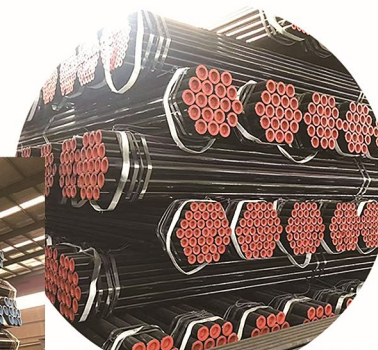
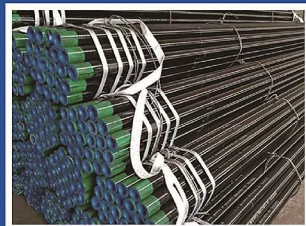




山东千禾钢铁有限公司
Shandong Qianhe Steel Co., Ltd.



山东千禾钢铁
SHANDONG QIANHE STEEL



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CHINA • LIAOCHENG

COMPANY
PROFILE



Shandong Qianhe Steel Co., Ltd. has achieved great success in the export of steel products. We are a comprehensive group company that supplies seamless steel pipes, galvanized welded pipes, profiled pipes, hollow grouting anchor rods, drill bits and accessories, steel bar connectors, with guaranteed quality, excellent performance and competitive prices. The series of products have been exported to overseas distributors, warehouses and factories in Europe and Inussa, Bangladesh. In Sri Lanka, Egypt, Saudi Arabia and other countries and regions, our equipment adopts advanced energy-saving technologies that conform to national environmental policies. We have a stable supply from advanced factories and a large inventory of various products.

Our warehouse is fully equipped. We have a professional technical team. We not only have decades of work experience in the steel industry, but also have a deep and clear understanding of the technical and production status of China's major steel industries with efficient regulatory system and professional experience. We provide efficient and thoughtful services to customers around the world. We sincerely hope to become your Chinese suppliers and partners.





Sold all over the world



CORPORATE CULTURE

千禾使命——

树立行业正能量

铸造千万希望

ESTABLISH THE POSITIVE ENERGY OF THE INDUSTRY
AND CAST TEN MILLION HOPE

千禾愿景——

打造最具活力和生命力企业
成为钢材贸易行业领跑者

BUILD THE MOST DYNAMIC AND VITAL ENTERPRISE AND
BECOME THE LEADER OF STEEL TRADE INDUSTRY

千禾价值观——

诚信 高效 创新 奋斗 共赢

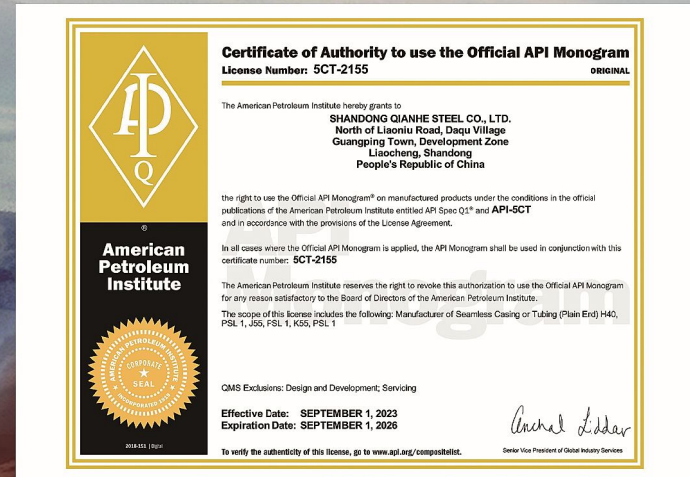
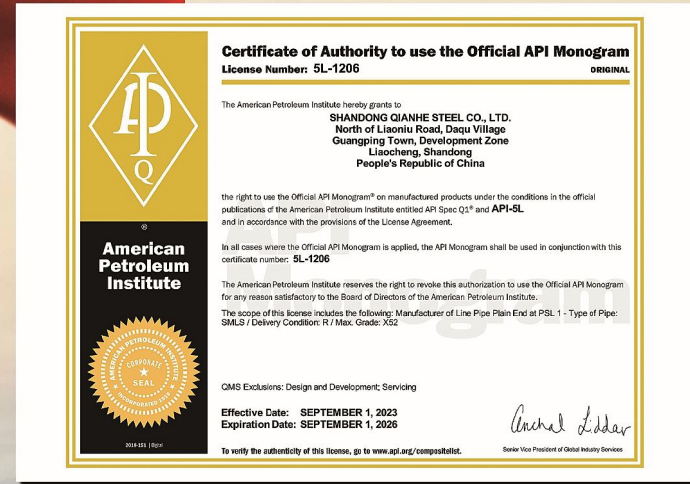
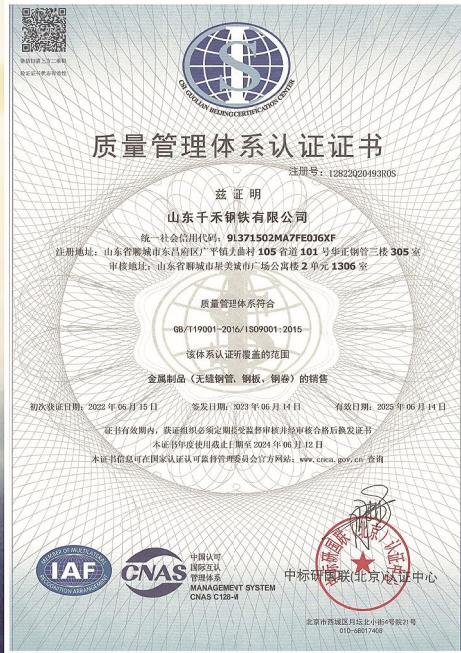
INTEGRITY, EFFICIENCY, INNOVATION AND
WIN-WIN RESULTS



千禾钢铁



Authentication Certificate ▶▶



HOT ROLLED SEAMLESS STEEL PIPE

Dimensions of hot-rolled seamless steel tubes:

OD: 34mm-325mm(1"-12") WT:4-50mm (SCH20、SCH40、SCH80、SCH160)

Standard:

GB/T8163 GB/T8162 Chinese National Standards

API 5L

ASTM A53/106

ASTM A519 ASTM Standards

CHEMICAL COMPOSITION:

标准 Standard	等级 Grade	碳 c	硅 si	锰 Mn	磷 p	硫 s	镍 Ni	铬 Cr	铜 Cu	钼 Mo	钒 v
GB/T8162 GB/T8163	10	0.07-0.13	0.07-0.37	0.35-0.65	≤0.035	≤0.035	≤0.30	≤0.15	≤0.25		
	20	0.17-0.23	0.17-0.37	0.35-0.65	≤0.035	≤0.035	≤0.30	≤0.25	≤0.25		
	35	0.32-0.39	0.17-0.37	0.50-0.80	≤0.035	≤0.020	≤0.30	≤0.25	≤0.25		
	40	0.42-0.50	0.17-0.37	0.50-0.80	≤0.025	≤0.020	≤0.30	≤0.25	≤0.25		
	Q235B	0.17-0.23	≤0.55	0.35-0.65	≤0.025	≤0.020	≤0.30	≤0.30	≤0.30		
	Q345B	≤0.20	≤0.55	1.00-1.60	≤0.025	≤0.020	≤0.30	≤0.30	≤0.30		
	Q345D	≤0.18	≤0.55	1.00-1.60	≤0.025	≤0.020	≤0.30	≤0.30	≤0.30		0.02-0.15
API 5L	A	≤0.22		≤0.90	≤0.03	≤0.03					
	B	≤0.28		≤1.20	≤0.03	≤0.03					≤0.06
ASTMA53M	A	≤0.25		≤0.95	≤0.05	≤0.045	≤0.40	≤0.40	≤0.40	≤0.15	≤0.08
	B	≤0.30		≤1.20	≤0.05	≤0.045	≤0.40	≤0.40	≤0.40	≤0.15	≤0.08
ASTMA106M	A	≤0.25	≥0.10	0.27-0.93	≤0.035	≤0.035	≤0.40	≤0.40	≤0.40	≤0.15	≤0.08
	B	≤0.30	≥0.10	0.29-1.06	≤0.035	≤0.035	≤0.40	≤0.40	≤0.40	≤0.15	≤0.08
	c	≤0.35	≥0.10	0.29-1.06	≤0.035	≤0.035	≤0.40	≤0.40	≤0.40	≤0.15	≤0.08
DIN 1629	ST37.0	≤0.17	0.17-0.37	0.50-0.80	≤0.025	≤0.020	≤0.25	≤0.25	≤0.25		
	ST44.0	≤0.21	0.17-0.37	0.50-0.80	≤0.025	≤0.020	≤0.25	≤0.25	≤0.25		
	ST52.0	≤0.22	≤0.55	≤1.60	≤0.025	≤0.020	≤0.25	≤0.25	≤0.25		
ASTMA519	1012	0.10-0.15		0.30-0.60	0.04	0.05					
	1020	0.18-0.23		0.30-0.60	0.04	0.05					
	1045	0.43-0.50		0.60-0.90	0.04	0.05					
	4130	0.28-0.33	0.15-0.35	0.40-0.60	0.04	0.04		0.80-1.10		0.15-0.25	
	4140	0.38-0.43	0.15-0.35	0.75-1.00	0.04	0.04		0.80-1.10		0.15-0.25	



Purpose:

It is used for the transportation of oil, natural gas and other fluids, and the manufacturing of pipes, containers, equipment, pipe fittings and steel structures. Supports for pipes, vessels and equipment structures.

MECHANICAL PROPERTIES:

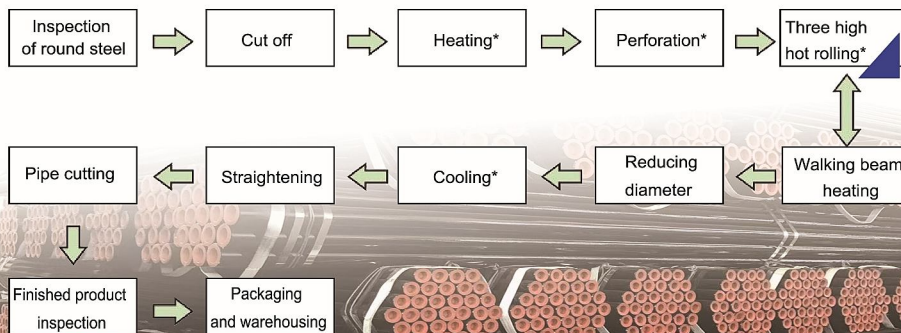
标准 Standard	等级 Grade	抗拉强度 Tensile Strength	屈服强度Yield		伸长率 Elongation(%)	冲击测试 Impact Test	
			16mm	>16mm		Temperat	Absorbed
GB/T8162 GB/T8163	10	≥335	205	185	24		
	20	≥410	245	225	20		
	35	≥510	305	285	17		
	40	≥590	335	315	14		
	Q235B	375-500	235	215	25	20	27
	Q345B	470-630	345	295	20	20	34
Q345D	470-630	345	295	21	-20	34	
API 5L	A	≥335	≥210		24		
	B	≥415	≥245		20		
ASTM A53M	A	≥330	≥205		Refertable 3of ASTM A53		
	B	≥415	≥240				
ASTMA106M	A	≥330	≥205		Refertable4 ofASTM A		
	B	≥415	≥240				
	c	≥485	≥275				
DIN 1629	ST37.0	350-480	235	225	25		
	ST44.0	420-550	275	265	21		
	ST52.0	500-650	355	345	21		
	等级 Grade	Condition	抗拉强度 Tensile	屈服强度 Yield	伸长率 Elongation(%)	硬度值 HRB≤	
ASTM A519		HR	345	221	25	55	
		CW	483	414	5	75	
		SR	443	345	10	72	
		A	331	193	30	50	
		N	379	379	22	60	
	1045	HR	517	310	15	80	
		CW	621	552	5	90	
		SR	552	483	8	85	
		A	448	241	20	72	
		N	517	331	15	80	
	4130	HR	621	483	20	89	
		SR	724	586	10	95	
		A	517	379	30	81	
		N	621	414	20	89	
	4140	HR	855	621	15	100	
		SR	55	689	10	100	
		A	552	414	25	85	
		N	855	621	20	100	

Hot/Cold rolled seamless steel pipe

DIMENSIONAL TOLERANCE:

Standard	Production Process	OD Tolerance	WT Tolerance		
			OD	WT/OD	Tolerance
GB/T8162 GB/T8163	Hot rolled	±1%D or 0.5mm, whichever is larger	≤102mm	—	±12.5%WT or ±0.4mm, whichever is the greater
			>102mm	≤0.05	±15%WT or ±0.4mm, whichever is the greater
				>0.05~0.10	±12.5%WT or ±0.4mm, whichever is the greater
	Cold rolled		WT≤3mm	>0.10	+12.5%WT -10%WT
					+15%WT -10%WT or ±0.15mm, whichever is the greater
			WT>3~10mm		+12.5%WT -10%WT
API 5L			WT>10mm		±10%
			WT≤4mm (0.157inch)		+0.6mm (0.024inch) -0.5mm (0.020inch)
			WT>4mm (0.157inch)		+15%WT
			WT<25 mm (0.984inch)		-12.5%WT
ASEM A53		OD≤48.3mm OD>60.3mm	±0.4mm ±0.1%		+10%WT or +3.7mm, whichever is the greater -10%WT or -3.0mm, whichever is the greater

Process Flow Diagram of Hot Rolled Steel Pipe (* indicates quality control point)



Inch	OD in mm	OD in inch	DN	5s	5	10s	10	20	30	STD 40s	40	60	XS 80s	80	100	120	140	160	XXS	VOL.	Inch
1/8	10.29	0.405	6							0.068	0.095									0.0001	1/8
1/4	13.72	0.540	8							1.73	2.41									0.0002	1/4
3/8	17.15	0.675	10							0.36	0.46									0.0003	3/8
1/2	21.34	0.840	15	0.065	0.085	0.083	0.083			0.083	0.109							0.188	0.294	0.0004	1/2
3/4	26.67	1.050	20	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.0007	3/4
1	33.40	1.315	25	0.80	0.80	1.00	1.00			1.27	1.68							5.56	7.82	0.0011	1
1 1/4	42.16	1.660	32	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.0018	1 1/4
1 1/2	48.26	1.900	40	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.0023	1 1/2
2	60.33	2.375	50	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.0035	2
2 1/2	73.03	2.875	65	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.0053	2 1/2
3	88.90	3.500	80	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.0079	3
3 1/2	101.60	4.000	90	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.0103	3 1/2
4	114.30	4.500	100	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.0130	4
5	141.30	5.563	125	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.0199	5
6	168.28	6.625	150	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.028	6
8	219.08	8.625	200	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.048	8
10	273.05	10.750	250	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.074	10
12	323.85	12.750	300	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.104	12
14	355.60	14.000	350	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.126	14
16	406.40	16.000	400	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.165	16
18	457.20	18.000	450	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.208	18
20	508.00	20.000	500	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.258	20
22	558.80	22.000	550	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.312	22
24	609.60	24.000	600	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.372	24
26	660.40	26.000	650	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.435	26
28	711.20	28.000	700	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.505	28
30	762.00	30.000	750	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.580	30
32	812.80	32.000	800	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.66	32
34	863.60	34.000	860	0.065	0.065	0.109	0.109			0.133	0.179							0.25	0.358	0.746	34
36	914.40	36.000	900	1.65	1.65	2.11	2.11			3.38	4.55							4.78	7.47	0.835	36

COLD DRAWN SEAMLESS STEEL PIPE:

STANDARD: GB/T3639, ASTM A179, DIN10305, ASTM A192, ASME A333/SA213

CHEMICAL COMPOSITION: (%)

标准 Standard	钢号 Steel Grade	碳 C≤	硅 si≤	锰 Mn≤	磷 P≤	硫 S≤	铬 Cr≤	钼 Mo≤
ASTM A179		0.17	0.35	0.7	0.025	0.025		
DIN10305	E215	0.1	0.35	0.7	0.025	0.025		
	E235	0.17	0.35	1.2	0.025	0.025		
	E355	0.22	0.35	1.6	0.025	0.025		

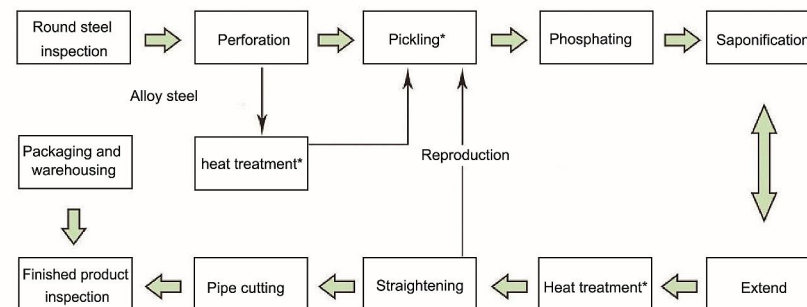
Delivery conditions: BK/BKS/GBK/NBK

Available sizes: OD10mm-108mm; WT: 1mm-25mm

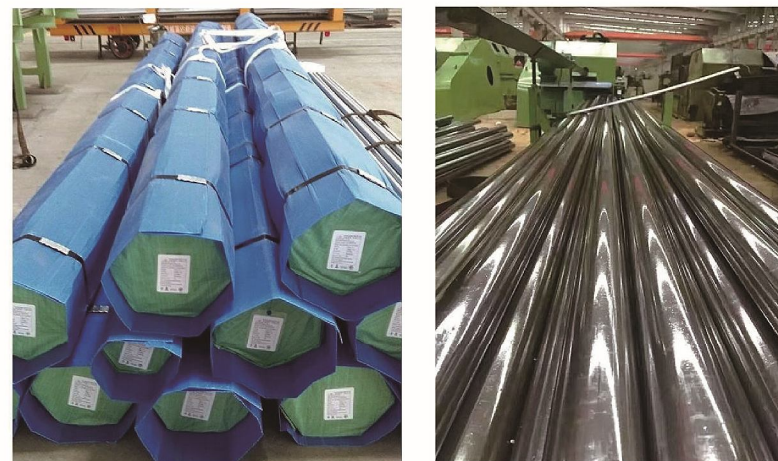
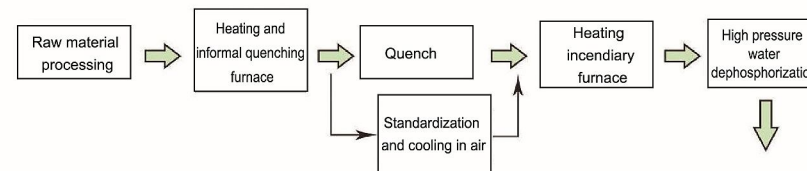
Tolerance: OD: $\pm 0.08\text{mm}$ - $\pm 1.30\text{mm}$; WT: $\pm 0.10\text{mm}$ - $\pm 0.30\text{mm}$



The process flow diagram of cold drawn steel pipe (RLE) is a quality control point:



Heat Treatment Process Flow Chart



ANCHOR ROD

Self-drilling anchor system ▶▶

The self drilling anchor bolt system consists of threaded hollow grouting anchor bolt, drill coupling, plate and nut. Self drilling bolt system is mainly used in railway, subway, mine, tunnel and other industries. Stability of slope and foundation, tunnel pre support, etc.

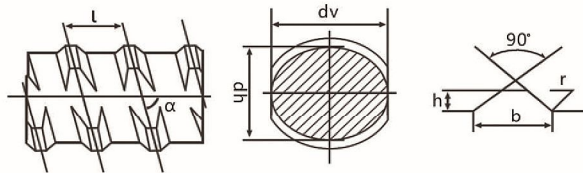


Specification for self drilling hollow grouting anchor bolts

Type	inner diameter (mm)	Ultimate load capacity(KN)	Yield load capacity (KN)	Weight (KG)
R Thread				
R25N	14	200	150	2.3
R32N	21	280	230	2.9
	18.5	280	230	3.4
R32S	16	360	280	3.6
R325S	15.5	405	350	3.8
R38N	21	500	400	4.8
	19	500	400	5.5
R51L	36	550	450	7
R51N	33	800	630	8.4
T Thread				
T30	11	320	260	3.41
	14	275	220	2.87
	16	245	190	2.7
T40	16	660	525	6.6
	20	540	425	5.6
T52	26	925	730	9.87
T73	53	1160	970	14.1
	56	1035	830	10.75
	45	1585	1270	17.8
	35	1865	1430	21.2
T76S	45	1900	1500	19.7
T76N	51	1600	1200	15
T103	78	2270	1800	25.3
	51	3660	2670	44.6
T111L	82	2640	2000	25
T111N	75	3650	2750	34.5
T127	111	2320	2030	28.9
T130	80	7940	5250	75

High Strength Thread Bar system

Surface: Hot dipped galvanized available;
 Epoxy coated available;
 Anti-rust processing available



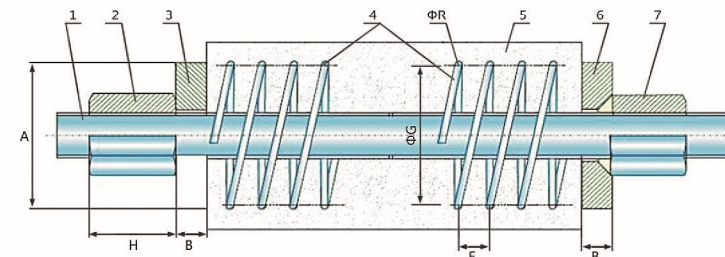
Diameter /mm	dh/mm		dv/mm		h/mm		b/mm		l/mm		r/mm	α
	Size	Tolerance	Size	Tolerance	Size	Tolerance	Size	Tolerance	Size	Tolerance		
15	14.7	±0.2	14.4	±0.5	1.0	±0.2	4.2	±0.3	10.0	±0.2	0.5	78.5°
20	20.0	±0.4	20.0	+0.4-0.8	1.3	±0.3	4.8	±0.5	10.0		1.2	80.5°
25	25.0		25.0	+0.4-0.8	1.6		6.0		12.0		1.5	81°
28	27.3		26.8	+0.4-0.8	1.8		6.5		14		2	81.5°
32	32.0	±0.5	32.0	+0.5-1.2	2.0	±0.4	7.0	±0.3	16.0	±0.3	2.0	81.5°
36	36.0		36.0		2.2	±0.4	8.0		18.0		2.5	81.5°
40	40.0		40.0		2.5	±0.5	8.0		20.0		2.5	81.5°
50	50.0		50.0		3.0	-0.5	9.0		24.0		2.5	81.8°
63.5	63.5		63.5		3.0	±0.6	12.0		22.0		2.5	84°



Mechanical Properties of High Strength Thread Bar

Mechanical Properties																		
Diameter /mm	Cross-sectional area/mm²	Weight (kg/m)	PSB500				PSB830				PSB930				PSB1080			
			Min Yield Stress/Load		Min Ultimate Stress/Load		Min Yield Stress/Load		Min Ultimate Stress/Load		Min Yield Stress/Load		Min Ultimate Stress/Load					
			Mpa	KN	Mpa	KN	Mpa	KN	Mpa	KN	Mpa	KN	Mpa	KN				
15	177	1.4	500	89	630	112	830	147	1030	182	950	168	1050	186	1080	191	1230	218
20	314	2.47	500	157	630	198	830	261	1030	323	930	292	1080	339	1080	339	1230	386
25	491	4.1	500	246	630	309	830	408	1030	506	930	457	1080	530	1080	530	1230	604
28	616	5.1	500	308	630	388	830	511	1030	634	930	573	1080	665	1080	665	1230	758
32	804	6.65	500	402	630	507	830	667	1030	828	930	748	1080	868	1080	868	1230	989
36	1018	8.41	500	509	630	641	830	845	1030	1049	930	947	1080	1099	1080	1099	1230	1252
40	1257	10.34	500	629	630	792	830	1043	1030	1295	930	1169	1080	1358	1080	1358	1230	1546
50	1963	16.28	500	982	630	1237	830	1629	1030	2022	930	1826	1080	2120	1080	2120	1230	2414
63.5	3167	26.5	500	1584	630	1995	830	2629	1030	3262	930	2945	1080	3420	1080	3420	1230	3895
75	4418	36.9	500	2209	630	2783	830	3667	1030	4551	930	4109	1080	4771	1080	4771	1230	5434
Elongation at fracture A/%			≥ 10				≥ 7				≥ 7				≥ 6			
Total Elongation at max force Agt/%			≥ 3.5															
Relaxation at 1000h			≤ 4															
Modulus of elasticity/Mpa			2x10 ⁵															

High Strength Thread Bar and Accessory



- 1 Full Thread Bar
精轧螺纹钢
- 2 Flat Hex Nut
平螺母
- 3 Flat Plate
平垫板
- 4 Spiral Rod
螺旋筋
- 5 Concrete
混凝土
- 6 Spherical Plate
锥垫板
- 7 Spherical Hex Nut
锥螺母



Drill bit▶▶

Type	Specification	Material	Weight(kg)	Height(mm)
Steal Cross bit (EX)	R25/ D42mm	42CrMo	0.28	56
	R32 D45mm	42CrMo	0.31	56
	R32 D51mm	42CrMo	0.36	56
	R38 D76mm	42CrMo	1.2	80
	R38 D90mm	42CrMo	1.53	80
	R51 / D115mm	42CrMo	3.61	100
	T30/D51mm	42CrMo	0.41	56
	T40/ D76mm	42CrMo	1.21	80
	T76/D130mm	42CrMo	3.92	100
Cross button bit (EXX)	76/ D150mm	42CrMo	6.1	110
	R25 /D42mm	40CR	0.3	58
	R32 /D45mm	40CR	0.38	56
	R32/ D51mm	40CR	0.42	56
	R38 /D76mm	40CR	1.27	85
	T30/D51mm	40CR	0.42	56
	T40/ D76mm	40CR	1.27	80
	T40/D90mm	40CR	2.1	90
	R51/D100mm	40CR	3.2	90
Drill button bit (ESS)	R51 /D115mm	40CR	3.5	100
	T76 /D130mm	40CR	3.61	100
	T76 /D150mm	40CR	6.27	125
	R25/D42mm	40CR	0.33	60
	R32/D45mm	40CR	0.35	60
	R32/D51mm	40CR	0.49	60
	R38/D76mm	40CR	1.447	82
	R38/D90mm	40CR	2.73	100
	R51/D100mm	40CR	2.81	100
	R51/D115mm	40CR	3.72	110
	T76/D130mm	40CR	6.78	120



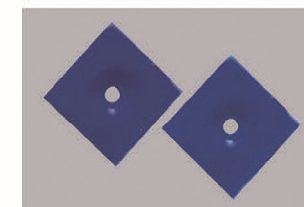
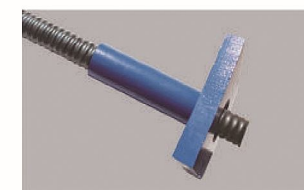
Coupling▶▶



Type	Outside Diameter (mm)	Length (mm)	Weight
R25	36	150	0.6
R32L	42	145	0.72
R32N	42	160	0.8
R32S.R32SS	42	190	0.96
R38	52	220	1.8
R51L	63	140	1.26
R51N	63	200	1.9
T30	38	105	0.42
T40-20mm	54	140	1.15
T40-16mm	57	140	1.54
T52	70	160	2.3
73	95	235	4.3
T76N	95	200	4.3
T76S	97	220	5.35
T103	123	255	7.45

Pressure plate▶▶

Type	Size (mm)	Thickness (mm)	Hole diameter (mm)	Weight (kg)
R25N	150x150	8	30	1.4
R32L, R32N	200x200	10	35	3.0
R32S, R32SS	200x200	12	35	3.3
R38N	200x200	12	41	3.6
R51L	200x200	30	60	8.8
R51N	250x250	40	60	18.5
T30	200x200	8	36	2.46
T40-20mm	200x200	12	54	3.5
T40-16mm	200x200	15	54	4.58
T52	220x220	35	65	12.1
T73	250x250	40	80	18
T76	250x250	40	80	18
T103	300x300	50	110	32.6



Nut▶▶



Type	Key size(mm)	Length(mm)	Weight(kg)
R25N	41	35	0.25
R32L, R32N	46	45	0.35
R32S, R32SS	46	65	0.53
R38N	50	60	0.5
51L, R51N	75	70	1.5
T30	46	35	0.36
T40	65	50	0.85
T52	80	70	2.35
T73	95	70	2.2
T76	100	80	2.66
T103	125	80	3.42



Laboratory and experimental equipment ▶▶



科技引领 创新未来

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TESTING CENTER





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我们能做什么?

Seamless steel pipe,
galvanized welded pipe and profiled pipe,
Hollow grouting anchor rod and drill bit,
screw nut,

