Commercial and Industrial Steel Structure Building Custom Prefab Metal Workshop for Processing Factory Distribution Warehouse and Workshop Construction

Our Product Introduction

Basic Information

- Place of Origin: Hebei,China
- Brand Name: BAODU
- Minimum Order Quantity: 800square meters
- Price: USD26/square meter
- Packaging Details: In General, For Steel Structure , We Use The Steel Frame Packing To Keep Goods Not To Be Broken . For Sandwich Panel And Color Steel Sheet, We Use The Plastic Packing . If The Clients Need Special Packing Will According To Their Requirements.
- Delivery Time: 20days
- Payment Terms: L/C,D/A,D/P,T/T,Western Union,
- Supply Ability: 100000 Square Meter/Square Meters Per Month



Product Specification

- Product Name: Commercial And Industrial Steel Structure Building Custom Prefab Metal Workshop For Processing Factory Distribution Warehouse And Workshop Construction
- After-sale Service: Online Technical Support
- Surface Treatment: Hot Dip Galvanised
- Door: Sliding Door,Rolling Door
- Transport Package: Standard Sea Worthy Package
- Wallmaterial: Steel Panels/Insulated Panels/Brick
- Transport And Load: Container Shipment
- Wall And Roof: Steel Sheet, Sandwich Panel
- Structuretype: Frame
- Process: Welding Techinical
- Color: Customized Color
- Keyword: Light Frame Steel Construction
- Highlight: **custom prefab steel workshop**,

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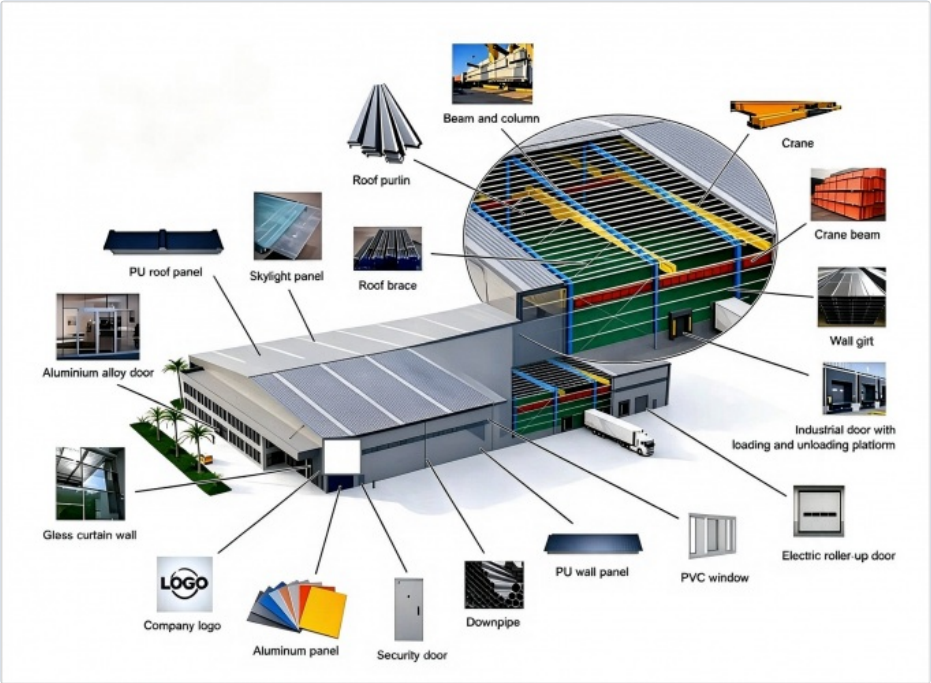
Product Description

This commercial and industrial steel structure building is a versatile PEB (pre-engineered building) metal workshop solution that balances commercial usability with industrial load requirements. It is engineered for processing factories, distribution and logistics warehouses, production workshops, and mixed commercial-industrial premises.



Large-span prefabricated steel structure warehouse with industrial metal cladding.

Component & Material Specifications

Component	Type	Material Specification
Main Steel – Column	Column	Q235 / Q345 welded H-section steel
Main Steel – Beam	Beam	Q235 / Q345 welded H-section steel
Secondary Steel Frame – Purlin	Purlin	Q235 C and Z purlin
Secondary Steel Frame – Angle Brace	Angle Brace	Q235 angle steel
Secondary Steel Frame – Tie Rod	Tie Rod	Q235 circular steel tube
Secondary Steel Frame – Brace	Brace	Q235 round bar
Secondary Steel Frame – Vertical & Horizontal	Vertical / Horizontal	Q235 angle steel, round bar or steel tube
Maintenance System – Roof Panel	Roof Panel	EPS / glass fiber / rock wool / PU sandwich panel
Maintenance System – Wall Panel	Wall Panel	Sandwich panel / corrugated steel sheet
Accessories – Window	Window	Aluminum alloy / PVC / sandwich panel window
Accessories – Door	Door	Sliding sandwich panel door / rolling metal door / personal door
Accessories – Gutter + Downspout	Gutter System	Galvanized + PVC
Accessories – Others	Miscellaneous	Anchor bolts, high-strength bolts, ordinary bolts, self-tapping screws, glass adhesive, fans, skylight panels, etc.

Product Overview

The main frame adopts a Q235B / Q355B H-beam portal frame system. All steel components are pre-cut, pre-drilled, and pre-treated in our factory, and on-site erection relies mainly on high-strength bolted connections with minimal field welding. Designs are customized to your local wind load, snow load, seismic code, equipment layout, storage demand, and budget. The building can be configured with single metal sheets or insulated sandwich panels, and supports light overhead cranes, partition walls, office mezzanines, loading bays, commercial display zones, and logistics access doors.

Core Product Features

Full Customization for Mixed Commercial & Industrial Layouts

There is no fixed standard size. Span, length, eave height, roof slope, door position, window layout, mezzanine, and partitions can all be fully adjusted. Production zones, warehouse storage zones, loading and unloading zones, and front office or commercial reception space can be separated within a single building — ideal for distribution centers handling goods receiving, sorting, and shipping.

PEB Portal Frame with Large Clear Open Space

Wide clear-span design minimizes intermediate columns. The open interior facilitates production line arrangement, pallet racking, forklift circulation, cargo sorting, and temporary commercial display, greatly improving space utilization for processing factories and distribution warehouses.

Flexible Enclosure & Functional Configuration

Multiple wall and roof cladding options are available, including corrugated color steel sheet and EPS, rock wool, or PU sandwich panels. Ventilation fans, roof ventilators, rolling shutters, overhead sectional doors, pedestrian doors, windows, gutters, and lightning protection systems can be matched to your needs. Insulation, fire rating, and dustproof performance are adjusted according to your goods and production process.

Factory Prefabricated, Bolt-On Assembly

All steel members are CNC processed and marked with unique codes. Components are prefabricated in the factory with only bolt assembly required on site, reducing construction waste, shortening the site work cycle, and lowering requirements for local construction teams.

Adjustable Load Capacity to Match Your Business

Structural load cases are calculated individually: light production, general stacking storage, light crane load, and office mezzanine load. This covers most commercial and general industrial scenarios. For heavy cranes or ultra-high concentrated loads, we upgrade to a dedicated heavy steel structure solution.

Reliable Anti-Corrosion & Long Service Life

Two mainstream surface treatment options are offered: an anti-rust paint system or hot-dip galvanizing. Galvanized purlins and girts are standard. The building is suitable for inland industrial parks, suburban logistics zones, coastal commercial areas, and humid processing workshops.

Application Scenarios

Processing Factory

Food processing, packaging workshops, wood processing, textile workshops, and small machinery processing plants.

Distribution & Logistics Warehouse

Regional distribution centers, pallet storage warehouses, freight sorting stations, and goods transit warehouses.

General Industrial Workshop

Assembly workshops, spare parts storage, and factory auxiliary workshops.

Commercial-Industrial Mixed Building

Factory showrooms, sales offices combined with warehouse space, wholesale market storage buildings, and industrial park standard plants.

Export Packaging Standards



Steel structure components packaged to seaworthy export standards with clear labeling.

Seaworthy Export Packing: Main steel beams, columns, and purlins are bundled with steel straps and wrapped in waterproof woven cloth. Wall and roof panels are protected with foam to prevent scratching. Bolts, brackets, and small accessories are sorted into moisture-proof wooden boxes with clear labels. Every component carries an assembly mark number.

Container Loading: Flat-packed design adapts to 20GP / 40GP / 40HQ containers. Packing layouts are optimized to improve container utilization and reduce ocean freight. FCL and LCL shipments are available.

Complete Document Support: Commercial invoice, packing list, mill test certificate, structural drawing, assembly drawing, and English installation manual are provided to support customs clearance and local project acceptance.

Frequently Asked Questions

Q1: What is the difference between this commercial-industrial steel building and a dedicated heavy steel workshop?

This PEB steel building is designed for general industry, processing, logistics distribution, and mixed commercial use. It supports light cranes and normal stacking loads. For heavy-tonnage cranes and heavy concentrated equipment, we recommend a heavy steel structure.

Q2: Can I add an office mezzanine inside the workshop?

Yes. The mezzanine frame, stair, and handrail are designed according to your office area and load requirements during the design phase.

Q3: Can this building be used as a distribution warehouse for fast-moving consumer goods?

Absolutely. We can configure large rolling doors, reserved loading platform structures, ventilation systems, and high-rack load designs to fit sorting and distribution operations.

Q4: What cladding options can I choose?

Single color steel sheet for dry warehouses; insulated sandwich panels (EPS / rock wool / PU) for processing workshops, temperature-sensitive goods storage, and workshops with staff working inside.

Q5: How long is the service life of the main steel frame?

With qualified anti-corrosion treatment and regular maintenance, the main steel frame can reach 30–50 years.

Q6: Can I change the layout after completion?

Yes. Internal non-load-bearing partitions can be adjusted freely. If you plan to add cranes or heavy racks later, the structural capacity must be rechecked.

Q7: Do you provide installation service?

We supply full drawings, an installation manual, and online technical guidance. An overseas installation team can be arranged upon special request.

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