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WUXI DRILLING TOOLS FACTORY

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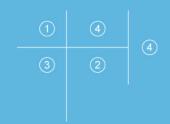












ABOUT OUR SERVICES

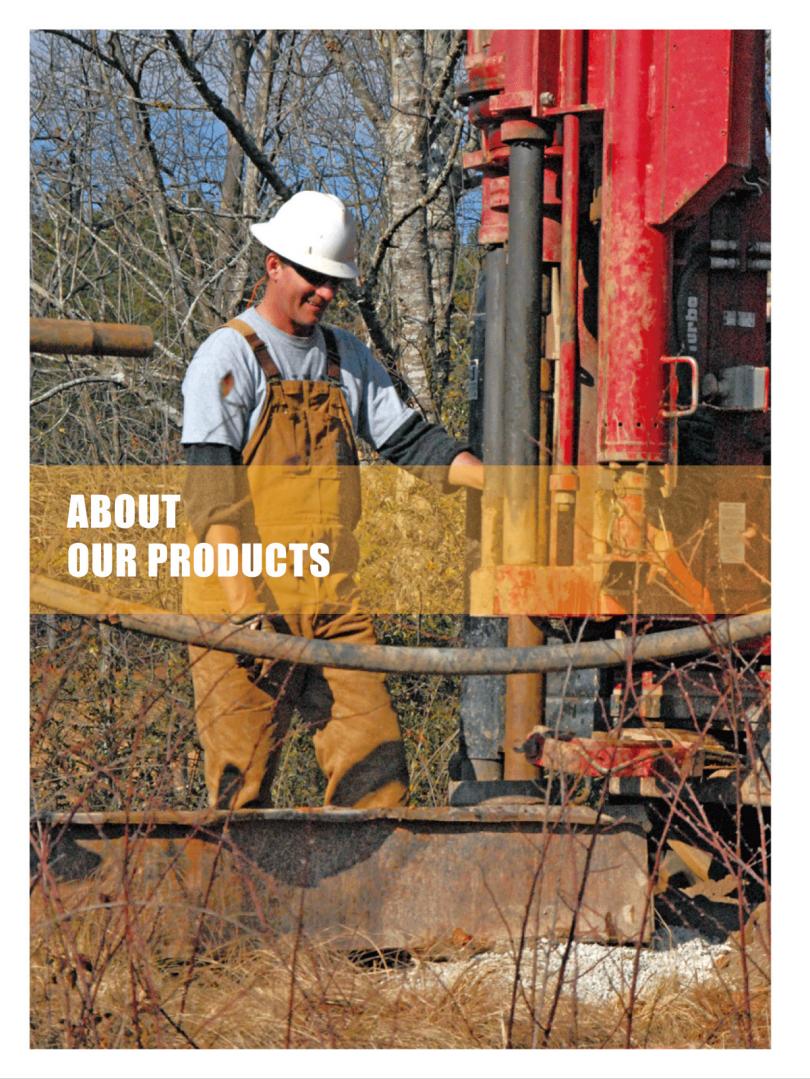
Our diamond core bits were used in China drilling skills contest

Our coring drill rod broke the deepest record in Shandong project in China (drill up to 3295m

We provide our customers with the best aftermarket support

Our drilling tools were used for the forecast of geological disasters after Wenchuan earthquake in 2008





















WIRELINE COMPONENTS

- Core barrel assembly
- Overshot assembly
- Water swivel and hoist plug
- Subs and adapters
- Wrenches



- B/N/H/P drill rod
- DCDMA Drill rod
- Casings

DIAMOND PRODUCTS

- Surface set bits
- Impregnate bits
- Tungsten carbide bits
- Casing shoe bits
- Reaming shells

OTHER TOOLS

Recovery tools







OUR DRILL ROD PRODUCTION



MASTER CORE possesses professional ability of diamond drill bits and reaming shells. Our drilling bits have first-class quality excellent performance. Bits and reaming shells are designed on basis of ground condition. In respect of drilling in speed and useful life, our products are the most competitive products in China.





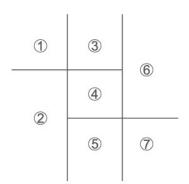








OUR DRILL BITS PRODUCTION

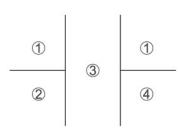


- 1 Fill diamond into the mold
- ② Set polycrystalline chips into diamond bits and reaming shells
- ③ The wear of drill bits
- 4 Casing bits
- ⑤ Reaming shells
- 6 hot-pressing technology
- ⑦ Diamond bits





OTHER TOOLS



- Diamond circle wrenches
- ② Hoist plug
- 3 Diesel winch
- 4 Water swivel

CORE BARREL AND OVERSHOT ASSEMBLY

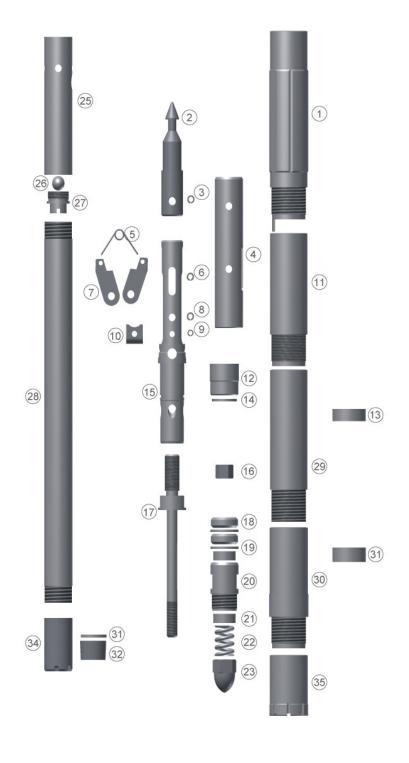
- BC ----- size B Core barrel
- BO----- size B Overshot assembly
- NC----- size N Core barre
- NO----- size N Overshot assembly
- HC----- size H Core barre
- HO----- size H Overshot assembly
- PC----- size P Core barrel
- PO----- size P Overshot assembly
- S75-SF----- size 75mm Super core barre

WUXI DRILLING TOOLS FACTORY



B Core barrel

No	Code	Name	Qty1
1	BC-01	Locking coupling	
2	BC-02	Spearhead point	1
3	BC-03	Spring pin	1
4	BC-04	Latch retracting case	1
5	BC-05	Link spring	1
6	BC-06	Spring pin	2
7	BC-07	Latch	1
8	BC-08	Spring pin	1
9	BC-09	Spring pin	1
10	BC-10	Spearhead base	1
11	BC-11	Adapter coupling	1
12	BC-12	Landing shoulder	1
13	BC-13	Landing ring	1
14	BC-14	Indicator bushing	1
15	BC-15	Upper latch body	1
16	BC-16	Hex nut	1
17	BC-17	Spindle	2
18	BC-18	Shut-off valve, hard	2
19	BC-19	Valve adjusting washer	1
20	BC-20	Hanger bearing	2
21	BC-21	Thrust bearing	1
22	BC-22	Spring	1
23	BC-23	Stover lock nut	1
24	BC-24	Grease fitting	1
25	BC-25	Inner-tube cap	1
26	BC-26	Stainless steel ball	1
27	BC-27	Seal seat	1
28	BC-28	Inner tube	1
29	BC-29	Outer tube	1
30	BC-30	Reaming shells	1
31	BC-31	Inner tube stabilizer	1
32	BC-32	Stop ring	1
33	BC-33	Core lifter	1
34	BC-34	Core lifter case	1
35	BC-35	Diamond bit	1

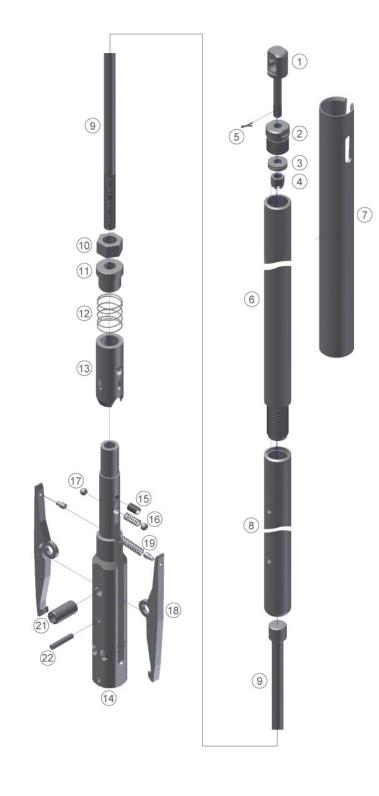


XZ MASTER CORE

B Overshot assembly

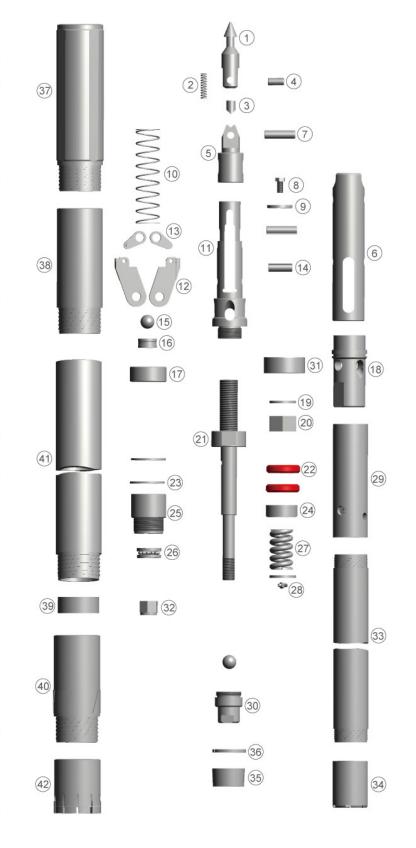
XZ MASTER CORE

No	Code	Name	Qty1
1	BO-01	Eye bolt	1
2	BO-02	Cable collar	1
3	BO-03	Bearing	1
4	BO-04	Nut M10	1
5	BO-05	Cotter pin3.2x20	1
6	BO-06	Cable swivel body	1
7	BO-07	Locking sleeve	1
8	BO-08	Jar bar	1
9	BO-09	Jar staff	1
10	BO-10	Nut 3/4-10 unc	1
11	BO-11	Spring base	1
12	BO-12	Spring	1
13	BO-13	Сар	1
14	BO-14	Overshot head	1
15	BO-15	Lock nut m10x12	1
16	BO-16	Spring	1
17	BO-17	Stainless ball φ9mm	2
18	BO-18	Lifting dog	2
19	BO-19	Spring	1
20	BO-20	M6 grease fitting	1
21	BO-21	Pinφ13x50	1
22	BO-22	Pinφ6x50	1



N Core barrel

No	Code	Name	Qty1
1	NC-01	Spearhead point	1
2	NC-02	Compression spring	1
3	NC-03	Detent plunger	1
4	NC-04	Spring pin7/16x1	1
5	NC-05	Spearhead base	1
6	NC-06	Latch retracting case	2
7	NC-07	Spring pin	1
8	NC-08	3/8 bolt	1
9	NC-09	Washer	1
10	NC-10	Latch compression spring	1
11	NC-11	Upper latch body	2
12	NC-12	Latch	2
13	NC-13	Link	1
14	NC-14	Spring pin	2
15	NC-15	Stainless steel ball	1
16	NC-16	Landing indicator bushing	1
17	NC-17	Landing shoulder	1
18	NC-18	Lower latch body	1
19	NC-19	Washer, nord-lock	1
20	24885	Hex nut	1
21	NC-21	Spindle	2
22	NC-22	Shut-off valve hard	2
23	NC-23	Valve adjusting washer	1
24	24312	Thrust bearing	1
25	NC-25	Spindle bearing	1
26	18298	Hanger bearing	1
27	NC-27	Compression spring	1
28	NC-28	Grease fitting	1
29	NC-29	Inner tube cap	1
30	NC-30	Check valve body	1
31	NC-31	Landing ring	1
32	NC-32	Stover lock nut	1
33	NC-33	Inner tube	1
34	NC-34	Core lifter case	1
35	NC-35	Core lifter	1
36	NC-36	Stop ring	1
37	NC-37	Locking coupling	1
38	NC-38	Adapter coupling	1
39	NC-39	Inner tube stabilizer	1
40	NC-40	Reaming shells	1
41	NC-41	Outer tube	1
42	NC-42	Diamond bit	1

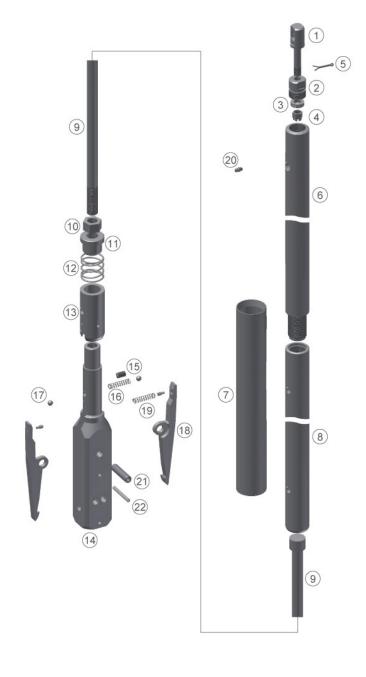


XZMASTER CORE

N Overshot assembly

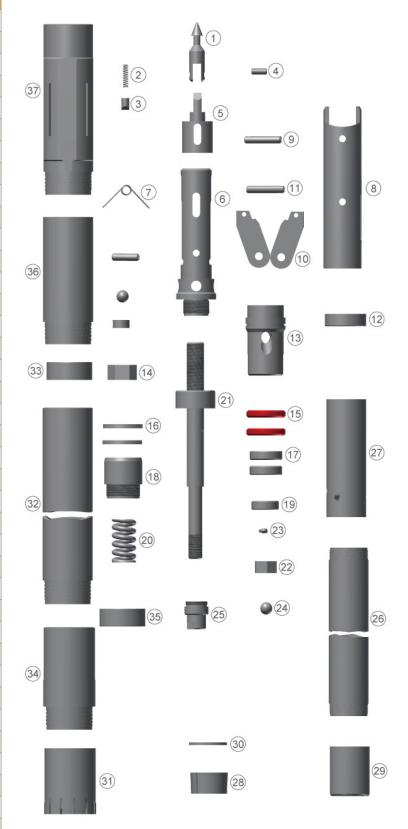
XZ MASTER CORE

No	Code	Name	Qty1
1	NO-01	Eye bolt	1
2	NO-02	Cable collar	1
3	NO-03	Bearing	1
4	NO-04	Nutm10	1
5	NO-05	Cotter pin3.2x20	1
6	NO-06	Cable swivel body	1
7	NO-07	Locking sleeve	1
8	NO-08	Jar bar	1
9	NO-09	Jar staff	1
10	NO-10	Nut 3/4-10 unc	1
11	NO-11	Spring base	1
12	NO-12	Spring	1
13	NO-13	Сар	1
14	NO-14	Overshot head	1
15	NO-15	Lock nut m10x12	1
16	NO-16	Spring	2
17	NO-17	Stainless ball φ9mm	2
18	NO-18	Lifting dog	1
19	NO-19	Spring	1
20	NO-20	M6 grease fitting	1
21	NO-21	Pinφ13x50	1
22	NO-22	Pinφ6x50	1



H Core barrel

No	Code	Name	Qty1
1	HC-01	Spearhead point	1
2	HC-02	Compression spring	1
3	HC-03	Detent plunger	1
4	HC-04	Spring pin 7/16x1	1
5	HC-05	Spearhead base	1
6	HC-06	Upper latch body	1
7	HC-07	Link	1
8	HC-08	Latch retracting case	2
9	HC-09	Spring pin	2
10	HC-10	Latch	1
11	HC-11	Spring pin	1
12	HC-12	Landing shoulder	1
13	HC-13	Lower latch body	1
14	HC-14	Hex nut	2
15	HC-15	Shut-off valve hard	2
16	HC-16	Valve adjusting washer	2
17	HC-17	Thrust bearing	1
18	HC-18	Spindle bearing	1
19	HC-19	Hanger bearing	1
20	HC-20	Compression spring	1
21	HC-21	Spindle	1
22	HC-22	Stover lock nut	1
23	HC-23	Grease fitting	2
24	HC-24	Stainless steel ball	1
25	HC-25	Inner-tube cap	1
26	HC-26	Check valve body	1
27	HC-27	Inner tube	1
28	HC-28	Core lifter	1
29	HC-29	Core lifter case	1
30	HC-30	Stop ring	1
31	HC-31	Impregnated bit	1
32	HC-32	Outer tube	1
33	HC-33	Landing ring	1
34	HC-34	Reaming shells	1
35	HC-35	Inner tube stabilizer	1
36	HC-36	Adapter coupling	1
37	HC-37	Locking coupling	1
38	HC-38	Landing indicator bushing	1

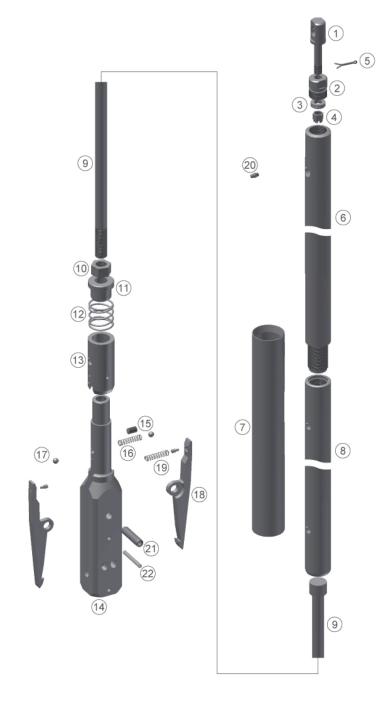


XZ MASTER CORE

H Overshot assembly

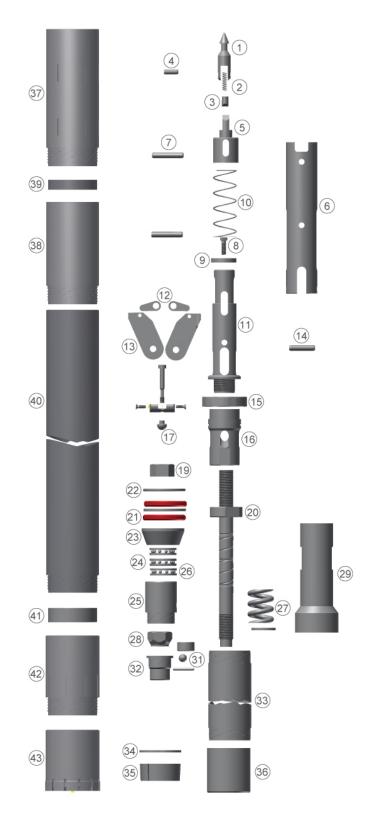
XZ MASTER CORE

No	Code	Name	Qty1
1	HO-01	Eye bolt	1
2	HO-02	Cable collar	1
3	HO-03	Bearing	1
4	HO-04	Nutm10	1
5	HO-05	Cotter pin3.2x20	1
6	HO-06	Cable swivel body	1
7	HO-07	Locking sleeve	1
8	HO-08	Jar bar	1
9	HO-09	Jar staff	1
10	HO-10	Nut 3/4-10 unc	1
11	HO-11	Spring base	1
12	HO-12	Spring	1
13	HO-13	Сар	1
14	HO-14	Overshot head	1
15	HO-15	Lock nut m10x12	1
16	HO-16	Spring	2
17	HO-17	Stainless ball φ9mm	2
18	HO-18	Lifting dog	1
19	HO-19	Spring	1
20	HO-20	M6 grease fitting	1
21	HO-21	Pinφ13x50	1
22	HO-22	Pinφ6x50	1



P Core barrel

1 PC-01 Spearhead point 1 2 PC-02 Compression spring 1 3 PC-03 Spring pin 1 4 PC-04 Spring pin 1 5 PC-05 Spearhead base 1 6 PC-06 Latch retracting case 2 7 PC-07 Spring pin 1 8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-11 Upper latch body 2 14 PC-14 Spring pin 1 15 PC-12 Link 2 12 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17	No	Code	Name	Qty1
3 PC-03 Spring pin 1 4 PC-04 Spring pin 1 5 PC-05 Spearhead base 1 6 PC-06 Latch retracting case 2 7 PC-07 Spring pin 1 8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19	1	PC-01	Spearhead point	1
4 PC-04 Spring pin 1 5 PC-05 Spearhead base 1 6 PC-06 Latch retracting case 2 7 PC-07 Spring pin 1 8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-13 Latch 1 16 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-20 Spindle hollow 2 21 <td>2</td> <td>PC-02</td> <td>Compression spring</td> <td>1</td>	2	PC-02	Compression spring	1
5 PC-05 Spearhead base 1 6 PC-06 Latch retracting case 2 7 PC-07 Spring pin 1 8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-15 Landing shoulder 1 18 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing shoulder 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2	3	PC-03	Spring pin	1
6 PC-06 Latch retracting case 2 7 PC-07 Spring pin 1 8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-17 Stainless steel ball 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2	4	PC-04	Spring pin	1
7 PC-07 Spring pin 1 8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-16 Lower latch body 1 18 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing shoulder 1 19 PC-17 Stainless steel ball 1 19 PC-18 Landing indicator bushing 1 19 PC-20 Spindle below 2 21 PC-21 Shut-off valve hard 2 <td>5</td> <td>PC-05</td> <td>Spearhead base</td> <td>1</td>	5	PC-05	Spearhead base	1
8 PC-08 Self locking nut 1 9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing shoulder 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle bollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-22 Valve adjusting washer 1 <td>6</td> <td>PC-06</td> <td>Latch retracting case</td> <td>2</td>	6	PC-06	Latch retracting case	2
9 PC-09 Washer 1 10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-16 Lower latch body 1 18 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-22 Valve adjusting washer 1 24 PC-24 Thrust bearing	7	PC-07	Spring pin	1
10 PC-10 Latch compression spring 1 11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-16 Lower latch body 1 18 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle bollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-22 Valve adjusting washer 1 24 PC-22 Thrust bearing 1 25 PC-25 Spindle bearing <td>8</td> <td>PC-08</td> <td>Self locking nut</td> <td>1</td>	8	PC-08	Self locking nut	1
11 PC-11 Upper latch body 2 12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-21 Shut-off valve hard 2 24 PC-22 Valve adjusting washer 1 24 PC-22 Valve adjusting washer 1 25 PC-22 Valve adjusting washer 1 26 PC-22 Thrust bearing 1 27 PC-25 Spindle bear	9	PC-09	Washer	1
12 PC-12 Link 2 13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-21 Shut-off valve hard 2 24 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing <td>10</td> <td>PC-10</td> <td>Latch compression spring</td> <td>1</td>	10	PC-10	Latch compression spring	1
13 PC-13 Latch 1 14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-21 Shut-off valve hard 2 24 PC-22 Valve adjusting washer 1 25 PC-25 Spindle bearing 1 26 PC-24 Thrust bearing 1 27 PC-27 Comp	11	PC-11	Upper latch body	2
14 PC-14 Spring pin 1 15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-25 Spindle bearing 1 27 PC-26 Thrust bearing 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tub	12	PC-12	Link	2
15 PC-15 Landing shoulder 1 16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-30 <	13	PC-13	Latch	1
16 PC-16 Lower latch body 1 17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-23 Washer, tapered 1 25 PC-25 Spindle bearing 1 26 PC-25 Spindle bearing 1 27 PC-26 Thrust bearing 1 28 PC-27 Compression spring 1 29 PC-28 Self locking nut 1 30 PC-30 M 6 grease fitting 1 31 PC-31 <t< td=""><td>14</td><td>PC-14</td><td>Spring pin</td><td>1</td></t<>	14	PC-14	Spring pin	1
17 PC-17 Stainless steel ball 1 18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-25 Spindle bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 <td< td=""><td>15</td><td>PC-15</td><td>Landing shoulder</td><td>1</td></td<>	15	PC-15	Landing shoulder	1
18 PC-18 Landing indicator bushing 1 19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-22 Washer, tapered 1 24 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-25 Spindle bearing 1 27 PC-26 Thrust bearing 1 28 PC-27 Compression spring 1 29 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube 1 34 PC-34 Stop ring <td>16</td> <td>PC-16</td> <td>Lower latch body</td> <td>1</td>	16	PC-16	Lower latch body	1
19 PC-19 Nut, hex, 1/4-20unc 1 20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-26 Thrust bearing 1 28 PC-27 Compression spring 1 29 PC-27 Compression spring 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring <td>17</td> <td>PC-17</td> <td>Stainless steel ball</td> <td>1</td>	17	PC-17	Stainless steel ball	1
20 PC-20 Spindle hollow 2 21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 <td>18</td> <td>PC-18</td> <td>Landing indicator bushing</td> <td>1</td>	18	PC-18	Landing indicator bushing	1
21 PC-21 Shut-off valve hard 2 22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1<	19	PC-19	Nut, hex, 1/4-20unc	1
22 PC-22 Valve adjusting washer 1 23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-26 Thrust bearing 1 28 PC-27 Compression spring 1 29 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-31 Stainless steel ball 1 33 PC-32 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1	20	PC-20	Spindle hollow	2
23 PC-23 Washer, tapered 1 24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-32 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1	21	PC-21	Shut-off valve hard	2
24 PC-24 Thrust bearing 1 25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-31 Inner tube cap 1 33 PC-32 Inner tube cap 1 34 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 <	22	PC-22	Valve adjusting washer	1
25 PC-25 Spindle bearing 1 26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	23	PC-23	Washer, tapered	1
26 PC-26 Thrust bearing 1 27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-32 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	24	PC-24	Thrust bearing	1
27 PC-27 Compression spring 1 28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	25	PC-25	Spindle bearing	1
28 PC-28 Self locking nut 1 29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	26	PC-26	Thrust bearing	1
29 PC-29 Inner-tube cap 1 30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	27	PC-27	Compression spring	1
30 PC-30 M 6 grease fitting 1 31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-32 Inner tube 1 34 PC-33 Inner tube 1 35 PC-34 Stop ring 1 36 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	28	PC-28	Self locking nut	1
31 PC-31 Stainless steel ball 1 32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	29	PC-29	Inner-tube cap	1
32 PC-32 Inner tube cap 1 33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	30	PC-30	M 6 grease fitting	1
33 PC-33 Inner tube 1 34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	31	PC-31	Stainless steel ball	1
34 PC-34 Stop ring 1 35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	32	PC-32	Inner tube cap	1
35 PC-35 Core lifter 1 36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	33	PC-33	Inner tube	1
36 PC-36 Core lifter case 1 37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	34	PC-34	Stop ring	1
37 PC-37 Locking coupling 1 38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	35	PC-35	Core lifter	1
38 PC-38 Adapter coupling 1 39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	36	PC-36	Core lifter case	1
39 PC-39 Landing ring 1 40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	37	PC-37	Locking coupling	1
40 PC-40 Outer tube 1 41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	38	PC-38	Adapter coupling	1
41 PC-41 Inner tube stabilizer 1 42 PC-42 Reaming shell 1	39	PC-39	Landing ring	1
42 PC-42 Reaming shell 1	40	PC-40	Outer tube	1
	41	PC-41	Inner tube stabilizer	1
43 PC-43 Impregnated bit 1	42	PC-42	Reaming shell	1
	43	PC-43	Impregnated bit	1



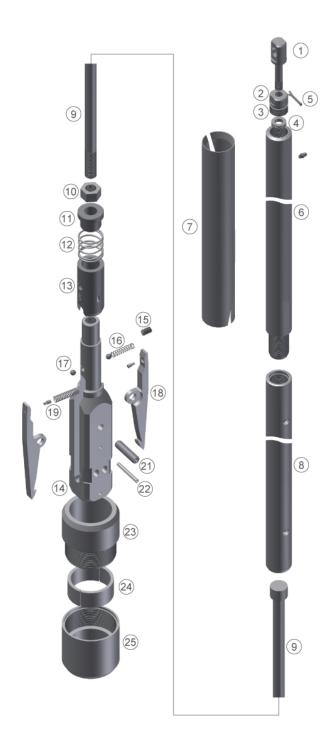
XZ MASTER CORE

P Overshot assembly

XZ MASTER CORE

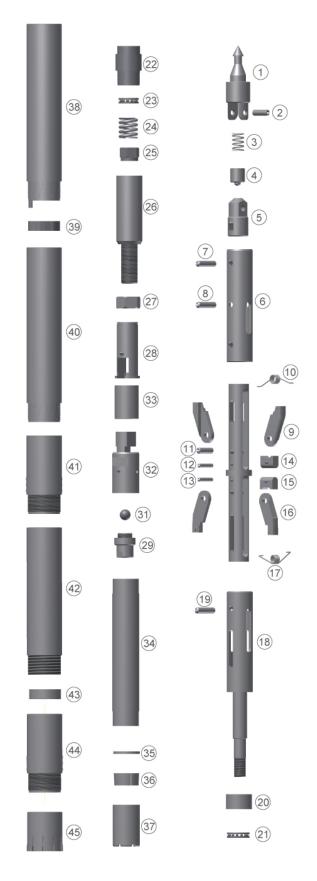
No	Code	Name	Qty1
1	PO-01	Eye bolt	1
2	PO-02	Cable collar	1
3	PO-03	Bearing	1
4	PO-04	Nutm10	1
5	PO-05	Cotter pin3.2x20	1
6	PO-06	Cable swivel body	1
7	PO-07	Locking sleeve	1
8	PO-08	Jar bar	1
9	PO-09	Jar staff	1
10	PO-10	Nut 3/4-10 unc	1
11	PO-11	Spring base	1
12	PO-12	Spring	1
13	PO-13	Сар	1
14	PO-14	Overshot head	1
15	PO-15	Lock nut m10x12	1
16	PO-16	Spring	2
17	PO-17	Stainless ball φ9mm	2
18	PO-18	Lifting dog	1
19	PO-19	Spring	1
20	PO-20	M6 grease fitting	1
21	PO-21	Pinφ13x50	1
22	PO-22	Pinφ6x50	1
23	PO-23	Upper locking	1
24	PO-24	Stop ring	1
25\	PO-25	Lower locking	1

19



75mm Super core barrel

No	Code		Qty1
1	S75-SF-01	Spearhead point	1
2	S75-SF-02	Spring pin	1
3	S75-SF-03	Compression spring	1
4	S75-SF-04	Locator	1
5	S75-SF-05	Spearhead base	1
6	S75-SF-06	Latch retracting case	1
7	S75-SF-07	Spring pin	1
8	S75-SF-08	Spring pin	1
9	S75-SF-09	Upper latch	2
10	S75-SF-10	Upper link	1
11	S75-SF-11	Spring pin	1
12	S75-SF-12	Spring pin	1
13	S75-SF-13	Spring pin	1
14	S75-SF-14	Upper latch base	1
15	S75-SF-15	Lower latch base	1
16	S75-SF-16	Lower latch	2
17	S75-SF-17	Lower link	1
18	S75-SF-18	Lower latch tube	1
19	S75-SF-19	Spring pin	1
20		Bearing cap	1
21	S75-SF-21	Thrust bearing	1
22	S75-SF-22		1
23	S75-SF-23		1
24	S75-SF-24		1
25	S75-SF-25		1
26	S75-SF-26	Inner tube cap	1
27	S75-SF-27		1
28	S75-SF-28	Upper adapter	1
29		Check valve body	1
30	S75-SF-30	Stover lock nut	1
31	S75-SF-31	Stainless ball	1
32	S75-SF-32	Lower adapter	1
33	S75-SF-33		1
34	S75-SF-34		1
35	S75-SF-35		1
36	S75-SF-36		1
37	S75-SF-37		1
38	S75-SF-38	Locking coupling	1
39		Landing ring	1
40	S75-SF-40		1
41	S75-SF-41	Upper reamer	1
42		Outer tube	1
43	S75-SF-43		1
44	S75-SF-44	Lower reamer	1
45	S75-SF-45		1







2011: S75-SF DOUBLE LATCH TECHNOLOGY

MASTER CORE is proud to introduce the latest innovation in underground coring products—the DOUBLE LATCH Head Assembly. This new patented design features two sets of latches as a replacement for the traditional link latch mechanism, which offer a convenient operation and most importantly: improves the security.

Convenient operation

S75-SF comprises upper adapter safety ring and lower adapter. It uses card slot which matches upper adapter with lower adapter such that the inner tube can be easily removed from the inner tube assembly.

Moreover, it reduces the labor intensity and improves the work efficiency in terms of easy core-removing and fishing for dropping tube. In the process of operation, the safety ring locking upper adapter and lower adapter, which makes sure the high level of operating security.

Drill deeper with CNHT capability

The new double latch underground head assembly are equipped with our MASTER CORE's advanced CNHT coring rods, for the first time ever ,drillers are able to take advantage of significantly high strength CNHT coring rod in underground applications and thus leading to deeper drilling capacity.

S75-SF specification of double latch drilling tools

Туре	Diamond bitOD/ID(mm)	Outer tubeOD/ID(mm)	Inner tubeOD/ID(mm)	Core length(mm)
S75-SF	75/49	73/63	54/49	3000

Specification of CNHT coring rod

Туре	Material	OD/ID(mm)	Drilling depth	Thread angle	Diameter of thicken end
CNHT	42CrMo	71/61	3000m	-10°/45°	74mm/58mm



Rods And Casign







OUTER TUBES









RODS

B/N/H/P series wireline core barrel designed by WUXI DRILLING TOOLS FACTORY, MASTER CORE is our brand, introduces advanced technology.MASTER CORE values innovation as well as interchangeability. Our products have independent intellectual property rights and fulfill geological exploration needs.Variety of products satisfies different drill depths and diameters.

Our B/N/H/P drill rod have good performance at accuracy and mechanism.their structure match with international standard in application of less than 1000-meter drilling.wireline rods are made of strong and ductile alloy steel pipes which whole piece processed.thread of drill rod is strengthened.

Based on the drilling depth of actual condition, drill rods are divided into A and B grades, Which have different performances and prices, If there are no special requirements, grade A products will be default products.

B/N/H/P Wireline Rod Grades

Grade	Performence Material		Heat treatment
А	standard	30CrMnSiA	Whole pipe thermal processed
В	premium	ZT850(42CrMo)	Whole pipe thermal processed

Mechanical Properties Of Drill Rod

Steel Grade	Tensile Strength(MPa)	Yield Strength(MPa)	Elongation(%)	Impact Energy(AKV)
30CrMnSiA	≥950	≥840	≥10	40-44(10*10mm)
42CrMo	≥1050	≥900	≥12	60-80(10*10mm)

Thread Parameters

Туре		BC	NC	HC	PC	CNHT
Thread length		44.45mm	44.45mm	44.45mm	63.5mm	50mm
Thread pitch/i	nch	3	3	3	2.5	3.175
Tooth height	box	0.76mm	0.76mm	0.76mm	1.17mm	1.1mm
TootiTheight	pin	0.88mm	0.88mm	0.88mm	1.27mm	1.2mm
Tooth angle	Э	29°	29°	29°	29°	-10°/45°
Tensile	А	450KN	540KN	550KN	600KN	
resistance	В	500KN	620KN	640KN	680KN	670KN

Recommended Depth For Drill Rod

Outer Diameter/	Torre	Recommended drilling depth		
inner diameter	Туре	А	В	
55.6mm/46mm	BC	2000	2200	
70.1mm/60mm	NC	1500	1700	
88.9mm/77.8mm	HC	900	1200	
114.3mm/101.6mm	PC	600	800	
71mm/61mm	CNHT		3000	

Parameter Wireline Coring System

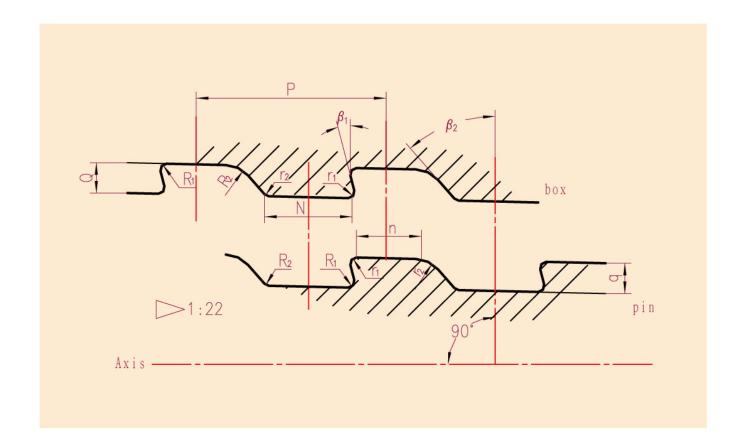
Туре	ВС	NC	HC	PC
O.D of bit	59.5mm	74.6mm	95.6mm	122mm
I.D of bit	36.5mm	47.6mm	63.5mm	85mm
OD of reaming shell	60mm	75.8mm	96mm	122.6mm
OD of outer tube	57.2mm	73mm	92.1mm	117.5mm
ID of outer tube	46mm	60.3mm	77.8mm	103.2mm
OD of inner tube	42.9mm	55.6mm	73mm	95.3mm
ID of inner tube	38.1mm	50mm	66.7mm	88.9mm
OD of drill rod	55.6mm	70.1mm	89mm	114.3mm
ID of drill rod	46mm	60.1mm	77.8mm	101.6mm

Parameter Of W Series Drill Rod

SIZE	THREAD	LENGTH	OUTER DIAMETER	INNER DIAMETER	WEIGHT
AW	3/inch	1500mm	44.5mm	34.14mm	17kg
AW	3/inch	3000mm	44.5mm	34.14mm	14kg
BW	3/inch	1500mm	54mm	44.45mm	9kg
BW	3/inch	3000mm	54mm	44.45mm	18kg
NW	3/inch	1500mm	66.9mm	57.15mm	11.5kg
NW	3/inch	3000mm	66.9mm	57.15mm	23kg
HW	3/inch	1500mm	88.9mm	77.8mm	17.5kg
HW	3/inch	3000mm	88.9mm	77.8mm	35kg









CODE		PARAMETERS	
		CNHT	CNHT
	N	3.547	3.547
	n	3.465	3.465
(Q	1.1	1.1
	q	1.2	1.2
	р	8	8
β	31	10°	10°
ß	32	45°	45°
r ₁	10°	0.2	0.2
r ₁	45°	1.6	1.6
R ₁	10°	0.1	0.1
R ₂ 45°		1.5	1.5
Та	per	1:22	1:22

Package Specification By Iron Belts

Туре	Length	Size (L*W*H) m	Qty/package	G.W/package
ВС	1.5m/5ft	1.6*0.38*0.43	40	385
ВС	3m/10ft	3.1*0.38*0.43	40	760
NC	1.5m/5ft	1.6*0.45*0.5	25	320
NC	3m/10ft	3.1*0.45*0.5	25	625
HC	1.5m/5ft	1.6*0.55*0.6	25	455
НС	3m/10ft	3.1*0.55*0.6	25	890
PC	1.5m/5ft	1.6*0.7*0.75	25	665
PC	3m/10ft	3.1*0.7*0.75	25	1315

Package Specification By Steel Belt

Туре	Length	Size (L*W*H) m	Qty/package	G.W/package
ВС	1.5m/5ft	1.6*0.4*0.4	37	345
ВС	3m/10ft	3.1*0.4*0.4	37	670
NC	1.5m/5ft	1.6*0.5*0.5	37	460
NC	3m/10ft	3.1*0.5*0.5	37	900
НС	1.5m/5ft	1.6*0.65*0.65	37	660
HC	3m/10ft	3.1*0.55*0.6	37	1300
PC	1.5m/5ft	1.6*0.6*0.6	19	520
PC	3m/10ft	3.1*0.6*0.6	19	1000

Container Shipments

No	Length(m)	PCS/20 ft	PCS/40 ft
BC	1.5	2000	2600
BC	3	1000	1300
NC	1.5	1350	1900
NC	3	625	900
HC	1.5	925	1300
HC	3	400	625
PC	1.5	650	950
PC	3	300	450
CNHT	1.5	1200	1750
CNHT	3	600	825





Casings

In geological exploration, application of casing pipe is necessary. In wireline drilling tools working project, larger sized drill rods are usually selected as casings. But for economical consideration, using drill rods as casing is very quickly wear, so casing pipes are introduced as an alternative option. Our company recommended W series casing, which are reusable, effective and economical. Casings are made of high quality geological pipes, and they are connected tightly using pin and box thread .W series casings also have matched casing drive shoes.

Feathers of W series casing pipes are provided below:

W Series Casing Specification (DCDMA standard)

Туре	O.D(mm)	I.D(mm)	Length of casing	Thread pitch(mm)	Thread length(mm)	Weight(kg/m)
BW	73	60.3	1.5m/3m/4.5m/6m	6.35	63.5	8.38
NW	88.9	76.2	1.5m/3m/4.5m/6m	6.35	69.85	12.3
HW	114.3	101.6	1.5m/3m/4.5m/6m	6.35	76.2	16.9
PW	139.7	127	1.5m/3m/4.5m/6m	8.47	82.55	20.8
HWT	114.3	101.6	1.5m/3m/4.5m/6m	8.47	62.84	16.9
PWT	139.7	127	1.5m/3m/4.5m/6m	8.47	62.84	20.8

Container Shipments

Туре	Length(m)	Size(L*W*H)m	Qty/bundle	G.W/bundle
BW	1.5	1.6*0.48*0.53	25	320
BW	3	3.1*0.48*0.53	25	645
NW	1.5	1.6*0.55*0.60	25	470
NW	3	3.1*0.55*0.60	25	925
HW	1.5	1.6*0.70*0.75	25	455
HW	3	3.1*0.70*0.75	25	890
PW	1.5	1.6*0.80*0.85	25	665
PW	3	3.1*0.8*0.85	25	1315
HWT	1.5	1.6*0.70*0.75	25	455
HWT	3	3.1*0.70*0.75	25	890
PWT	1.5	1.6*0.80*0.85	25	665
PWT	3	3.1*0.8*0.85	25	1315

Remark: The normal length of casing is 1.5m and 3m

INNER TUBES AND OUTER TUBES

INNER TUBES

SIZE	OD(mm)	ID(mm)	LENGTH(mm)	
ВС	42.9	38.1	1500 3000	
NC	55.6	50	1500	3000
HC	73	66.7	1500 3000	
PC	95.3	88.9	1500	3000
NC3/split tube	56/50.8	51/48.8	1500	3000

OUTER TUBES

SIZE	OD(mm)	ID(mm)	LENGTH(mm)	
BC	57.2	46	1500 3000	
NC	73	60.3	1500	3000
HC	92.1	77.8	1500	3000
PC	117.5	103.2	1500	3000
NC3	73	63	1500	3000

DIAMOND PRODUCT

DIAMOND BITS

MASTER CORE possesses professional ability of diamond drill bits and reaming shells. Our drilling bits have first-class quality excellent performance. Bits and reaming shells are designed on basis of ground condition. In respect of drilling in speed and useful life, our products are the most competitive products in China.

Shapes of lips: flat-bottom, circular, serration, pointed teeth, angle teeth, ladder, and ladder with end spray.

Standard: To cooperate with drilling tools, bits are designed on basis of different stratum condition.our company also design and produce non-standard drilling bits according to customer's special requirements.

Recommendation: When hardness of stratum is high, low grade drilling bits are recommended to ensure matching of stratum. (please refer to the table below)

Notice:Outer diameter of drilling bit should be 0.5mm smaller than its matching reaming shell.

Hardness of stratum is a very important factor in selection of drilling bits. Appropriate choice of drilling bits will highly improve working efficiency and economical profit.



WUXI DRILLING TOOLS FACTORY



Parameter of wireline coring diamond products

Туре	ВС	NC	НС	PC
O.D of bit	59.5mm	74.6mm	95.6mm	122mm
I.D of bit	36.5mm	47.6mm	63.5mm	85mm
OD of reaming shell	60mm	75.8mm	96mm	122.6mm

T,TT,T2&TB Series Metric Core Bits

SIZE	Outer D	liameter	Inner Diameter		
SIZE	inch	mm	inch	mm	
T36	1.422/1.412	36.12/35.87	0.859/0.849	21.82/21.57	
TT46	1.818/1.808	46.18/45.92	1.394/1.384	35.40/35.15	
T2-46	1.818/1.808	46.18/45.92	1.253/1.243	31.82/31.57	
TB56	2.22	56.3	1.64	41.7	
TT56	2.210/2.200	56.13/55.88	1.788/1.778	45.41/45.16	
T2-56	2.210/2.200	56.13/55.88	1.647/1.637	41.83/41.58	
T2-66	2.603/2.593	66.12/65.87	2.040/2.030	51.81/51.56	
T2-76	2.997/2.987	76.12/75.87	2.434/2.424	61.82/61.57	
T2-76coreline	2.997/2.987	76.12/75.87	2.288/2.278	58.12/57.87	
T2-86	3.391/3.381	86.13/85.88	2.828/2.818	71.83/71.58	
T2-86coreline	3.391/3.381	86.13/85.88	2.682/2.672	68.13/67.88	
T2-101	3.981/3.971	101.12/100.8	3.300/3.290	83.82/83.57	
T2-101coreline	3.981/3.971	101.12/100.8	3.155/3.145	80.13/79.88	
T6-76	2.997/2.987	76.12/75.87	2.249/2.239	57.12/56.87	
T6-86	3.391/3.381	86.13/85.88	2.643/2.633	67.13/66.88	
T6-101	3.981/3.971	101.12/100.8	3.115/3.105	79.12/78.87	
T6-116	4.575/4.560	116.20/115.8	3.667/3.657	93.14/92.89	
T6-131	5.165/5.150	131.19/130.8	4.257/4.247	108.13/107	
T6-146	5.755/5.740	146.18/145.8	4.847/4.837	123.11/122	



Diamond Bit Choose Table

	hardness	soft	Medium	hard	Hard	Very	/ hard
	Name of rocks	Shale sandy shale sandy shale marble marble marble sandy shale rashing hard schist limonite soft dolomite hard shale hard sandstone		Gnei basa grani rhyol ferrite horns quari	ilt dite dite dite dite dite dite dite dit		
	Hardness of rock	Soft —				•	► hard
	Abrasiveness	Weakmedium	Medium	high	Highmedium weak	Mediu	ım weak
	HRC10-15						B10#
	HRC15-20						B9#
М	HRC20-25	B8#					
A T	HRC25-30				B7#		
R	HRC30-35				B6#		
X	HRC35-40			B	4#		
	HRC40-45		B2#				
	HRC45-50	B1#					
	pointed tooth	Hard stratum					
	serration	Soft stratum					
L	round tooth	Whole and hard stratum					
P	flat bottom	Normally used in singled&double tube assembly					
	ladder	Declining stratum					
	end spray	Water soluble stra	tum				

Reaming Shell

Reaming shells are important parts of wireline core barrels. Their functions include reaming, stabilizing and maintaining the diameter of drilling hole. The recommended practice is to alternate two reaming shells in each hole drilled to maintain hole diameter. Upon bit changes, the reaming shell should be checked for wear with bit and shell wear gauge. Failure to observe these practices will result in either a poorly stabilized or an undersized hole that will require costly reaming.







Circle Wrenches

1. Outer Tube Circle Wrench

The outer tube is mainly used to manually screw and unscrew drill rods, outer and inner tubes and casing tubes. It is quite appropriate to be used in mine drilling field, and it is capable of improving drilling efficiency. It causes no harm to pipes. Its holding force is big and no skidding (slipping) will happen when using it.

Its main components include steel chain and slips.

2. Inner Tube Circle Wrench

The inner tube circle wrench is specially used to manually screw and unscrew inner tubes of double-pipe assembly in the field of mine drilling. It is safe to use, and capable of saving labor, and causing no harm to pipes. It is light in weight and large in gripping force. No slipping will happen.

3. Casing Tube Circle Wrench

The casing tube circle wrench is a kind of tool to screw and unscrew casing tubes in the double-pipe assembly. It's mainly composed of steel chain and alloy steel slips.

It can help to enhance the drilling efficiency and it is easy to utilize.

Technical Parameters

Product name	Specification
	Ф54
0 - 1 - 1 - 1 - 1 - 1 - 1	Ф55.5 (BC)
Casing tube circle wrench	Φ71/Φ73 (NC)
	Ф89 (НС)
	Ф41
iamond circle wrench (inner tube circle wrench)	Ф43
Diamond circle wrench (inner tube circle wrench)	Ф56
	Ф73
	Ф89
	Ф57/44
	Ф56/46
Alloy free clamp (drill rod wrench)	Ф66/76
Alloy free clamp (drill rod wrench)	Ф73/89
Outer tube circle wrench	Ф89/108
	Ф108/127
	Ф127/146
	Ф146/168
	Ф42
	Ф43
	Ф50
Ding wrongh	Ф60
Pipe wrench	18"
	12
	12
	12



NO	CODE	NAME	QTY
1	DCW-01	Melt	2
2	DCW-02	Melt washer	4
3	DCW-03	Locking board	1
4	DCW-04	Connection board	2
5	DCW-05	Handle	1



NO	CODE	NAME	QTY
1	CW-01	Rivet	3
2	CW-02	Nut	3
3	CW-03	Locking board	1
4	CW-04	Connection board	1
5	CW-05	Middle borad	1
6	CW-06	Handle	1
7	CW-07	Tungsten carbide	3





Drill Subs

The drill subs are mainly used to connect various drill rods (stems) in the geological drilling. These subs can be used to protect drill rod from consumption in the way of making the connector to bear most of torque force.

Technical Parameters

Serial number	Specification model	Unit	Unit weight
1	AW Rod Pin to NC Rod box	PCS	4KG
2	BW Rod Pin to NC Rod box	PCS	3.9KG
3	NC Rod Pin to NW Casing box	PCS	3.4KG
4	NW Rod pin to NC Rod box	PCS	3.4KG
5	NC Rod pin to BW Casing box	PCS	4.4KG
6	NC Rod pin to NW Casing box	PCS	4.4KG
7	NC Rod pin to HW Casing box	PCS	3.9KG
8	NC Rod pin to HWT Casing box	PCS	3.9KG
9	NC Rod pin to BW Rod box	PCS	3.3KG
10	NC Rod pin to NW Rod box	PCS	3.3KG

Remarks: We can make many kinds of sub connectors according to the requirements of clients worldwide



Hoisting Plug

The hoisting plug is mainly used to lift drill rods in the process of geological core drilling. And simple structure and reliable performance are its advantages.

It connects the hoisting line with drill rod so as to hang the drill rod joint or lock joint to lift the drill. It is mainly comprised of bail, roller bearing, and tool joint thread

NO	Code	Name	Qty
1	KT60-1	Lifting ring	1
2	KT60-2	Bearing base	1
3	KT60-3	Lifting base	1
4	KT60-4	Stop ring	1
5	KT30-5	Lifting head	1
6	GB/T 879.1	Pin	1
7	KT60-7	Bearing cap	1
8	51415	Bearing	1
9	KT60-9	Pin	1
10	M64 x 4	Nut	1



Water Swivel

The water swivel is mainly used in the geological exploration, and it is mainly comprised of high-pressure sealing ring, core tubes and spindle.

It is available with different threads and mountings, and capable of being used in supplying of high-pressure water, coolant, slurry etc.

We have Φ42 and Φ50 water swivels for clients worldwide, and they can work well in conjunction with various reducer unions of different drill rods

Features

- High efficiency and long service lifespan are always available for this water swivel.
- High-quality materials and thread treatment have been used in its manufacture
- Its automatically adjustable sealing ring is capable of guaranteeing normal operation of water-supplying rod.
- Transverse device is equipped for it.
- It features compact frame and light weight
- It is easy to work together with common tools.



WUXI DRILLING TOOLS FACTORY



Recovery Tools

The recovery tools is mainly used for salvaging drill rods (stems) and casing tubes, and it is capable of drilling and salvaging things from oil pipes, drill rods, milling tubes, packers, water distributor etc. Besides, it is especially appropriate for salvaging tube subjects with couplings.



Wireline winch performance parameters

Type of winchBC	1000m	1500m	2000m	3000m
Power	4KW	4.5KW	5.5KW	7KW
Max load	0.5T	0.6T	0.85T	1T
Length of cable	1000m	1500m	2000m	3000
Diameter of cable	5mm	5mm	6mm	6mm
Net Weight (Without diesel engine)	350kg	375kg	450kg	530kg



Thread grease

Our thread grease is suitable for casing, tubing and pipe line thread sealing and lubrication. the thread grease can protect the thread from erosion, most important is the thread grease make pin and box separate from each other easily.







WIRELINE CORE BARREL WORKING PROPOSAL

Here is a construction proposal for under 1000 meters drill. For reference only.

		Drill machine			
No	Name	Туре	QTY	Unit	Remark
1	Drill rig (diesel engine)	XY-4	1	set	-
2	Drilling tower	SGZ-13	1	set	-
3	Two wheels Bearing	XZ3030	1	set	-
4	Kelly bar	59*53*4.5m	1	pcs	-
5	Mud pump (diesel engine)	BW250	1	set	-
6	Diesel winch	1000m	1	set	-
7	High pressure rubber pipe	21m+7m	1	set	-
8	Water swivel	Ф50	1	set	-

1. Hole opening

Hole opening use PW series core barrel to drill 50-100m, put in PW series casing pipes.

No	Name	Туре	QTY	Unit	Remark
1	0.5m core barrel	PW	1	PCS	-
2	1.5m core barrel	PW	1	PCS	-
3	3m core barrel	PW	1	PCS	-
4	Alloy bit	PW	2	PCS	-
5	Diamond bit	PW	2	PCS	-
6	PDC bit	PW	2	PCS	-
7	Casing	PW	50-100	meter	-
8	Casing shoe	PW	1	PCS	-
9	Casing wrench	PW	2	PCS	-
10	Casing clamp	PW	2	PCS	-

2. PC barrel working plan

Estimated depth: 300m.put in NW casing (or use PC drilling rod as casing)

No	Name	Туре	QTY	Unit	Remark
1	0.5m wireline rod	PC	1	PCS	-
2	1.5m wireline rod	PC	1	PCS	-
3	3m wireline rod	PC	330	METER	-
4	Core barrel	PC	2	SET	-
5	Overshot assembly	PC	1	SET	-
6	Diamond bit	PC	5	PCS	-
7	Reaming shell	PC	3	PCS	-
8	PDC bit	PC	2	PCS	-
9	Rod wrench	PC	2	PCS	-
10	Outer tube wrench	PC	2	PCS	-
11	Inner tube wrench	PC	2	PCS	-
12	Casing	HW	330	METER	-
13	Casing drive shoe	HW	2	PCS	-
14	Casing clamp	HW	2	PCS	-

3. HC barrel working plan

Estimated depth: 600m.put in NW casing (or use HC drilling rod as casing)

No	Name	Туре	QTY	Unit	Remark
1	3m wireline rod	HC	630	METER	-
2	Core barrel	HC	2	SET	-
3	Overshot assembly	HC	1	SET	-
4	Diamond bit	HC	5	PCS	-
5	Reaming shell	HC	3	PCS	-
6	Rod wrench	HC	4	PCS	-
7	Outer tube wrench	HC	2	PCS	-
8	Inner tube wrench	HC	2	PCS	-
9	Casing	NW	630	METER	-
10	Casing drive shoe	NW	1	PCS	-
11	Casing wrench	NVV	2	PCS	-
12	Casing clamp	NVV	2	PCS	-





4. NC barrel working plan

Estimated depth: to final end 1000m

No	Name	Туре	QTY	Unit	Remark
1	3m wireline rod	NC	1050	METER	-
2	Core barrel	NC	2	SET	-
3	Overshot assembly	NC	1	SET	-
4	Diamond bit	NC	5	PCS	-
5	Reaming shell	NC	3	PCS	-
6	Rod wrench	NC	4	PCS	-
7	Outer tube wrench	NC	2	PCS	-
8	Inner tube wrench	NC	2	PCS	-
9	Casing	BW	-	METER	optional
10	Casing drive shoe	BW	-	PCS	optional
11	Casing wrench	BW	-	PCS	optional
12	Casing clamp	BW	-	PCS	optional

5. BC barrel working plan

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If NC barrel cannot reach the end, put in BW series casing (or NC series rods) and use BC series barrel instead.

No	Name	Туре	QTY	Unit	Remark
1	3m wireline rod	ВС	1050	METER	-
2	Core barrel	ВС	2	SET	-
3	Overshot assembly	ВС	1	SET	-
4	Diamond bit	ВС	-	PCS	Optional
5	Reaming shell	ВС	-	PCS	-
6	Rod wrench	ВС	-	PCS	-
7	Outer tube wrench	ВС	-	PCS	-
8	Inner tube wrench	ВС	-	PCS	-

6. Other equipments

Lifting tools

No	Name	Туре	QTY	Unit	Remark
1	Hoisting plugs	65	12	SET	-
	Casing lifting adapter	PW/65	2	PCS	-
		HW/65	2	PCS	-
		NW/65	2	PCS	-
		BW/65	2	PCS	optional
2	Water swivel	50	2	SET	-
	Adapter sub	PC/50	1	PCS	-
		HC/50	2	PCS	-
		NC/50	2	PCS	-
		BC/50	2	PCS	optional
3	Adapter sub	PC/PW	1	PCS	-
		HC/HW	1	PCS	-
		NC/BW	1	PCS	-

Recovery tool

No	Name	Туре	QTY	Unit	Remark
1	Recovery Taps	PW	1	SET	Adapter sub available
		PW(HC)	1	SET	
		HW(NC)	2	SET	
		NW(BC)	2	SET	

Thread oil

No	Name	Туре	QTY	Unit	Remark
1	Thread Grease	5kg/pcs	10	-	5kg/pcs

spare part kit

No	Name	Туре	QTY	Unit	Remark
1	Spare part kit	1000M	1	package	-