



108×30 146×20 Steel Tubing Round Hydraulic Honed Pipe 20# CE

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Zhengshen
- Certification: ISO, GOST, CE
- Minimum Order Quantity: 1 T
- Price: USD700-900/Ton
- Packaging Details: Bundle
- Delivery Time: 5-15 days
- Payment Terms: T/T, LC



Product Specification

- Highlight: 108×30 steel tubing round,
146×20 steel tubing round,
Hydraulic honed pipe 20# CE



More Images



Product Description

108×30, 146×20, 194×18 ST52, 20# Honed Pipe Hydraulic Steel Pipe

Hydraulic Steel Pipe

Feature:

Material Range: 20# steel;
Standard: GB3639-83;
Size: 108×30, 146×20, 194×18 and so on;
Products made strictly by domestic and international standards;
Guaranteed weight and quantity;
In time delivery.
Batch Pricing Starting from USD550/Ton.

Cylinder tube generally refers to honed tube, is a high-precision steel pipe material that is processed by cold drawing or hot rolling. Due to the lack of oxidation layer on the inner and outer walls of precision steel pipes, high pressure resistance without leakage, high precision, high smoothness, cold bending without deformation, flaring, flattening without cracks, etc., they are mainly used to produce products of pneumatic or hydraulic components, such as cylinders or oil cylinders, which can be seamless pipes. The chemical components of the grinding tube include carbon C, silicon Si, manganese Mn, sulfur S, phosphorus P, and chromium Cr. We have 4 advanced hot-rolled seamless steel pipe production lines and 4 cold-drawn seamless steel pipe production lines, which can produce steel pipes of various specifications and materials. We can meet your various needs, and provide high-quality products and the most competitive prices. Our products sell well in hundreds of large and medium-sized cities in China, and are exported to India, Thailand, Vietnam, Iran, Turkey, Brazil, Egypt and other countries.

Our Product Introduction

Common Material

10#Steel 0.07~0.13 0.17~0.37 0.35~0.65 ≤0.035 ≤0.035
 20#Steel 0.17~0.23 0.17~0.37 0.35~0.65 ≤0.035 ≤0.035
 35#Steel 0.32~0.39 0.17~0.37 0.35~0.65 ≤0.035 ≤0.035
 45# Steel 0.42~0.50 0.17~0.37 0.50~0.80 ≤0.035 ≤0.035
 40cr Steel 0.37~0.44 0.17~0.37 0.50~0.80 ≤0.035 ≤0.035 0.08~1.10
 25Mn Steel 0.22~0.2 0.17~0.37 0.70~1.00 ≤0.035 ≤0.035 ≤0.25
 37Mn5 Steel 0.30~0.39 0.15~0.30 1.20~1.50 ≤0.015 ≤0.020

Major Advantages

Improve the surface roughness, and the roughness can basically reach around $Ra \leq 0.08 \mu m$.
 Correct roundness and ovality can be $\leq 0.01mm$.
 Improve surface hardness to eliminate stress deformation, and increase hardness by $HV \geq 4^\circ$.
 After processing, there is a residual stress layer, which increases the fatigue strength by 30%.
 Improve the quality of the fit, reduce wear, and extend the service life of the parts, but the processing cost of the parts is actually reduced.

Processing Technology

The cylinder tube is processed by rolling. Because the surface layer has residual pressure stress, it helps to close the surface micro cracks and blocks the expansion of erosion. This improves surface corrosion resistance and can delay the generation or expansion of fatigue cracks, thereby improving the fatigue strength of the quilted tube.

By rolling forming, a cold work hardening layer is formed on the rolling surface, reducing the elastic and plastic deformation of the contact surface of the grinding pair, thereby improving the wear resistance of the inner wall of the grinding tube and avoiding burns caused by grinding. After rolling, the reduction of surface roughness value can improve the fitting properties.

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Rolling Processing Principle

Rolling machining is a pressure finishing process that utilizes the cold plastic characteristics of metals at room temperature to apply a certain amount of pressure to the surface of the workpiece using rolling tools, causing plastic flow of the surface metal of the workpiece and filling it into the original residual low concave valleys, thereby reducing the surface roughness of the workpiece. Due to the plastic deformation of the surface metal being rolled, the surface structure is cold hardened and the grains become finer, forming a dense fibrous structure and a residual stress layer. The hardness and strength are improved, thereby improving the workpiece surface's wear resistance, corrosion resistance, and compatibility. Rolling is a non-cutting plastic processing method.

Therefore, this method can achieve both finishing and strengthening purposes simultaneously, which cannot be achieved by grinding. No matter what processing method is used, refined and uneven tool marks will always be left on the parts' surface, resulting in staggered peaks and valleys.



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