Custom Light Steel Structure Production Plant Modular Steel Frame Workshop Designed for Factory Poultry House Workshop and Small Industrial Buildings

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: 21days
- Payment Terms: L/C,D/A,D/P,T/T,Western Union,
- Supply Ability: 10000 Square Meter/Square Meters per Month



Product Specification

- Features: Pre Engineered Metal Buildings
- Product Name: Custom Light Steel Structure Production Plant Modular Steel Frame Workshop Designed For Factory Poultry House Workshop And Small Industrial Buildings
- Processing Service: Bending, Welding, Decoiling, Cutting, Punching
- Main Frame: Welded H Steel Beam, Steel Truss
- Life Span: Designed For 50 Years
- Type: Steel Frame Shop Buildings Steel Structure Warehouse
- Connect: Bolt/Weld
- Purlin: Galvanized C Or Z Type Steel
- Main Material: Steel Structure Frames
- Grade: Q235/Q345B
- Dimensions: Customers' Requirement
- Span: 10-50 Meters

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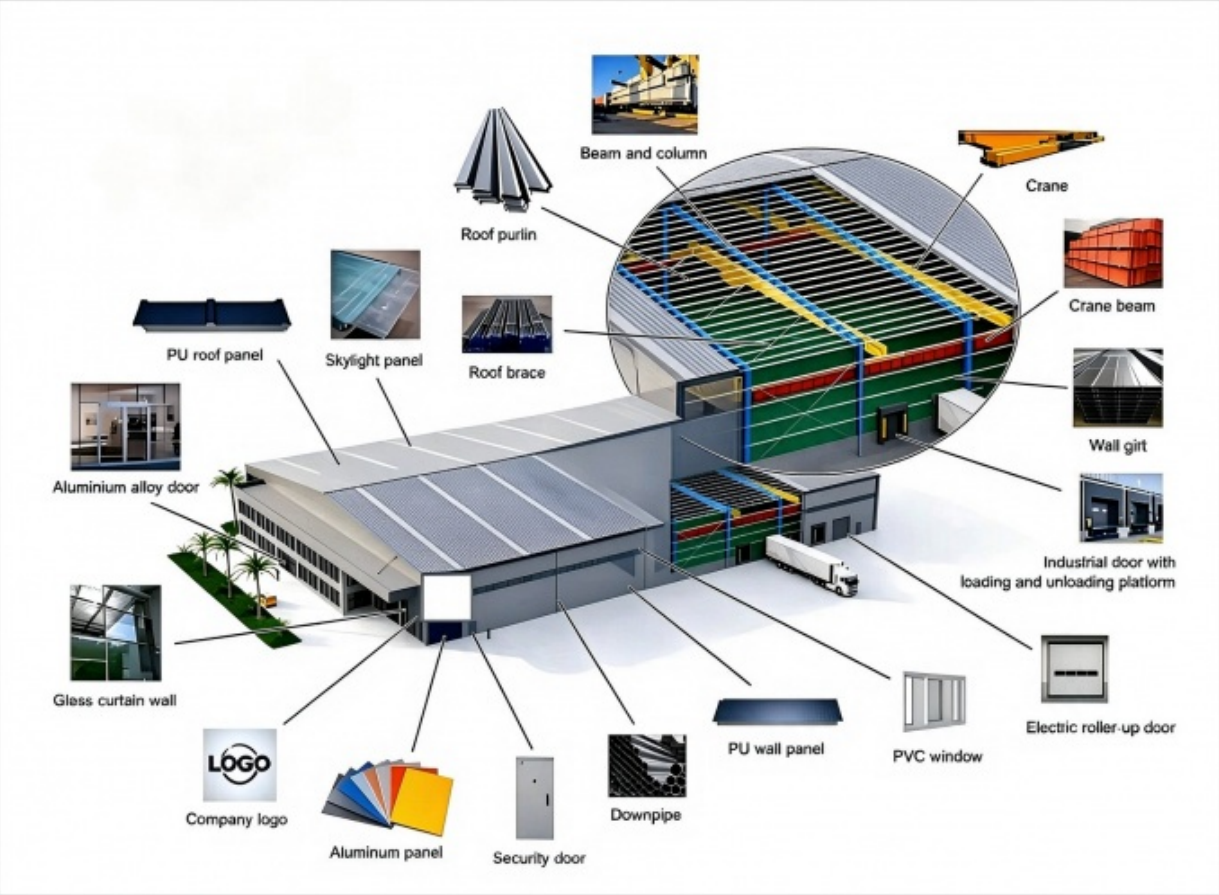
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Product Description

This custom light steel structure production plant is a cost-effective modular steel frame building solution engineered for small and medium industrial and agricultural projects. Built with lightweight galvanized steel members, the entire system is prefabricated in our factory and assembled on site with bolts, balancing low self-weight, simple foundation requirements, flexible layout and reliable weather resistance.

Unlike heavy portal frame steel buildings, this light steel modular workshop is optimized for light manufacturing, small production lines, storage, poultry farming and other small industrial buildings. We tailor the design to your site, local wind and snow loads, ventilation, insulation and sanitation requirements. It performs perfectly as a small factory workshop, poultry house, farm storage shed, processing plant or auxiliary industrial building — ideal for investors with limited budgets and fast delivery demands.

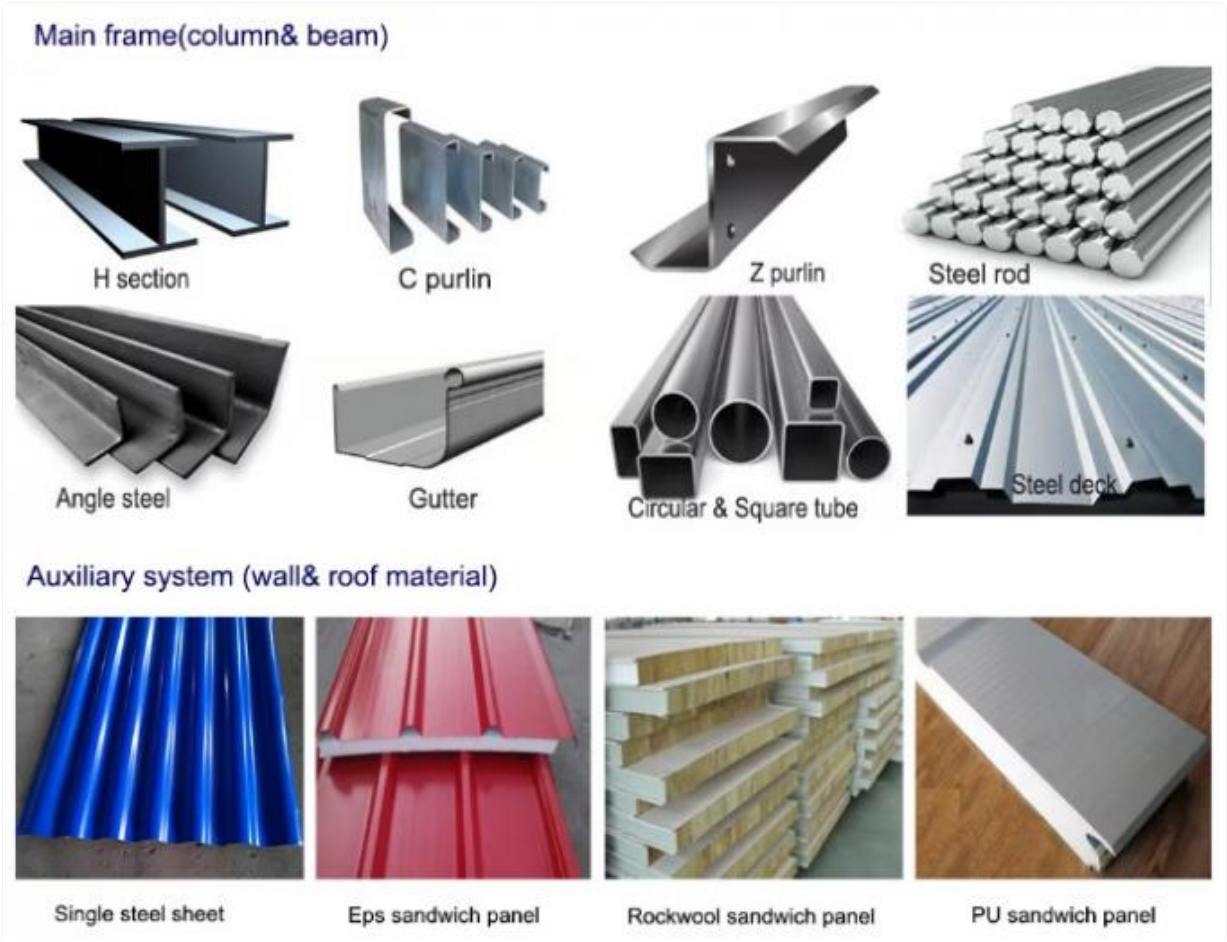


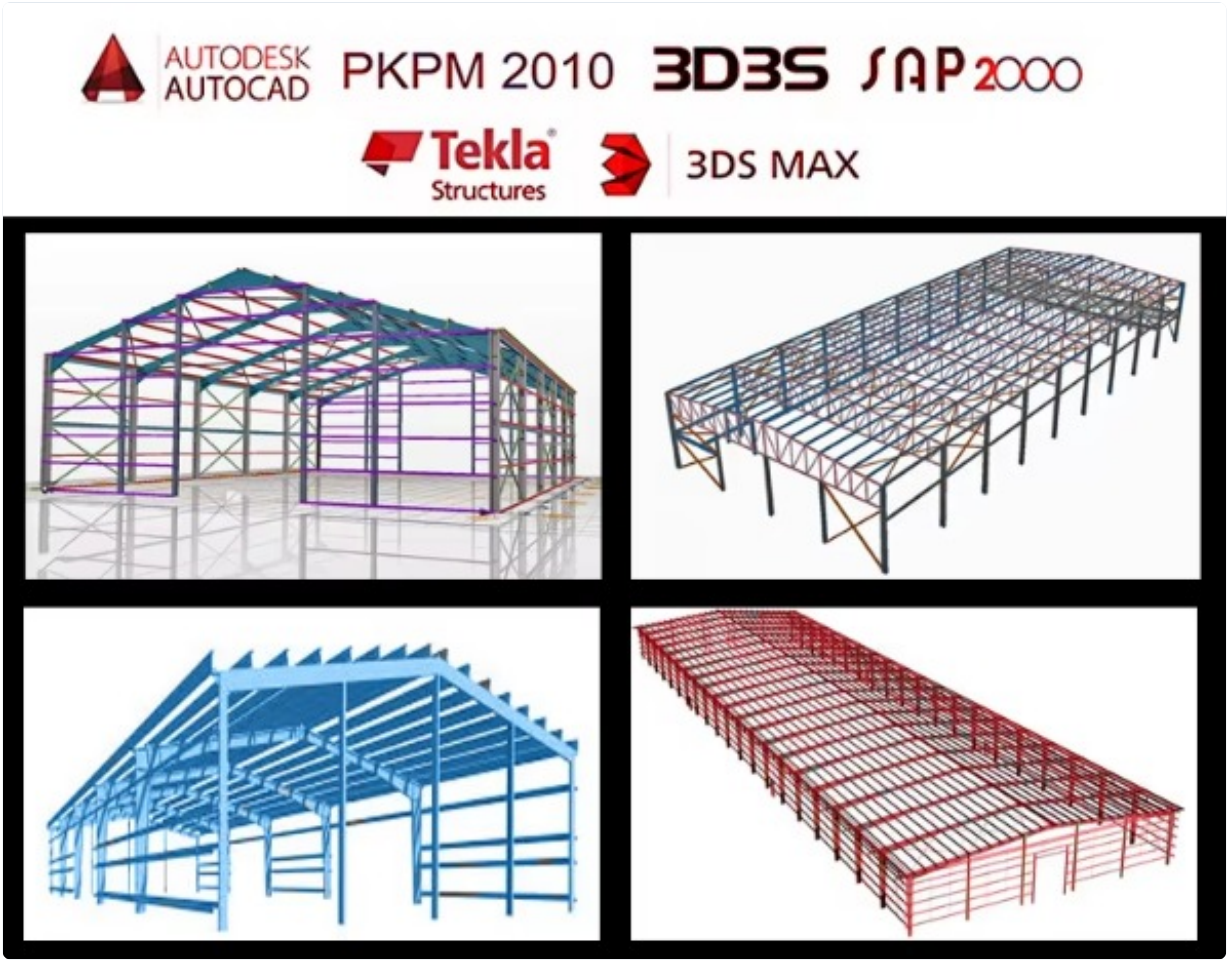
Key Features

- **Cost-effective modular system** — lightweight galvanized steel members with low self-weight and simple foundation requirements.
- **Factory prefabrication** — all components pre-drilled, coded and bolt-assembled on site without complicated field welding.
- **Fully customized design** — tailored to your site conditions, wind and snow loads, ventilation, insulation and sanitation needs.
- **Versatile applications** — suitable for light manufacturing, storage, poultry farming and small industrial buildings.
- **Fast delivery and installation** — ideal for projects with tight schedules and limited budgets.

Material Specifications

Component	Material Specifications
Size	Customized to customer requirements
Main Steel Structure Frame — Column	Q235B (ASTM A36, S235JR), Q355B welded or hot-rolled H-section steel
Main Steel Structure Frame — Beam	Q235B, Q355B (ASTM 572, S355JR) welded or hot-rolled H-section steel
Secondary Frame — Purlin	Q235B, C and Z type steel
Secondary Frame — Knee Brace	Q235B, angle steel
Secondary Frame — Tie Tube	Q235B, circular steel pipe
Secondary Frame — Brace	Q235B, round bar or angle steel
Bracing	Q235B, angle steel, round bar or steel pipe
Roof & Wall Materials	Metal sheet (PE + galvanized + aluminium), sandwich panel, glass wool
Doors & Windows	Rolling up / shutter door, sandwich panel door, stainless steel door, fireproof door; PVC window, aluminium window





Important Note: Steel structure buildings are custom-designed to meet specific requirements. If our example pictures differ from your needs, please provide your building data or drawings. Our team with over 10 years of experience will create exact designs, quotations and renderings for your project.

Applications

Light Production Factory & Workshop: small processing workshop, packaging workshop, assembly workshop, handicraft factory, light manufacturing plant without heavy overhead crane.

Poultry House: broiler house, layer chicken house, breeder house, duck and goose raising shed, fully automatic poultry farm building with ventilation and cooling system.

Small Industrial Buildings: factory auxiliary room, spare parts storage, equipment shelter, small production supporting building, workshop-office combined unit.

Farm Supporting Facilities: grain storage shed, feed warehouse, farm tool shelter, agricultural product preliminary processing house.

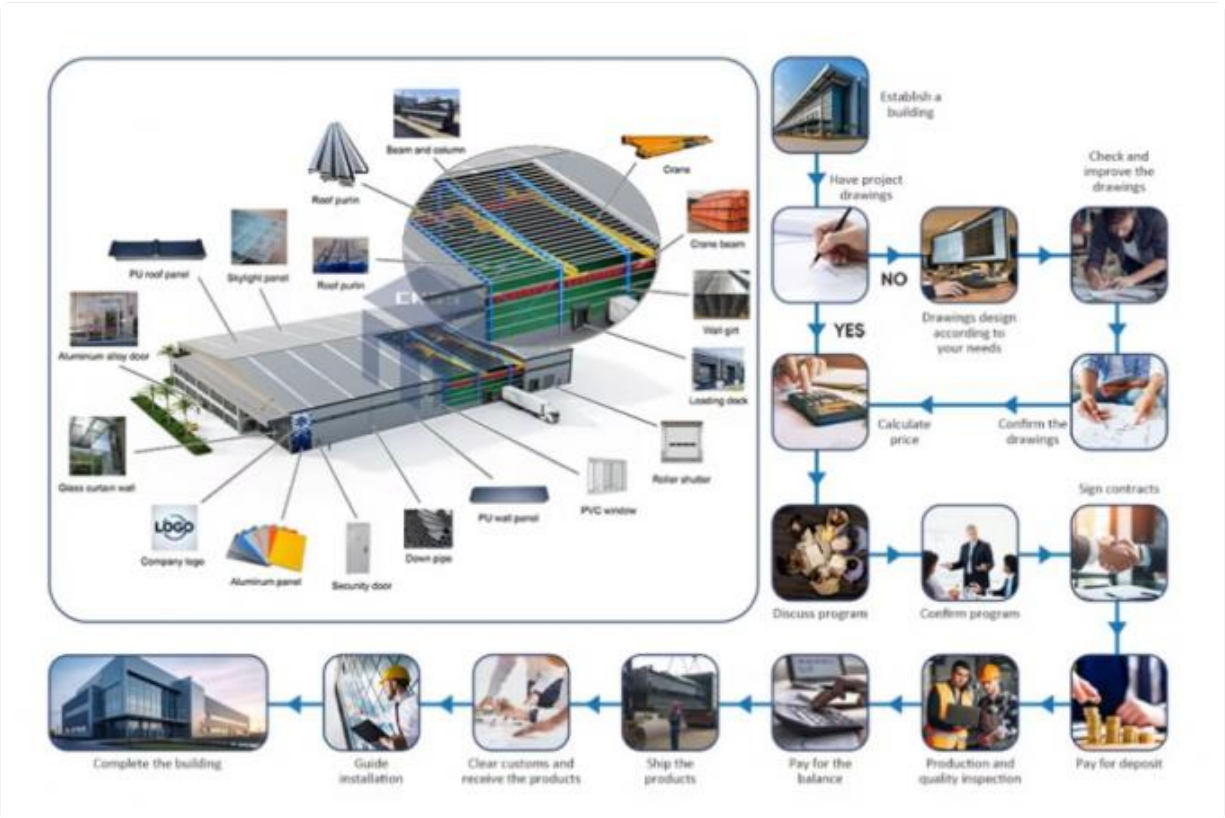


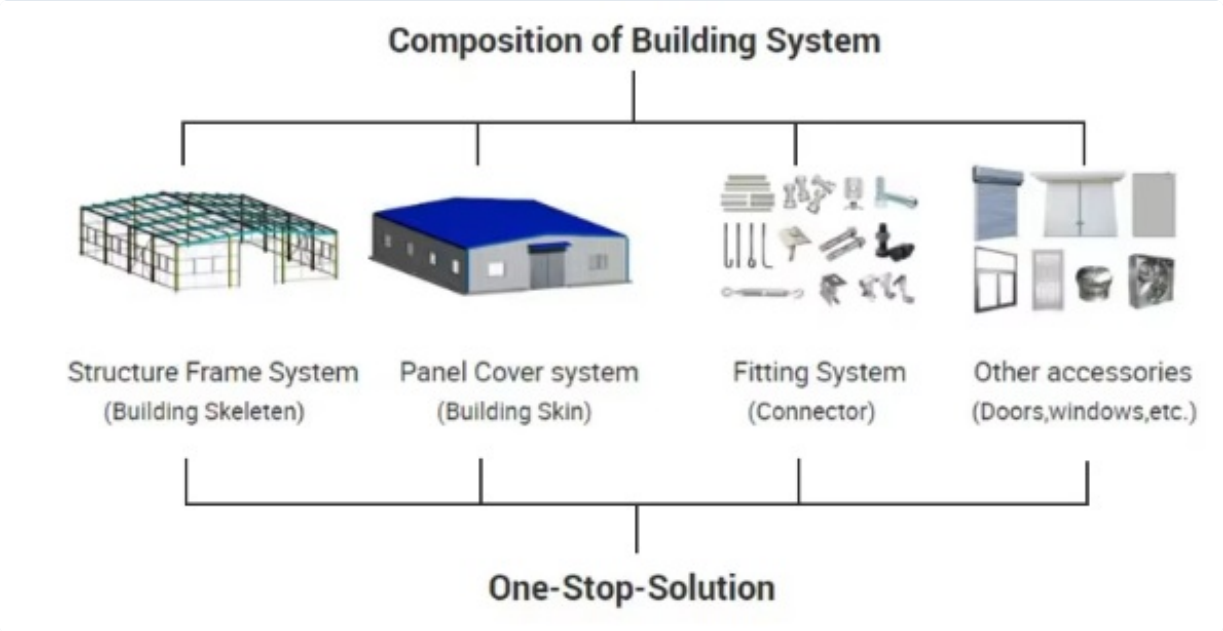






Customization Benefits





Free design and architectural drawings provided

Durability with easy maintenance and a 50-year designed lifespan

Fast and easy assembly with online installation guidance

Elaborate and strong design with high wind resistance performance

Thermal and noise insulation with waterproof and fire prevention properties

Technical Support & Services




Projects in Mongolia
BAODU
FACTORY PRODUCTION LINE AND PACKING
BAODU
STEEL STRUCTUR WAREHOUSE


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Our comprehensive technical support includes installation assistance, troubleshooting guidance, maintenance recommendations, staff training sessions and continuous consultation throughout the structure's lifespan.

Packaging & Global Shipping



1BR1
1BR1
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1BR1
1BR1


BAODU
CE SGS
BAODU
新型防火隔绝金属面绝热夹芯板



Seaworthy Export Packaging

Light steel beams, columns and purlins are bundled with steel straps and wrapped with waterproof woven cloth to avoid scratches and coating damage. Roof and wall panels are packed with foam protection. Bolts, brackets and small accessories are classified, labeled and packed in moisture-proof wooden boxes. Every piece is marked with an assembly number for fast sorting on site.

Flat Pack for Container Shipment

All components are disassembled and flat packed to fit 20GP / 40GP / 40HQ containers. Our packing layout maximizes container utilization and reduces ocean freight. We support FCL and LCL shipment to Africa, Southeast Asia, the Middle East, Latin America and other global markets.

Complete Technical & Customs Documents

We provide commercial invoice, packing list, bill of lading, material test certificate, structural drawing, assembly drawing and English installation manual. These documents support customs clearance and local project inspection.

Project Workflow

1. **Requirement Confirmation & Custom Design** — Confirm usage (workshop / poultry house / small industrial building), size, wind and snow loads, ventilation, insulation and accessory requirements, then issue design drawing and quotation.
2. **Factory Fabrication & QC Inspection** — Steel cutting, drilling, anti-corrosion treatment and strict quality inspection before packing.
3. **Classified Seaworthy Packing & Marking** — Code marking, bundling, waterproof and anti-collision packaging for sea transport.
4. **Shipment & Document Handover** — Arrange loading, send tracking number and hand over the full set of documents.

5 **Remote Installation Guidance** — Provide English drawings and online technical support for the local erection team.

FAQ

Q1: What is the difference between light steel structure and heavy steel portal frame building?

A1: Light steel structure uses lighter section steel, lower self-weight and lower cost. It is suitable for light production, poultry houses and small industrial buildings without heavy cranes. Heavy portal frame is designed for heavy loads and large-span workshops with overhead cranes.

Q2: Can this light steel building be used as a poultry house?

A2: Yes. We specially design poultry house versions with anti-ammonia corrosion, ventilation openings, reserved cooling pad positions, and insulated roof and wall systems, matching modern automatic breeding equipment.

Q3: Can I install an overhead crane inside this light steel workshop?

A3: It is designed for light production. A small light hoist can be considered after structural verification. For heavy-tonnage overhead cranes, we recommend a heavy portal frame steel structure instead.

Q4: What surface treatment options do you offer?

A4: Two main options: multi-layer anti-rust paint, or hot-dip galvanizing. Hot-dip galvanizing is highly recommended for poultry houses and humid coastal areas for better anti-corrosion performance.

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

A5: With hot-dip galvanizing and normal maintenance, the main light steel frame can reach 25–35 years. Enclosure panels need routine inspection according to local climate conditions.

Q6: Is installation difficult for local workers?

A6: Simple bolt assembly with no complicated field welding required. All components are pre-drilled and coded. A local construction team can erect the building following our English drawings and installation manual.

Q7: Can I expand the building later?

A7: Yes. The modular light steel frame supports longitudinal extension. We can reserve connection nodes during initial design for future expansion of the workshop or poultry house.

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