

Round Steel Bar

The round steel is divided into three kinds: hot rolling, forging and cold drawing. It is mainly used to make mechanical parts, seamless tube billets and so on. The specifications of hot rolled round steel are 5.5-250 mm, of which 5.5-25 mm small round steel is mostly supplied by straight bars, usually used as reinforcing bars, bolts and various mechanical parts: hot-rolled round steel larger than 25 mm, mainly used for manufacturing machine parts or seamless steel tube billets.



Hot rolled round steel has many advantages, such as high hardenability, high hardness, good wear resistance and small heat treatment deformation. It is commonly used to make cold work die under heavy load, large production volume and complex shape. But the Q345B low alloy steel is prone to brittleness during its operation. The study shows that the improvement of the morphology and distribution of carbide in Q345B low alloy steel can effectively improve the toughness of the material.

Forged steel refers to the steel that can be made by forging the blank or part. The hot forging process of high sulphur, high copper content or low purity of structural steel is

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poor. Continuous destruction of sulfur free cutting steel due to poor plasticity, high carbon and high alloy steel with high resistance to deformation, not suitable for cold forging or warm forging. In addition to analyzing the technological properties such as deformation capacity and deformation resistance, the study of forging steel should meet the requirements of the performance and cost of the forgings.

With the development trend of high strength, toughness and lightweight, forging industry is pursuing high material utilization, high accuracy, high efficiency, low energy consumption and low cost. The development of forging steel can not be separated from the development of evaluation and application technology. Easy cutting steel and non quenched hot forging, cold forging heat treatment of steel parts is reduced to simplify the process cost, improve production efficiency and energy saving technology of main materials; micro alloying is to improve the strength and toughness of parts and process performance, high performance and low cost effective means of forging.

Our main products include hot rolled/cold drawn/forged round bar. Can do heat treatment according to the customer's needs.

Diameter:6mm- 500mm Length: 1000-12000mm

Standard	Type	Steel Grade
JIS	Carbon Structural Steel	SS400, S10C, S20C, S35C, S45C, S50C
	Alloy Structural Steel	SCr420, SCr440, SCM440, YAW-TEN50
ASTM	Carbon Structural Steel	1010, 1020, 1035, 1045, 1050
	Alloy Structural Steel	5120, 5140, 4140, 8620H, 4130
DIN	Carbon Structural Steel	St37-2, C10E, C22E, C35E, C45E, C50E,
	Alloy Structural Steel	17Cr3, 41Cr4, 42CrMo4, 10CrMo9-10
GB	Carbon Structural Steel	Q235, 10, 20, 35, 45, 50
	Alloy Structural Steel	20Cr, 40Cr, 35CrMo, 42CrMo, 38CrMoAl, 20CrMnTi,
		20CrNiMo, 40CrNiMo, 30CrMnTi, 12Cr1MoV, 20CrMnMo,
		H13, 30CrMnSi, 30CrNiMo



