



## En8d Hydraulic Seamless Pipe J524 Hydraulic Tubing Automobile

### Our Product Introduction

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#### Basic Information



#### Product Specification

- Name: Hydraulic Seamless Pipe
- Section Shape: Round
- ID Tolerance: H8, H9
- OD Treatment: Machining+Polishing
- WT: 3-150mm
- Length: According To Customer Requirement
- Usage: Hydraulic/Automobile Pipe, Machinery Industry, Mining, Special Purpose
- Technique: Hot Rolled, Cold Drawn, Cold Rolled
- Highlight: **sae j524 hydraulic tubing, sae j524 tubing, en8d seamless pipe**



## Product Description

### Round Seamless Steel Tube For Hydraulic / Automobile Pipe

#### Specification

Material	hydraulic seamless steel tube	Raw Material	Carbon steel
Material type	Seamless	Surface Treatment	Bk, Nbk, Bks, etc
MOQ	1 ton	Warranty	12month
Production Capacity	24000tons/years	HS Code	7304319000
Section Shape	Round	Usage	Hydraulic/Automobile Pipe, Machinery Industry, Mining, Special Purpose
Bore Roughness	Ra0.25um Max	Wall thickness	3-150mm
OD Treatment	Machining+Polishing	ID Tolerance	H8, H9
Bore Treatment	Honing, Skiving&Roller Burnishing	Transport Package	Standard Export Packing or Customized Packing

#### Mechanical properties

Steel grade	tensile strength (6b N/mm2)	Yield strength (6s N/mm2)	Elongation (δ%)	Hardness (HB)
20#	≥520	≥470	≥12	175
45#(CK45)	≥600	≥520	≥12	207
16Mn(ST52)	≥600	≥520	≥12	190
25Mn	≥600	≥510	≥15	195
27SiMn	≥800	≥720	≥10	230

#### Product Description

Processing form	Cylinder ID (mm)	length (m)	Straightness (mm/m)	Tolerance on ID	Roughness (μm)
Cold drawn	30-250	≤13m	0.2-0.5	H9-H11	0.8-1.6
Precision rolling	40-800	≤13m	0.2-0.3	H7-H9	0.2-0.4
Honing	40-800	≤7m	0.2-0.3	H7-H9	0.4-0.8
Burnished	40-400	≤7m	0.2-0.3	H8	≤0.4

#### Dimension Tolerance

Size of ID (mm)	ID Tolerance					Tolerance of wall thickness
	H7	H8	H9	H10	H11	
30	+0.021 0	+0.033 0	+0.052 0	+0.084 0	+0.130 0	±5%
>30-50	+0.025 0	+0.039 0	+0.062 0	+0.100 0	+0.160 0	
50-80	+0.030 0	+0.046 0	+0.074 0	+0.120 0	+0.190 0	
80-120	+0.035 0	+0.054 0	+0.087 0	+0.140 0	+0.220 0	
120-180	+0.040 0	+0.063 0	+0.100 0	+0.160 0	+0.250 0	
180-250	+0.046 0	+0.072 0	+0.115 0	+0.185 0	+0.290 0	
250-315	+0.052 0	+0.081 0	+0.130 0	+0.210 0	+0.320 0	
315-400	+0.057 0	+0.089 0	+0.140 0	+0.230 0	+0.360 0	

#### Features of hydraulic seamless pipes:

**Seamless Construction:** Hydraulic seamless pipes are manufactured using a seamless process, which means they are produced without any welded joints along their length. This seamless construction eliminates the risk of weak points or potential leakage, ensuring a reliable and durable hydraulic system.

**High Strength:** Hydraulic seamless pipes are designed to withstand high-pressure applications. They are made from materials such as carbon steel, stainless steel, or alloy steel, which offer excellent strength properties. This high strength enables the pipes to handle the demanding hydraulic forces and pressures without deformation or failure.

**Corrosion Resistance:** Hydraulic seamless pipes are often coated or made from corrosion-resistant materials to withstand the harsh operating environments commonly encountered in hydraulic systems. The coatings or materials protect the pipes from corrosion caused by hydraulic fluids, moisture, chemicals, and other corrosive elements.

**Smooth Internal Surface:** Hydraulic seamless pipes undergo honing or other surface finishing processes to achieve a smooth internal surface. The smoothness reduces friction and turbulence within the pipe, facilitating efficient fluid flow and minimizing pressure drop. It also helps prevent the accumulation of debris or contaminants that could affect the performance of hydraulic components.

**Compatibility with Hydraulic Fluids:** Hydraulic seamless pipes are designed to be compatible with a wide range of hydraulic fluids, including mineral oil-based fluids, synthetic fluids, and water-based fluids. They exhibit excellent resistance to degradation, swelling, or deterioration when exposed to hydraulic fluids, ensuring long-term performance and reliability.

#### Applications of hydraulic seamless pipes include:

**Construction Machinery:** Hydraulic systems are integral to construction machinery, including excavators, bulldozers, cranes, and loaders. Hydraulic seamless pipes are used to carry hydraulic fluid to power the various hydraulic components and enable

precise control of movements and heavy lifting.

**Industrial Machinery:** Hydraulic systems are found in a wide range of industrial machinery, such as machine tools, presses, injection molding machines, and material handling equipment. Hydraulic seamless pipes are used to transmit hydraulic fluid to actuate different components and perform various functions, such as clamping, bending, cutting, and lifting.

**Agricultural Equipment:** Hydraulic systems are crucial in agricultural machinery, such as tractors, combines, and harvesters. Hydraulic seamless pipes enable the operation of hydraulic implements, such as loaders, backhoes, and hydraulic lifts, used for tasks like lifting heavy loads, adjusting equipment height, and controlling attachments.

**Automotive Industry:** Hydraulic seamless pipes are employed in automotive applications, particularly in braking systems and power steering systems. They carry hydraulic fluid to actuate the brake calipers or wheel cylinders in hydraulic brakes and assist in steering control through hydraulic power steering systems.

**Aerospace and Aviation:** Hydraulic systems are vital in aircraft for functions like landing gear operation, wing flap actuation, and control surfaces movement. Hydraulic seamless pipes are used to transport hydraulic fluid to different hydraulic actuators and ensure reliable operation in demanding aerospace environments.

**Oil and Gas Industry:** Hydraulic seamless pipes are utilized in oil and gas exploration, production, and refining processes. They are employed for hydraulic fracturing (fracking), well control systems, hydraulic power units, and other hydraulic equipment used in drilling operations and oilfield machinery.

#### **Why Choose us?**

- (1) High quality steel tube with reasonable price.
- (2) Wide excellent experiences with after-sale service.
- (3) Every process will be checked by responsible QC which insures every product's quality.
- (4) Professional packing teams which keep every packing safely.
- (5) Trial order can be done in one week.
- (6) Samples can be provided as your requirements.



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