

Portal Steel Frame Manufacturing Plant Industrial Production Workshop Eave Trim System Pre-processed Steel Members Site Bolt Connection

Our Product Introduction

Basic Information

- Place of Origin: Hebei, China
- Brand Name: BAODU
- Certification: ISO9001, CE
- Model Number: Steel Warehouse
- Minimum Order Quantity: Discussible
- Price: Reasonable
- 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: 21 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union,
- Supply Ability: 10000 Square Meter/Square Meters per Month



Product Specification

- Product Name: Portal Steel Frame Manufacturing Plant Industrial Production Workshop Eave Trim System Pre-processed Steel Members Site Bolt Connection
- Surface Treatment: Hot Dip Galvanised Or Painted
- Drawing Design: SAP2000/AutoCAD /PKPM /3D3S/TEKLA
- Window: Aluminum Alloy Window, Plastic Steel
- Type: Light Steel Structure
- Frame: Steel Frame With Welded Joints
- Roof Cladding: Steel Sheet + Sandwich Panel
- Drawing Design: Customers' Request
- Capacity: Customer's Requirements
- Load capacity: Designed To Withstand Heavy Loads And Snow
- Highlight: **Portal steel frame manufacturing plant, Industrial steel workshop eave trim, Prefab steel warehouse bolt connection**



More Images



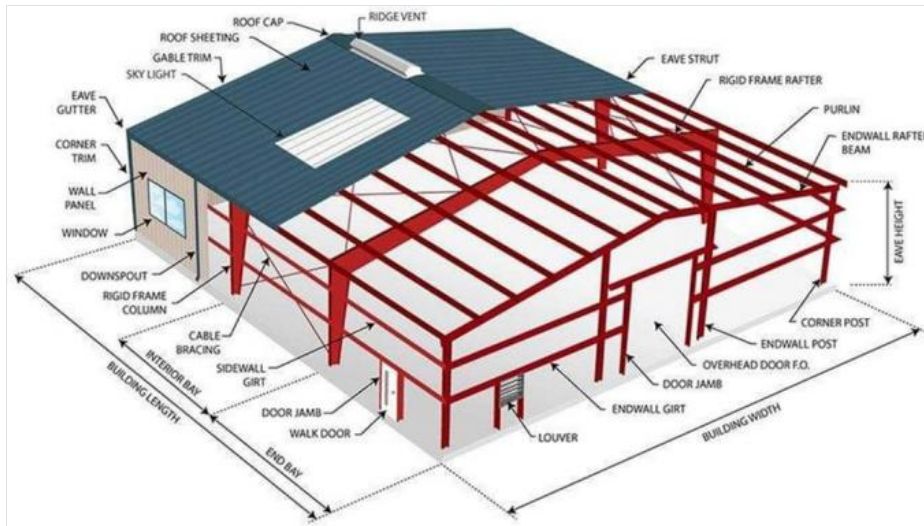
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Product Description

Portal Steel Frame Manufacturing Plant

This industrial production workshop features a complete eave trim system with pre-processed steel members and site bolt connection technology for superior performance and durability.



Product Overview

This **portal steel frame manufacturing plant and industrial production workshop** is a standard rigid-frame industrial building optimized for modern factory construction. Adopting classic portal rigid frame mechanical principles, the structure comprises high-strength pre-processed steel members with standardized factory prefabrication. All on-site connections utilize pure bolt assembly technology without welding operations.

Equipped with a professional **eave trim waterproof and sealing system**, this industrial building effectively addresses common issues in traditional factories such as poor waterproofing, complicated construction, unstable node strength, and short service life. It represents the most mainstream, cost-effective, and high-standard construction solution for medium and large industrial production workshops and manufacturing plants worldwide.

Key Features

Component	Specifications
Project Sample	Steel structure warehouse
Building Size	Customizable (e.g., 78×30×8.5 m)
Steel Column	H(300-550)×200×6×10 mm, steel Q345
Steel Beam	H(300-550)×180×6×8 mm, H 300×180×6×8 mm, steel Q345
Roof Purlin	C180×75×50×2.5 mm
Wall Purlin	C180×75×50×2.5 mm
Cross Support	20 round steel bar, steel Q235
Roof Panel	50/80/100/120/150/200 mm sandwich panel (EPS, PU, Rock wool, Glass wool)
Wall Panel	50/75/100/120/150/200 mm sandwich panel (EPS, PU, Rock wool, Glass wool)
High-Strength Bolts	Grade 10.9

Technical Specifications

For customized steel structure solutions, please provide the following information:

- Location (country, area)
- Building dimensions (Length × Width × Height)
- Maximum wind load (kn/m², km/h, or m/s)
- Maximum snow load (kn/m² or mm)
- Earthquake resistance level
- Brick wall requirements (height if needed)
- Thermal insulation type preference
- Door and window quantities and sizes
- Crane requirements (capacity and lifting height)

Applications

General Manufacturing Plant: Machinery manufacturing, hardware processing, metal forging, equipment assembly and mechanical maintenance factories

Industrial Production Workshop: Light industry production, electronic assembly, textile processing, food processing, building material production

Standard Factory Buildings: Industrial park standardized portal frame factory buildings, medium and large-scale production workshops

Supporting Industrial Facilities: Factory auxiliary workshops, material processing areas, production and storage integrated buildings

Support & Services

Our prefab steel warehouse comes with comprehensive technical support and services to ensure smooth customer experience. Our technical team provides assistance with installation, usage, and maintenance. We offer customized design and engineering services, along with ongoing maintenance and inspection programs to ensure optimal long-term performance.

Project Gallery







Packaging & Shipping

Packaging: All steel components are bundled and secured with steel straps. Roof and wall panels are packed in protective bundles with clear labeling for easy identification.

Shipping: Arranged by supplier with confirmed delivery timelines. Customers handle unloading, and any damages or missing items must be reported within 24 hours of delivery.

Company Profile



Baodu International Advanced Construction Material Co., Ltd, established in 2010, is a leading designer, manufacturer, and exporter of industrial construction solutions. With annual production capacity of 6 million square meters of acoustic sandwich panels and 100,000 tons of steel structures, our products serve over 30 countries worldwide. Our professional team includes senior engineers and technicians with extensive experience in major projects including Beijing Daxing International Airport and international power plant developments.

Frequently Asked Questions

What is the advantage of portal steel frame compared with other steel structures?

The portal rigid frame adopts rigid moment-resisting joints, integrating columns and beams into a unified force-bearing system. It offers larger clear spans, higher structural stability, and better wind/earthquake resistance with lighter self-weight and more economical steel consumption.

What is the function of the eave trim system?

The eave trim system provides core waterproofing and sealing for the factory building. It seals gaps between roof and wall panels, guides

rainwater drainage, prevents wind/rain/dust penetration, and enhances overall building aesthetics.

Why choose pre-processed steel members?

Pre-processed steel members complete all cutting, drilling, and anti-corrosion treatments in the factory with high precision. This eliminates on-site processing errors, improves installation efficiency, ensures perfect component matching, and guarantees structural quality.

Is on-site bolt connection safe and reliable for long-term use?

Yes. We use Grade 10.9 high-strength anti-loosening bolts. The bolted rigid joints are professionally calculated to effectively transfer structural loads and resist long-term vibration and wind pressure, providing higher safety than traditional welding.

Can this portal frame workshop be equipped with cranes and mezzanines?

Absolutely. The standard portal frame structure includes universal connecting positions. We can customize reinforced crane beams, mezzanine floors, ventilation, and fire protection systems to meet specific production requirements.

What is the service life of the whole industrial building?

Pre-processed steel members with hot-dip galvanizing anti-corrosion treatment provide 40-50 years of service life. The durable eave trim system maintains long-term waterproof and sealing performance for stable operation.

Is the construction cycle shorter than traditional buildings?

Yes. With fully pre-processed components and simple on-site bolt assembly, construction cycles are shortened by 60%-70% compared to traditional welded and concrete buildings, enabling faster factory completion and production startup.



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