



B.M.T

A fusion of steel and elegance

BRILLIANCE MAHK

Steel Prefabrication Solutions

- ◆ Engineering Strength
- ◆ Delivering Precision
- ◆ Building the Future.

— Professional Supplier Since 2004 —

Shanghai | Global Projects | Industrial Expertise

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Brilliance Mahk

Steel Structure Product Catalog

Comprehensive solutions for modern construction projects worldwide

Brilliance Mahk has established strategic partnerships with leading Chinese prefabrication manufacturing and service companies to deliver world-class steel structure solutions. The following slides present our full product scope, industry focus areas, and selected project references that demonstrate our capabilities.

All manufacturing and service partners are **ISO certified** and operate in strict compliance with international standards, ensuring consistent quality, safety, and reliability across every project we undertake.



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Prefabrication Overview

Prefabrication represents the future of efficient construction. By manufacturing building components in controlled factory environments, we dramatically improve quality consistency, reduce on-site construction time, and enhance cost predictability for project developers around the globe.

Quality Consistency

Factory-controlled production eliminates variables that affect traditional construction, including weather delays and quality inconsistencies.

Faster Assembly

Components arrive on site ready for rapid assembly, significantly compressing project schedules and reducing labor requirements.

Cost Predictability

Standardized manufacturing processes deliver reliable budgeting for infrastructure, industrial, and modular construction projects.





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Our Prefabrication Capabilities

Brilliance Mahk has developed strong partnerships with professional prefabrication manufacturers across China, enabling us to deliver complex modular solutions for international projects. Our network includes specialized fabricators for structural steel, building modules, and custom-engineered components.



Manufacturing Partnerships

Collaboration with certified fabrication facilities equipped with modern welding, cutting, and assembly technology. Our partners maintain ISO certifications and industry-specific qualifications.



Quality Management

Comprehensive inspection programs through SGS and TÜV third-party verification. Stringent quality control from raw material verification to final assembly checks.



Engineering Support

Technical coordination with project engineering teams. We review specifications, provide value engineering suggestions, and ensure fabrication drawings meet international standards.



Global Delivery

Worldwide project logistics including export documentation, protective packaging, and coordinated shipping schedules across all major trade routes.



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Project Categories Overview

Brilliance Mahk serves a broad spectrum of construction sectors, delivering prefabricated steel solutions tailored to the unique demands of each industry. Our expertise spans the following core project categories:

1

Public Buildings

Sports venues, airports, exhibition halls, and large assembly structures requiring iconic architectural steel frameworks.

2

Factory Buildings

Industrial facilities, manufacturing plants, and warehouse complexes designed for efficient production workflows.

3

Multi-Story Buildings

High-rise residential and commercial structures featuring steel frame systems for rapid vertical construction.

4

Bridge Structures

Large-span truss bridges, box girders, and infrastructure-grade crossing solutions for highways and railways.

5

Energy / Renewable Energy

Nuclear power stations, wind power structures, and solar power plant frameworks supporting the global energy transition.

6

International Projects

Global construction solutions including marine engineering, offshore platforms, and cross-border infrastructure developments.



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Pre-Engineered Buildings (PEB)

Pre-engineered building systems offer the fastest, most cost-effective solution for warehouses, manufacturing facilities, and logistics centers. These structures are designed, fabricated, and delivered as complete building packages ready for rapid on-site assembly.

Key Applications

- Distribution centers and logistics warehouses
- Manufacturing plants and production facilities
- Cold storage and controlled-environment buildings
- Aircraft hangars and large-span structures

Performance Advantages

Installation times are typically **40–60% faster** than conventional construction, allowing earlier facility operation and faster return on investment.

Modular design enables seamless future expansion as your business scales — without structural redesign or costly retrofits.

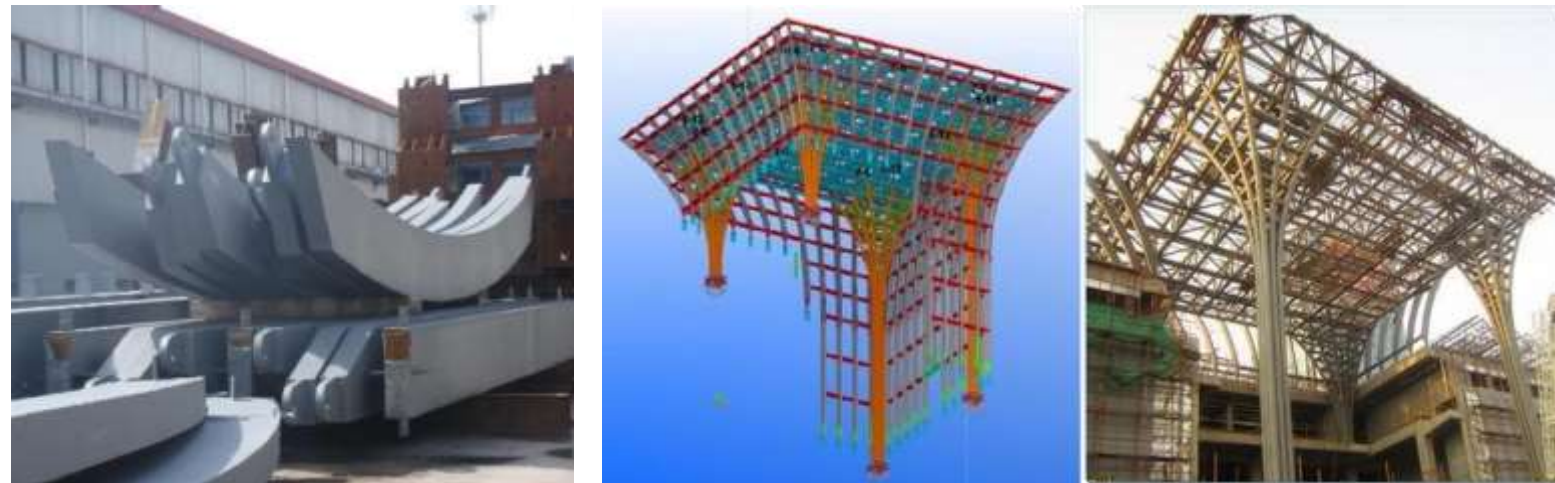
Our PEB solutions feature optimized steel usage through computer-aided design, resulting in lighter structures without compromising strength. The modular approach enables easy future expansion as business needs grow.



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Public Buildings — Train Station

Large-span steel roof structures for public transit stations demonstrate our ability to deliver architecturally striking, high-performance frameworks. These projects require precision engineering to meet complex geometries, heavy loading conditions, and rigorous public safety standards — all completed to exacting tolerances in factory-controlled environments.



- ❏ Prefabricated train station structures feature large-span trusses, canopy systems, and column assemblies — all manufactured off-site and rapidly erected on location to minimize disruption to transit operations.



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Factory Buildings — Business Park

Multi-building business park developments benefit from the repeatability and speed of prefabricated steel construction. Standardized frame designs allow parallel fabrication of multiple buildings, enabling entire industrial parks to be erected in compressed timelines — delivering earlier occupancy and rental income for developers.





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Factory Buildings — Warehouse

Prefabricated warehouse structures deliver clear-span interiors optimized for logistics efficiency. Our solutions accommodate various cladding systems, overhead crane installations, and mezzanine platforms — all engineered to maximize usable floor area while meeting local wind and seismic code requirements.





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Multi-Story Buildings — Business Hotel

Steel-framed multi-story construction enables rapid vertical development for commercial hospitality projects. Prefabricated column-beam assemblies and floor decking systems are manufactured to tight tolerances, allowing floor-by-floor erection with minimal on-site welding. This approach dramatically reduces construction noise and disruption in urban environments.





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Bridge Prefabrication

Prefabricated bridge components enable rapid infrastructure development with minimal disruption to existing traffic and activities. Our bridge fabrication capabilities support both new construction and rehabilitation projects in urban and rural settings worldwide.

Bridge Component Fabrication

- Steel box girders and plate girders
- Truss bridge sections and arch components
- Deck panels and composite bridge systems
- Pedestrian bridge modules

Key Advantages

- Factory-controlled quality for critical connections
- Reduced on-site construction time
- Minimal traffic disruption during installation
- Consistent coating and corrosion protection

Our bridge fabrication partners maintain specialized certifications for fracture-critical members and are experienced in meeting stringent international bridge codes including **AASHTO**, **Eurocode**, and regional standards.



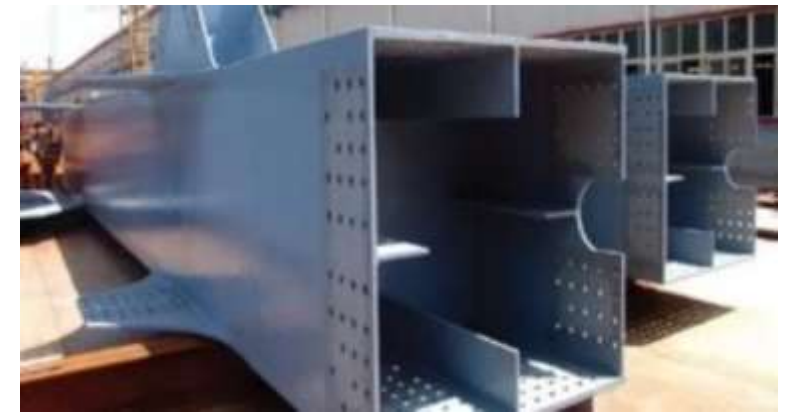


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Bridges — Prefabrication Structures

Our portfolio of completed bridge projects demonstrates the versatility and precision of factory-fabricated bridge components. From highway overpasses to pedestrian crossings, each structure is fabricated to exact engineering specifications and delivered ready for efficient field assembly.



- ❑ All bridge components undergo rigorous NDT (Non-Destructive Testing) including ultrasonic and radiographic inspection of critical welds before shipment, ensuring structural integrity and code compliance.



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Offshore & Energy Modules

Offshore Platform Modules



Process modules, accommodation quarters, and topside structures for offshore oil and gas platforms. Designed for harsh marine environments with comprehensive corrosion protection systems and strict weight control.

Refinery & Petrochemical Modules



Pre-assembled process units, pipe racks, and equipment modules for refineries and chemical plants. Includes structural steel, piping integration, and equipment mounting systems for turnkey installation.

Storage Tank Modules



Prefabricated tank components, secondary containment systems, and tank farm infrastructure. Available in various sizes and specifications for crude oil, refined products, and chemical storage.

Power Generation Structures



Boiler support structures, turbine foundations, coal handling systems, and auxiliary building frames for thermal and combined-cycle power plants worldwide.



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Marine & Port Structures

Specialized steel products and prefabricated systems for port development, coastal protection, and marine infrastructure projects worldwide. Our marine-grade materials and fabrication standards ensure long-term durability in aggressive saltwater environments.

Steel Sheet Piling

Hot-rolled and cold-formed sheet pile sections in various profiles (U, Z, flat web) for quay walls, cofferdams, and shoreline protection. Available in standard and high-strength grades with enhanced corrosion resistance.

Quay Wall Structures

Complete quay wall systems including sheet piling, waler beams, tie rods, anchor systems, and capping beams. Designed to accommodate heavy berthing loads and crane operations.

Land Reclamation Projects

Cell-type and box-type sheet pile structures for land reclamation and coastal development. Includes corners, junctions, and closure elements for complex geometries.

Marine Platforms & Jetties

Prefabricated deck sections, support piles, and structural frameworks for loading terminals, ferry terminals, and offshore supply bases.



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Steel Structures

Custom-fabricated steel structures form the backbone of modern industrial and commercial construction. We deliver precision-engineered structural frames, mezzanines, platforms, and support systems designed to meet specific load requirements and operational needs.

Structural Solutions Include

- Multi-story building frames and column-beam systems
- Industrial platforms and equipment support structures
- Mezzanine floors for warehouses and factories
- Pipe racks and cable tray support systems
- Blast-resistant and heavy-duty industrial frames

Each structure is fabricated according to detailed engineering drawings and project specifications. Our quality assurance includes **dimensional verification**, **weld testing**, and **surface preparation** to ensure long-term performance and easy field erection.





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Modular Camps & Site Offices

Rapid-deployment modular buildings provide immediate accommodation and workspace solutions for remote project sites. Our prefabricated camp systems are ideal for construction projects, mining operations, and temporary workforce facilities requiring fast mobilization.



Living Quarters

Worker dormitories and living quarters with complete interior finishes, HVAC, and electrical systems.



Mess & Kitchen

Mess halls and commercial kitchen facilities designed to serve large workforce populations efficiently.



Offices & Admin

Site offices, administration buildings, and meeting rooms configured for professional project management.



Medical & Welfare

Medical clinics, recreation facilities, ablution blocks, and laundry facilities for comprehensive site welfare.

Units arrive complete with all MEP systems. Standard container-based modules can be assembled in days, with **multi-story configurations possible**. Buildings are designed for easy relocation and reuse across multiple projects, providing excellent lifecycle value.



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Project Partnership

From initial inquiry through final delivery, Brilliance Mahk supports your project execution with professional service, technical expertise, and reliable supply. We welcome long-term cooperation with EPC contractors, project developers, and construction firms seeking a dependable steel supply partner.

Whether your project requires standard products, custom fabrication, or complete modular solutions, we have the capability and commitment to deliver success. Our team integrates seamlessly with your project management structure to ensure alignment on specifications, timelines, and quality expectations.



Reach Out

Contact us to explore how Brilliance Mahk can support your steel and prefabrication requirements



Build Together

We look forward to building a lasting partnership grounded in mutual trust and shared success





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Quality Assurance

Quality is not negotiable in steel supply and prefabrication. Brilliance Mahk implements comprehensive quality control programs that provide full transparency and accountability throughout the manufacturing and delivery process.

1

Material Verification

Mill test certificates (MTC) for all steel products, confirming chemical composition, mechanical properties, and manufacturing standards compliance.

2

Production Monitoring

In-process inspection at key fabrication stages including cutting, welding, assembly, and coating application. Dimensional checks against approved drawings.

3

Third-Party Inspection

Independent verification by SGS, TÜV, or client-nominated inspectors. NDT including ultrasonic, radiographic, and magnetic particle testing as required.

4

Final Documentation

Complete quality dossier including test reports, inspection records, coating certificates, and traceability documentation for regulatory compliance.



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Global Logistics Support

Successful international steel projects require more than quality products—they demand expert logistics coordination. Brilliance Mahk manages the entire export process, ensuring materials arrive on schedule and in perfect condition regardless of destination.

Export Services Include

- Custom export packaging and containerization
- Break-bulk and heavy-lift cargo coordination
- Complete export documentation and customs clearance
- Marine insurance and cargo protection
- Multi-modal transportation planning
- Port handling and delivery coordination

Our Logistics Advantage

Our logistics team works with established shipping lines and freight forwarders to optimize routing and costs. We provide transparent shipment tracking and proactive communication to keep project teams informed of delivery status at every stage.

From Shanghai's major ports to destinations across five continents, we coordinate seamless delivery for projects of any scale.



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Why Choose Brilliance Mahk

Partnering with Brilliance Mahk means working with a steel supplier that understands international project challenges and delivers consistent value through experience, capability, and commitment.



Proven Track Record

Twenty years of successful project deliveries across five continents. Our experience spans hundreds of projects from small-scale fabrications to major infrastructure developments. Client references available upon request.



Professional Coordination

Dedicated project managers who understand engineering requirements, logistics challenges, and construction schedules. We integrate seamlessly with EPC contractors and project teams.



Competitive & Reliable

Direct mill relationships and efficient sourcing practices deliver competitive pricing without compromising quality. Our financial stability ensures reliable supply even in challenging markets.



Technical Expertise

In-house technical team with deep steel industry knowledge and practical construction experience. We provide specification review, material selection guidance, and value engineering support.



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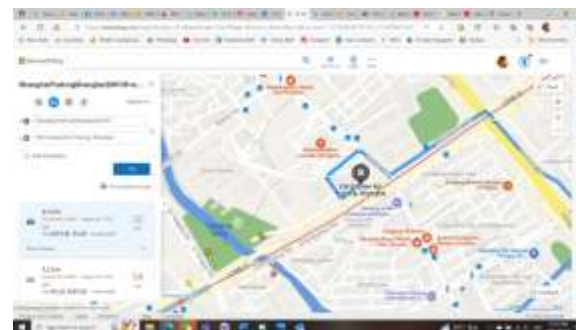
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We look forward to discussing your next project. Reach out to any of our offices to begin the conversation.