

## 1. Carbon steel for mechanical structures

<b>Spec. Name</b>	S10C~S58C, S09CK~S20CK
<b>JIS Spec. Code</b>	JIS G 4051
<b>Application</b>	Car, boats, precise mechatronic parts,...etc.

## 2. Alloy steel for mechanical structures

<b>Spec. Name</b>	SMn420~SMn443, SMnc420~SMnc443, SCr415~SCr440, SCM415~SCM822, SNCM220~SNCM815, Various H steel.
<b>JIS Spec. Code</b>	JIS G 4106, JIS G 4104, JIS G 4105, JIS G 4103, JIS G 4052
<b>Application</b>	Shafts, piston bolt, crank, tools for building, special parts for car, high-strength bolts, gear, rotating shaft, chains, bolts, high-endurance parts,...etc.

## 3. Heat-resistant alloys steel for bolts.

<b>Spec. Name</b>	SNB7, SNB16
<b>JIS Spec. Code</b>	JIS G 4107
<b>Application</b>	Valves of high-pressured container, connecting bolts.

## 4. Spring Steel

<b>Spec. Name</b>	SUP9, SUP9A, SUP12
<b>JIS Spec. Code</b>	JIS G 4801
<b>Application</b>	Spring and torsion bar for cars.

## 5. Sulfur and sulfur compound free cutting steel

<b>Spec. Name</b>	SUM22~SUM43, 1215, 12L14, 1144
<b>JIS Spec. Code</b>	JIS G 4804
<b>Application</b>	Car, sewing machine, precise mechanical parts, OA parts.

## 6. High C. Cr. bearing steel

<b>Spec. Name</b>	SUJ2、SUJ3
<b>JIS Spec. Code</b>	JIS G 4805
<b>Application</b>	Bearing, shaft, bolt pin, mechanical parts.

## 7. Boron steel

<b>Spec. Name</b>	10B21~10B38, 15B23~15B41, S35BC, S40BC, S48BC
<b>Application</b>	High-strength bolts, mechanical parts.

## 8. Free cutting steel for mechanical structures (alloy steel, Pb-series free-cutting steel)

### Pb-series free cutting steel

added mark	Pb(%)
.....L1	0.04~0.09
.....L2	0.10~0.30

### Sulfur-series free cutting steel

added mark	S(%)
.....S0	0.015~0.035
.....S1	0.040~0.070
.....S2	0.080~0.120

## 9. Cr. V Steel

<b>Spec. Name</b>	S32CC5V~S55C4VC, S09CK~S20CK
<b>Application</b>	Hand tool, cutter, screwdriver, structure for precise machine.

## 10. Piano steel wire

<b>Spec. Name</b>	SWRS 62A~SWRS92B
<b>JIS Spec. Code</b>	JIS G 3502
<b>Application</b>	Piano steel wire, PC steel wire, stranded steel wire, oil-tempered steel wire, high-class spring.

## 11. Soft steel wire SWRM

<b>Spec. Name</b>	SWRM 6K~SWRM 22K
<b>JIS Spec. Code</b>	JIS G 3505
<b>Application</b>	Iron wire, coated iron wire, black iron wire, nails, hardware for building, steel wire.

## 12. Hard steel wire

<b>Spec. Name</b>	SWRH 27~SRWH 82B
<b>JIS Spec. Code</b>	JIS G 3506
<b>Application</b>	Steel wire rope, various springs, wire spoke, washers, stranded steel wire.

## 13. Cold forging carbon steel

<b>Spec. Name</b>	SWRCH 6A~SWRCH17R, SWRCH 6A~SWRCH 25A, SWRCH 10K SRWCH12K
<b>JIS Spec. Code</b>	JIS G 3507-1
<b>Application</b>	Various bolt pins, mechanical parts.

## 14. Normal rolled steel for structures

<b>Spec. Name</b>	SS 300~SS 540
<b>JIS Spec. Code</b>	JIS G 3101
<b>Application</b>	Architecture, bolts & nuts of bridge beams and normal mechanical parts.

## 15. Non-tempered steel

<b>Spec. Name</b>	NH45MV, NH48MV, S45CVS1...
<b>Application</b>	For mechanical structure: horizontal drawbar, turning drawbar.

## 16. Ground steel rod

<b>Spec. Name</b>	JIS G 3108
<b>Application</b>	Mechanical parts for cars, boats and others.

Mark	Applicable
SGD A	Mechanical properties guaranty
SGD B	
SGD 1	Chemical properties guaranty
SGD 2	
SGD 3	
SGD 4	