



Wire Rod

线材

宝山钢铁股份有限公司
BAOSHAN IRON & STEEL CO., LTD.



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■ 线材简介

宝钢股份高速线材轧机于1999年3月投产，目前年生产量约57万吨。产品规格 $\phi 5.0-\phi 28.0\text{mm}$ 。主要品种有汽车用弹簧钢、冷镦钢、帘线钢、桥梁缆索用钢、高碳钢、焊接用钢和轴承钢等。

线材原料采用高炉铁水和优质废钢，经过转炉或电炉及精炼工序的纯净钢冶炼技术生产，确保钢质纯净。

钢坯精整线对钢坯表面存在缺陷进行清理，确保钢坯表面质量。

线材生产线的主要设备从美国摩根公司引进，单线无扭连续生产，最大轧制速度为120m/s。采用控制轧制和控制冷却工艺，通过对冷却水箱水量和斯太尔摩线冷却速度的控制可获得产品所期望的组织 and 性能。为保证产品表面质量和尺寸精度，在精轧机组和减定径机组后分别设置了影像探伤仪和测径仪，产品尺寸精度可达0.1mm。

宝钢股份线材采用一贯质量管理方式，对产品从原料入厂直至产品出厂

进行以质量为中心的全过程最优化控制，并借助先进的质量控制方法不断改进产品质量。

宝钢股份汽车用弹簧钢、冷镦钢、帘线钢盘条已稳定用于欧美系、日系汽车品牌。桥梁缆索用镀锌钢丝、特种焊丝盘条在重大工程中获得广泛应用。





Introduction to Wire Rod

The high-speed wire rod mill of Baosteel was put into production in March 1999 and rolls plain rod from 5.0mm to 28.0mm with production capacity of up to 570,000 tons per year. The major products involve spring steel wire rod, cold heading wire rod, wire rod for tire cord, wire rod for bridge main cables, high carbon steel wire rod, welding wire rod, bearing steel wire rod, etc.

Raw materials for wire rod include blast furnace hot metal and high quality scraps. Refining processes after BOF or EAF ensure the cleanliness of steel. The flaws are cleaned up on the billet conditioning line in order to obtain high surface quality.

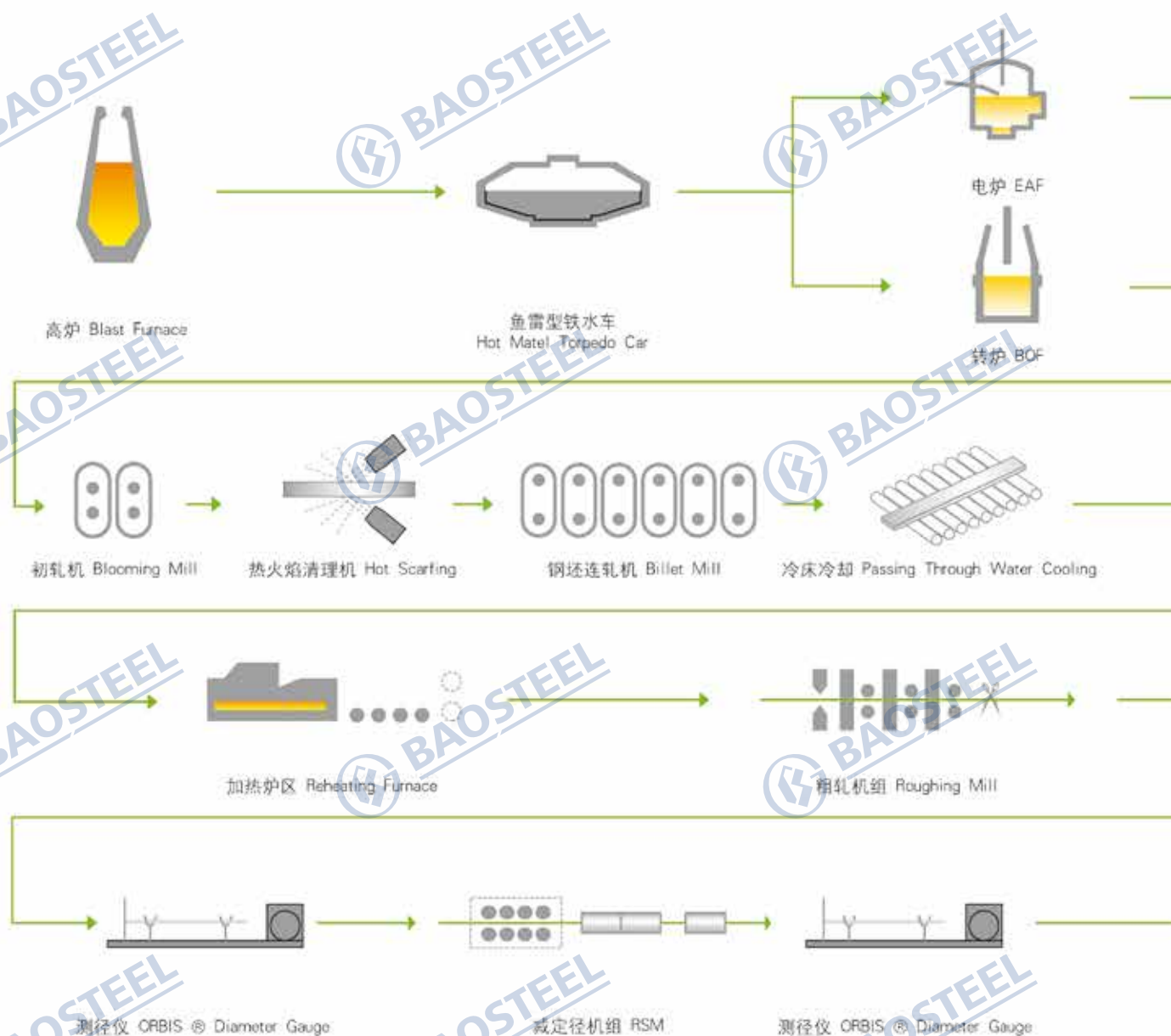
The main rolling equipments of mill are supplied by Morgan Construction Company and the rolling line is single-strand with maximum finishing speed of 120 meters per second. Perfect microstructures and mechanic properties are gained through controlling water boxes and Stelmor Cooling System. In order to ensure accurate diameter with a tolerance of $\pm 0.1\text{mm}$ and high surface quality, one HotEye flaw detector and two ORBIS diameter gauges are located after the No-Twist Finishing Mill and Reducing/Sizing Mill.

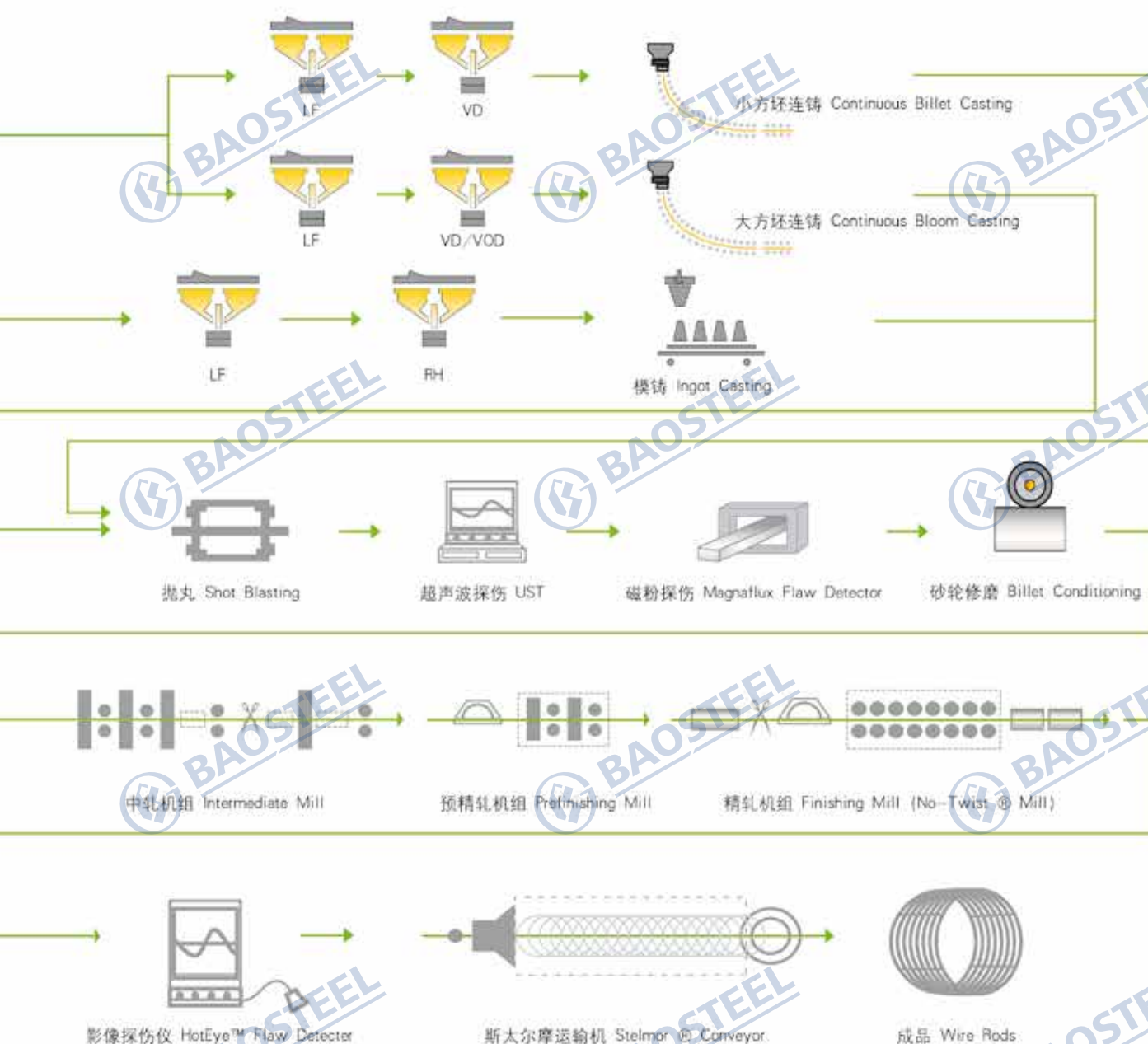
Integrating Quality Control is applied throughout the entire manufacturing pro-

cesses from the handling of raw materials to the delivery of finished products to guarantee full customer satisfaction.

Spring steel wire rod, cold heading wire rod, wire rod for tire cord have been stable used for Europe, American, Japanese car brand. Galvanized wire for bridge cables and welding wire rod have been widely used in many key projects.

Process Flowchart 生产工艺流程图





1、弹簧钢盘条 (Q/BQB 516) Spring Steel Wire Rod (Q/BQB 516)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
50CrVA	0.46-0.54	0.17-0.37	0.50-0.80	≤0.020	≤0.015	Cr:0.80-1.10, V:0.10-0.20 Ni≤0.25, Cu≤0.20
55Cr3 (SUP9)	0.52-0.59	0.15-0.35	0.65-0.95	≤0.020	≤0.015	Cr:0.65-0.95
B55SiCr (SAE9254)	0.51-0.59	1.20-1.60	0.60-0.90	≤0.020	≤0.015	Cr:0.60-0.80 Ni≤0.25, Cu≤0.12
B55SiCr-S	0.54-0.59	1.30-1.60	0.60-0.80	≤0.015	≤0.015	Cr:0.60-0.80 Ni≤0.10, Cu≤0.08
54SiCr6	0.53-0.58	1.30-1.50	0.60-0.80	≤0.015	≤0.015	Cr:0.60-0.80, V≤0.04 Ni≤0.10, Cu≤0.08
B55SiCrV	0.51-0.59	1.20-1.60	0.60-0.80	≤0.020	≤0.015	Cr:0.60-0.80, V:0.15-0.25 Ni≤0.35, Cu≤0.12
60Si2MnA	0.56-0.64	1.60-2.00	0.70-1.00	≤0.020	≤0.015	Cr≤0.35, Ni≤0.35, Cu≤0.20
60Si2CrA	0.56-0.64	1.40-1.80	0.40-0.70	≤0.020	≤0.015	Cr:0.70-1.00
60Si2CrVAT	0.56-0.64	1.40-1.80	0.40-0.70	≤0.015	≤0.015	Cr:0.90-1.20, V:0.10-0.20 Ni≤0.35, Cu≤0.20
BHS2100A*	0.52-0.60	1.30-1.70	0.50-0.90	≤0.015	≤0.015	Cr:0.50-0.90, Ni:0.10-0.60

注 Notes: * 按照协议供货

* According to the technical agreement reached by the Sellers and the Buyers.

2.1、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
C4C	0.02-0.06	≤0.10	0.25-0.45	≤0.020	≤0.020	Al:0.020-0.060
SWRCH6A	≤0.08	≤0.10	≤0.60	≤0.020	≤0.020	Al:≥0.020
SWRCH8A	≤0.10	≤0.10	≤0.60	≤0.020	≤0.020	Al:≥0.020
SWRCH10A	0.08-0.13	≤0.10	0.30-0.60	≤0.020	≤0.020	Al:≥0.020
ML10	0.08-0.13	≤0.10	0.30-0.60	≤0.020	≤0.020	Al:≥0.020

2.1、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
C10C	0.10-0.13	≤0.10	0.30-0.45	≤0.025	0.010-0.025	Cr≤0.07, Mo≤0.02, Al _i :0.02-0.08 Ni≤0.05, Cu≤0.10, Sn≤0.01, N≤0.007
SWRCH12A	0.10-0.15	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _i ≥0.020
SWRCH15A	0.13-0.18	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _i ≥0.020
ML15	0.13-0.18	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _i ≥0.020
ML15Al	0.13-0.18	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _i ≥0.020
SWRCH16A	0.13-0.18	≤0.10	0.60-0.90	≤0.020	≤0.020	Al _i ≥0.020
SWRCH18A	0.15-0.20	≤0.10	0.60-0.90	≤0.020	≤0.020	Al _i ≥0.020
SAE1018	0.15-0.20	≤0.10	0.60-0.90	≤0.020	≤0.020	Al _i ≥0.020
SWRCH19A	0.15-0.20	≤0.10	0.70-1.00	≤0.020	≤0.020	Al _i ≥0.020
SAE1019	0.15-0.20	≤0.10	0.60-0.90	≤0.020	≤0.020	Al _i ≥0.020
SWRCH20A	0.18-0.23	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _i ≥0.020
SWRCH22A	0.18-0.23	≤0.10	0.70-1.00	≤0.020	≤0.020	Al _i ≥0.020
SAE1022	0.18-0.23	≤0.10	0.70-1.00	≤0.020	≤0.020	Al _i ≥0.020
SWRCH10K	0.08-0.13	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
SWRCH15K	0.13-0.18	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
SWRCH17K	0.15-0.20	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
SWRCH20K	0.18-0.23	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
SAE1020	0.18-0.23	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
SWRCH22K	0.18-0.23	0.10-0.35	0.70-1.00	≤0.020	≤0.020	
SWRCH25K	0.22-0.28	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
S10C	0.08-0.13	0.15-0.35	0.30-0.60	≤0.020	≤0.020	
S12C	0.10-0.15	0.15-0.35	0.30-0.60	≤0.020	≤0.020	
S15C	0.13-0.18	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
S20C	0.18-0.23	0.15-0.35	0.30-0.60	≤0.020	≤0.020	
S25C	0.22-0.28	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
S35C	0.32-0.38	0.15-0.35	0.60-0.90	≤0.020	≤0.020	

2.2、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
S38C	0.35-0.41	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
S40C	0.37-0.43	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
S43C	0.40-0.44	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
S45C	0.42-0.48	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
S48C	0.45-0.51	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
S50C	0.47-0.53	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
SWRCH30K	0.27-0.33	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
SWRCH35K	0.32-0.38	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
ML35	0.32-0.39	≤0.20	0.30-0.60	≤0.020	≤0.020	
35	0.32-0.39	0.17-0.37	0.50-0.80	≤0.020	≤0.020	Cr≤0.25, Ni≤0.30, Cu≤0.25
SWRCH38K	0.35-0.41	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
SWRCH40K	0.37-0.43	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
SWRCH45K	0.42-0.48	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
SAE1045	0.42-0.48	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
45	0.42-0.50	0.17-0.37	0.50-0.80	≤0.020	≤0.020	Cr≤0.25, Ni≤0.30, Cu≤0.25
SWRCH50K	0.47-0.53	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
SAE1050	0.47-0.53	0.15-0.35	0.60-0.90	≤0.020	≤0.020	
10B16	0.13-0.18	≤0.10	0.80-1.10	≤0.020	≤0.020	Cr≤0.15, Mo≤0.04, B:0.0005-0.0030 Al _i ≥0.020, Ti:0.01-0.05, Ni≤0.15, Cu≤0.20, Sn≤0.02, N≤0.0080
10B21	0.18-0.23	≤0.10	0.70-1.00	≤0.020	≤0.020	B≥0.0008

2.2、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
10B21M	0.20-0.23	0.20-0.30	1.00-1.10	≤0.020	≤0.020	Cr:0.20-0.30, B:0.0015-0.0030 Ni≤0.20, Cu≤0.20
15B25M	0.23-0.28	≤0.35	0.90-1.20	≤0.020	≤0.020	Cr≤0.40, B:0.0005-0.0030 Ni≤0.25, Cu≤0.30, Ti/N≥3.5
20MnB4	0.18-0.23	≤0.30	0.90-1.20	≤0.020	≤0.020	Cr≤0.30, B:0.0008-0.0050, Cu≤0.25
28B2	0.28-0.32	≤0.15	0.90-1.10	≤0.015	≤0.015	Cr:0.20-0.35, B:0.0008-0.0050
10B30	0.28-0.34	≤0.30	0.80-1.00	≤0.020	≤0.020	Cr:0.10-0.25, Mo≤0.06 B:0.0005-0.0030
50BV30	0.27-0.33	≤0.10	0.70-1.00	≤0.020	≤0.020	Cr:0.30-0.50, B≥0.0005 V:0.10-0.50
32CrB4	0.30-0.34	≤0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, B:0.0008-0.0050 Cu≤0.25
10B33	0.30-0.36	≤0.10	0.70-1.00	≤0.020	≤0.020	B:0.0008-0.0050
10B35	0.32-0.38	≤0.10	0.60-0.90	≤0.020	≤0.020	B:0.0008-0.0050
SWRCH35K-B	0.32-0.38	0.10-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.20-0.35, Mo≤0.06 B:0.0008-0.0030, Al:0.015-0.045 Ni≤0.20, Cu≤0.20
37MnB5	0.37-0.41	≤0.30	1.15-1.45	≤0.020	≤0.020	B:0.0008-0.0050
10B38	0.35-0.42	≤0.10	0.60-0.90	≤0.020	≤0.020	B:0.0008-0.0050
DIN17Cr3	0.16-0.20	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.70-1.00, Cu≤0.20
17Cr3	0.16-0.21	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.70-1.00, Cu≤0.20
SCr415	0.16-0.20	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.70-1.00, Cu≤0.20
20Cr	0.17-0.21	0.17-0.37	0.50-0.80	≤0.020	≤0.020	Cr:0.70-1.00, Mo≤0.15 Ni≤0.30, Cu≤0.30
SCr420H	0.16-0.20	0.17-0.37	0.50-0.80	≤0.020	≤0.020	Cr:0.70-1.00, Mo≤0.15 Ni≤0.30, Cu≤0.30
37CrS4	0.34-0.41	≤0.40	0.60-0.90	≤0.025	0.020-0.040	Cr:0.90-1.20, Ni≤0.30, Cu≤0.25
SCr440	0.38-0.43	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20

2.2、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
40Cr	0.38-0.43	0.18-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20
ML40Cr	0.38-0.43	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20
40ACr	0.40-0.44	≤0.10	0.60-0.90	≤0.020	≤0.020	Cr:0.30-0.45, Al _i ≥0.01
SWRCH40K-1	0.37-0.44	≤0.10	0.60- 0.90	≤0.020	≤0.020	Cr:0.30-0.45, Al _i ≥0.01 Ni≤0.20, Cu≤0.20
45Cr	0.42-0.48	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Ni≤0.20, Cu≤0.20
SAE4037	0.35-0.40	0.15-0.35	0.70-0.90	≤0.020	≤0.020	Mo:0.20-0.30
SCM415	0.13-0.18	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.35
SCM415-1	0.10-0.15	0.17-0.37	0.40-0.60	≤0.020	≤0.020	Cr:0.80-1.10, Mo:0.46-0.60
15CrMo	0.12-0.18	0.17-0.37	0.40-0.70	≤0.020	≤0.020	Cr:0.80-1.10, Mo:0.40-0.55
SCM415H	0.13-0.18	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.35
SCM420	0.18-0.23	0.15-0.35	0.60-0.85	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.35 Ni≤0.25, Cu≤0.25
20CrMoA	0.18-0.23	0.15-0.35	0.60-0.85	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.35 Ni≤0.25, Cu≤0.25
SCM430	0.31-0.35	0.15-0.35	0.60-0.85	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.35
SCM435	0.33-0.38	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
ML35CrMoZ	0.33-0.38	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
SCM435-2	0.33-0.38	≤0.15	0.60-0.85	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30 B≤0.005, Al _i :0.020-0.050, Cu≤0.25
SCM440	0.38-0.43	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
42CrMo	0.38-0.43	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
42CrMo4	0.38-0.45	≤0.40	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30

2.2、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
ML42CrMo	0.38-0.43	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
ML42CrMoZ	0.38-0.43	≤0.15	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
16MnCr5	0.14-0.19	≤0.40	1.0-1.3	≤0.020	≤0.020	Cr:0.80-1.10
Q390E	≤0.20	≤0.55	1.00-1.60	≤0.020	≤0.020	Cr≤0.30, Al _i ≥0.015, V:0.02-0.20 Nb:0.015-0.060 Ti:0.02-0.20, Ni≤0.70
ML15MnVB	0.14-0.19	≤0.30	1.20-1.60	≤0.020	≤0.020	B:0.0005-0.0035, Al _i ≥0.020 V:0.07-0.12
ML20MnVB	0.19-0.24	≤0.30	1.20-1.60	≤0.020	≤0.020	B:0.0005-0.0035, Al _i ≥0.020 V:0.07-0.12
ML20MnTiB	0.19-0.24	≤0.30	1.30-1.60	≤0.020	≤0.020	B:0.0005-0.0035, Al _i ≥0.020 V:0.04-0.10
20CrMnTi	0.17-0.23	0.17-0.37	0.80-1.10	≤0.020	≤0.020	Cr:1.00-1.30, Mo≤0.10 Ti:0.04-0.10, Ni≤0.20, Cu≤0.20
30MnVS6	0.27-0.31	0.55-0.70	1.30-1.40	≤0.015	0.012-0.025	Mo≤0.05, Al _i :0.010-0.025 V:0.10-0.13, Ni≤0.15 Cu≤0.25, N:0.010-0.020
SNB16	0.36-0.44	0.20-0.35	0.45-0.70	≤0.020	≤0.020	Cr:0.80-1.15, Mo:0.50-0.65 V:0.25-0.35
42CrMo1Nb	0.40-0.44	0.15-0.30	0.45-0.60	≤0.015	≤0.008	Cr:0.90-1.10, Mo:0.90-1.10 Al _i :0.010-0.025, Nb:0.03-0.07 Cu≤0.15, O≤0.0025 N≤0.0080, H≤0.0002
42CrMoV	0.40-0.44	0.05-0.20	0.25-0.40	≤0.015	≤0.008	Cr:0.90-1.10, Mo:0.60-0.80 Al _i :0.010-0.025, V:0.15-0.20 Cu≤0.15, O≤0.0025 N≤0.0080, H≤0.0002
B440V	0.40-0.44	0.05-0.20	0.25-0.40	≤0.015	≤0.008	Cr:0.90-1.10, Mo:0.60-0.80 Al _i :0.010-0.025, V:0.15-0.20 Cu≤0.15, O≤0.0025 N≤0.0080, H≤0.0002

2.2、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B-SWRCH6A	≤0.08	≤0.10	≤0.60	≤0.020	≤0.020	Al _l ≥0.020
B-SWRCH8A	≤0.10	≤0.10	≤0.60	≤0.020	≤0.020	Al _l ≥0.020
B-SWRCH10A	0.08-0.13	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _l ≥0.020
B-SWRCH15A	0.13-0.18	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _l ≥0.020
B-ML15	0.13-0.18	≤0.10	0.30-0.60	≤0.020	≤0.020	Al _l ≥0.020
B-SWRCH18A	0.15-0.20	≤0.10	0.60-0.90	≤0.020	≤0.020	Al _l ≥0.020
B-SWRCH22A	0.18-0.23	≤0.10	0.70-1.00	≤0.020	≤0.020	Al _l ≥0.020
B-SWRCH15K	0.13-0.18	0.10-0.35	0.30-0.60	≤0.020	≤0.020	Al _l ≤0.02
B-SWRCH25K	0.22-0.28	0.10-0.35	0.30-0.60	≤0.020	≤0.020	Cr≤0.20, Ni≤0.20, Cu≤0.30
B-S10C	0.08-0.13	0.15-0.35	0.30-0.60	≤0.020	≤0.020	Cr≤0.20, Ni≤0.20, Cu≤0.20
B-S20C	0.18-0.23	0.15-0.35	0.30-0.60	≤0.020	≤0.020	Cr≤0.20, Ni≤0.20, Cu≤0.30
B-S25C	0.22-0.28	0.10-0.35	0.30-0.60	≤0.020	≤0.020	
B-S45C	0.42-0.48	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr≤0.20, Cu≤0.30, Ni≤0.20 Ni+Cr≤0.35
B-SWRCH35K	0.32-0.38	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
B-SWRCH38K	0.35-0.41	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
B-SWRCH38K-1	0.35-0.42	0.15-0.30	0.90-1.10	≤0.020	≤0.020	Cr≤0.10, Al _l ≤0.01, Cu≤0.20 Ni≤0.10, Mo≤0.04, Sn≤0.02 N≤0.009
B-SWRCH45K	0.42-0.48	0.10-0.35	0.60-0.90	≤0.020	≤0.020	
B-1340	0.38-0.43	0.15-0.30	1.60-1.90	≤0.020	≤0.020	N≤0.009
B-45Mn2	0.42-0.49	0.17-0.37	1.40-1.80	≤0.020	≤0.020	Cr≤0.30

2.2、冷镦钢盘条 (Q/BQB 517) Cold Heading Wire Rod (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B-10B21	0.18-0.23	≤0.10	0.70-1.00	≤0.020	≤0.020	B≥0.0008
B-MnB120H	0.18-0.23	≤0.35	0.70-1.00	≤0.020	≤0.020	Cr:0.07-0.30, B:0.0010-0.0030
B-10B30	0.28-0.34	0.15-0.35	0.70-1.00	≤0.020	≤0.020	Cr:0.10-0.25, B≥0.0008 Ni≤0.20, Cu≤0.20
B-ML20MnTiB	0.19-0.24	≤0.30	1.30-1.60	≤0.020	≤0.020	B:0.0005-0.0035, Al _i ≥0.020 Ti:0.04-0.10
B-ML20MnVB	0.19-0.24	≤0.30	1.20-1.60	≤0.020	≤0.020	B:0.0005-0.0035, Al _i ≥0.020 V:0.07-0.12
B-30MnB4	0.27-0.32	≤0.25	0.80-1.10	≤0.020	≤0.020	Cr≤0.30, B:0.0008-0.0050 Cu≤0.30, Ti≥0.02
B-40ACr	0.40-0.44	≤0.10	0.60-0.90	≤0.020	≤0.020	Cr:0.30-0.45, Al _i ≥0.020 Ni≤0.20, Cu≤0.20
B-SWRCH40K-1	0.40-0.44	≤0.10	0.60-0.90	≤0.020	≤0.020	Cr:0.30-0.45, Al _i ≥0.020 Ni≤0.20, Cu≤0.20
B-SCr440	0.38-0.43	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Ni≤0.20, Cu≤0.20
B-ML40Cr	0.38-0.43	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Ni≤0.20, Cu≤0.20
B-SCM435	0.33-0.37	0.15-0.30	0.65-0.85	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
B-SCM435H	0.33-0.37	0.15-0.30	0.65-0.85	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
B-SCM440	0.38-0.43	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30 Ni≤0.20, Cu≤0.20
B-SCM440H	0.38-0.43	0.15-0.30	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30
B-40CrMo	0.38-0.43	≤0.15	0.60-0.90	≤0.020	≤0.020	Cr:0.90-1.20, Mo:0.15-0.30 B≤0.0050, Al _i :0.02-0.05, Ni≤0.25 Cu≤0.12, V≤0.10

2.3、冷镦用超低碳钢盘条（协议） Extra Low Carbon Cold Heading Wire Rod (Agreement)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B-CH1T	≤0.010		≤0.35	≤0.030	≤0.035	Ti≥0.06
B-CH1A	≤0.015		≤0.35	≤0.030	≤0.030	
B-CH2A	≤0.010		≤0.15	≤0.015	≤0.010	

3.1、焊接用钢盘条 (Q/BQB 511) Welding Wire Rod (Q/BQB 511)

牌号 Grade	化学成份 (成品) % Chemical Composition (Finished Product) %					
	C	Si	Mn	P	S	其它 Others
BH550NQ-II	≤0.10	≤0.60	1.20-1.60	≤0.025	≤0.020	Cu:0.10-0.40, Cr:0.30-0.90 Ni:0.20-0.60
BH600-II	≤0.12	≤0.80	1.00-2.00	≤0.020	≤0.020	Ni:0.10-1.00, Mo:0.10-1.00 Cr≤0.12
BH700-II	≤0.12	≤0.80	1.00-2.00	≤0.020	≤0.020	Ni:0.30-1.00, Mo:0.10-0.60 Cr:0.05-1.00
BH500J-III	≤0.18	≤0.30	1.60-2.20	≤0.020	≤0.020	Ni≤0.30
BH500NHY3-III	≤0.15	≤0.60	1.00-1.60	≤0.020	≤0.020	Ni≤0.65, Mo≤0.30 Cu≤0.40, Cr≤1.30
BH10Mn2G	≤0.17	≤0.05	1.80-2.20	≤0.025	≤0.020	Ni≤0.30, Cr≤0.20
BH08MnMoTiB	≤0.11	≤0.25	1.40-1.60	≤0.025	≤0.020	Mo:0.30-0.60, Ti:0.03-0.08 B:0.004-0.008
BH08Mn2E	≤0.10	≤0.07	1.50-1.90	≤0.025	≤0.020	Ni≤0.25, Cu≤0.20, Cr≤0.20
H08MnSiCuCrNi	≤0.10	0.35-0.65	0.90-1.30	≤0.025	≤0.025	Ni:0.20-0.50, Cu:0.20-0.50 Cr:0.20-0.50
H10Mn2	≤0.12	≤0.05	1.50-1.90	≤0.025	≤0.025	Ni≤0.30, Cu≤0.20 Cr≤0.20
H08Mn	≤0.10	≤0.05	0.80-1.10	≤0.025	≤0.025	Ni≤0.30, Cu≤0.20 Cr≤0.20
H08Mn2Si	≤0.11	0.70-0.95	1.80-2.10	≤0.025	≤0.025	Ni≤0.30, Cu≤0.20 Cr≤0.20
ER70S-6	0.06-0.15	0.80-1.15	1.40-1.85	≤0.025	≤0.025	
ER70S-G	≤0.10	0.65-0.85	1.40-1.60	≤0.025	≤0.020	Cu≤0.10, Ti:0.15-0.25
SWRY11	≤0.09	≤0.03	0.35-0.65	≤0.020	≤0.023	Cu≤0.20

3.2、焊接用钢盘条（协议） Welding Wire Rod (Agreement)

牌号 Grade	化学成份（成品）% Chemical Composition (Finished Product) %					
	C	Si	Mn	P	S	其它 Others
ER55-D2-Ti	≤0.12	0.40-0.80	1.60-1.90	≤0.025	≤0.025	Ti:0.05-0.15, Mo:0.20-0.35 Cu≤0.20
BH70GX-III	0.06-0.10	0.15-0.35	1.50-1.70	≤0.015	≤0.005	Ti≥0.081, B:0.0035-0.0065 Cu≤0.10, Mo:0.30-0.40 N≤0.0080
ER80S-B2	≤0.12	0.60-0.90	1.00-1.50	≤0.025	≤0.020	Mo:0.45-0.65, Cr:1.00-1.20 Ni≤0.25, Cu≤0.15
ER69-3	≤0.12	0.40-0.80	1.25-1.80	≤0.020	≤0.020	Mo:0.20-0.55, Ti≤0.20 Ni:0.60-1.10, Al≤0.10 Cu≤0.35
BH08Mn2SiTiB	≤0.10	0.55-1.10	1.65-1.95	≤0.025	≤0.009	Cu≤0.10, N≤0.0080 Ti:0.08-0.18, B:0.0035-0.0060
BH800-II	≤0.12	≤0.80	1.00-2.00	≤0.030	≤0.030	Mo:0.10-0.60, Cr:0.05-1.00 Ni:0.10-1.50
BH900-II	≤0.15	0.30-0.80	1.20-2.20	≤0.015	≤0.010	Mo≤0.60, Cr≤0.40 Ni:1.00-2.50, Cu≤0.40
BH80GX-III	0.02-0.08	0.25-0.45	1.75-1.95	≤0.020	≤0.015	Mo:0.30-0.60, Nb:0.025-0.055 Ti:0.015-0.030 B:0.0020-0.0080
BH90GX-III	0.02-0.06	0.25-0.50	1.40-1.70	≤0.015	≤0.010	Mo:0.40-0.60, Ni:1.80-2.20 Cr:0.15-0.40, Ti:0.008-0.050 B:0.0030-0.0070

4、桥梁缆索镀锌钢丝用盘条 (Q/BQB 521) Wire Rod for Bridge Main Cables (Q/BQB 521)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B82MnQL	0.80-0.85	0.12-0.32	0.60-0.90	≤0.020	≤0.015	Cr≤0.20, Cu≤0.20
B87MnQL	0.85-0.91	0.12-0.32	0.60-0.90	≤0.020	≤0.015	Cr:0.10-0.25, V:0.02-0.06 Cu≤0.10
B87SiQL	0.84-0.90	0.70-1.10	0.60-0.90	≤0.020	≤0.015	Cr:0.05-0.35, V≤0.02 Cu≤0.05
B90SiQL*	0.88-0.93	0.80-1.20	0.60-0.90	≤0.020	≤0.015	Cr:0.05-0.35, V≤0.02 Cu≤0.02

注 Notes: * 按照协议供货

* According to the technical agreement reached by the Sellers and the Buyers.

5、钢帘线盘条 (协议) Wire Rod for Tire Cord (Agreement)

牌号 Grade	化学成份% Chemical Composition %						
	C	Si	Mn	P	S	P+S	其它 Others
B72LX	0.70-0.76	≤0.30	0.40-0.60	≤0.020	≤0.015	≤0.30	
B82LX	0.80-0.85	≤0.30	0.40-0.60	≤0.020	≤0.015	≤0.30	
B86LX	0.84-0.89	0.15-0.35	0.40-0.60	≤0.020	≤0.015		Cu≤0.06, Ni≤0.06 Al _i ≤0.003, N≤0.06
B92LX	0.89-0.95	0.15-0.30	0.25-0.45	≤0.020	≤0.015		Cu≤0.06, Ni≤0.06 Al _i ≤0.003, N≤0.06
B96LX	0.95-0.99	0.10-0.25	0.30-0.50	≤0.015	≤0.015		Cu≤0.02, Ni≤0.02 Al _i ≤0.003, N≤0.06

6、高碳钢盘条 (Q/BQB 512) High Carbon Steel Wire Rod (Q/BQB 512)

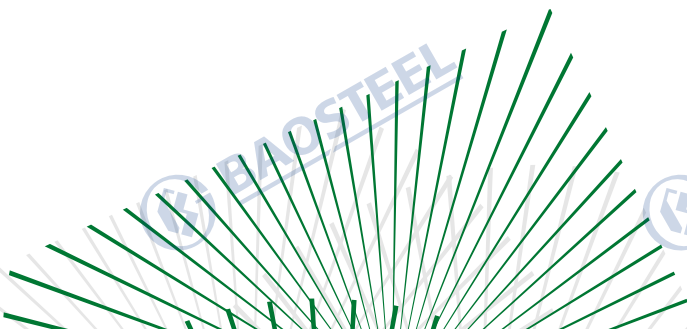
牌号 Grade	化学成份% Chemical Composition %				
	C	Si	Mn	P	S
SWRH32	0.29-0.36	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH42A	0.39-0.46	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH42B	0.39-0.46	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH47A	0.44-0.51	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH47B	0.44-0.51	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH52A	0.49-0.56	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH52B	0.49-0.56	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH57A	0.54-0.61	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH57B	0.54-0.61	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH62A	0.59-0.66	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH62B	0.59-0.66	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH67A	0.64-0.71	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH67B	0.64-0.71	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH72A	0.69-0.76	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH72B	0.69-0.76	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH77A	0.74-0.81	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH77B	0.74-0.81	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH82A	0.79-0.86	0.15-0.35	0.30-0.60	≤0.020	≤0.020
SWRH82B	0.79-0.86	0.15-0.35	0.60-0.90	≤0.020	≤0.020
SWRH90A	0.87-0.92	0.15-0.35	0.30-0.60	≤0.020	≤0.020

7、针布钢丝盘条 (Q/BQB 570) Wire Rod for Card Clothing (Q/BQB 570)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其他 Others
B72BNbV	0.69-0.74	0.15-0.25	0.50-0.70	≤0.020	≤0.020	Cr:0.20-0.40, V:0.08-0.15 Nb:0.04-0.08

8、预应力钢丝钢绞线盘条 (Q/BQB 514) Prestressed Steel Wire Rod and Strand (Q/BQB 514)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其他 Others
SWRH82B-1	0.79-0.86	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.13-0.22, Cu≤0.20
SWRH82B-2	0.79-0.86	0.15-0.35	0.60-0.90	≤0.020	≤0.020	Cr:0.13-0.23, V:0.04-0.09 Cu≤0.20



9、低碳钢盘条 (Q/BQB 513) Low Carbon Steel Wire Rod (Q/BQB 513)

牌号 Grade	化学成份% Chemical Composition %				
	C	Si	Mn	P	S
SWRM6	≤0.08	≤0.03	≤0.60	≤0.025	≤0.025
SWRM6-1	≤0.06	≤0.03	≤0.60	≤0.025	≤0.025
SWRM8	≤0.10	≤0.03	≤0.60	≤0.025	≤0.025
SWRM10	0.08-0.13	≤0.03	0.30-0.60	≤0.025	≤0.025
SWRM12	0.10-0.15	≤0.03	0.30-0.60	≤0.025	≤0.025
SWRM15	0.13-0.18	≤0.03	0.30-0.60	≤0.025	≤0.025
SWRM17	0.15-0.20	≤0.03	0.30-0.60	≤0.025	≤0.025
SWRM20	0.18-0.23	≤0.03	0.30-0.60	≤0.025	≤0.025

10、钢纤维盘条 (Q/BQB 518) Wire Rod for Steel Fiber (Q/BQB 518)

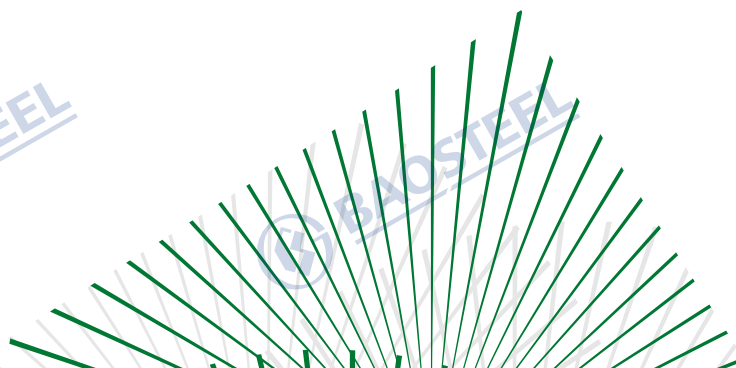
牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其他 Others
B04XW	≤0.06	≤0.05	0.20-0.50	≤0.025	≤0.025	Cu≤0.10, Cr≤0.10, Ni≤0.10 Al _T ≤0.04, N≤0.008

11、合金结构钢盘条 (Q/BQB 560) Alloy Steel Wire Rod for Machine Structural Use (Q/BQB 560)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B20Cr2MoNi	0.17-0.23	0.15-0.30	0.40-0.60	≤0.015	≤0.010	Cr:1.80-2.10, Ni:0.15-0.25 Mo:0.15-0.25 Al _T :0.02-0.05, Cu≤0.20
20CrMnMo*	0.17-0.23	0.17-0.37	0.90-1.20	≤0.035	≤0.035	Cr:1.10-1.40, Mo:0.20-0.30 Cu≤0.30, Ni≤0.30

注 Notes: * 按照协议供货

* According to the technical agreement reached by the Sellers and the Buyers.



12、高碳铬轴承钢盘条（协议） High Carbon Chromium Bearing Steel Wire Rod (Agreement)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
GCr15	0.95-1.05	0.15-0.35	0.25-0.45	≤0.025	≤0.025	Cr:1.40-1.65, Mo≤0.10, Ni≤0.30 Cu≤0.25, O≤0.0012
GCr15SiMn	0.95-1.05	0.45-0.75	0.95-1.25	≤0.025	≤0.025	Cr:1.40-1.65, Mo≤0.10, Ni≤0.30 Cu≤0.25, O≤0.0012

Comparison of Steel Grades
线材相近牌号对照

品名	宝钢企业标准	中国国家标准或 行业标准	日本工业标准	美国汽车工 程师协会	美国国家标 准协会	美国材料 试验协会	美国焊接协会	德国	瑞典
弹簧钢盘条 Spring Steel Wire Rod	Q/BQB 516: 60Si2CrA 60Si2MnA B55SiCr 65Mn	GB/T 1222: 60Si2CrA 60Si2MnA YB/T 5365.55SiCrA GB/T 1222:65Mn	JIS G 4801: SUP6 SUP12	9260 9254	9260 9254	ASTM A 689	AWS	DIN	SIS
	Q/BQB 517: SWRCH6A~SWRCH22A SWRCH10K~SWRCH50K SCM435 ML20MnTiB	GB/T 6478: M108A1~ML25 M125Mn~ML35Mn ML35CrMo ML20MnTiB	JIS G 3507-1: SWRCH6A~SWRCH22A SWRCH10K~SWRCH50K JIS G 4053:SCM435	1005~1050 4137	1005~1050 4137	ASTM A 510			
冷镦钢盘条 Cold Heading Wire Rod	Q/BQB 511: SWRY11 ER70S-6	GB/T 3429: H11Mn2SiA	JIS G 3503: SWRY11				AWS A 5.18: ER70S-6		
	H10Mn2 H08MnA H08Mn2SiA	H10Mn2 H08MnA H08Mn2SiA							
焊接用钢盘条 Welding Wire Rod	Q/BQB 512: SWRH32 SWRH42A~SWRH82A SWRH42B~SWRH82B	GB/T 4354: 30~80 40Mn~60Mn	JIS G 3506: SWRH32 SWRH42A~SWRH82A SWRH42B~SWRH82B	1030~1080	1030~1080	ASTM A 510			
	Q/BQB 513: SWRM6~SWRM20	GB/T 701: Q195~Q235C	JIS G 3505: SWRM6~SWRM20	1005~1020	1005~1020	ASTM A 510			
高碳钢盘条 High Carbon Steel Wire Rod									
低碳钢盘条 Low Carbon Steel Wire Rod									
轴承钢 Bearing Steel Wire Rod		GB/T 18254: GCr15 GCr15SiMn	JIS G 4805: SUJ2	ASTMA 295 ASTM 534: 52100 52100.1			DIN ENISO683-17: 100Cr6 100CrMn6	SKF S&P D33: Grade 3	

Sizes and Tolerances 产品规格及偏差

产品规格 Available Sizes

规格范围 Size Range (mm): 5.0-28.0

直径 Diameter			直径 Diameter		
毫米 mm	英寸 inch	(毫米 mm)*	毫米 mm	英寸 inch	(毫米 mm)*
5.0			13.5	17/32	13.49
5.5	7/32	5.56	14.0	35/64	13.89
6.0**	15/64	5.95	14.5**		
6.5			15.0	19/32	15.08
7.0	9/32	7.14	15.5**	39/64	15.48
7.5**	19/64	7.54	16.0		
8.0	5/16	7.94	17.0	43/64	17.07
8.5**			18.0		
9.0	23/64	9.13	19.0	3/4	19.05
9.5**	3/8	9.53	20.0		
10.0	25/64	9.92	21.0	53/64	21.03
10.5**			22.0		
11.0	7/16	11.11	23.0	29/32	23.02
11.5**	29/64	11.51	24.0		
12.0	5/32	11.91	25.0	63/64	25.00
12.5			26.0		
13.0	33/64	13.10	27.0		
			28.0		

注 Notes: * 括号内的数值是由相近英寸规格转换成毫米数。

* Figures in parentheses indicate figures converted from inches to mm.

** 如订购这些规格, 请先联系确认。

** When ordering these sizes, please contact us.

尺寸允许偏差 Size Tolerances

尺寸允许偏差与宝钢企业标准 Q/BQB 501 相一致。

The size tolerance shall conform to those described in Q/BQB 501.

缺货按 A 级精度交货，可以协商按 B 级精度或 C 级精度交货。

If out of stock, things can be delivered according to A Class tolerances, Sizes manufactured according to B Class tolerances or C Class tolerances are available subject to negotiations.

允许偏差 Tolerance Specifications (mm)

直径 Diameter	A级精度 A Class tolerance		B级精度 B Class tolerance		C级精度 C Class tolerance	
	直径允许偏差 Tolerance	不圆度 Out-of-round	直径允许偏差 Tolerance	不圆度 Out-of-round	直径允许偏差 Tolerance	不圆度 Out-of-round
$D \leq 10.0$	± 0.30	≤ 0.36	± 0.20	≤ 0.24	± 0.15	≤ 0.18
$10.0 < D \leq 14.5$	± 0.40	≤ 0.48	± 0.25	≤ 0.30	± 0.20	≤ 0.24
$14.5 < D \leq 19.0$	± 0.40	≤ 0.48	± 0.30	≤ 0.36	± 0.25	≤ 0.30
$19.0 < D \leq 26.0$	± 0.50	≤ 0.60	± 0.30	≤ 0.36	± 0.25	≤ 0.30
27.0, 28.0	± 0.60	≤ 0.96	± 0.40	≤ 0.64	± 0.30	≤ 0.48

卷重范围 Coil Weight Range (kg): 1,900-2,400

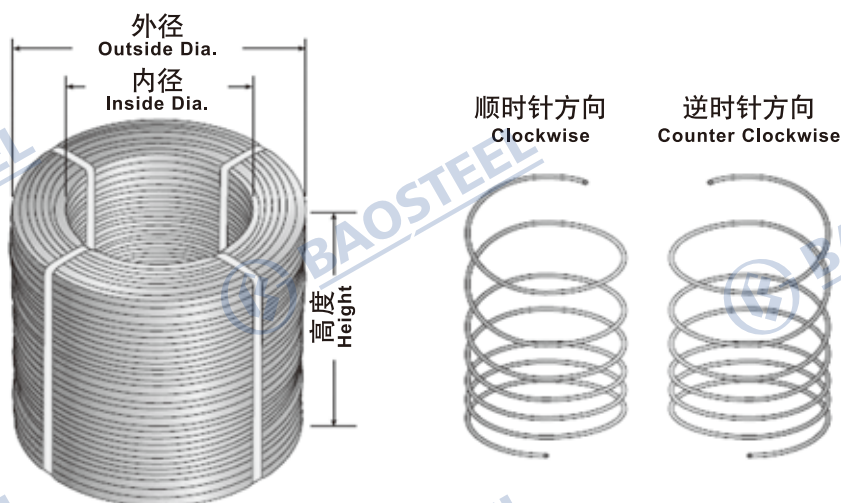
盘卷最大外径 Coil Outside Diameter Max. (mm): 1,250

盘卷最小内径 Coil Inside Diameter Min. (mm): 850

线圈旋转方向 Direction of Rotation: Counter Clockwise

盘卷最大高度 Coil Height Max. (mm): 2,400

旋转方向 Direction of Rotation



最终用途示例

Examples of Final Use



宝钢高线自投产以来，产品已经广泛应用于国家重点建设工程、汽车、油田、矿山及输气管道等。

- 冷镦钢主要应用于一汽集团、二汽集团商用车，欧美系、日系、韩系以及自主品牌乘用车的紧固件；
- 弹簧钢应用于乘用车悬架簧、摩托车气门簧等；
- 桥梁缆索用镀锌钢丝已成功应用于西堠门大桥、苏通大桥、南京四桥、鹦鹉洲大桥等；
- 预应力钢丝及钢绞线应用于核电站领域，如秦山核电站、大亚湾核电站等；
- 焊接用钢已应用于西气东输、央视大楼、洋山深水港等重点工程；
- 高碳钢已应用于录井钢丝、电梯钢丝绳、油田用钢丝绳、航空用钢丝绳、矿山用钢丝绳等重要领域；
- 钢帘线盘条已大批量被国内、国外钢帘线厂使用于子午线轮胎制造。



Since the start of production, Baosteel's High-speed Wire Rod Mill has got its products widely applied in the state key construction projects, automobile, oil field, ore mine and gas transmission pipeline.

- The cold heading steel products have been made as bolts and nuts supplied to Chinese First Automobile Group, Second Automobile Group for Commercial Vehicles, Europe, American, Japanese, Korea Automobiles Companies and some Chinese self-owned automobiles companies.
- Spring steel wire rod is mainly used in passenger vehicles' suspension springs and motorcycle valve springs.
- Galvanized wire rod for bridge cables has been used successfully in Xihoumen Bridge, Sutong Bridge, Nanjing fourth Bridge, Yingwuzhou Bridge and so on.
- The prestressed steel wire rod and strand has been used in Qinshan Nuclear Power Station, Daya Bay Nuclear Power Station and so on.
- The welding wire rod has been used in some key construction projects such as West to East Gas Pipeline Project, the CCTV Building, Yangshan Deep-water Port, etc.
- The high carbon wire rod is mainly used in all kinds of wires and ropes for logging, oil field, elevator, mine and aviation.
- The wire rod for tire cord has been used widely by many famous tire manufacturers in domestic market as well as overseas markets.

1.1、包装标准 Packaging Specifications

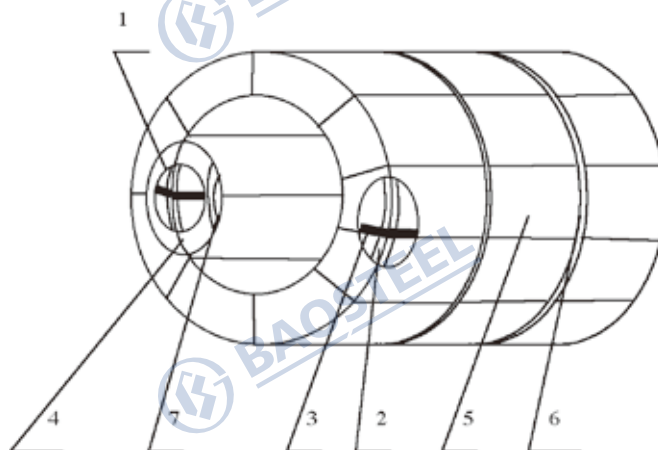
包装材料追加组合 Additional Material Mix for Packaging												
包装类型 Packaging Type	包装方式基 准 Basis for Packaging	1	2	3	4	5	6	7	8	9	A	
A 普通包装 Normal Packaging	盘条+径向捆带 (4处4道)	+纸护角	+套袋	+复膜编织带	+防锈纸 +薄膜	+纸护角 +复膜编织带	+纸护角 +防锈纸 +薄膜	+复膜编织带 +薄膜	+纸护角 +复膜编织带 +薄膜	+整体式套袋	+纸护角 +整体式套袋	
	Wire Rod + Steel Bands at (4 Bands at 4 positions)	+pasteboard for side-ring protection	+PP+PE bag	+precoated braid	+rust-proofing paper +adhesive membrane	+pasteboard for side-ring protection +precoated braid	+pasteboard for side-ring protection +rust-proofing paper +adhesive membrane	+precoated braid +adhesive membrane	+pasteboard for side-ring protection +precoated braid +adhesive membrane	+PP+PE wrap	+pasteboard for side-ring protection +PP+PE wrap	
B 加强包装 Reinforced Packaging	盘条+径向捆带 (4处8道)	+纸护角	+套袋	+复膜编织带	+防锈纸 +薄膜	+纸护角 +复膜编织带	+纸护角 +防锈纸 +薄膜	+复膜编织带 +薄膜	+纸护角 +复膜编织带 +薄膜	+整体式套袋	+纸护角 +整体式套袋	
	Wire Rod + Steel Bands at (8 Bands at 4 positions)	+pasteboard for side-ring protection	+PP+PE bag	+precoated braid	+rust-proofing paper +adhesive membrane	+pasteboard for side-ring protection +precoated braid	+pasteboard for side-ring protection +rust-proofing paper +adhesive membrane	+precoated braid +adhesive membrane	+pasteboard for side-ring protection +precoated braid +adhesive membrane	+PP+PE wrap	+pasteboard for side-ring protection +PP+PE wrap	

推荐范围 Recommended Applications

A 普通包装 短途，中途及一般用途产品 For short distance transportation or for general purposed products

B 加强包装 出口，中途，远途及高附加值产品 For export, long distance transportation or for high value-added products

1.2. 包装示意图 Packaging Descriptions



1, 2 — 纸护角 Pasteboard for Side-Ring Protection 3—捆带 Flat Steel Band 4—防锈纸 Rust-Proofing Paper
5—复膜编织带或薄膜 Precoated Braid or Adhesive Membrane 6, 7 — 胶带 Adhesive Tape

1.3. 典型包装样式 Examples of Typical Packaging Type



1.4. 标牌 Tag

冷镦钢等产品标牌
(除弹簧钢外)
Tag (Except Spring Steel Wire Rod)



弹簧钢标牌
Tag for Spring Steel Wire Rod



RFID标牌
RFID Tag

宝山钢铁股份有限公司
<http://www.baosteel.com>

BAOSHAN IRON & STEEL CO., LTD.
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