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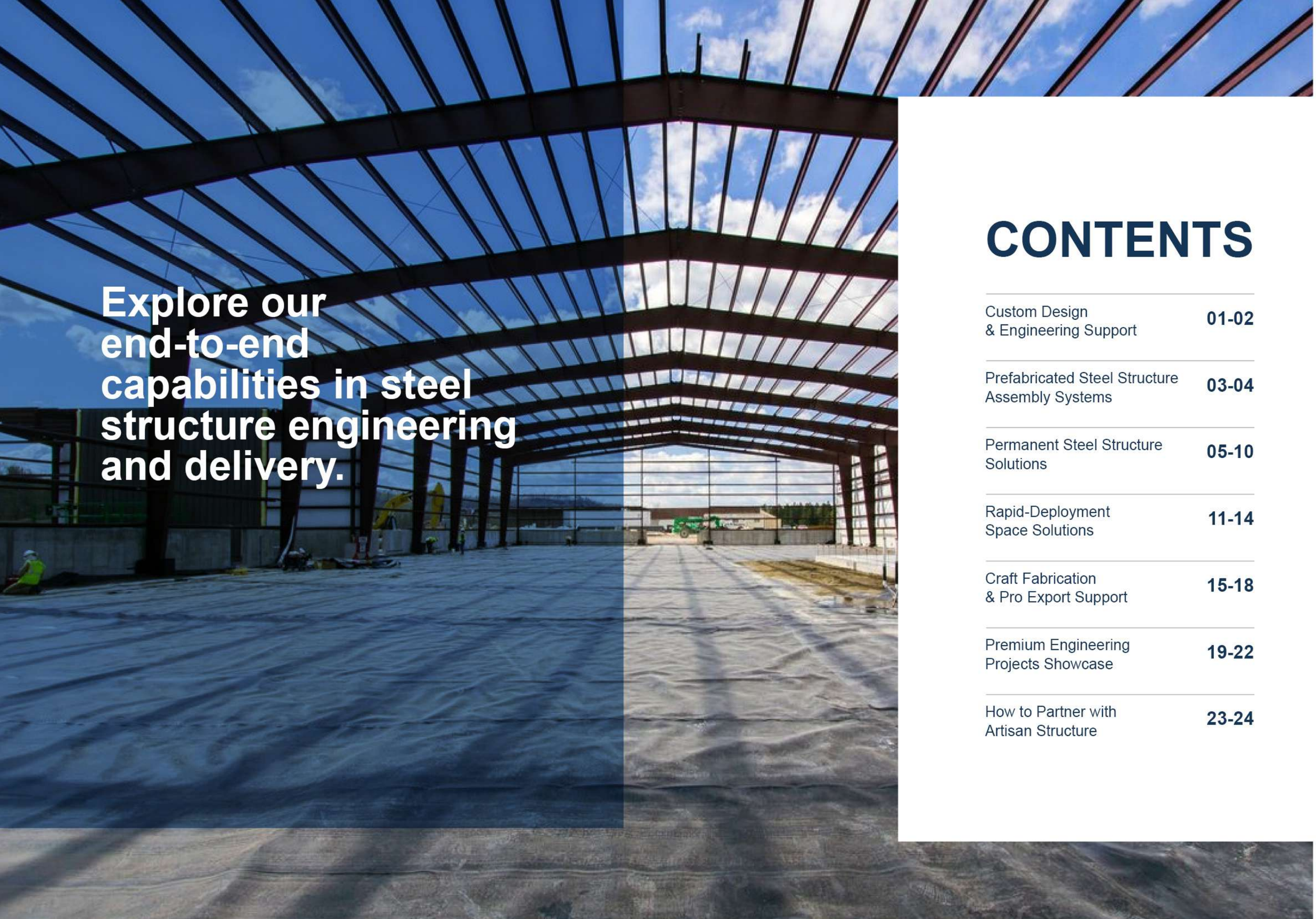
Engineering-Driven Steel Structure Solutions

From Custom Engineering Design to Global Project Delivery



Explore our end-to-end capabilities in steel structure engineering and delivery.

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Custom Design & Engineering Support

Full-Process Technical Support for Steel Structure Projects

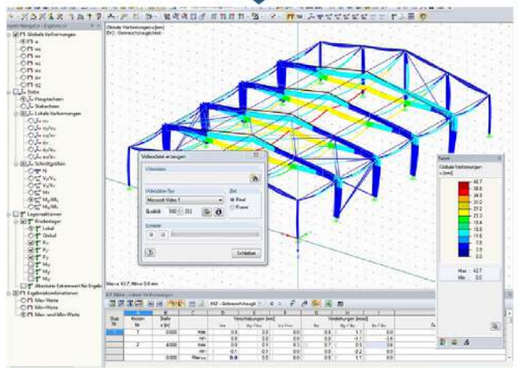
With full-process technical support capability as the core, our team leverages internationally advanced BIM 3D design tools to deliver tailored solutions. We integrate professional software simulation with rich practical experience, providing proactive technical support throughout the design process to ensure safe, efficient and code-compliant outcomes.

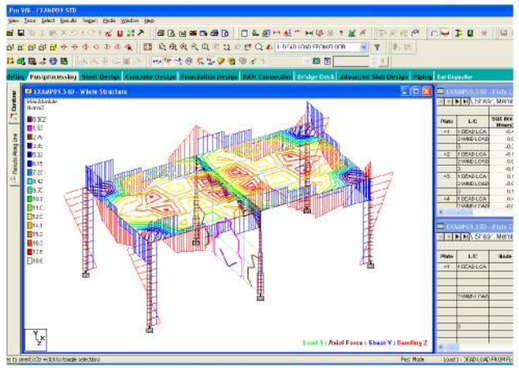
Core technical features

- **Revit-Based Custom 3D Concept Design**
  Provide visual and efficient pre-project technical communication support based on project requirements and usage scenarios
- **Professional Structural Technical Analysis & Optimization**
  Rely on 3D3S, PKPM, SAP2000, Midas and other professional software to conduct in-depth calculation and technical optimization of wind load, snow load and seismic resistance, ensuring structural safety and reliability
- **Integrated Deepening Design with BIM Technical Support**
  Achieve integrated node deepening and shop drawing design through Tekla, Rhino, 2D/3D AutoCAD, compatible with BIM 3D modeling, and provide full-component visualization technical support
- **Core Technical Support for Complex Projects**
  Empower complex and non-standard steel structure projects with professional engineering technical capabilities
- **Full-Life-Cycle Technical Consultation & Support**
  Deliver continuous technical support and consulting services from project initiation, design, construction to operation and maintenance
- **Technical Compliance Support with International Standards**
  Provide design adaptation technical support to meet local building regulations and global industry norms
- **BIM-Driven Cross-Departmental Collaborative Technical Support**
  Realize efficient information sharing through BIM technology, supporting seamless connection between design, manufacturing and construction teams
- **Cost-Optimization Technical Solutions**
  Provide precise simulation-based technical schemes to balance structural performance and economic efficiency

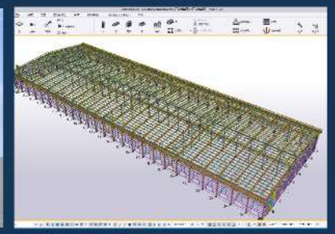
A Architectural Scheme Design
3D visualization of BIM model

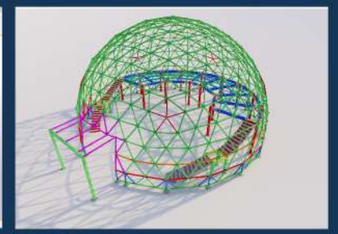
B Building Structure Design
Professional mechanical analysis and verification

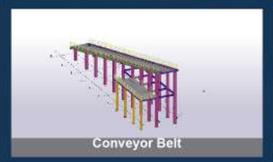




Detailed Design Of C-shaped Steel Structure
3D visualization of BIM model






Conveyor Belt


Crane Beam Workshop


Framework


Coal Loading

Prefabricated Steel Structure Assembly Systems

Standardized Structural Systems for Customized Projects

Our prefabricated building system redefines modern construction by integrating rapid assembly, precise cost control, and unparalleled structural reliability. It reduces on-site time and uncertainty through factory-controlled modular production, ensuring a predictable, efficient, and high-quality delivery for your project.

Three core systems

01.
Portal Frame System

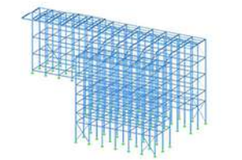
Core Advantages

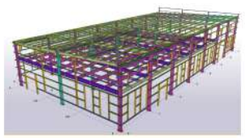
- Cost-effective solution for warehouses & workshops
- Suitable for medium-span industrial buildings
- Fast fabrication and erection

02.
Steel Frame System

Core Advantages

- Multi-story or heavy-load industrial buildings
- Flexible column grid layout
- Suitable for equipment-intensive facilities

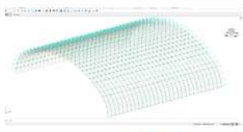


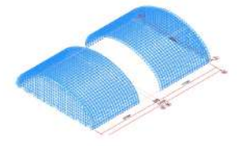


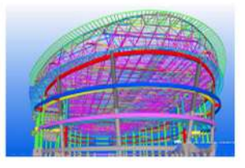
03.
Space Frame System

Core Advantages

- Large-span roof structures
- Stadiums, exhibition halls, terminals
- High structural efficiency and architectural freedom







Customized Solutions for Steel Buildings

Steel Warehouse Buildings Portal Frame System

Efficient & cost-effective storage solutions

Steel warehouses from" ArtisanStructure" are engineered for optimal storage efficiency and rapid deployment. Our designs maximize clear interior space, accelerate construction timelines, and are easily adaptable to diverse logistical needs, from bulk storage to distribution centers.

- Optimized space utilization
- Quick construction cycle
- Adaptable to different storage needs

Each solution is engineered based on project requirements, local codes, and operational needs. Every building is a testament to our commitment to structural integrity and client success.

Steel Workshop & Factory Buildings Portal Frame System

Industrial steel buildings with crane systems

Our industrial workshops are built to withstand heavy loads and dynamic operations. We integrate crane runways and optimize column grids to support heavy machinery, ensuring a safe, durable, and flexible environment for seamless production.

- Heavy-load bearing capacity
- Crane system integration
- Flexible production layout

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Steel Hangar Buildings
Portal Frame System / Steel Frame System

Steel hangar solutions for aviation & industry

We deliver hangar solutions that meet the stringent demands of aviation and heavy industry. Featuring high clearances, wide spans, and superior corrosion protection, our designs facilitate efficient aircraft or large-equipment maintenance and storage.

- High clearance design
- Aircraft maintenance compatibility
- Durable & corrosion-resistant

Each solution is engineered based on project requirements, local codes, and operational needs. Every building is a testament to our commitment to structural integrity and client success.

Steel structure exhibition hall building
Portal Frame System / Steel Frame System

Architectural solutions suitable for public buildings and commercial exhibition halls

We specialize in multi-storey steel-framed supermarkets and exhibition halls. Our steel structures offer large usable space, robust load-bearing capacity, aesthetic appearance, and flexible design, making them ideal for high-density retail areas and dynamic exhibition environments.

- Multi-storey steel frame
- Large usable space
- High load-bearing capacity
- Flexible & aesthetic design

Each solution is engineered based on project requirements, local codes, and operational needs. Every building is a testament to our commitment to structural integrity and client success.

Large-span Steel Structures Stadiums Portal Frame System / Space Frame System

Large-span steel structure venue / stadium

We specialize in creating expansive, column-free spaces. Our large-span structures combine engineering precision with architectural elegance, providing robust, weather-resistant solutions for facilities where uninterrupted space and visual impact are paramount.

- 30m+ span capability
- Wind & seismic resistance
- Architectural aesthetics
- No middle pillars





Each solution is engineered based on project requirements, local codes, and operational needs. Every building is a testament to our commitment to structural integrity and client success.

Large-span Steel Structures Storage Shed Space Frame SystemCN

Large-span steel structure coal shed / storage shed

We specialize in ultra-large-span storage sheds and coal storage sheds, typically meeting requirements for spans of 60 meters or more and massive material storage capacities. Our systems feature exceptionally low steel consumption and highly cost-effective construction, while maintaining structural integrity and weather resistance.

- 60m+ ultra-large-span capability
- Low steel consumption
- Cost-effective construction
- Large storage capacityCN






Each solution is engineered based on project requirements, local codes, and operational needs. Every building is a testament to our commitment to structural integrity and client success.

Modular & Versatile Temporary Structures

Modular Container Houses

Fast-deployed modular building systems

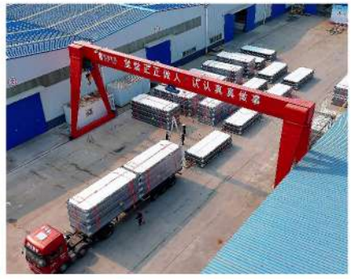
Our modular container units offer a perfect blend of mobility, durability, and immediate usability. Ideal for remote or temporary sites, they can be rapidly deployed and reconfigured as fully functional offices, camps, or accommodations, reducing setup time and cost.

Application scenarios

- Site camps
- Offices
- Accommodation

Packing Box

Z-shaped Packing Box



Foldable House

Aluminum Alloy Tent Structures

Lightweight & temporary space solutions

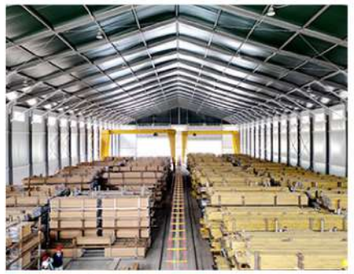
Lightweight, strong, and rapidly deployable, our aluminum alloy tent structures provide versatile temporary cover for events, storage, or emergency response. They offer a cost-effective and flexible space solution that can be installed and dismantled with ease.

Application scenarios

Events

Storage

Emergency use













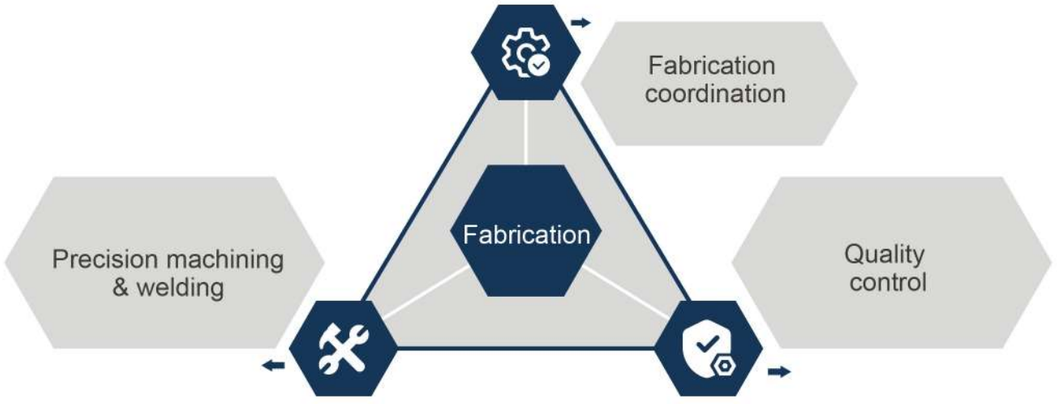


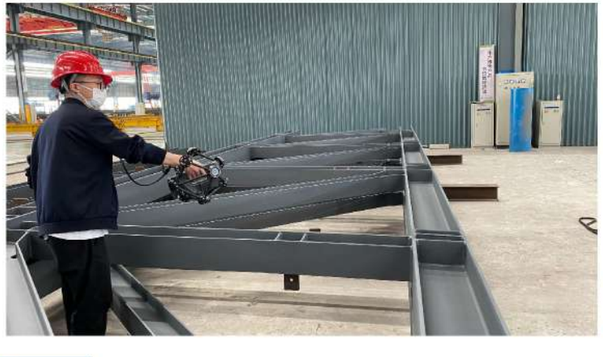


Craft Fabrication & Pro Export Support

Global Delivery from Factory to Your Project Site

Manufacturing and Quality Control





From intelligent cutting to robot welding, our highly automated production process is designed to achieve the highest levels of speed, strength and precision, ensuring that your steel structures are delivered with shorter construction periods and the highest reliability, thereby saving costs and securing project certainty.

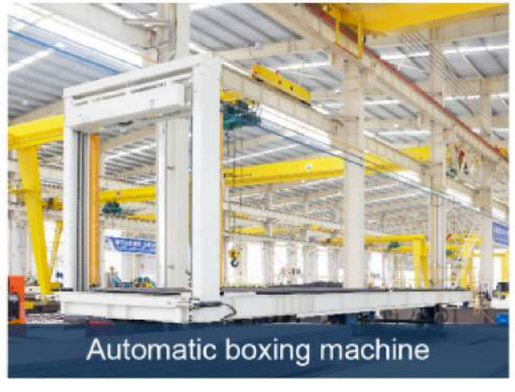

Laser cutting machine


CNC flame cutting machine

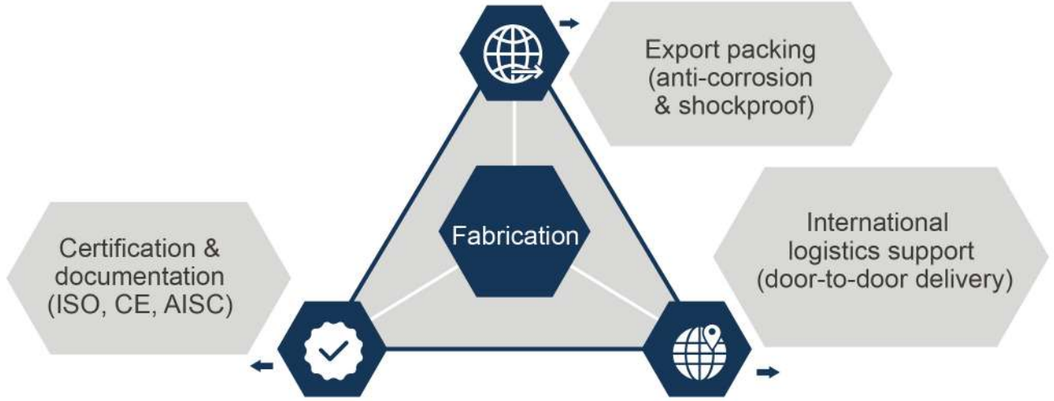

Robot automatic welding


Shot blasting rustremover machine


Arc welding with automatic feeding


Automatic boxing machine

Export and Logistics



Premium Engineering Projects Showcase

01. Elevated Logistics Warehouse

- **Project Location**
  Toronto Logistics Hub, Ontario, Canada
- **Project Scale**
  Length 200 meters × Width 65 meters × Eave Height 13 meters, Building Area 13,000 square meters
- **Construction Period**
  February 2024 – August 2024 (Approximately 7 months)
- **Structural System**
  Prefabricated Metal Building System, Structural Steel Weight Approximately 780 Tons, Unit Area Steel Weight Controlled at 60 Kilograms/Square Meter.
- **Core Achievement**
  Structural optimization based on load paths, achieving an increase in material efficiency of approximately 15%. Provide a complete set of technical support including welding process assessment (CSA W47.1/W59) and manufacturer certification (CWB) to ensure full compliance with Canadian standards.

Technical Highlights

Super-long Frame Straightness Control	High-precision prefabrication and strict installation, cumulative error within 200 meters controlled within ±10 millimeters.
Digital Construction Efficiency Enhancement	Collaborative design based on BIM (Revit/Tekla) and mobile site management, reducing rework and improving installation efficiency.
Comprehensive Technical Compliance Support	From design, material certification to construction documents, provide full process engineering support in accordance with Canadian CSA standards.

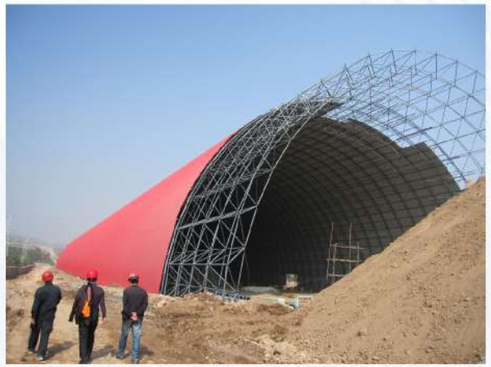
02. Lightweight Industrial Factory

- **Project Location**
  Lincharan Industrial Park, Chonburi Province, Thailand
- **Project Scale**
  Length 100 meters × Width 30 meters × Eave Height 10 meters, Building Area 3,000 square meters
- **Construction Period**
  May 2023 – November 2023 (Approximately 7 months)
- **Structural System**
  Prefabricated modular steel frame structure, approximately 120 tons of structural steel used, unit area steel usage controlled at 40 kilograms per square meter.
- **Core Achievement**
  Through optimization of component sections and joints, steel usage was reduced by 8-10% compared to the initial plan.

Technical Highlights

Component Transportation and Assembly Precision	Large components are transported in sections, and installation is guided by total station, with the accuracy of key joints controlled within ±3 millimeters.
Enhanced Lateral Stiffness	Targeted support systems and frame design to meet lateral force resistance requirements in strong wind zones.
Cost Optimization Design	Utilization of professional software for structural analysis and section optimization, achieving the most economical use of materials while ensuring safety.

03. Large-span Coal Storage Shell



- Project Location:

Bulk Cargo Storage Area in Tanjong Pera Port, East Java Province, Indonesia

- Project Scale:

Length 280 meters × Span 60 meters × Eave Height 18 meters, covering an area of 16,800 square meters

- Construction Period:

October 2023 – April 2024 (Approximately 7 months)
Main Structure: Bolted ball joint space grid, equipped with an arc-shaped enclosure system. The structural steel usage is approximately 479 tons, and the unit area steel usage is approximately 28.5 kilograms per square meter.

- Core Achievement:

Utilization of high-strength steel and optimization of the grid structure, resulting in a weight reduction of approximately 35% compared to conventional designs.

Technical Highlights:	
Installation Precision Control of the Shell	"Block hoisting combined with high-altitude pole replacement" technology, ensuring that the structural deflection is less than 1/400 of the span.
Excellent Sealing Performance	Customized ultra-long arc-shaped steel plates and continuous sealing, effectively preventing rain and dust.
Complex Spatial Structure Design	Utilization of 3D design software for spatial modeling and force analysis to achieve ultimate material efficiency and structural safety.

04. Rapid Deployment of Modular Construction Camp(Dormitories and Offices)

- Project Location:

A large energy project site in the Krasnoyarsk Oblast, Russia

- Project Scale:

40 standard units (3.0m × 6.0m × 3.0m), combined into a two-story dormitory and office area, with a total area of approximately 1,440 square meters

- Deployment Period:

June 2025 – July 2025 (Field construction and commissioning approximately 6 weeks)

- Main Structure:

Fully finished, transportable steel structure modular units

- Core Achievement:

Completed on-site installation and functional zoning (dormitories/offices) within 6 weeks in a remote construction site condition. The design meets the requirements of the harsh Russian climate and regulations (SP).

Technical Highlights:	
Adaptability to Extreme Weather	Enhanced insulation, anti-corrosion, and heavy-duty wind-resistant connection design to meet the strict local environmental requirements.
Quick Foundation and Leveling	Adjustable steel supports and laser leveling system, completing all box positioning within one week.
Integrated Functions and Rapid Deploymen	The modules are completed with indoor and outdoor decoration and pipeline pre-integration in the factory, ready for on-site hoisting and immediate use, significantly shortening the construction site cycle.

How to Partner with Artisan Structure

Please Choose ArtisanStructure Engineering Capability Makes the Difference

Overseas customer cooperation process

Our Core Strengths

- Full-process BIM Design + Full-life-cycle Technical Services
- Standardized Prefabrication System + Customized Solutions On Demand
- Compliance with Major International Standards
- Global Delivery Services + Refined Cost Managemen

Customer Testimonial

"Artisan's BIM-driven design cut our project cycle by 25% and ensured full compliance with local codes."
—— Canada Logistics Project Team

"The modular camp was deployed in 6 weeks, perfectly adapting to our remote site's harsh climate."
—— Australia Mining Project Partner

"Steel usage optimization reduced our construction costs by 30% without compromising structural safety."
—— Thailand Light Industrial Plant Team

Contact Us

Send us your drawings or project requirements.We will contact you and your team promptly and provide the most professional customized solution.

We look forward to a successful cooperation.