SHANDONG SAIGAO GROUP CORPORATION

企业简介 *Introduction*

油机械设计研究，加工制造，销售服务和出口贸易为一体的公司，主要生产并销售螺杆钻具，泥浆泵，油管，套管，以及各种井下工具和井口设备，我公司产品市场已覆盖中国各大油田，并出口到美国，加拿大，土耳其，俄罗斯，印度，中东，北非，乌克兰等国家和地区。

公司坚持“顾客至上，质量第一”的宗旨，以一流的产品，一流的服务，竭诚为广大用户服务。真诚欢迎海内外朋友和客户来我公司洽谈业务，合资合作，携手共进。

Zone. Our corporation specializing in design, research and development, processing and manufacturing, sales and export of petroleum machinery equipments, with leading products comprising downhole motors, mud pumps, tubing, casing, cementing tools,any kinds of wellhead equipments, and so on. At meantime, we deal with any kinds of any other petroleum machinery equipments. Saigao products have been saled to domestic oilfields, and mainly exported to USA , Canada , India , Russia , Middle East , Ukraine and so on.

Insist on the aim of “Customer is first; Quality is first”, we will try our best to serve all clients with super products, first-class service with all our hearts, we welcome all customers, partners, and friends from all over the world come to our company for business discussion, good cooperation, and joint venture to go to forward hand in hand.

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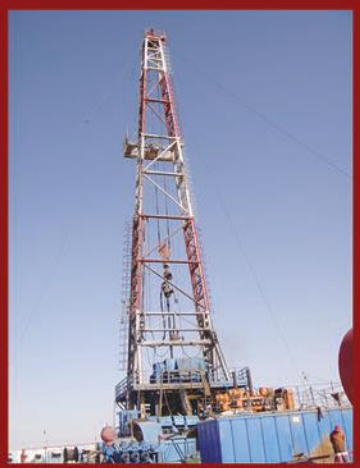

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企业概况

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General Situation

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螺杆钻具 *Downhole Motor*

螺杆钻具是一种容积式马达。高压钻井液由钻杆进入螺杆钻具后，液压转化为机械能，转子带动主轴和钻头旋转，钻头钻进，达到钻井的目的。我公司可生产LZ系列2-3/8″ --11-1/4″ 等各种规格螺杆钻具，比如：可调角度螺杆钻具，耐饱和盐水泥浆螺杆钻具和高温型螺杆钻具等等。

Down-hole motor is a positive-displacement motor. The high pressure fluid enter into the motor , making the fluid converted into mechanical energy ,and the motor drive the principal shaft and bit rotating to drill.

We can supply a complete line of drilling motor ranging from 2-3/8″ OD to 11 1/4″ OD, different types and specifications, such as ABH (adjustable bend housing) and oil based mud or high temperature etc.

技术规格和参数

Technical Specifications And Parameters

钻具型号 Model Of Downhole Motors		5LZ73 ×7.0	5LZ89 ×7.0	5LZ95 ×7.0	5LZ120 ×7.0	5LZ120 II ×7.0	5LZ165 ×7.0	5LZ165 ×7.0IV	5LZ165 ×7.0V	5LZ172 ×7.0IV	5LZ172 ×7.0V	5LZ197 ×7.0V	5LZ197 ×7.0VI	5LZ203 ×7.0	5LZ203 ×7.0V	5LZ215 ×7.0	7LZ244 ×7.0
适合井眼 Well Size		$3^1/_8$~$4^3/_4$	$4^1/_2$~6	$4^5/_8$~6	$5^7/_8$~$7^7/_8$	$5^7/_8$~$7^7/_8$	$8^3/_8$~$9^7/_8$	$8^3/_8$~$9^7/_8$	$8^3/_8$~$9^7/_8$	$8^3/_8$~$9^7/_8$	$8^3/_8$~$9^7/_8$	$9^7/_8$~$12^1/_4$	$9^7/_8$~$12^1/_4$	$9^7/_8$~$12^1/_4$	$9^7/_8$~$12^1/_4$	$12^1/_4$~$15^1/_4$	$12^1/_4$~$17^1/_2$
流量范围 Flow Rate L/S		2~4	3~8	8~13	9~14	9~16	20~28	20~28	20~28	25~35	25~35	30~50/60	30~50/60	30~50/60	30~50/60	30~50	50~75
钻头转速Rpm Bit Rev		125~220	95~200	80~165	95~200	95~200	90~160	90~160	90~160	90~160	90~160	90~160	90~160	90~160	90~160	100~160	85~140
马达压降Mpa Pressure Drop If Motor		2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.0	3.2	4.0	4.0	4.8	3.2	4.0	3.2	3.2
工作扭矩N.m Working Torque		320	560	1200	1350	1700	3300	4500	5600	5300	6600	8800	10000	8500	10000	11000	17000
制动扭矩N.m Max Torque		560	980	2100	2360	2950	5775	7875	9800	9275	11550	12180	14000	11900	14000	19250	24650
输出功率Kw Output Power		4.2~7.4	5.6~11.7	10~20.7	13.4~28.3	16.9~35.6	31.1~55.3	42.4~75.4	52.8~93.8	49.9~88.8	62.2~110.6	83~145	94~167	80~142	94~165	115.2~184.3	151~249
钻头水眼压降Kw Bit diff.Pressure		1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7	1.4~7
推荐钻压 T Recommended Drilling Pressure		1.5	2	2.5	3	3	6	8	10	8	10	17	18	16	17	17	22
最大钻压 T Max Drilling Pressure		2	3	5	5	5	16	16	16	16	16	25	26	24	25	28	33
联结螺纹 Connection	上母 (REG) Box-up	$2^3/_8$ TBG	$2^3/_8$	$2^7/_8$	$3^1/_2$	$3^1/_2$	$4^1/_2$	$4^1/_2$	$4^1/_2$	$4^1/_2$	$4^1/_2$	$5^1/_2$	$5^1/_2$	$5^1/_2$	$5^1/_2$	$5^1/_2$	$6^5/_8$
	下母 (REG) Box-down	$2^3/_8$	$2^3/_8$	$2^7/_8$	$3^1/_2$	$3^1/_2$	$4^1/_2$	$4^1/_2$	$4^1/_2$	$4^1/_2$	$4^1/_2$	$6^5/_8$	$6^5/_8$	$6^5/_8$	$6^5/_8$	$6^5/_8$	$6(7)^5/_8$
直体 Vertical		3670	2700	4035	3385	4555	5860	6770	7665	6730	7630	9050	10200	7900	9050	8480	9510
单弯 Single-bend				4035	3900	4555	5860	6770	7665	6730	7630	9050	10200	7900	9050	8480	9510
钻具长（mm） Length	双弯 Double-bend			4185	4060	4715	6110	7020	7915	6980	7880	9350	10500	8200	9350	8780	9810
直体 Vertical		85	83	140	200	265	668	730	810	809	913	1395	1646	1262	1512	1440	1830
钻具重（kg） Weight	单弯 Single-bend			145	248	270	688	750	830	830	934	433	1689	1300	1550	1473	1930
双弯 Double-bend				150	258	280	714	776	856	858	962	1478		1345	1595	1528	2005

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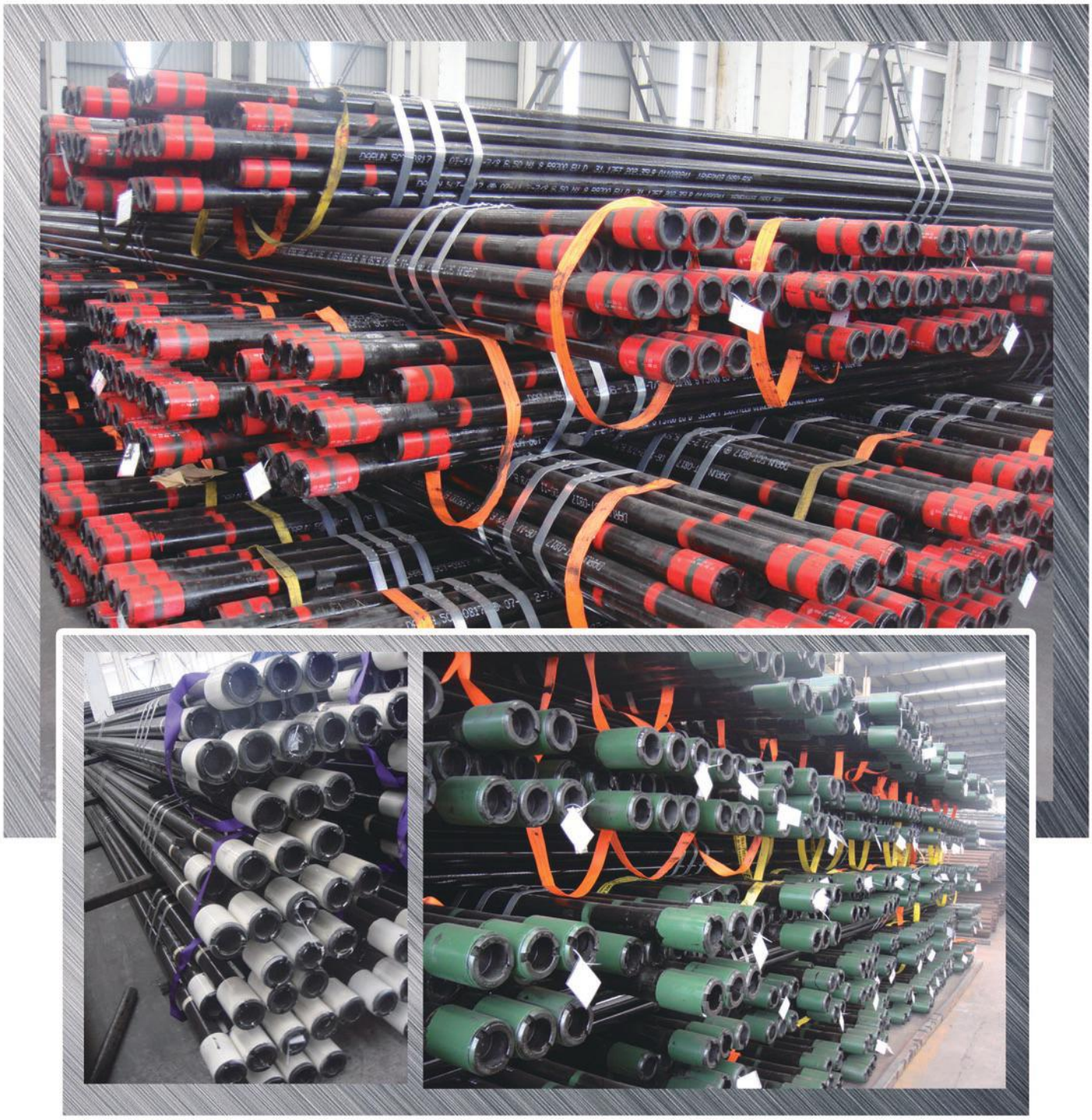
油 管 *Tubing*



技术规格和参数

Technical Specifications And Parameters

代号 " Labels "			外径 Outside diameter	名义重量 " Nominal linear masses Labels		壁厚 Wall thickness	端部加工形式 " Type of end finish				
1	2			不加厚带螺纹和接箍 Nonupset T&C	外加厚带螺纹和接箍 Ext. upset T&C						
	不外加厚带螺纹和接箍 NU T&C	外加厚带螺纹和接箍 EU T&C	D mm	kg/m	kg/m	t mm	H40	J55	L80	N80 I类、Q	P110
1	2	3	4	5	6	7	8	9	10	11	12
2-3/8	4.00	–	60.32	5.95	–	4.24	U	N	N	N	–
2-3/8	4.60	4.70	60.32	6.85	6.99	4.83	NU	NU	NU	NU	NU
2-3/8	5.80	5.95	60.32	8.63	8.85	6.45	–	–	NU	NU	NU
2-3/8	7.35	7.45	60.32	10.94	11.09	8.53	–	–	U	–	–
2-7/8	6.40	6.50	73.02	9.52	9.67	5.51	NU	NU	NU	NU	NU
2-7/8	7.80	7.90	73.02	11.61	11.76	7.01	–	–	NU	NU	NU
2-7/8	8.60	8.70	73.02	12.80	12.95	7.82	–	–	NU	NU	NU
2-7/8	9.35	9.45	73.02	13.91	14.06	8.64	–	–	–	–	–
3-1/2	7.70	–	88.90	11.46	–	5.49	U	N	N	N	–
3-1/2	9.20	9.30	88.90	13.69	13.84	6.45	NU	NU	NU	NU	NU
3-1/2	10.20	–	88.90	15.18	–	7.34	N	N	N	N	–
3-1/2	12.70	12.95	88.90	18.90	19.27	9.52	–	–	NU	NU	NU
4	9.50	–	101.60	14.14	–	5.74	N	N	N	N	N
4	10.70	11.00	101.60	–	16.37	6.65	U	U	U	U	U
4-1/2	12.60	12.75	114.30	18.75	18.97	6.88	NU	NU	NU	NU	NU
N不加厚带螺纹和接箍，U外加厚带螺纹和接箍，整体接头。 N=Non-upset threaded and coupled,U=External upset threaded and coupled,I=Integral joint.											

a 所示带螺纹和接箍的名义重量（第2-4栏）仅供参考。

Nominal linear masses,threads and coupling(col,2-4)are shown for reference only

b 马氏体铬钢（L80 9Cr和13Cr）的密度不同于碳钢，因此，表中给出的重量对马氏体铬钢来说不是精确值。可采用重量校正系数0.989.

The densities of martensite chromium steels(L80 types 9Cr and 13Cr) are different from carbon steels, Therefore the masses values shown above are not accurate to martensite chromium steels, A mass correction factor of 0.989 may be used.

c 不加厚油管供货时带标准接箍或特殊倒角接箍。外加厚油管供货时带标准接箍、特殊倒角接箍或特殊间隙接箍。

Non-upset tubing is available with regular couplings or special bevel couplings.Extemal-upset tubing is available with regulars, special-bevel,or special clearance couplings.

d C90、T95和Q125钢级油管应按上表或订单所列的规格、重量和壁厚供货。

Grade C90、T95and Q125 casing shall be fumished with sizes.masses and wall thickness shown above or on the purchase agreement.

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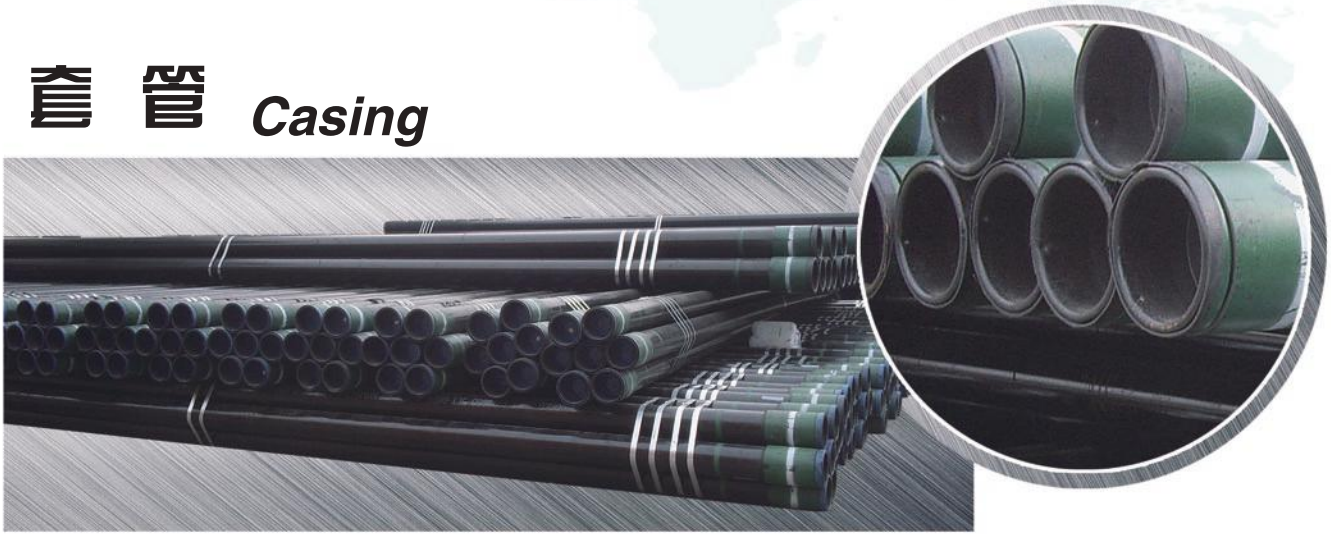
套 管 *Casing*



技术规格和参数

Technical Specifications And Parameters

代号 " Labels "		外径 Outside diameter	带螺纹和接箍名义重量 b,c Norminal linear masses T&C	壁厚 Wall thickness	端部加工形式 Type of end-finish					
		D mm	kg/m	t mm	H40	J55 K55	L80 C95	N80 I类 N80 Q类	C90 T95	P110
1	2	3	4	5	6	7	8	9	10	11
4−1/2	9.50	114.30	14.14	5.21	S	S	–	–	–	–
4−1/2	10.50	114.30	15.63	5.69	–	SB	–	–	–	–
4−1/2	11.60	114.30	17.26	6.35	–	SLB	LB	LB	LB	LB
4−1/2	13.50	114.30	20.09	7.37	–	–	LB	LB	LB	LB
4−1/2	15.10	114.30	22.47	8.56	–	–	–	–	–	LB
5	11.50	127.00	17.11	5.59	–	S	–	–	–	–
5	13.00	127.00	19.35	6.43	–	SLB	–	–	–	–
5	15.00	127.00	22.32	7.52	–	SLB	LB	LB	LB	LB
5	18.00	127.00	26.79	9.19	–	–	LB	LB	LB	LB
5	21.40	127.00	31.85	11.10	–	–	LB	LB	LB	LB
5	23.20	127.00	34.53	12.14	–	–	LB	LB	LB	LB
5	24.10	127.00	35.86	12.70	–	–	LB	LB	LB	LB
5−1/2	14.00	139.70	20.83	6.20	S	S	–	–	–	–
5−1/2	15.50	139.70	23.07	6.98	–	SLB	–	–	–	–
5−1/2	17.00	139.70	25.30	7.72	–	SLB	LB	LB	LB	LB
5−1/2	20.00	139.70	29.76	9.17	–	–	LB	LB	LB	LB
5−1/2	23.00	139.70	34.23	10.54	–	–	LB	LB	LB	LB
6−5/8	20.00	168.28	29.76	7.32	S	SLB	–	–	–	–
6−5/8	24.00	168.28	35.72	8.94	–	SLB	LB	LB	LB	LB
6−5/8	28.00	168.28	41.67	10.59	–	–	LB	LB	LB	LB
6−5/8	32.00	168.28	47.62	12.06	–	–	LB	LB	LB	LB
7	17.00	117.80	25.30	5.87	S	–	–	–	–	–
7	20.00	117.80	29.76	6.91	S	S	–	–	–	–
7	23.00	117.80	34.23	8.05	–	SLB	LB	LB	LB	–
7	26.00	117.80	38.69	9.19	–	SLB	LB	LB	LB	LB
7	29.00	117.80	43.16	10.36	–	–	LB	LB	LB	LB
7	32.00	117.80	47.62	11.51	–	–	LB	LB	LB	LB
7	35.00	117.80	52.09	12.65	–	–	LB	LB	LB	LB
7	38.00	117.80	56.55	13.72	–	–	LB	LB	LB	LB
7−5/8	24.00	193.68	35.72	7.62	S	–	–	–	–	–
7−5/8	26.40	193.68	39.29	8.33	–	SLB	LB	LB	LB	–
7−5/8	29.70	193.68	44.20	9.52	–	–	LB	LB	LB	LB
7−5/8	33.70	193.68	50.15	10.92	–	–	LB	LB	LB	LB

技术规格和参数

Technical Specifications And Parameters

代号 " Labels "		外径 Outside diameter	带螺纹和接箍名义重量 b,c Norminal linear masses T&C	壁厚 Wall thickness	端部加工形式 " Type of end-finish					
		D mm	kg/m	t mm	H40	J55 K55	L80 C95	N80 I类 N80 Q类	C90 T95	P110
1	2	3	4	5	6	7	8	9	10	11
7-5/8	39.00	193.68	58.04	12.70	–	–	LB	LB	LB	LB
7-5/8	42.80	193.68	63.69	14.27	–	–	LB	LB	LB	LB
7-5/8	45.30	193.68	67.41	15.11	–	–	LB	LB	LB	LB
7-5/8	47.10	193.68	70.09	15.88	–	–	LB	LB	LB	LB
8-5/8	24.00	219.08	35.72	6.71	–	S	–	–	–	–
8-5/8	28.00	219.08	41.67	7.72	S	–	–	–	–	–
8-5/8	32.00	219.08	47.62	8.94	S	SLB	–	–	–	–
8-5/8	36.00	219.08	53.57	10.16	–	SLB	LB	LB	LB	–
8-5/8	40.00	219.08	59.53	11.43	–	–	LB	LB	LB	LB
8-5/8	44.00	219.08	65.48	12.70	–	–	LB	LB	LB	LB
8-5/8	49.00	219.08	72.92	14.15	–	–	LB	LB	LB	LB
9-5/8	32.30	244.48	48.07	7.92	S	–	–	–	–	–
9-5/8	36.00	244.48	53.57	8.94	S	SLB	–	–	–	–
9-5/8	40.00	244.48	59.53	10.03	–	SLB	LB	LB	LB	–
9-5/8	43.50	244.48	64.73	11.05	–	–	LB	LB	LB	LB
9-5/8	47.00	244.48	69.94	11.99	–	–	LB	LB	LB	LB
9-5/8	53.50	244.48	79.62	13.84	–	–	LB	LB	LB	LB
9-5/8	58.40	244.48	86.91	15.11	–	–	LB	LB	LB	LB
10-3/4	32.75	273.05	48.74	7.09	S	–	–	–	–	–
10-3/4	40.50	273.05	60.27	8.89	S	SB	–	–	–	–
10-3/4	45.50	273.05	67.71	10.16	–	SB	–	–	–	–
10-3/4	51.00	273.05	75.90	11.43	–	SB	SB	SB	SB	SB
10-3/4	55.50	273.05	82.59	12.57	–	–	SB	SB	SB	SB
10-3/4	60.70	273.05	90.33	13.84	–	–	–	–	SB	SB
10-3/4	65.70	273.05	97.77	15.11	–	–	–	–	SB	SB
11-3/4	42.00	298.45	62.50	8.46	S	–	–	–	–	–
11-3/4	47.00	298.45	69.94	9.53	–	SB	–	–	–	–
11-3/4	54.00	298.45	80.36	11.05	–	SB	–	–	–	–
11-3/4	60.00	298.45	89.29	12.42	–	SB	SB	SB	SB	SB
13-3/8	48.00	339.72	71.43	8.38	S	–	–	–	–	–
13-3/8	54.50	339.72	81.10	9.65	–	SB	–	–	–	–
13-3/8	61.00	339.72	90.78	10.92	–	SB	–	–	–	–
13-3/8	68.00	339.72	101.19	12.19	–	SB	SB	SB	SB	SB
13-3/8	72.00	339.72	107.15	13.06	–	–	SB	SB	SB	SB
16	65.00	406.40	96.73	9.53	S	–	–	–	–	–
16	75.00	406.40	111.61	11.13	–	SB	–	–	–	–
16	84.00	406.40	125.01	12.57	–	SB	–	–	–	–
18-5/8	87.50	473.08	130.21	11.05	S	SB	–	–	–	–
20	94.00	508.00	139.89	11.13	SL	SLB	–	–	–	–
20	106.50	508.00	158.49	12.70	–	SLB	–	–	–	–
20	133.00	508.00	197.93	16.13	–	SLB	–	–	–	–

S–短圆螺纹；L–长圆螺纹；B–偏梯形螺纹。

S–Short round thread, L–Long round thread,B–Buttress thread.

a 代号供订货时参考。

a Labels are for information and assistance in ordering.

b 所示带螺纹和接箍名义重量（第2栏）仅供参考。

b Nominal linear masses,threaded and coupled(col.2)are shown for information only.

c 马氏体铬钢（L80 9Cr和13Cr）的密度不同于碳钢。因此；所示重量对马氏体铬钢来说不是精确值。

c The densities of martensitic chromium steels(L80 types 9Cr and 13Cr)are different from carbon steels.The masses shown are therefore not accurate for martensitic chromium steels.A mass correction factor of 0.989 may be used.

d C90、T95和Q125钢级套管应按上表或订单上所列的规格、重量和壁厚供货。

d Grade C90、T95 and Q125 casing shall be furnished with sizes. masses and wall thickness shown above or on the purchase agreement.

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钻 铤 *Drill Collar*

普通钻铤 *Drill Collar*

技术规格和参数

Technical Specifications And Parameters

钻铤编号 Drill Collar Number	外径 Outside Diameter		内径 Inside Diameter		长度 Length	台肩倒角直径DF Bevel	参考的弯曲强试比 Ref bend g
	(mm)	(in)	(mm)	(in)	(mm)	Diameter	Strength ratio
NC23–31	79.4	3 1/8	31.8	1 1/2	9150	76.2	2.57 : 1
NC26–35(2 3/8 IF)	88.9	3 1/2	38.1	1 1/2	9150	82.9	2.42 : 1
NC31–41(2 7/8 IF)	104.8	4 1/8	50.8	2	9150	100.4	2.43 : 1
NC35–47	120.6	4 3/4	50.8	2	9150	114.7	2.58 : 1
NC38–50(3 1/2 IF)	127.0	5	57.2	2 1/4	9150	121.0	2.38 : 1
NC44–60	152.4	6	57.2	2 1/4	9150&9450	144.5	2.49 : 1
NC44–60	152.4	6	71.4	2 13/16	9150&9450	144.5	2.84 : 1
NC44–62	158.8	6 1/4	57.2	2 1/4	9150&9450	149.2	2.91 : 1
NC46–62(4IF)	158.8	6 1/4	71.4	2 13/16	9150&9450	150.0	2.63 : 1
NC46–65(4IF)	165.1	6 1/2	57.2	2 1/4	9150&9450	154.8	2.76 : 1
NC46–65(4IF)	165.1	6 1/2	71.4	2 13/16	9150&9450	154.8	3.05 : 1
NC–46–67(4IF)	171.4	6 3/4	57.2	2 1/4	9150&9450	159.5	3.18 : 1
NC50–67(4 1/2 IF)	171.4	6 3/4	71.4	2 13/16	9150&9450	159.5	2.37 : 1
NC50–70(4 1/2 IF)	177.8	7	57.2	2 1/4	9150&9450	164.7	2.54 : 1
NC50–70(4 1/2 IF)	177.8	7	71.4	2 13/16	9150&9450	164.7	2.73 : 1
NC50–72(4 1/2 IF)	184.2	7 1/4	71.4	2 13/16	9150&9450	169.5	3.12 : 1
NC56–77	196.8	7 3/4	71.4	2 13/16	9150&9450	185.3	2.70 : 1
NC56–80	203.2	8	71.4	2 13/16	9150&9450	190.1	3.02 : 1
6 5/8 REG	209.6	8 1/4	71.4	2 13/16	9150&9450	195.7	2.93 : 1
NC61–90	228.6	9	71.4	2 13/16	9150&9450	212.6	3.17 : 1
7 5/8 REG	241.3	9 1/2	76.2	3	9150&9450	223.8	2.81 : 1
NC70–97	247.6	9 3/4	76.2	3	9150&9450	232.8	2.57 : 1
NC70–100	254	10	76.2	3	9150&9450	237.3	2.81 : 1
8 5/8 REG	279.4	11	76.2	3	9150&9450	266.7	2.84 : 1

技术规格和参数

Technical Specifications And Parameters

螺旋钻铤 *Spiral Drill Collar*

外径 O.D.		切削深度 Cutting depth		导程±25.4 Lead
(mm)	(in)	A (mm)	B (mm)	(mm)
86	3 3/8	3.5±0.79		679
98.4	3 7/8	4.0±0.79		914
101.6~111.1	4~4 1/8	4.8±0.79		914
114.3~130.2	4 1/2~5 1/8	5.6±0.79		965
133.4~146.1	5 1/4~5 3/4	6.4±0.79		1067
149.2~161.9	5 7/8~6 3/8	7.1±1.59		1067
165.1~177.8	6 1/2~7	7.9±1.59		1168
181.0~200.0	7 1/8~7 7/8	8.7±1.59	5.6±0.79	1626
203.2~225.4	8~8 7/8	9.5±1.59	6.4±0.79	1727
228.6~250.8	9~9 7/8	10.3±2.37	7.1±1.59	1829
254.0~276.2	10~10 7/8	11.1±2.37	7.9±1.59	1930
279.4	11	11.9±2.37	8.7±1.59	2032

带吊卡槽，卡瓦槽螺旋钻铤Spiral Drill Collar With Elevator And Slip Groove

钻铤外径 Drill collar ranges O.D.(mm)	吊卡槽深 Elevator groove depth (mm)	吊卡槽长 Elevator groove length (mm)	卡瓦槽深 Slip groove depth (mm)	卡瓦槽长 Slip groove length (mm)
101.6~117.5	5.6	406	4.8	457
120.6~142.9	6.4	406	4.8	457
146.0~168.3	7.9	406	6.4	457
171.4~219.1	9.5	406	6.4	457
≥222.2	11.1	406	6.4	457

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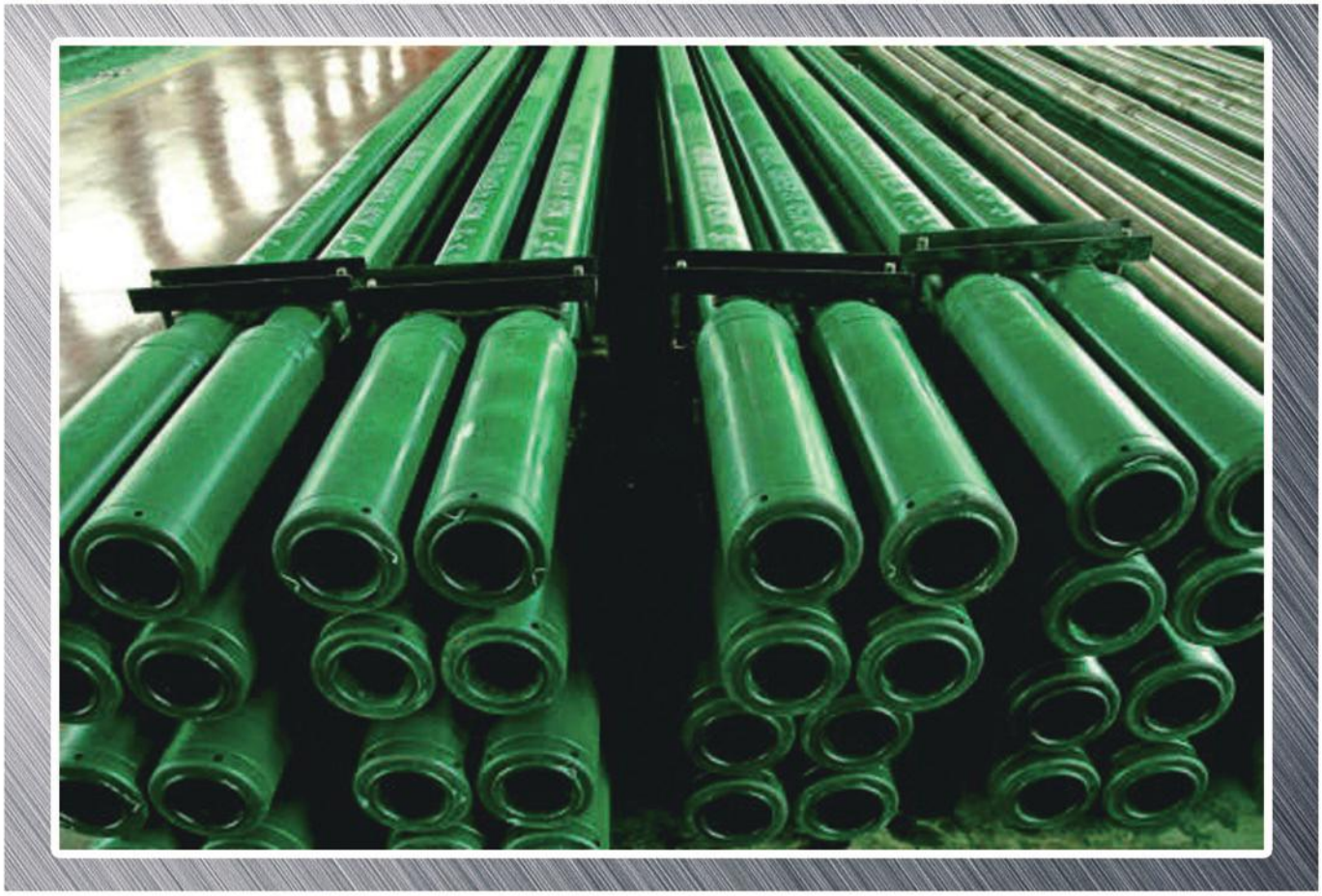
钻 杆 *Drill Pipe*



技术规格和参数

Technical Specifications And Parameters

普通钻杆 *Drill Pipe*

规格 Size	名义重量 Weight Designation	计算平端重量 Caculated Plain End Weight		外径 Outside Diameter		壁厚 Wall Thickness		等级 Grade	加厚端，供对焊钻杆接头用 Upset Ends For welding Tool Joints
		Lb/ft	kg/m	In	mm	In	mm		
		Wpe		P		t			
2 3/8	6.65	6.27	9.33	2.375	60.3	0.280	7.11	E,X,G,S	外加厚 EU
2 7/8	10.40	9.72	14.47	2.875	73.0	0.362	9.19	E,X,G,S	内或外加厚 IU or EU
3 1/2	9.50	8.81	13.12	3.500	88.9	0.254	6.45	E	内或外加厚 IU or EU
3 1/2	13.30	12.32	18.34	3.500	88.9	0.368	9.35	E,X,G,S	内或外加厚 IU or EU
3 1/2	15.50	14.64	21.79	3.500	88.9	0.449	11.40	E	内或外加厚 IU or EU
3 1/2	15.50	14.64	21.79	3.500	88.9	0.449	11.40	X,G,S	外或内外加厚 EU or IEU
4	14.00	12.95	19.27	4.000	101.6	0.330	8.38	E,X,G,S	内或外加厚 IU or EU
4 1/2	13.75	12.25	18.23	4.500	114.3	0.271	6.88	E	内或外加厚 IU or EU
4 1/2	16.60	15.00	22.32	4.500	114.3	0.337	8.56	E,X,G,S	外或外加厚 EU or IU
4 1/2	20.00	18.71	27.84	4.500	114.3	0.430	10.92	E,X,G,S	外或外加厚 EU or IU
5	16.25	14.88	22.16	5.000	127.0	0.296	7.52	X,G,S	内加厚 IU
5	19.50	17.95	26.70	5.000	127.0	0.362	9.19	E	内一外加厚 IEU
5	19.50	17.95	26.70	5.000	127.0	0.362	9.19	X,G,S	外或内加厚 EU or IU
5	25.60	24.05	35.80	5.000	127.0	0.500	12.70	E	内加厚 IU
5	25.60	24.05	35.80	5.000	127.0	0.500	12.70	X,G,S	外或内加厚 EU or IU
5 1/2	21.90	19.83	29.52	5.500	139.7	0.361	9.17	E,X,G,S	内一外加厚 IEU
5 1/2	24.70	22.56	33.57	5.500	139.7	0.415	10.54	E,X,G,S	内一外加厚 IEU
6 5/8	25.20	22.21	33.04	6.625	168.3	0.330	8.38	E,X,G,S	内一外加厚 IEU
6 5/8	27.72	24.24	36.06	6.625	168.3	0.362	9.19	E,X,G,S	内一外加厚 IEU

技术规格和参数

Technical Specifications And Parameters

整体加重钻杆 *Integral Heavy Weight Drill Pipe*

尺寸 Size (in)	外径 O.D. (in)	内径 I.D. (in)	接头外径 Tool joint O.D.(in)	接头内径 Tool joint I.D.(in)	连接扣型 Connection	最大吊卡直径 Max.elevator diameter(in)	中间加厚直径 Central upset dia.(in)	最小通径尺寸 Min.drift dia size(in)
3 1/2	3 1/2	2 1/4	4 3/4 (4 7/8, 5)	2 1/4	NC38	3 7/8	4	2
		2 1/16		2 1/16				1 13/16
4	4	2 1/2	5 1/4	2 1/2	NC40	4 3/16	4 1/2	2 1/4
		2 9/16		2 9/16				2 5/16
4 1/2	4 1/2	2 11/16	6 1/4	2 11/16	NC46	4 11/16	5	2 7/16
		2 3/4		2 3/4				2 1/2
		2 13/16		2 13/16				2 9/16
5	5	3	6 5/8	3	NC50	5 1/8	5 1/2	2 3/4
5 1/2	5 1/2	3 1/4	7 (7 1/4, 7 1/2)	3 1/4	5 1/2 FH	5 11/16	6	3
		3 3/8		3 3/8				3 1/8
		3 7/8		3 7/8				3 5/8
		4		4				3 3/4
6 5/8	6 5/8	4	8 (8 1/4, 8 1/2)	4	6 5/8 FH	6 15/16	7 1/8	3 3/4
		4 1/2		4 1/2				4 1/4
		5		5				4 3/4

整体螺旋加重钻杆 *Integral Spiral Heavy Weight Drill Pipe*

规格 Size mm(in)	管体 Pipe Body					接 头 Tool Joint		
	内径 I.D. (mm)	吊卡加厚 Elevator upset (mm)	吊卡槽/卡瓦外径 Elevator/slip groove O.D.(mm)	螺旋处外径 Spiral O.D. (mm)	螺旋槽深 Spiral depth (mm)	螺纹类型 Connection	外径 O.D.(mm)	内径 I.D.(mm
88.9 (3 1/2)	54.0	92.1	88.9	101.6	9.5	NC38	120.6	54.0
114.3 (4 1/2)	69.8	117.5	114.3	127.0	12.7	NC46	158.8	69.8
127.0 (5)	76.2	130.2	127.0	139.7	12.7	NC50	165.1	76.2

技术规格和参数

Technical Specifications And Parameters

方钻杆 *Kelly*

规格 Size (in)	上部内螺纹接头 Upper box connection				下部外螺纹接头 Lower pin connection				内径 I.D.（mm）		驱动部分 Driving section(mm)		
	螺纹类型 Connection (LH)		外径O.D.(mm)		螺纹类型 Connection (LH)								
	标准 Std	选用 Optional	标准 Std	选用 Optional	四方 Square	外径 O.D. (mm)	六方 Hexagonal	外径 O.D. (mm)	四方 Square	六方 Hexagonal	对边宽 Cross flat	四方对角宽 For square kelly	六方对角宽 Cross corner for hexa Kelly
2 1/2	6 5/8REG	4 1/2REG	196.8	146.0	NC26	85.7			31.8		63.5	83.3	
3	6 5/8REG	4 1/2REG	196.8	146.0	NC31	104.8	NC26	85.7	44.4	31.8	76.2	100.0	85.7
3 1/2	6 5/8REG	4 1/2REG	196.8	146.0	NC38	120.6	NC31	104.8	57.2	44.4	88.9	115.1	100.8
4 1/4	6 5/8REG	4 1/2REG	196.8	146.0	NC46	158.8	NC38	120.6	71.4	57.2	108.0	141.3	122.2
	6 5/8REG	4 1/2REG	196.8	146.0	NC50	161.9	NC38	120.6	71.4	57.2	108.0	141.3	122.2
5 1/4	6 5/8REG		196.8		5 1/2FH	177.8	NC46	158.8	82.6	76.2	133.3	175.4	151.6
	6 5/8REG		196.8		NC56	177.8	NC50	161.9	82.6	82.6	133.3	175.4	151.6
6	6 5/8REG		196.8				5 1/2FH	177.8		88.9	152.4		173
	6 5/8REG		196.8				NC56	177.8		88.9	152.4		173

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泥浆泵 *Mud Pump*

技术规格和参数

Technical Specifications And Parameters

F系列泥浆泵基本参数 Technical Specifications And Parameters of Series F Mud Pump

型号 Model	F−500	F−800	F−1000	FB−1300	FB−1600	FC−2200
最大输入功率 Max input power HP(Kw)	500(373)	800(597)	1000(746)	1300(969)	1600(1193)	2200(1641)
额定冲次 Rated speed spm	165	150	140	120	120	100
缸套最大内经 Max ID of cylinder Liner In(mm)	$6^{3}/_{4}$(171)	$6^{3}/_{4}$(171)	$6^{3}/_{4}$(171)	7(177.8)	7(177.8)	8(203)
冲 程 Stroke in (mm)	$7^{1}/_{2}$(191)	9(229)	10(254)	12(304.8)	12(304.8)	15(381)
液缸水压试验压力 psi (kg/cm²) Test hydraulic pressure of hydraulic cylinder	7500(527)	7500(527)	7500(527)	7500(527)	7500(527)	7500(527)
传动比 Gear ratio	4.38	4.31	4.32	4.31	4.3	4.27
吸入管直径 Dia of suction pipe in	8	10	12	12	12	–
排出管直径 Dia of discharge pipe in	4"	5"	5"	5"	5"	–
阀规格 Specifications of valves	API5	API6	API6	API7	API7	API8
重量（不含皮带轮） Lbs(kg) Weight(exc.belt wheel)	19,900 (9,027)	26,603 (12,067)	33,770 (15,318)	45,650 (20,707)	46,820 (21,238)	79,600 (36,108)

3NB系列泥浆泵基本参数Technical Specifications And Parameters of Series 3NB Mud Pump

型号Model	3NB500C	3NB1000C	3NB1300C	3NB1600
最大输入功率Max. input power Kw(PS)	368（500）	735（1000）	956（1300）	1176（1600）
冲数Rated speed spm	95	110	120	120
冲程Stroke （mm）	254	305	305	305
齿轮传动比 Gear ratio	3.82	3.833	3.81	3.81
传动轴转数 Transmission shaft speed r/min	363	423	457	457
最高工作压力 Max.working pressure MPa	30	35	35	35
最大缸套直径Max.dia.of cylinder liner mm	160	170	180	190
吸入管直径 Dia. of suction pipe mm	254	305	305	305
排出管直径 Dia of discharge pipe mm	100	100	100	100
外形尺寸(长×宽×高) Dimension(L×W×H)	4220×2640×2430	5170×2809×2530	5010×1942×1918	4450×2850×2077
重量Weight kg	15940	21450	23000	29700

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井口装置采油树

Wellhead Assembly And X-Mas Tree

技术规格及参数Technical Specifications And Parameters:
1、公称通径（Size）:2 1/16 " ~4 1/16 "
2、工作压力（Working Pressure）：2，000～20,000PSI
3、温度（Temp）:−60° C～+121° C（K,U）
4、产品规范级别（PSL）：PSL1～4
5、产品性能级别（PR1）:PR1～2
6、材料级别（Trim）:AA~FF
选择：单管或双管 Options:Single Or Dual.

抽油杆

Sucker Rod

技术规格和参数

Technical Specifications And Parameters

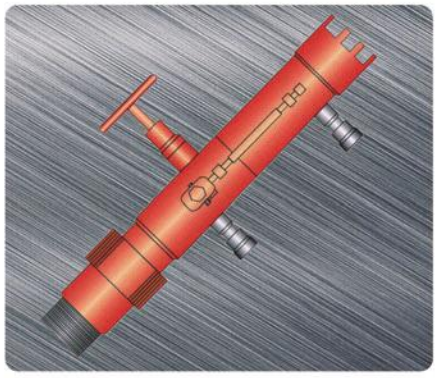
主要技术参数 Main Technical Parameter					
公称直径 Sucker Rod OD mm(in)	15.88(5/8)	19.05(3/4)	22.23(7/8)	25.40(1)	28.58(1 1/8)
螺纹公称外径 Threading OD mm (in)	23.81(15/16)	26.99 (1 1/16)	30.16 (1 3/16)	34.93 (1 3/8)	39.69 (1 9/16)
接箍外经尺寸T Coupling OD mm(in)	38.10 (1 1/2)	41.28 (1 5/8)	46.04 (1 13/16)	55.56 (2 3/16)	60.33(2 3/8)
标准长度 Standard Length mm(ft)	9140(30)； 8000(26)； 7620(25)				

力学性能指标 Mechanical Parameter			
级别 Grade	最小屈服强度MinY.S MPa(psi)	最小抗拉强度Min T.S MPa(psi)	最大抗拉强度Max T.S MPa(psi)
K	414(60000)	620(90000)	793(115000)
C			
D	586(85000)	793(115000)	965(140000)
HL	793(115000)	966(140101)	1136(164757)

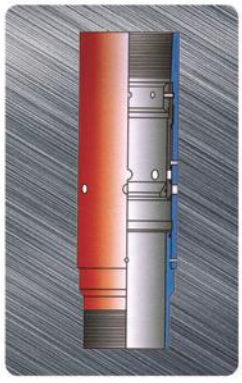
固井工具 *Cementing Tools*

尾管悬挂器	Liner hangers
液压式尾管悬挂器	Hydraulic liner hanger
机械式尾管悬挂器	Mechanical liner hanger
带封隔器尾管悬挂器	Liner hanger with top packer
旋转式尾管悬挂器	Rotating liner hanger
膨胀式尾管悬挂器	Expandable liner hanger
尾管回接工具	Liner tie-back equipment

水泥头	Cementing heads
单塞水泥头	Single plug cementing head
双塞水泥头	Double plug cementing head
钻杆水泥头	Drillpipe cementing head



分级注水泥器	Stage cementing collars
机械式分级注水泥器	Mechanical stage cementing collar
液压式分级注水水泥器	Hydraulic stage cementing collar
免钻式分级注水器	Drillout-free stage cementing collar



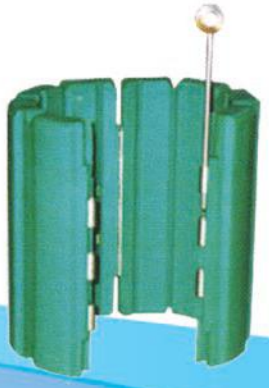
固井胶塞	Cementing plugs
常规固井胶塞	Conventional top&bottom cementing plugs
防转固井胶塞	Non-rotating top&bottom cementing plugs

浮箍、浮鞋 Float Equipment	
常规浮箍、浮鞋	Conventional float collar&float shoe
防转浮箍、浮鞋	Non-rotating float collar&float shoe
插入式浮箍、浮鞋	Stab-in float collar&float shoe
自动灌浆式浮箍、浮鞋	Auto-fill float collar&float shoe

套管扶正器 Casing centralizers	
单弓弹性扶正器	Single bow spring centralizer
双弓弹性扶正器	Double bow spring centralizer
直弓刚性扶正器	Positive bow centralizer
铸铝刚性扶正器	Cast aluminum solid centralizer
树脂刚性扶正器	Polymer centralizer
锌合金刚性扶正器	Zinc alloy solid centralizer
焊接式刚性扶正器	Welded spiral blade centralizer

卡箍 Stop collars	
内六方钉式卡箍	Slip-on stop collar
螺旋钉式卡箍	Hinged stop collar w/spiral nails
螺旋式卡箍	Hinged stop collar w/draw bolt

套管/钻杆防磨套
Casing/drillpipe protector



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