



## Hot expanded seamless steel pipes/Tubes

### Our Product Introduction

#### Basic Information

- Place of Origin: cangzhou
- Brand Name: BaoYang
- Certification: CE & ISO
- Model Number: ASTM/DIN/GB/EN/JIS
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Standard Export Packing
- Delivery Time: 7~30 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union



#### Product Specification

- Name: Seamless Carbon Steel Pipes
- Process: Hot Rolled Cold Rolled Cold Drawn
- Standards: ASTM/DIN/GB/EN/JIS
- Material: Carbon Steel
- Wall Thickness: 1-20mm (0.04 Inch - 0.78 Inch)
- Outer Diameter: 6-2500mm
- Processing Service: Bending, Punching, Cutting
- Usage: Pipeline Transport, Oil/Gas Drilling, Machinery Industry
- Highlight: **en seamless steel pipe, gb seamless steel pipe, en seamless stainless steel pipe**



## Product Description

### Hot expanded seamless steel pipes/Tubes

**Product Description:** Hot Expanded Seamless Steel Pipes/Tubes are manufactured by heating and then expanding steel billets to create a seamless tube with a larger diameter than the original billet. This process improves the grain structure and mechanical properties of the steel, resulting in a uniform wall thickness and enhanced ductility. Hot expansion is particularly useful for producing pipes and tubes with specific tolerances and dimensions that are not readily achievable through standard hot rolling or extrusion processes.

#### Advantages:

**Improved Mechanical Properties:** Enhanced ductility and toughness due to the grain refinement during the expansion process.

**Uniform Wall Thickness:** Consistent wall thickness throughout the length of the tube.

**Custom Tolerances:** Ability to produce pipes and tubes with precise outer diameter and wall thickness specifications.

**Reduced Residual Stress:** The expansion process helps to relieve internal stresses, improving the overall quality of the tube.

**Seamless Construction:** No welds or seams, which can be a source of weakness in welded tubes.

#### Product Standards:

ASTM A53/A53M

ASME SA53

API 5L (for line pipe applications)

EN39100

JIS G3444

DIN 2448/2440

#### Material and Specifications:

**Material:** Typically carbon steel and low alloy steel grades.

**Sizes:** Available in a wide range of diameters and wall thicknesses to meet specific application requirements.

**Lengths:** Supplied in standard lengths, with the option for custom lengths based on customer needs.

#### Mechanical Properties:

**Tensile Strength:** Varies depending on the steel grade but generally ranges from 410 MPa to 690 MPa.

**Yield Strength:** Typically ranges from 240 MPa to 450 MPa, depending on the grade.

**Elongation:** Generally 20-30%, but can vary based on the specific steel grade and processing.

#### Chemical Composition:

**Carbon (C):** Typically ranges from 0.10% to 0.30% for carbon steel grades.

**Manganese (Mn):** Usually up to 1.65%, contributing to the strength and hardness of the steel.

**Phosphorus (P):** Generally limited to a maximum of 0.035%.

**Sulfur (S):** Generally limited to a maximum of 0.035%.

**Silicon (Si):** Typically up to around 0.60%, which can enhance strength and electrical conductivity.

#### Applications:

**Oil and Gas Industry:** Used for pipelines, casing, and tubing in oil and gas exploration and production.

**Pressure Vessels:** Suitable for the construction of pressure vessels and heat exchangers.

**Structural Applications:** Utilized as structural components in building and construction projects.

**Mechanical Engineering:** Employed in the manufacturing of various mechanical parts and equipment.

**Transportation:** Used in the automotive and aerospace industries for structural and mechanical components.

**Piping Systems:** Ideal for high-pressure piping systems in industrial plants and for the transport of fluids.

**Refineries and Chemical Plants:** Used in the construction of equipment that operates under high pressure and temperature.

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# PRODUCT DISPLAY

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**Company Profile**

# BAOYANG · CHINA COMPANY INFORMATION

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## Cangzhou BaoYang Pipe Industry Co., Ltd

Cangzhou Baoyang Pipe Industry Co., Ltd. is located in the Hope New Area of Mengcun County, Hebei Province, China's pipeline equipment base. It is an enterprise that integrates spot storage of steel pipes, production of pipe fittings, and sales and exports. Our company mainly operates seamless pipes made of special materials, and has long-term good cooperative relationships with major steel mills such as Tianjin Seamless, Hengyang Hualing, Yantai Lubao, Inner Mongolia Baosteel, Shanghai Baosteel, Jiangsu Chengde, Anhui Tianda, etc. Our products are widely used in pipeline engineering fields such as petroleum, petrochemical, chemical, natural gas, thermal power, boilers, etc

**Factory Tour**

## Factory Picture

Cangzhou Baoyang Pipeline Co., Ltd



team introduction



## OUR FRIENDS



### Applications

## BAOYANG · CHINA APPLICATION SCENARIOS



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