern infrastructure development, construction is no longer limited to flat terrain and standard structures. Large-scale projects such as long-span bridges, ultra-high chimneys, deep shafts, and confined box girders introduce environments where conventional cranes, scaffolding, and standard lifting equipment are no longer sufficient.

These projects share a common reality:

extreme height, confined space, complex geometry, and high-risk working conditions.

### System-Level Engineering Approach

Our customized construction equipment integrates four core functional layers:

- **Vertical Access Systems**  
Safe and controlled transportation in high-rise and deep shaft environments
- **Working Platforms**  
Adaptive platforms for external and internal structural operations
- **Safety & Fall Protection Systems**  
Continuous, rigid, and redundant anti-fall protection integrated into structure
- **Logistics & Material Handling Systems**  
Efficient vertical and horizontal transport of tools, materials, and components

### Engineering Foundation: Pre-Fabrication Capability

All systems are supported by in-house steel pre-fabrication and precision manufacturing capabilities, including CNC laser cutting, structural welding, and modular steel assembly.

This enables us to transform raw steel into:

- High-strength structural access systems
- Modular construction platforms
- Custom-shaped load-bearing frameworks
- Site-adapted installation solutions

### Value Proposition

By replacing manual, high-risk operations with engineered access systems, our solutions deliver:

- Higher construction efficiency in extreme environments
- Significant reduction in high-altitude safety risks
- Improved precision in structural operations
- Reduced dependency on scaffolding and temporary structures
- Modular reuse across multiple infrastructure projects



# APPLICATION SCENARIOS

## EXTREME ACCESS ENVIRONMENTS

### PRE-FABRICATION STEEL CAPABILITY

All customized equipment is supported by our in-house steel pre-fabrication and precision manufacturing capability.

#### 1. Advanced Steel Processing

##### CNC Laser Cutting Systems

- High-precision structural steel cutting
- Complex geometry plate processing
- Minimal assembly tolerance deviation

##### CNC Plasma & Flame Cutting

- Thick plate structural components
- Heavy-duty industrial steel sections
- Large-scale bridge and tower components

##### Automated Welding Systems

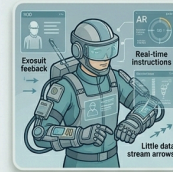
- Robotic welding for structural frames
- High-strength joint fabrication
- Consistent load-bearing quality control

#### 2. Structural Fabrication Capability

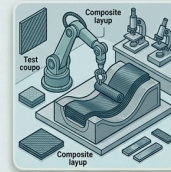
- H-beam and box-section manufacturing
- Modular steel frame systems
- Pre-assembled installation units
- High-load structural integration design

#### 3. Engineering Optimization

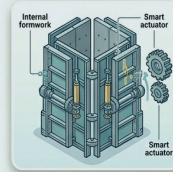
- Structural weight optimization
- Load distribution simulation
- Installation path design
- Modular transport segmentation



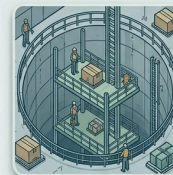
REMOTE OPERATOR HUD



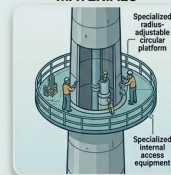
ADVANCED COMPOSITE MATERIALS



SMART-GEOMETRY FORMWORK



VERTICAL SHAFT LIFT PLATFORM



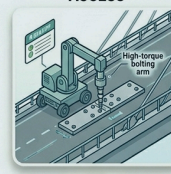
CHIMNEY RETROFIT ACCESS



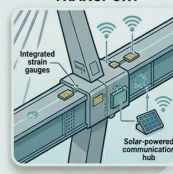
MODULAR GIRDS TRANSPORT



CNC PLASMA PROFILE CUT



ROBOTIC BOLTING STATION



SITE-INTEGRATED GAUGE

#### 4. Anti-Corrosion Engineering

- Hot-dip galvanizing systems
- Marine-grade coating protection
- Humidity & salt-spray resistant design
- Long-life outdoor structural protection

## EXTREME ACCESS ENVIRONMENTS: PRE-FABRICATION STEEL CAPABILITY

The Engineering Backbone Behind Every Custom System.

#### 1. Advanced Steel Processing



##### CNC Laser Cutting

- High-precision structural steel cutting
- Complex geometry plate

- Minimal assembly tolerance deviation



##### CNC Plasma & Flame Cutting

- Thick plate structural components
- Heavy-duty industrial steel sections
- Large-scale bridge and tower components



##### Automated Welding

- Robotic welding for structural frames
- High-strength joint fabrication
- Consistent load-bearing quality control

#### 2. Structural Fabrication Capability



H-beam and box-section manufacturing

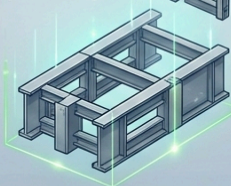
- Modular steel frame systems



- Pre-assembled installation units



- High-load structural integration design



#### 3. Engineering Optimization

- Structural weight optimization

- Load distribution simulation



- Installation path design (on-site assembly logic)

- Modular transport segmentation



#### VALUE PROPOSITION: Why Customized Construction Equipment Matters

- +300% improvement in high-altitude working efficiency
- -80% reduction in manual climbing operations
- Significantly reduced accident risk in confined spaces
- Faster construction cycles for mega infrastructure projects
- Long-term reusable modular systems across multiple projects

**CONCLUSION:** As infrastructure becomes more complex, we deliver pre-fabrication steel and customized construction equipment solutions that transform extreme environments into controlled engineering spaces.

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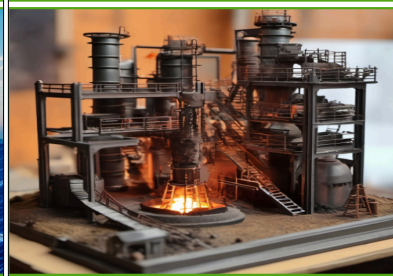
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