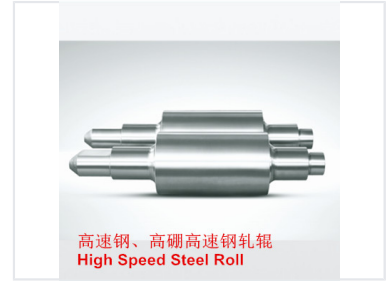


# High Speed Steel Mill Rolls

High speed steel rolls are essential for rolling mills due to their hardness and wear resistance. They are made from high-alloy steel with tungsten, molybdenum, chromium, and vanadium for superior performance.



## Product Overview

### High Speed Steel (HSS) Mill Rolls

High Speed Steel (HSS) rolls are engineered for superior performance in demanding rolling applications. Their microstructure features fine and diffuse MC and M<sub>6</sub>C carbides embedded in a Martensite matrix, providing exceptional wear resistance and thermal fatigue resistance. These rolls are designed to maintain hardness at high temperatures, ensuring consistent and precise shaping of metal products.

## Chemical Composition

### Chemical Composition (%)

Element	Range
C	1.5-2.2
Si	0.3-1.0
Mn	0.4-1.20
Cr	3.0-8.0
Ni	0.5-1.5
Mo	2.0-8.0
V	2.0-8.0
W	0.0-8.0

## Physical Performance

### Barrel Hardness

**60 HSD**

Min Hardness

**90 HSD**

Max Hardness

### Journal Hardness

**35 HSD**

Min Hardness

**45 HSD**

Max Hardness

Tensile Strength 400 Mpa

Hardness Uniformity 3 HSD

Shell Thickness Difference 10 mm

## Product Features

### Key Attributes

Wear Resistant, Thermal Fatigue Resistant, High Thermal Hardness, High-Alloy Steel