



LEADING
YOU
FORWARD

PRODUCT CATALOG

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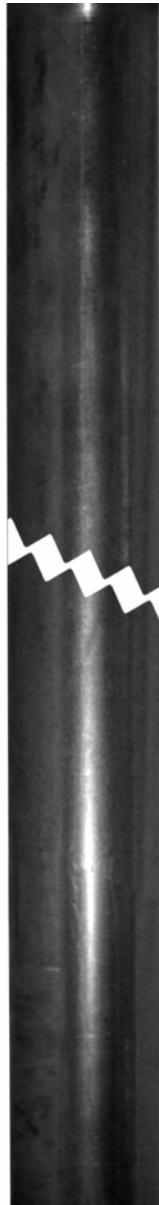
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We manufacture

MBI Global flush joint casing and drilling rods are recognized worldwide for their quality. Our rods and casing are threaded by a qualified team with many years of experience in drilling product manufacturing. Each and every rod and casing undergoes strict quality control throughout the entire manufacturing process.



Drill rod complete with coupling



Drill rod coupling

Description	Length	Part No	Weight	
			lb	kg
AW	1'	RAW1001	5.04	2.3
AW	2'	RAW1002	8.76	4.0
AW	3'	RAW1003	11.95	5.4
AW	5'	RAW1005	19.92	9.1
AW	10'	RAW1010	38.92	17.7
BW	1'	RBW1001	8.37	3.8
BW	2'	RBW1002	14.15	6.4
BW	3'	RBW1003	18.99	8.6
BW	5'	RBW1005	31.65	14.4
BW	10'	RBW1010	63.15	28.7
NW	1'	RNW1001	9.20	4.2
NW	2'	RNW1002	18.73	8.5
NW	3'	RNW1003	18.44	8.4
NW	5'	RNW1005	30.73	14.0
NW	10'	RNW1010	56.50	25.7
HW	1'	RHW1001	14.38	6.5
HW	2'	RHW1002	31.65	14.4
HW	3'	RHW1003	42.50	9.6
HW	5'	RHW1005	65.15	16.0
HW	10'	RHW1010	122.80	55.8

Drill Rod Couplings

Description	Part No
AW	RAW1000
BW	RBW1000
NW	RNW1000
HW	RHW1000



Casing

Description	Length	Part No	Weight	
			lb	kg
BW	2'	CSB1002	14.00	6.4
BW	5'	CSB1005	35.00	15.9
BW	10'	CSB1010	70.00	31.8
NW	2'	CSN1002	17.00	7.7
NW	5'	CSN1005	46.50	19.3
NW	10'	CSN1010	86.00	39.10
HW	2'	CSH1002	21.50	9.75
HW	5'	CSH1005	58.00	26.40
HW	10'	CSH1010	116.50	53.00
HWT	2	CSHWT1202	21.50	9.75
HWT	5'	CSHWT1205	58.00	26.40
HWT	10	CSHWT1210	116.50	53.00
PW	10'	CSP1002	28.50	13.00
PW	5'	CSP1005	70.00	31.80
PW	10'	CSPW1010	144.00	65.50
PWT	2'	CSPWT1202	28.50	13.00
PWT	5'	CSPWT1205	70.00	31.80
PWT	10'	CSPWT1210	144.00	65.50

Metric

BW	0.60 m	CSB1502	14.00	6.40
BW	1.50 m	CSB1505	35.00	15.90
BW	3.00 m	CSB1510	70.00	31.80
NW	0.60 m	CSN1502	17.00	7.70
NW	1.50 m	CSN1505	42.50	19.30
NW	3.00 m	CSN1510	86.00	39.10
HW	0.60 m	CSH1702	21.50	9.75
HW	1.50 m	CSH1705	57.75	26.30
HW	3.00 m	CSH1710	115.50	52.50
HWT	0.60 m	CSHWT1702	21.50	9.75
HWT	1.50 m	CSHWT1705	57.75	26.30
HWT	3.00 m	CSHWT1710	115.50	52.50
PW	0.60 m	CSP1502	27.50	12.50
PW	1.5 m	CSP1505	69.00	31.40
PW	3.00m	CSPW1510	143.00	65.00
PWT	0.60m	CSPWT1702	28.50	13.00
PWT	1.5m	CSPWT1705	69.00	31.40
PWT	3.0m	CSPWT1710	143.00	65.00

HEAT TREATED WIRELINE DRILL RODS



Wireline
drill rod

Description	Length	Part No	Weight	
			lb	kg
B	2'	RB3102	8.00	3.6
B	5'	RB3105	20.00	9.1
B	10'	RB3110	40.00	18.2
N	2'	RN3102	10.50	4.8
N	5'	RN3105	25.00	11.4
N	10'	RN3110	51.00	23.2
H	2'	RH3102	15.50	7.0
H	5'	RH3105	38.50	17.5
H	10'	RH3110	77.00	35.0
HWT	2'	RHWT7202	23.00	10.5
HWT	5'	RHWT7205	58.00	26.4
HWT	10'	RHWT7210	116.50	53

Metric

B	0.60 m	RB3602	8.00	3.6
B	1.50 m	RB3605	20.00	9.1
B	3.00 m	RB3610	40.00	18.2
N	0.60 m	RN3602	10.50	4.8
N	1.50 m	RN3605	25.00	11.4
N	3.00 m	RN3610	51.00	23.2
H	0.60 m	RH3602	15.20	6.9
H	1.50 m	RH3605	37.80	17.2
H	3.00 m	RH3610	76.00	34.5
HWT	0.60 m	RHWT7702	15.20	6.9
HWT	1.50 m	RHWT7705	57.75	26.3
HWT	3.00 m	RHWT7710	115.50	52.4

Description	Length	Part No	Weight	
			lb	kg
NM	2'	RNM3302	10.50	4.8
NM	5'	RNM3305	25.00	11.4
NM	10'	RNM3310	51.00	23.2
HM	2'	RHM3302	15.50	7.0
HM	5'	RHM3305	38.50	17.5
HM	10'	RHM3310	77.00	35.0

Metric

NM	0.60 m	RNM3802	10.50	4.8
NM	1.50 m	RNM3805	25.00	11.4
NM	3.00 m	RNM3810	51.00	23.2
HM	0.60 m	RHM3802	15.20	7.0
HM	1.50 m	RHM3805	37.80	17.2
HM	3.00 m	RHM3810	76.00	34.5

HEAT TREATED WIRELINE DRILL RODS



Description	Length	Part No	Weight	
			lb	kg
BT	2'	RBT5402	8.00	3.6
BT	5'	RBT5405	20.00	9.1
BT	10'	RBT5410	40.00	18.2
NT	2'	RNT5402	10.50	4.8
NT	5'	RNT5405	25.00	11.4
NT	10'	RNT5410	51.00	23.2
HT	2'	RHT5402	15.50	7.0
HT	5'	RHT5405	38.50	17.5
HT	10'	RHT5410	77.00	35.0

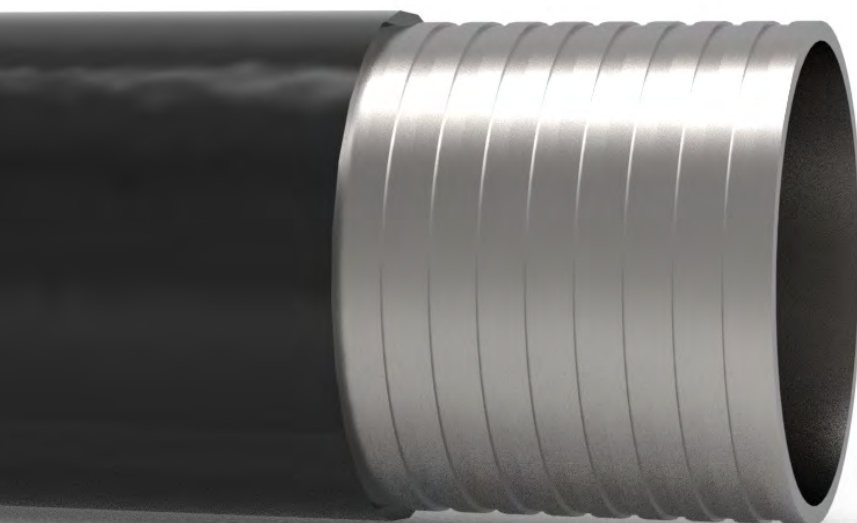
Metric

BT	0.60 m	RBT5902	8.00	3.6
BT	1.50 m	RBT5905	20.00	9.1
BT	3.00 m	RBT5910	40.00	18.2
NT	0.60 m	RNT5902	10.50	4.8
NT	1.50 m	RNT5905	25.00	11.4
NT	3.00 m	RNT5910	51.00	23.2
HT	0.60 m	RHT5902	15.20	6.9
HT	1.50 m	RHT5905	37.80	17.2
HT	3.00 m	RHT5910	76.00	34.5

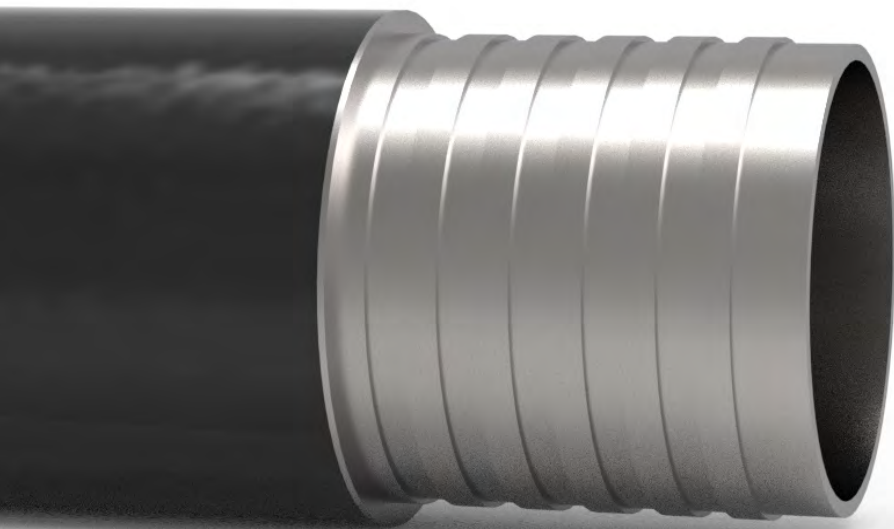
Description	Length	Part No	Weight	
			lb	kg
BTW	2'	RBTW6102	7.50	3.4
BTW	5'	RBTW6105	17.50	8.0
BTW	10'	RBTW6110	34.50	15.7
NTW	2'	RNTW6102	10.00	4.5
NTW	5'	RNTW6105	25.00	11.4
NTW	10'	RNTW6110	50.00	22.7
HTW	2'	RHTW6102	13.56	6.16
HTW	5'	RHTW6105	33.90	15.4
HTW	10'	RHTW6110	67.80	30.8

Metric

BTW	0.60 m	RBTW6602	6.80	3.1
BTW	1.50 m	RBTW6605	17.00	7.95
BTW	3.00 m	RBTW6610	34.00	15.5
NTW	0.60 m	RNTW6602	9.80	4.5
NTW	1.50 m	RNTW6605	24.50	11.2
NTW	3.00 m	RNTW6610	49.05	22.3
HTW	0.60 m	RHTW6602	13.53	6.14
HTW	1.50 m	RHTW6605	33.30	15.2
HTW	3.00 m	RHTW6610	66.70	30.3



Description	Length	Chrome or Std	Part No
B	5'	Std	ITB2125
B	10'	Std	ITB2130
B	5'	Chrome	ITB2175
B	10'	Chrome	ITB2180
BTW	5'	Std	ITBTW2325
BTW	10'	Std	ITBTW2330
BTW	5'	Chrome	ITBTW2375
BTW	10'	Chrome	ITBTW2380
N	5'	Std	ITN2125
N	10'	Std	ITN2130
N	5'	Chrome	ITN2175
N	10'	Chrome	ITN2180
N-2	5'	Std	ITN2725
N-2	10'	Std	ITN2730
N-2	5'	Chrome	ITN2775
N-2	10'	Chrome	ITN2780
N-2	10'	Std Extenda	ITN2781
N-2	10'	Chrome	ITN2781CP
NTW	5'	Std	ITNTW2325
NTW	10'	Std	ITNTW2330
NTW	5'	Chrome	ITNTW2375
NTW	10'	Chrome	ITNTW2380
H	5'	Std	ITH2125
H	10'	Std	ITH2130
H	5'	Chrome	ITH2175
H	10'	Chrome	ITH2180
HTW	5'	Std	ITHTW2325
HTW	10'	Std	ITHTW2330
HTW	10'	Chrome	ITHTW2380



Description	Length	Chrome or Std	Part No
B	5'	Std	OTB2145
B	10'	Std	OTB2150
B	5'	Chrome	OTB2185
B	10'	Chrome	OTB2190
BTW	5'	Std	OTBTW2345
BTW	10'	Std	OTBTW2350
BTW	5'	Chrome	OTBTW2385
BTW	10'	Chrome	OTBTW2390
N	5'	Std	OTN2145
N	10'	Std	OTN2150
N	5'	Chrome	OTN2185
N	10'	Chrome	OTN2190
NTW	5'	Std	OTNTW2367
NTW	5'	Chrome	OTNTW2367CP
NTW	10'	Std	OTNTW2368
NTW	10'	Chrome	OTNTW2368CP
H	5'	Std	OTH2145
H	10'	Std	OTH2150
H	5'	Chrome	OTH2185
H	10'	Std	OTH2190
HTW	5'	Std	OTHTW2345
HTW	10'	Std	OTHTW2350
HTW	5'	Chrome	OTHTW2385
HTW	10'	Chrome	OTHTW2390
P	5'	Std	OTP2145
P	5'	Chrome	OTP2185

LOADING SHEET

Description	Length	Quantity/ bundle	Weight/bundle		Length (in)	Height (in)	Width (in)
			lb	kg			

WIRELINE

DRILL RODS

B	10'	19	780	354.1	126	10 1/4	11 5/8
N	10'	19	1 005	456.3	126	13	14 3/4
H	10'	19	1 500	681.0	126	16 1/8	18 1/2
HM	10'	19	1 500	681.0	126	16 1/8	18 1/2
HMC	10'	19	1 200	544.8	126	16 1/8	18 1/2
HW	10'	7	840	381.4	126	16 1/8	18 1/2
P	10'	7	775	351.9	126	13	14 3/4

Thin Wall

ATW	10'	19	520	236.1	126	8	9 1/2
BTW	10'	19	675	306.5	126	10 5/8	12
NTW	10'	19	980	444.9	126	13 1/2	15 3/8

CASING

BW	10'	19	1 350	612.4	126	13 1/2	15 3/8
NW	10'	19	1 690	766.6	126	16 1/8	18 1/2
HW	10'	7	840	381.0	126	13	14 3/4
PW	10'	7	1 030	467.2	126	13	14 3/4

METRIC

WIRELINE

DRILL RODS

B	3m	19	780	354.1	126	10 1/4	11 5/8
N	3m	19	985	447.2	126	13	14 3/4
H	3m	19	1 480	671.9	126	16 1/8	18 1/2
HM	3m	19	1 480	671.9	126	16 1/8	18 1/2
HW	3m	7	825	374.6	126	16 1/8	18 1/2
P	3m	7	750	340.5	126	13	14 3/4

Thin Wall

ATW	3m	19	515	233.8	126	8	9 1/2
BTW	3m	19	665	301.9	126	10 5/8	12
NTW	3m	19	975	442.7	126	13 1/2	15 3/8

CASING

BW	3m	19	1 340	607.8	126	13 1/2	15 3/8
NW	3m	19	1 680	762.0	126	16 1/8	18 1/2
HW	3m	7	825	374.2	126	13	14 3/4
PW	3m	7	1 025	464.9	126	13	14 3/4

20' CONTAINER (Full Load)

Description	Weight/bundle	
	lb	kg

B Drill Rod

* 56 bundles of 19 (1 064 pieces)	43 400	19 703.6
* packaging	500	227.0
Total Weight	43 900	19 930.6

N Drill Rod

* 36 bundles of 19 (684 pieces)	35 460	16 098.8
* packaging	500	227.0
Total Weight	35 960	16 325.8

H Drill Rod

* 25 bundles of 19 (475 pieces)	37 000	16 798.0
* packaging	500	227.0
Total Weight	37 500	17 025.8

20' CONTAINER (1/4 to 3/4 Full)

Description	Weight/bundle	
	lb	kg

HW Drill Rod

* 10 bundles of 19 (190 pieces)	14 800	6 713.1
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HW Casing

* 24 bundles of 7 (168 pieces)	16 800	7 620.4
* packaging	500	227.0
Total Weight	35 100	14 560.6

N Drill Rod

* 24 bundles of 19 (456 pieces)	23 640	10 732.6
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NW Casing

* 10 bundles of 19 (190 pieces)	16 800	7 627.2
* packaging	500	227.0
Total Weight	40 940	18 586.8

20' CONTAINER (Full Load - Mixed)

Description	Weight/bundle	
	lb	kg
BW Drill Rod 3m		
* 27 bundles of 19 (513 pieces)	20 925	9 500.0
N Drill Rod 3m		
* 21 bundles of 19 (399 pieces)	20 685	9 391.0
* packaging	500	227.0
Total Weight	42 110	19 117.8
N Drill Rod 3m		
* 18 bundles of 19 (342 pieces)	17 730	8 049.4
H Drill Rod 3m		
* 15 bundles of 19 (285 pieces)	22 200	10 078.8
* packaging	500	227.0
Total Weight	40 430	18 355.2
HW Drill Rod 10'		
* 36 bundles of 7 (252 pieces)	30 240	13 956.0
* drill parts may be added to complete the load		
* packaging	500	227.0
Total Weight	30 740	13 956.0
P Drill Rod 10'		
* 36 bundles of 7 (252 pieces)	27 900	12 666.6
* drill parts may be added to complete the load		
* packaging	500	227.0
Total Weight	28 400	12 893.6

40' CONTAINER (Full Load)

Description	Weight/bundle	
	lb	kg
HW Drill Rod 3m		
* 68 bundles of 7 (476 pieces)	56 100	25 401.4
* packaging	1 000	454.0
Total Weight	57 100	25 855.4
BW Casing 10'		
* 42 bundles of 19 (798 pieces)	56 700	25 719.0
* packaging	1 000	454.0
Total Weight	57 700	25 173.0
NW Casing 10'		
* 33 bundles of 19 (627 pieces)	55 770	25 297.1
* packaging	1 000	454.0
Total Weight	56 770	25 751.1
HW Casing 10'		
* 67 bundles of 7 (469 pieces)	56 280	25 528.4
* packaging	1 000	454.0
Total Weight	57 280	25 982.4
PW Casing 10'		
* 55 bundles of 7 (385 pieces)	56 650	25 696.3
* packaging	1 000	454.0
Total Weight	57 650	26 150.3
BW Casing 3m		
* 42 bundles of 19 (798 pieces)	56 280	25 528.4
* packaging	1 000	454.0
Total Weight	57 280	25 982.4
NW Casing 3m		
* 33 bundles of 19 (627 pieces)	55 440	25 147.4
* packaging	1 000	454.0
Total Weight	56 440	25 601.4
HW Casing 3m		
* 67 bundles of 7 (469 pieces)	56 100	25 446.8
* packaging	1 000	454.0
Total Weight	57 100	25 900.8
PW Casing 3m		
* 55 bundles of 7 (385 pieces)	56 375	25 571.5
* packaging	1 000	454.0
Total Weight	57 375	26 025.5

CONTAINER SIZES

Size	Length	Width	Height
20' Container	18'	7' 6"	7' 6"
40' Container	39'	7' 6"	7' 6"

Note: Certain restrictions may apply.



Wireline Core Barrels Surface	13
Wireline Core Barrels Underground	38
Water Swivel and Hoisting Plugs	50
Locking Couplings	59
Adaptor Couplings	59
BY-pass Wedges	64
Adaptor	67
Recovery Tools	77

We manufacture

At MBI Global, we are a leading manufacturer and supplier of drill rigs. We manufacture and resell all consumable parts for head assemblies and core barrels, sizes A to P.

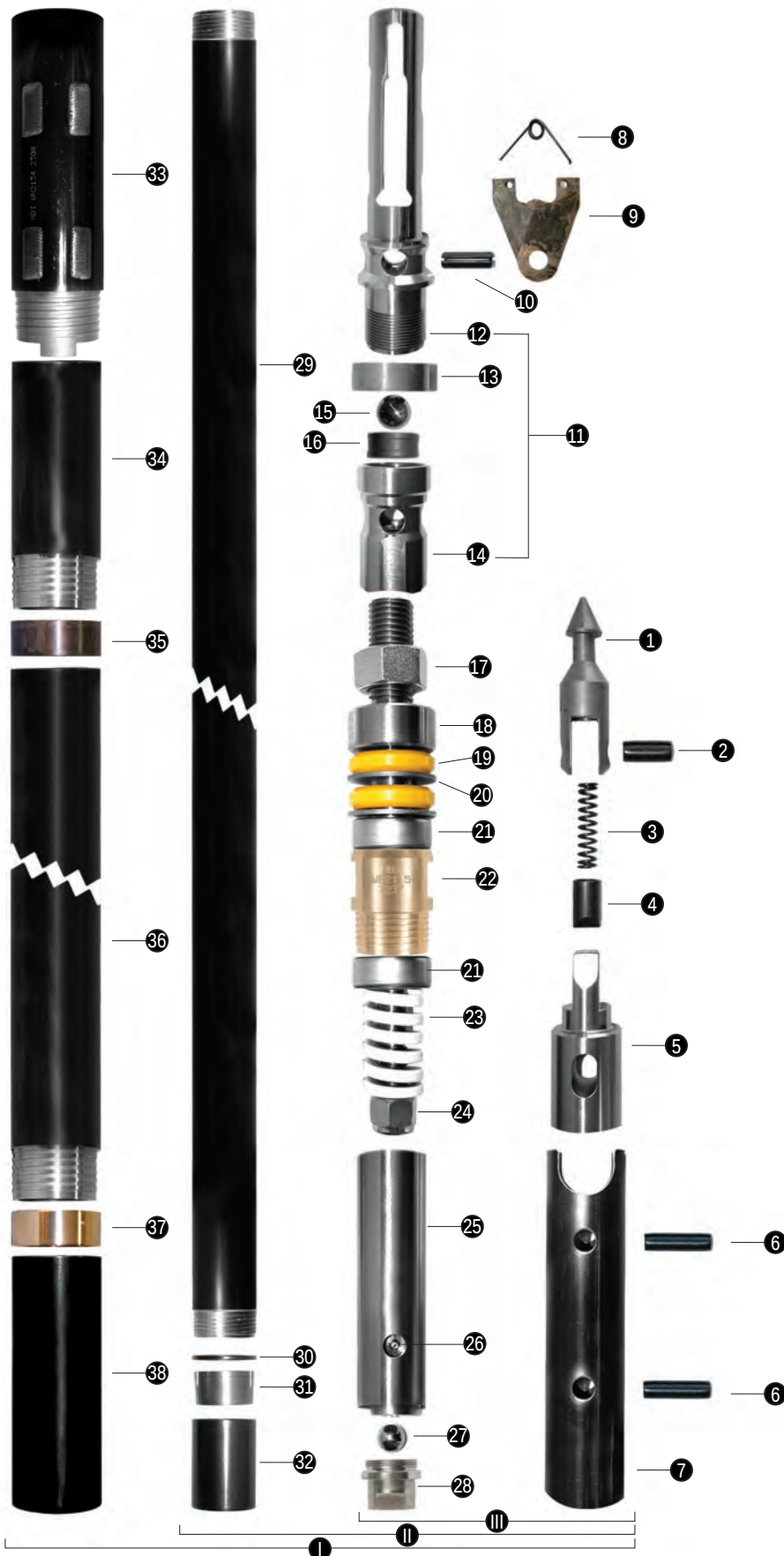
MBI's down-the-hole drilling products are recognized worldwide for their quality and durability. We proudly provide our clients with the best products at highly competitive prices.



We manufacture and resell all the consumable parts for the head assemblies and the core barrels from A to P.

WIRELINE CORE BARREL SURFACE

«Knuckle Head» Size : B



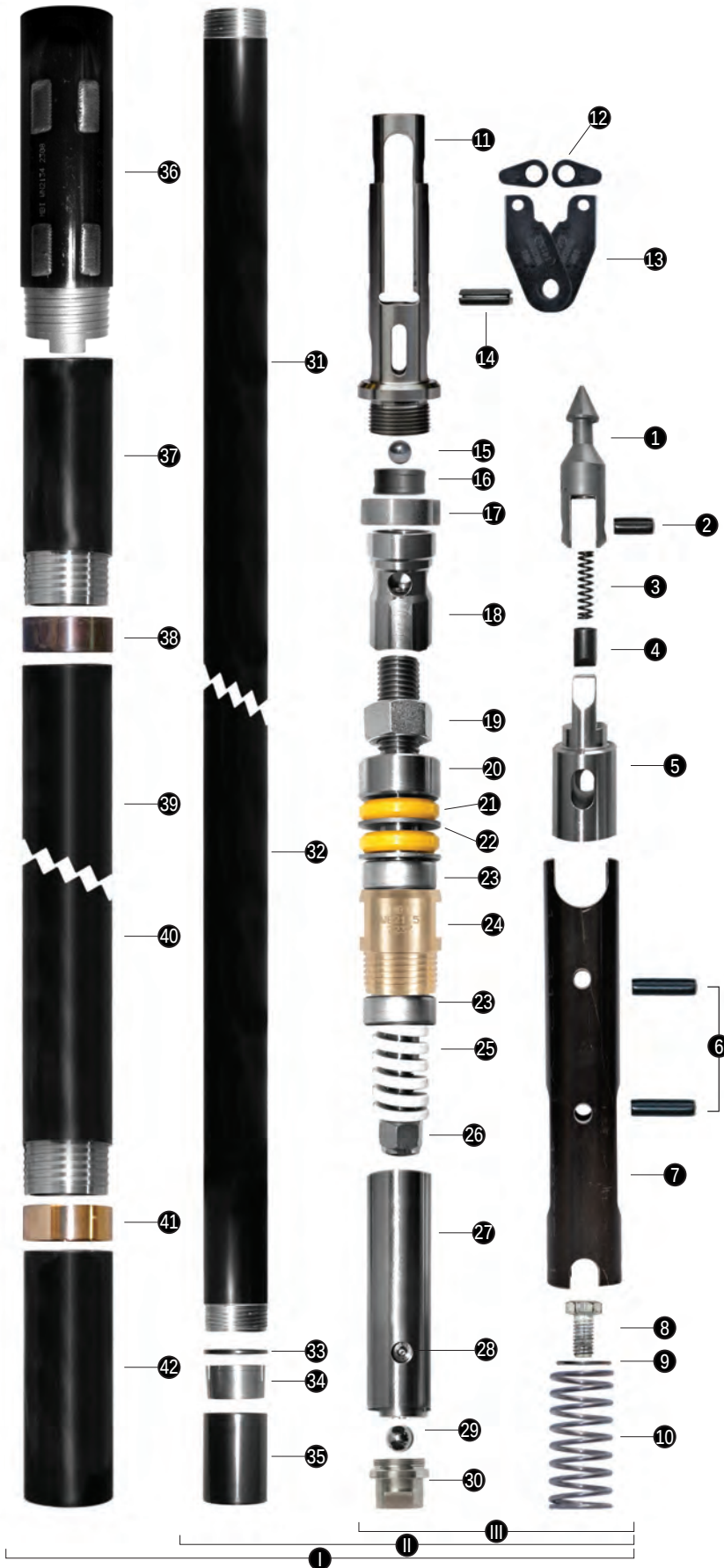
ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Core Barrel Assy FF 5' 10'	WB0205 WB0210	54.00 90.00	24.5 40.8
II	Inner Tube Assy FF 5' 10'	WB1205 WB1210	21.00 28.00	9.5 12.7
III	Head Assy FF	WB2002	11.50	5.2

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WB2204
6	Spring pin (2) (3/8" x 1 5/8")	WB2103
7	Latch retracting case	WB2206
8	Latch spring	WB2104
9	Latch (2)	WB2105
10	Spiral pin (3/8" x 1 1/4")	WB2106
11	Latch body assy	WB2909
12	Upper body	WB2909-1
13	Landing shoulder	WB2909-2
14	Lower body	WB2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WB2110
18	Spindel assy	WB2111
19	Shut-off valve (2)	WB2112U
20	Valve adjusting washer (2)	WB2113
21	Ball thrust bearing	WB2114
22	Spindle bearing	WB2115
23	Compression spring	WB2116
24	Self lock nut	WB2117
25	Inner tube cap assy FF	WB2119
26	Grease fitting	WB2120
27	Steel ball (3/4")	WB2121
28	Check valve body	WB2123
29	Inner tube 5'	ITB2125
29	Inner tube 10'	ITB2130
30	Stop ring	WB2132
31	Core lifter	WB2133
32	Core lifter case	WB2131
33	Locking coupling standard	WB2134
34	Adaptor coupling	WB2135
35	Landing ring	WB2136
36	Outer tube 5'	OTB2145
36	Outer tube 10'	OTB2150
37	Inner tube stabilizer	WB2139
38	Thread protector	WB2140

WIRELINE CORE BARREL SURFACE

"Knuckle Head" Size : BLL



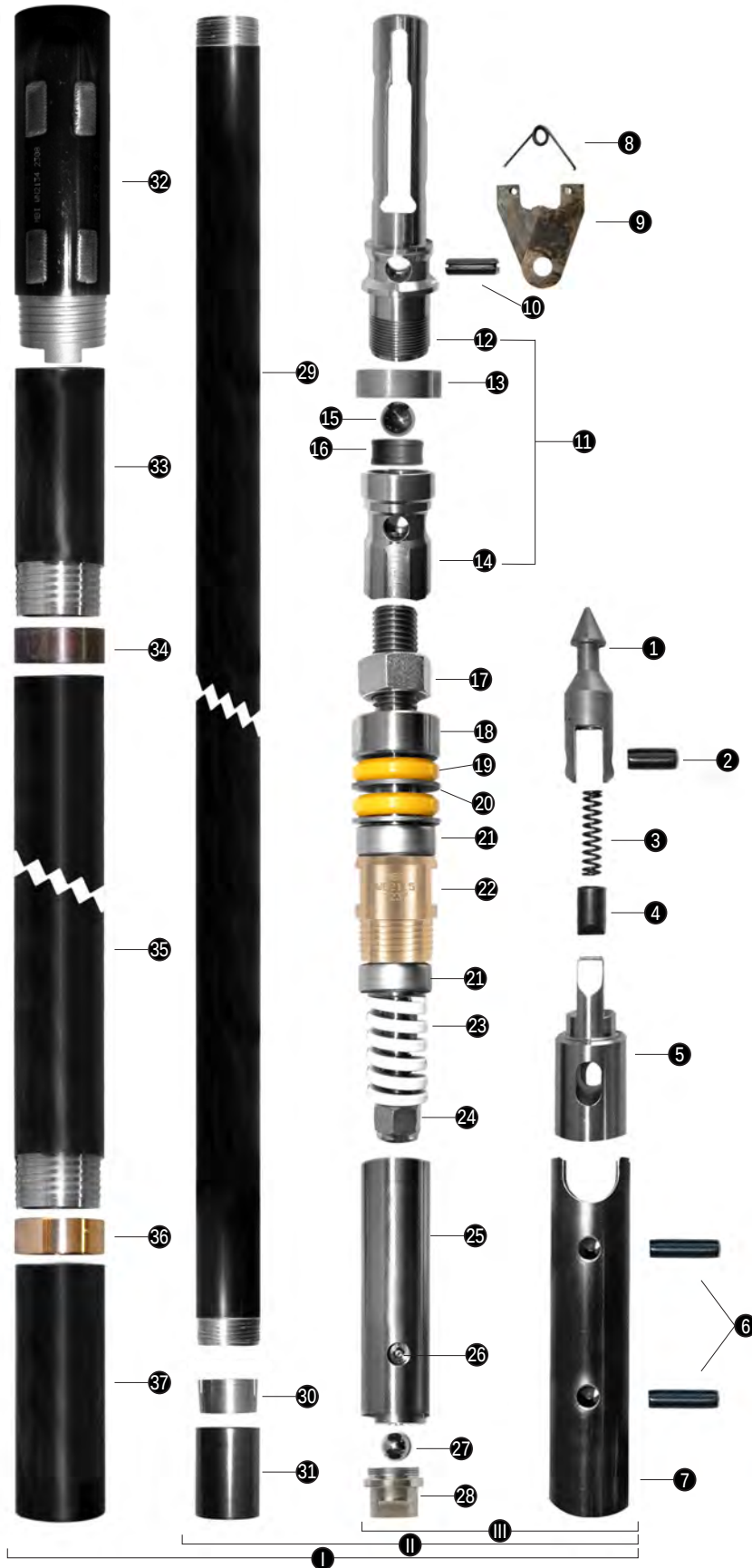
ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 1,5m / 5' 3m / 10'	WB0805	54.00	24.5
		WB0810	90.00	40.8
II	Inner Tube Assy FF 1,5m / 5' 3m / 10'	WB1805	21.00	9.5
		WB1810	28.00	12.7
III	Head Assy FF	WB2802	11.50	5.2

1	Spearhead Point	WBNH2201
2	Spiral Pin 7/8" x 1"	WBNH2205
3	Compression Spring	WBNH2202
4	Detent Plunger	WBNH2203
5	Spearhead Base	WB2204
6	Spring Pin, 3/8" x 1"5/8	WB2103
7	Latch Retracting Case	WB2806
8	Nyloc Bolt 3/8" - 16 x 3/4"	WBNH2821
9	Washer	WB2822
10	Latch Compression Spring	WB2823
11	Upper Latch Body	WB2809-1
12	Link	WB2807
13	Latch	WB2805
14	Spring Pin, 1/2" x 2"	WB2106
15	Stainless Steel Ball, 22mm	WBNH2909-4
16	Landing Indicator Bushing	WBNH2909-5
17	Landing Shoulder	WB2909-2
18	Lower Latch Body	WB2909-3
19	Hex Nut	WB2110
20	Spindle	WB2111
21	Shut-off Valve, Hard	WB2112U
22	Valve Adjusting Washer	WB2113
23	Thrust Bearing	WB2114
24	Spindle Bearing	WB2115
25	Compression Spring	WB2116
26	Lock Nut	WB2117
27	Inner Tube Cap Assy (27A,B,C)	WB2119
28	Grease Fitting	WB2120
29	Stainless Steel Ball 7/8"	WB2121
30	Check Valve Body	WB2123
31	Inner Tube 5'	ITB2125
32	Inner Tube 10'	ITB2130
33	Stop Ring	WB2132
34	Core Lifter	WB2133
35	Core Lifter Case	WB2131
36	Locking coupling standard	WB2134
37	Adaptor Coupling	WB2135
38	Landing Ring	WB2136
39	Outer tube 5'	OTB2145
40	Outer tube 10'	OTB2150
41	Inner tube stabilizer	WB2139
42	Thread protector	WB2140

WIRELINE CORE BARREL SURFACE

«Knuckle Head» Size : BTW



ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WBTW0405	49.00	22.3
		WBTW0410	74.40	33.8
II	Inner Tube Assy FF 5' 10'	WBTW1405	21.00	9.5
		WBTW1410	28.00	12.7
III	Head Assy FF	WBTW2004	11.5	5.2

CORE SIZE

Description	Core Diameter	
	mm	inch
BTW	36.3	1.654
B	36.3	1.432

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WB2204
6	Spring pin (2) (3/8" x 1 5/8")	WB2103
7	Latch retracting case	WB2206
8	Latch spring	WB2104
9	Latch (2)	WB2105
10	Spiral pin (3/8" x 1 1/4")	WB2106
11	Latch body assy	WBTW2909
12	Upper body	WB2909-1
13	Landing shoulder with ID grooves	WBTW2909-2
14	Lower body with ID grooves	WB2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WB2110
18	Spindel assy	WB2111
19	Shut-off valve (2)	WBTW2312U
20	Valve adjusting washer (2)	WBTW2313
21	Ball thrust bearing	WB2114
22	Spindle bearing	WB2115
23	Compression spring	WB2116
24	Self lock nut	WB2117
25	Inner tube cap assy FF	WBTW2319
26	Grease fitting	WB2120
27	Steel ball (7/8")	WB2121
28	Check valve body	WB2123
29	Inner tube 5'	ITBTW2325
29	Inner tube 10'	ITBTW2330
30	Core lifter	WBTW2333
31	Core lifter case	WBTW2331
32	Locking coupling standard	WBTW2334
33	Adaptor coupling	WBTW2335
34	Landing ring	WBTW2336
35	Outer tube 5'	OTBTW2345
35	Outer tube 10'	OTBTW2350
36	Inner tube stabilizer	WBTW2339
37	Thread protector	WB2340

WIRELINE OVERSHOT SURFACE

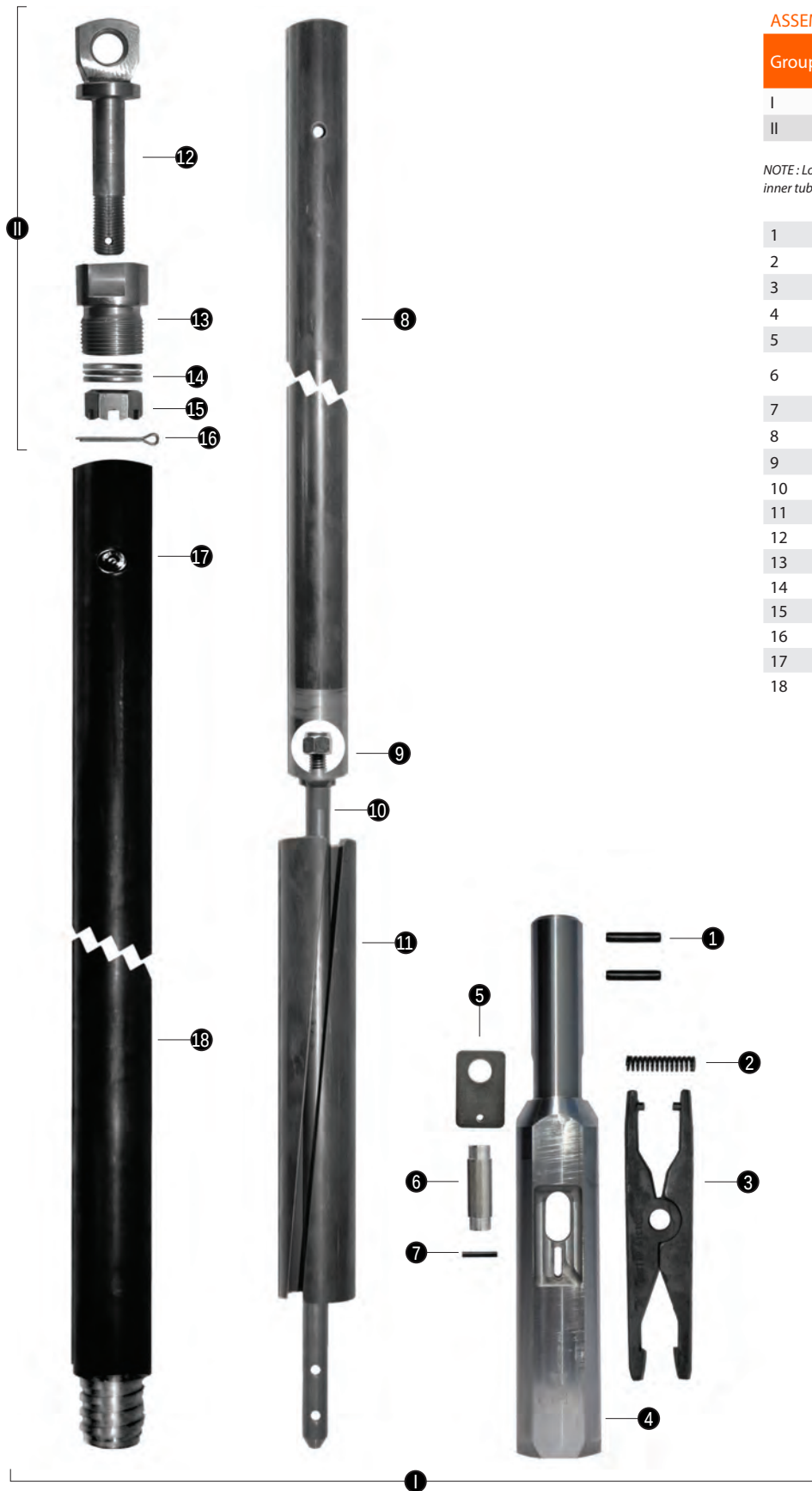
"Knuckle Head" Size : B

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OB3200NS	23.00	10.4
II	Cable Swivel	OBNH3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Spiral pin (2) (7/32" X 1/4")	OB3222
2	Lifting dog spring	OBNH3116
3	Lifting dog (2)	OB3119
4	Overshot head	OB3215M
5	Guiding plate	OB3215M-1
6	Lifting dog pivot pin (1/8" X 1 7/16")	OB3217M
7	Spring pin (1) (3/16" X 1 3/8")	OB3118
8	Jar tube weldment	OB3221
9	Self lock nut	OB3108
10	Jar staff	OB3212
11	Locking sleeve	OB3111
12	Eye bolt	OBNH3102
13	Cable swivel collar	OBNH3103
14	Needle thrust bearing	OBNH3104
15	Nut	OBNH3105
16	Cotter pin (3/32" X 1")	OBNH3106
17	Grease fitting	WB2120
18	Cable swivel body	OB3207



WIRELINE CORE BARREL SURFACE

'Knuckle Head' Size : N

ASSEMBLIES

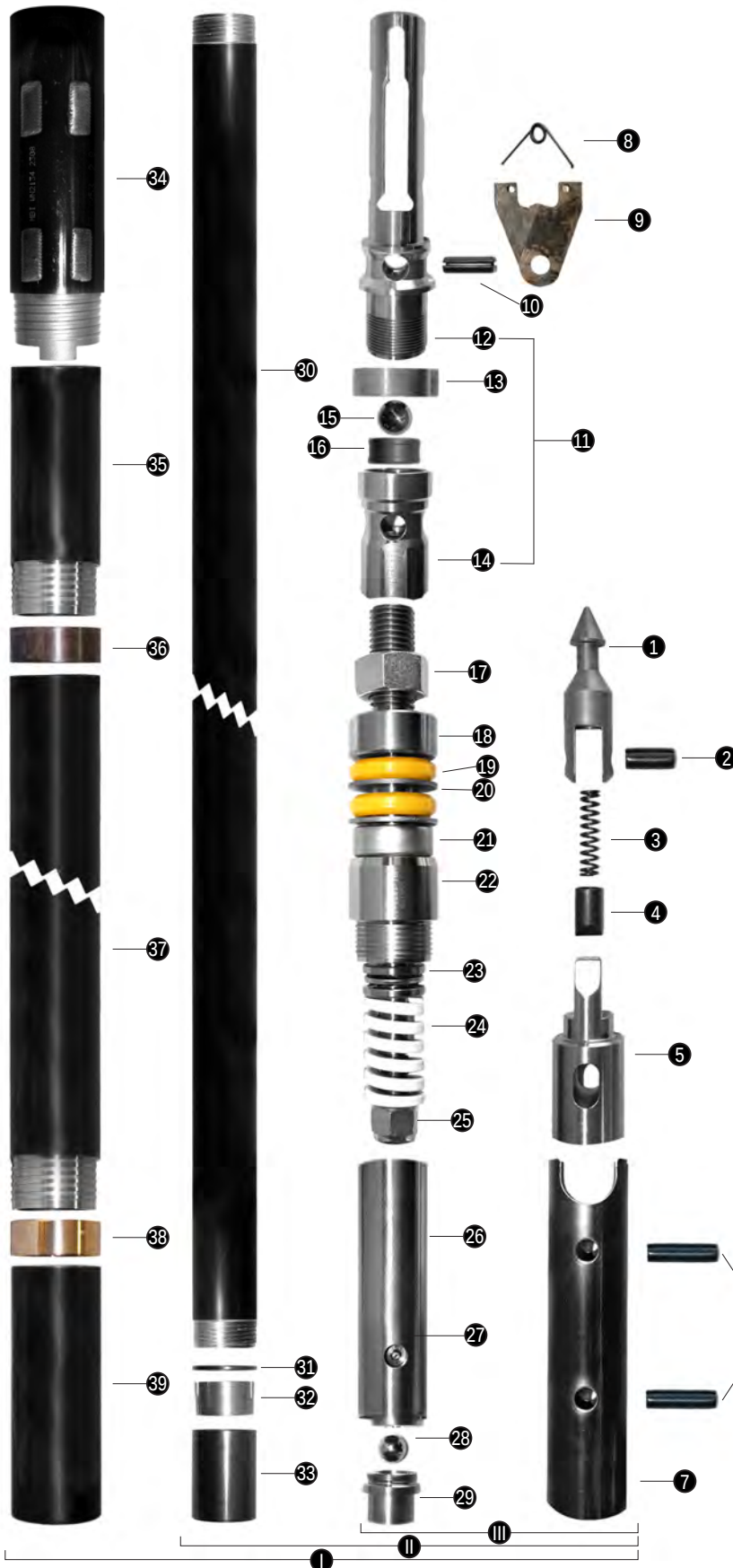
Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WN0205	89.70	40.7
		WN0210	138.00	62.4
II	Inner Tube Assy FF 5' 10'	WN1205	34.40	15.6
		WN1210	47.00	21.3
III	Head Assy FF	WN2002	20.13	9.1

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WN2804
6	Spring pin (2) (1/2" x 2")	WN2103
7	Latch retracting case	WN2206
8	Latch spring	WN2104
9	Latch (2)	WN2105
10	Spring pin (1/2" x 1 1/2")	WN2106
11	Latch body assy	WN2909
12	Upper body	WN2909-1
13	Landing shoulder	WN2909-2
14	Lower body	WN2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WN2110
18	Spindel assy	WN2111
19	Shut-off valve (2)	WN2112U
20	Valve adjusting washer (2)	WN2113
21	Ball thrust bearing	WN2114
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Options)	WN2115M
23	Hanger bearing	WN2124
24	Compression spring	WN2116
25	Self lock nut	WN2117
26	Inner tube cap assy FF	WN2119
27	Grease fitting	WB2120
28	Steel ball (22 mm)	WBNH2909-4
29	Check valve body	WN2123
30	Inner tube 5'	ITN2125
30	Inner tube 10'	ITN2130
31	Stop ring	WN2132
32	Core lifter	WN2133
33	Core lifter case	WN2131
34	Locking coupling standard	WN2134
35	Adaptor coupling	WN2135
36	Landing ring	WN2136
37	Outer tube 5'	OTN2145
37	Outer tube 10'	OTN2150
38	Inner tube stabilizer	WN2139
39	Thread protector	WN2140

OPTION

WN2115

N SPINDLE BEARING



WIRELINE CORE BARREL SURFACE

"Knuckle Head" Size : NLL

ASSEMBLIES

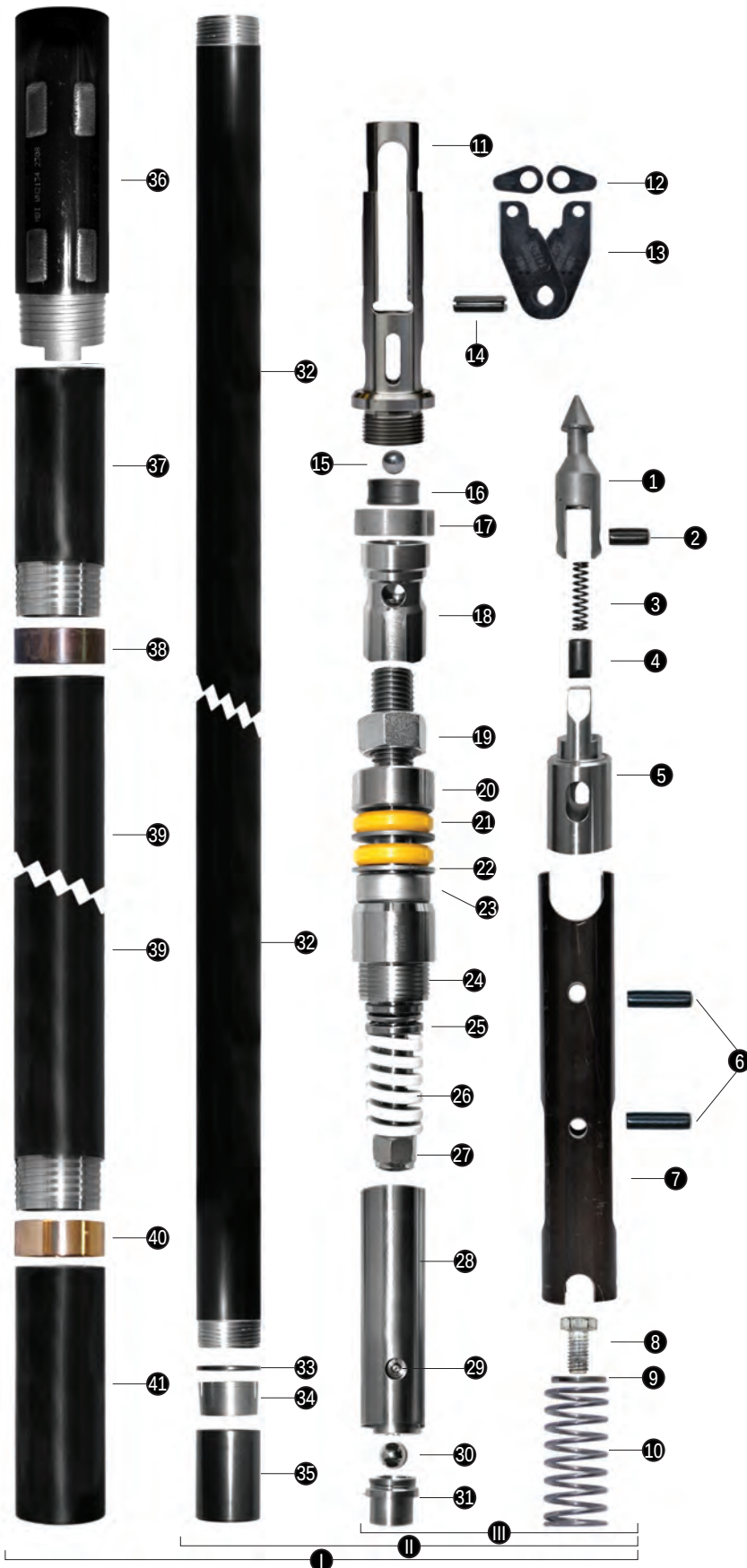
Group	Description	Part No	Weight	
			lb	kg
I	Core Barrel Assy FF 1,5m / 5' 3m / 10'	WN0805	89.70	40.7
		WN0810	138.00	62.4
II	Inner Tube Assy FF 1,5m / 5' 3m / 10'	WN1805	34.40	15.6
		WN1810	47.00	21.3
III	Head Assy FF	WN2802	20.13	9.1

1	Spearhead Point	WBNH2201
2	Spiral Pin 7/8" x 1"	WBNH2205
3	Compression Spring	WBNH2202
4	Detent Plunger	WBNH2203
5	Spearhead Base	WN2804
6	Spring Pin, 1/2" x 2" (2)	WN2103
7	Latch Retracting Case	WN2806
8	Nyloc Bolt 3/8" - 16 x 3/4"	WBNH2821
9	Washer	WN2822
10	Latch Compression Spring	WN2823
11	Upper Latch Body	WN2809-1
12	Link (2)	WN2807
13	Latch (2)	WN2805
14	Spring Pin, 1/2" x 1" 1/2	WN2106
15	Stainless Steel Ball, 22mm	WBNH2909-4
16	Landing Indicator Bushing	WBNH2909-5
17	Landing Shoulder	WN2909-2
18	Lower Latch Body	WN2909-3
19	Hex Nut	WN2110
20	Spindle	WN2111
21	Shut-off Valve, Hard (2)	WN2112U
22	Valve Adjusting Washer (2)	WN2113
23	Thrust Bearing	WN2114
24	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Options)	WN2115M
25	Hanger Bearing	WN2124
26	Compression Spring	WN2116
27	Self Lock Nut	WN2117
28	Inner Tube Cap Assy	WN2119
29	Grease Fitting	WB2120
30	Stainless Steel Ball (22 mm)	WBNH2909-4
31	Check Valve Body	WN2123
32	Inner Tube 5'	ITN2125
32	Inner Tube 10'	ITN2130
33	Stop Ring	WN2132
34	Core Lifter	WN2133
35	Core Lifter Case	WN2131
36	Locking coupling standard	WN2134
37	Adaptor Coupling	WN2135
38	Landing Ring	WN2136
39	Outer tube 5'	OTN2145
39	Outer tube 10'	OTN2150
40	Inner tube stabilizer	WN2139
41	Thread protector	WN2140

OPTION

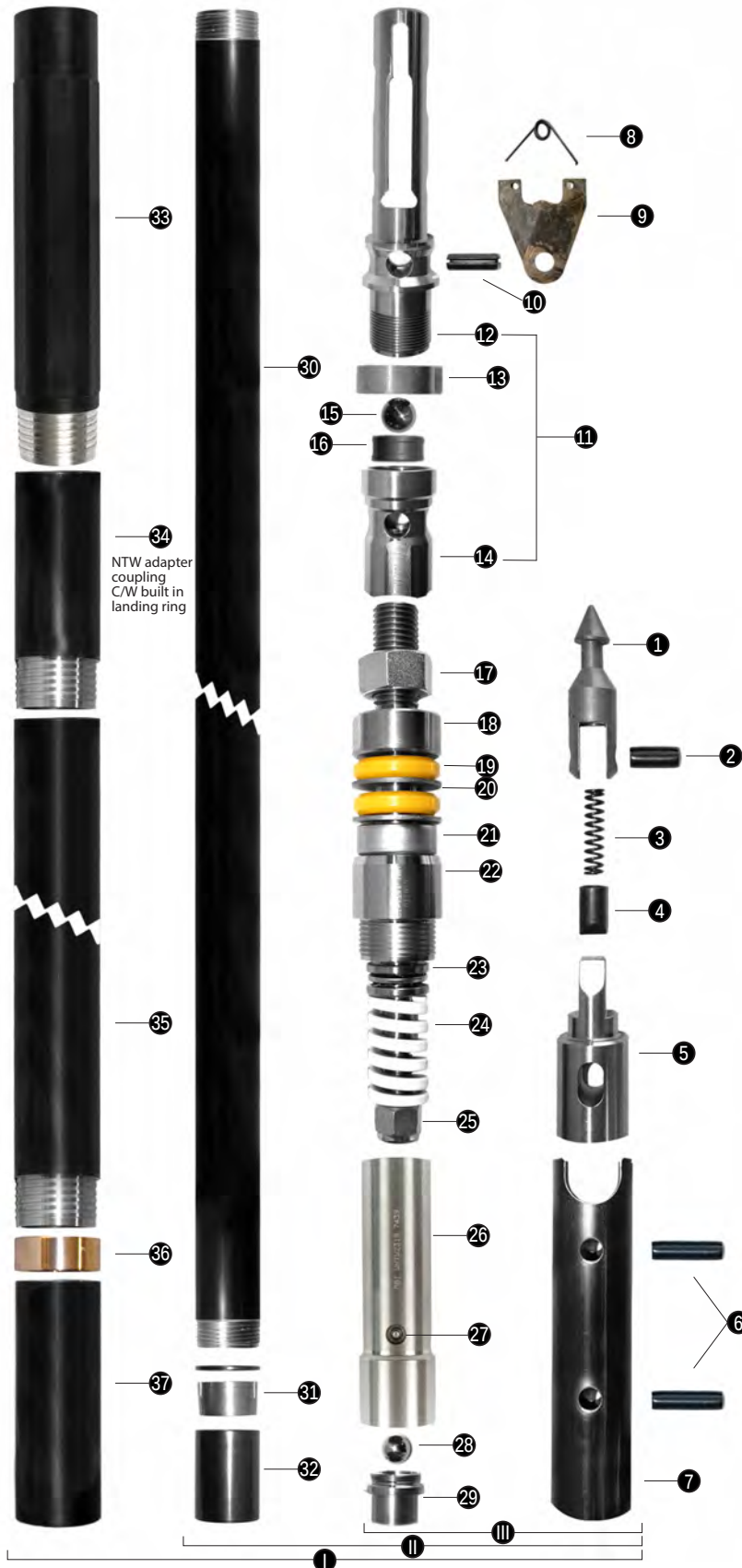
WN2115

N SPINDLE BEARING



WIRELINE CORE BARREL THIN WALL SURFACE

"Knuckle Head" Size : NTW



ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WNTW0605	75.00	34.0
		WNTW0610	110.00	50.0
II	Inner Tube Assy FF 5' 10'	WNTW1405	31.50	14.6
		WNTW1410	39.50	18.0
III	Head Assy FF	WNTW2004	20.10	9.6
1	Spearhead point	WBNH2201		
2	Spiral pin (7/16" X 1")	WBNH2205		
3	Compression spring	WBNH2202		
4	Detent plunger	WBNH2203		
5	Spearhead base	WN2804		
6	Spring pin (2) (1/2" x 2")	WN2103		
7	Latch retracting case	WN2206		
8	Latch spring	WN2104		
9	Latch (2)	WN2105		
10	Spring pin (1/2" x 1 1/2")	WN2106		
11	Latch body assy	WNTW2909		
12	Upper body	WN2909-1		
13	Landing shoulder	WNTW2909-2		
14	Lower body	WN2909-3		
15	Steel ball 22 mm	WBNH2909-4		
16	Landing indicator bushing	WBNH2909-5		
17	Lock nut	WN2110		
18	Spindel assy	WN2111		
19	Shut-off valve (2)	WNTW2312U		
20	Valve adjusting washer (2)	WNTW2313		
21	Ball thrust bearing	WN2114		
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Options)	WN2115M		
23	Hanger bearing	WN2124		
24	Compression spring	WN2116		
25	Self lock nut	WN2117		
26	Inner tube cap assy FF	WNTW2319		
27	Grease fitting	WB2120		
28	Steel ball (22 mm)	WBNH2909-4		
29	Check valve body	WN2123		
30	Inner tube 5'	ITNTW2325		
30	Inner tube 10'	ITNTW2330		
31	Core lifter	WNTW2333		
32	Core lifter case	WNTW2331		
33	Locking coupling standard	WNTW2363		
34	Adaptor coupling (complete with built in landing ring)	WNTW2364		
35	Outer tube 5'	OTNTW2367		
35	Outer tube 10'	OTNTW2368		
36	Inner tube stabilizer	WNTW2365		
37	Thread protector	WNTW2366		

OPTION

WH2115	H SPINDLE BEARING
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WIRELINE CORE BARREL SURFACE

"Knuckle Head" Size : N 2

ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF			
	5'	WN0705	89.70	40.7
	10'	WN0710	138.00	62.4
II	Inner Tube Assy FF			
	5'	WN1705	34.40	15.6
	10'	WN1710	47.00	21.3
III	Head Assy FF	WN2700	20.10	9.6

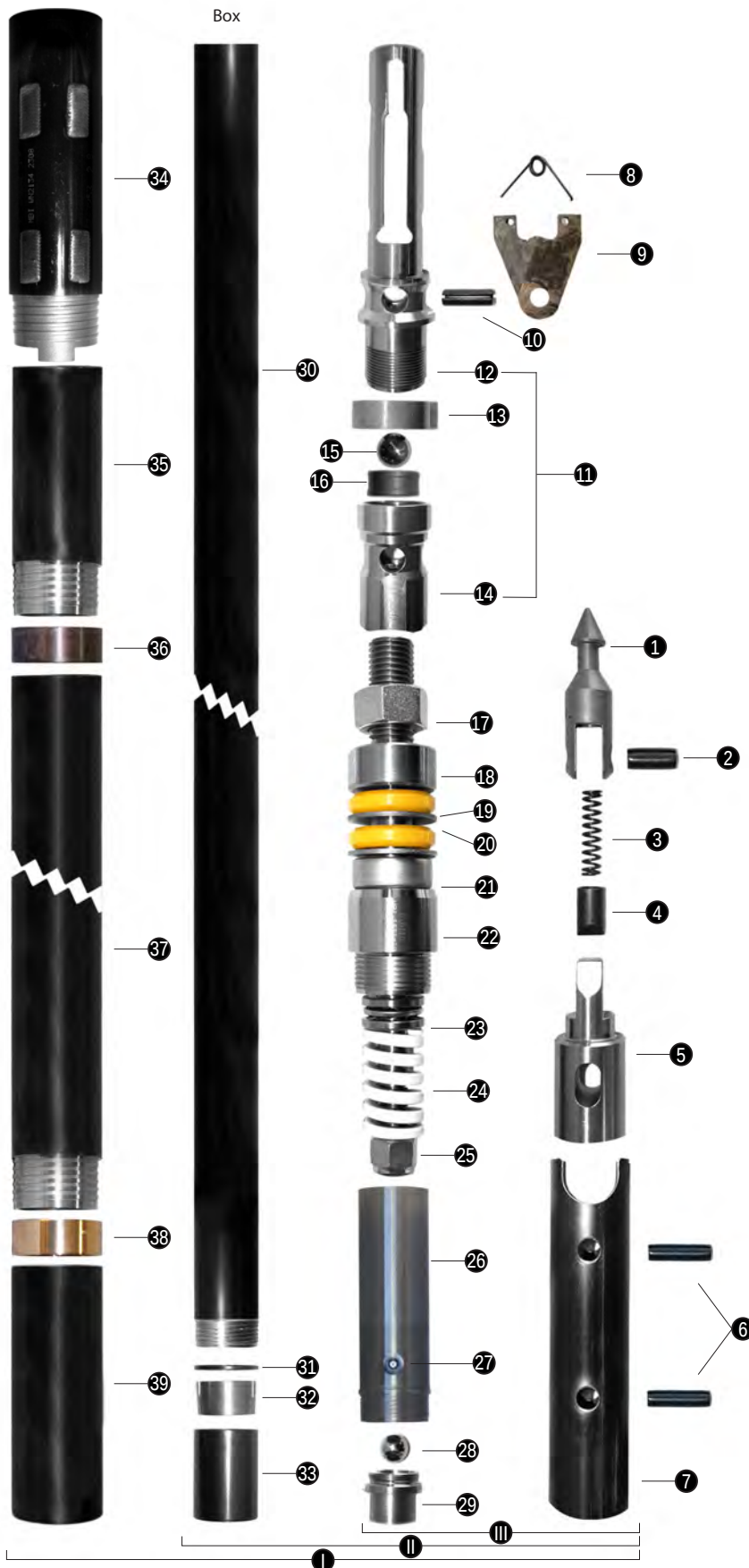
CORE SIZE

Description	Weight lb	kg
N 2	50.5	1.990
N	47.6	1.875
NTW	56	2.205

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WN2204
6	Spring pin (2) (1/2" x 2")	WN2103
7	Latch retracting case	WN2206
8	Latch spring	WN2104
9	Latch (2)	WN2105
10	Spring pin (1/2" x 1 1/2")	WN2106
11	Latch body assy	WN2709
12	Upper body	WN2909-1
13	Landing shoulder	U36072
14	Lower body	WN2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WN2110
18	Spindel assy	WN2111
19	Shut-off valve (2)	WU2112U
20	Valve adjusting washer (2)	WN2113
21	Ball thrust bearing	WN2114
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Option)	WN2115M
23	Hanger bearing	WN2124
24	Compression spring	WN2116
25	Self lock nut	WN2117
26	Inner tube cap assy FF	WN2719
27	Grease fitting	WB2120
28	Steel Ball (22 mm)	WBNH2909-4
29	Check valve body	WN2123
30	Inner tube 5'	ITN2725
30	Inner tube 10'	ITN2730
31	Stop ring	WN22732
32	Core lifter	WN22733
33	Core lifter case	WN22731
34	Locking coupling standard	WN2134
35	Adaptor coupling	WN2135
36	Landing ring	WN2736
37	Outer tube 5'	OTN2145
37	Outer tube 10'	OTN2150
38	Inner tube stabilizer	WN2739
39	Thread protector	WN2140

OPTION

WN2115	N SPINDLE BEARING
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WIRELINE OVERSHOT SURFACE

'Knuckle Head' Size : N

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	ON3200NS	35.35	16.0
II	Cable Swivel	OBNH3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Spiral pin (2) (1/4" X 1 1/2")	ONH3222
2	Lifting dog spring	OBNH3116
3	Lifting dog (2)	ONH3119
4	Overshot head	ON3215M
5	Guiding plate (2)	ON3215M-1
6	Lifting dog pivot pin (1/2" X 1 15/16")	ON3217M
7	Spring pin (1) (1/4" X 1 3/4")	ON3218M
8	Jar tube weldment	ONH3221
9	Self lock nut	ONH3108
10	Jar staff	ONH3212
11	Locking sleeve	ONH3111
12	Eye bolt	OBNH3102
13	Cable swivel collar	OBNH3103
14	Needle thrust bearing	OBNH3104
15	Nut	OBNH3105
16	Cotter pin (3/32" X 1")	OBNH3106
17	Grease fitting	WB2120
18	Cable swivel body	ONH3207
19	Overshot locking pin	ON3214



WIRELINER OVERSHOT SURFACE

'Knuckle Head' Size : N



ASSEMBLIES

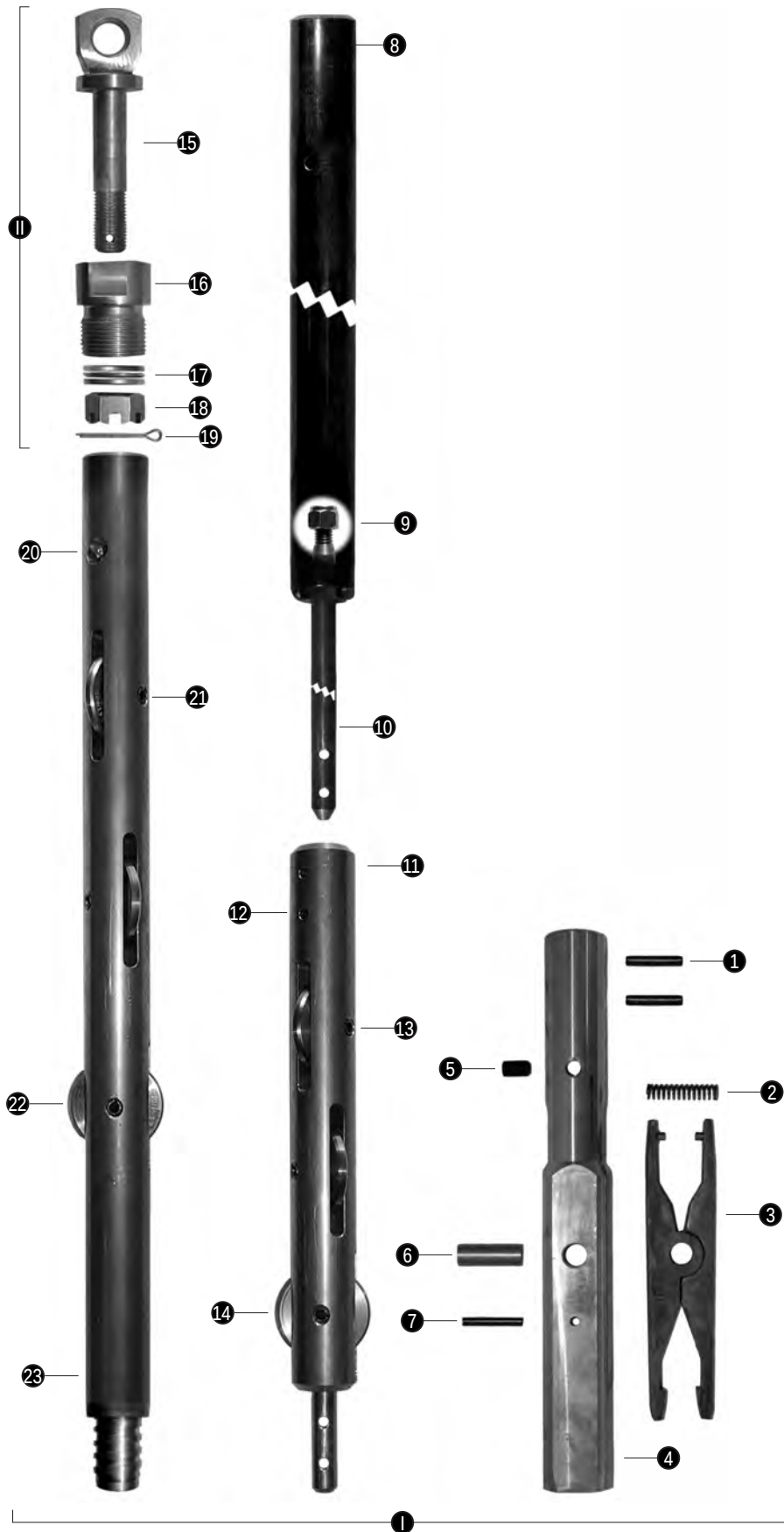
Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	ON3200NSLY	35.35	16.0
II	Cable Swivel	OBNH3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Nut 3/4" - 10	ONH3108LY
2	Spring lock washer	ONH3213
3	Lifting dog spring	OBNH3116
4	Lifting dog (2)	ONH3119
5	Overshot locking pin	ON3214
6	Overshot head	ONH3215MLY
7	Guiding plate (2)	ON3215M-1
8	Lifting dog pivot pin (1/2" X 1 15/16")	ON3217M
9	Spring pin (1) (1/4" X 1 3/4")	ON3218M
10	Jar tube weldment	ONH3221LY
11	Jar staff	ONH3212LY
12	Locking sleeve	ONH3111
13	Eye bolt	OBNH3102
14	Cable swivel collar	OBNH3103
15	Needle thrust bearing	OBNH3104
16	Nut	OBNH3105
17	Cotter pin (3/32" X 1")	OBNH3106
18	Grease fitting	WB2120
19	Cable swivel body	ONH3207

WIRELINE OVERSHOT SURFACE

'Roller Type' Size : N



ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	ON3250	39.00	17.7
II	Cable Swivel	OBNH3121	0.56	0.2
1	Spiral pin (2) (1/4" X 1 1/2")	ONH3222		
2	Lifting dog spring	OBNH3116		
3	Lifting dog (2)	ONH3119		
4	Overshot head	ON3215		
5	Machine screw	OBNH3214		
6	Lifting dog pivot pin (1/2" X 1 15/16")	ON3217		
7	Spring pin (1) (1/4" X 1 3/4")	ON3218		
8	Jar tube weldment	ONH3221		
9	Lock nut	ONH3108		
10	Jar staff	ONH3212		
11	Overshot head roller type assy	ON3258		
12	Spiral pin (2) (1/4" x 1 1/2")	ONH3222		
13	Spring pin (3) (3/8" x 1 5/8")	WB2103		
14	Steel roller (3)	ON3256		
15	Eye bolt	OBNH3102		
16	Cable swivel collar	OBNH3103		
17	Needle thrust bearing	OBNH3104		
18	Nut	OBNH3105		
19	Cotter pin	OBNH3106		
20	Grease fitting	WB2120		
21	Spring pin (3) (3/8" x 1 5/8")	WB2103		
22	Steel roller (3)	ON3256		
23	Cable swivel body roller type assy	ON3257		

WIRELINE CORE BARREL SURFACE

"Knuckle Head" Size : H

ASSEMBLIES

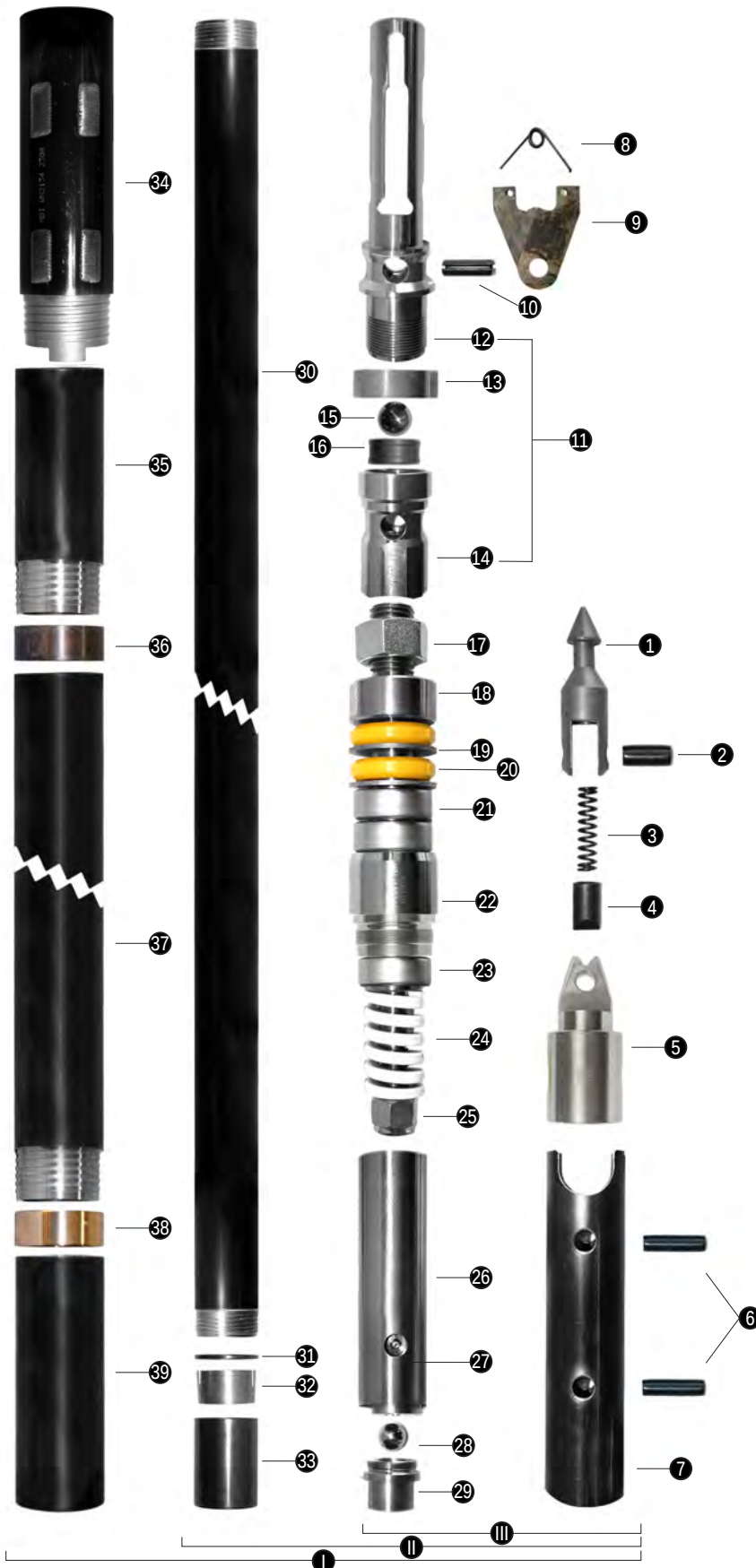
Group	Description	Part No	Weight lb kg	
I	Core Barrel Assy FF 5' 10'	WH0205	145.00	65.9
		WH0210	214.50	97.2
II	Inner Tube Assy FF 5' 10'	WH1205	60.50	27.4
		WH1210	79.00	35.8
III	Head Assy FF	WH2002	41.25	18.7

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WH2804
6	Spring pin (2) (1/2" x 2 3/4")	WH2103
7	Latch retracting case	WH2206
8	Latch spring	WH2104
9	Latch (2)	WH2105
10	Spring pin (1/2" x 2")	WN2103
11	Latch body assy	WH2909
12	Upper body	WH2909-1
13	Landing shoulder	WH2909-2
14	Lower body	WH2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WH2110
18	Spindel assy	WH2111
19	Shut-off valve (2)	WH2112U
20	Valve adjusting washer (2)	WH2113
21	Ball thrust bearing (2)	WH2114
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Option)	WH2115M
23	Ball thrust bearing	WN2114
24	Compression spring	WH2116
25	Self lock nut	WH2117
26	Inner tube cap assy FF	WH2119
27	Grease fitting	WB2120
28	Steel ball (22 mm)	WBNH2909-4
29	Check valve body	WN2123
30	Inner tube 5'	ITH2125
30	Inner tube 10'	ITH2130
31	Stop ring	WH2132
32	Core lifter	WH2133
33	Core lifter case	WH2131
34	Locking coupling standard	WH2134
35	Adaptor coupling	WH2135
36	Landing ring	WH2136
37	Outer tube 5'	OTH2145
37	Outer tube 10'	OTH2150
38	Inner tube stabilizer	WH2139
39	Thread protector	WH2140

OPTION

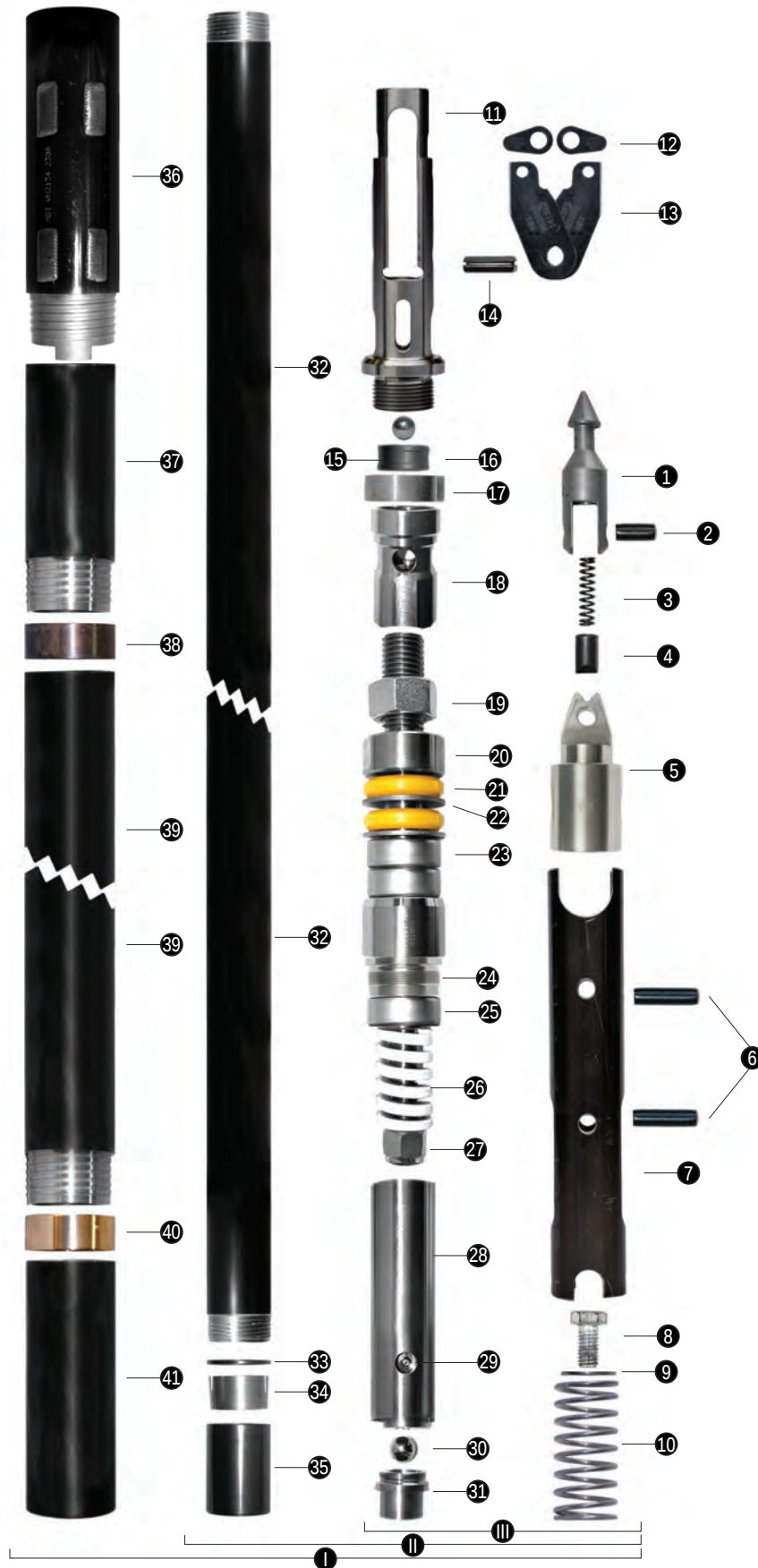
WH2115

H SPINDLE BEARING



WIRELINE CORE BARREL SURFACE

"Knuckle Head" Size : HLL



Group	Description	Part No	Weight	
			lb	kg
I	Core Barrel Assy FF 1,5m / 5' 3m / 10'	WH0805 WH0810	89.70 138.00	40.7 62.4
II	Inner Tube Assy FF 1,5m / 5' 3m / 10'	WH1805 WH1810	34.40 47.00	15.6 21.3
III	Head Assy FF	WH2802	20.13	9.1
1	Spearhead Point	WBNH2201		
2	Spiral Pin 7/8" x 1"	WBNH2205		
3	Compression Spring	WBNH2202		
4	Detent Plunger	WBNH2203		
5	Spearhead Base	WH2804		
6	Spring Pin, 1/2" x 2" (2)	WH2103		
7	Latch Retracting Case	WH2806		
8	Nyloc Bolt 3/8" - 16 x 3/4"	WBNH2821		
9	Washer	WH2822		
10	Latch Compression Spring	WH2823		
11	Upper Latch Body	WH2809-1		
12	Link (2)	WH2807		
13	Latch (2)	WH2805		
14	Spring Pin, 1/2" x 2"	WN2103		
15	Stainless Steel Ball (22 mm)	WBNH2909-4		
16	Landing Indicator Bushing	WBNH2909-5		
17	Landing Shoulder	WH2909-2		
18	Lower Latch Body	WH2809-3		
19	Hex Nut	WH2110		
20	Spindle	WH2111		
21	Shut-off Valve, Hard (2)	WH2112U		
22	Valve Adjusting Washer (2)	WH2113		
23	Thrust Bearing (2)	WH2114		
24	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Option)	WH2115M		
25	Hanger Bearing	WN2114		
26	Compression Spring	WH2116		
27	Self Lock Nut	WH2117		
28	Inner Tube Cap Assy	WH2119		
29	Grease Fitting	WB2120		
30	Stainless Steel Ball (22 mm)	WBNH2909-4		
31	Check Valve Body	WN2123		
32	Inner Tube 5'	ITH2125		
32	Inner Tube 10'	ITH2130		
33	Stop Ring	WH2132		
34	Core Lifter	WH2133		
35	Core Lifter Case	WH2131		
36	Locking coupling standard	WH2134		
37	Adaptor Coupling	WH2135		
38	Landing Ring	WH2136		
39	Outer tube 5'	OTH2145		
39	Outer tube 10'	OTH2150		
40	Inner tube stabilizer	WH2139		
41	Thread protector	WH2140		

OPTION

WH2115

H SPINDLE BEARING

WIRELINE CORE BARREL THIN WALL SURFACE

"Knuckle Head" Size : HTW

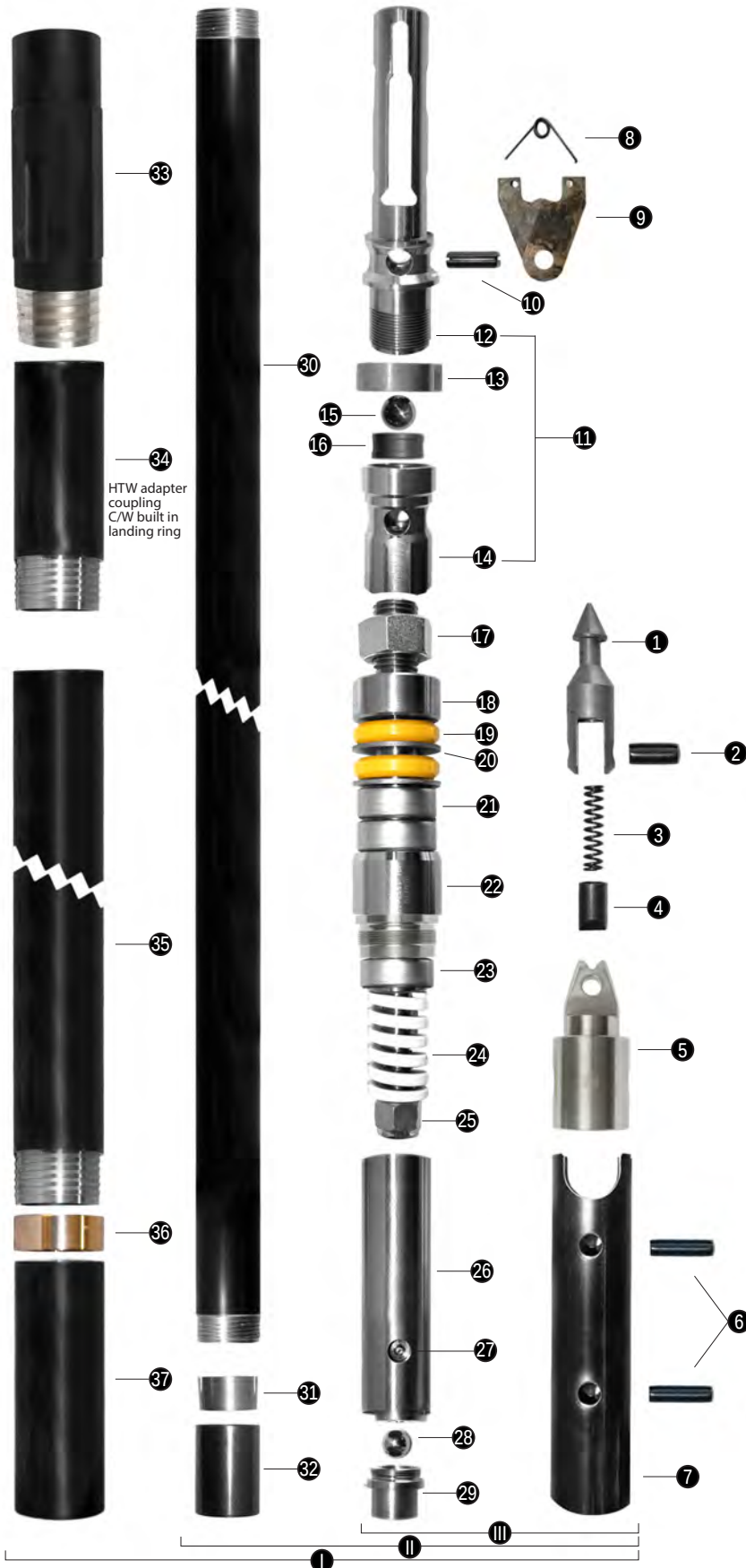
ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WHTW0405	128.00	58.40
		WHTW0410	185.20	84.00
II	Inner Tube Assy FF 5' 10'	WHTW1405	61.55	27.90
		WHTW1410	77.55	35.20
III	Head Assy FF	WHTW2004	43.55	19.74

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WH2804
6	Spring pin (2) (1/2" x 2 3/4")	WH2103
7	Latch retracting case	WH2206
8	Latch spring	WH2104
9	Latch (2)	WH2105
10	Spring pin (1/2" x 2")	WN2103
11	Latch body assy	WHTW2909
12	Upper body	WH2909-1
13	Landing shoulder	WHTW2909-2
14	Lower body	WH2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WH2110
18	Spindel assy	WH2111
19	Shut-off valve (2)	WH2312U
20	Valve adjusting washer (2)	WH2113
21	Ball thrust bearing (2)	WH2114
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Option)	WH2115M
23	Ball thrust bearing	WN2114
24	Compression spring	WH2116
25	Self lock nut	WH2117
26	Inner tube cap assy FF	WHTW2319
27	Grease fitting	WB2120
28	Steel ball (22 mm)	WBNH2909-4
29	Check valve body	WN2123
30	Inner tube 5'	ITHTW2325
30	Inner tube 10'	ITHTW2330
31	Core lifter	WHTW2333
32	Core lifter case	WHTW2331
33	Locking coupling standard	WHTW2334H
34	Adaptor coupling (complete with built in landing ring)	WHTW2335
35	Outer tube 5'	OTHTW2345
35	Outer tube 10'	OTHTW2350
36	Inner tube stabilizer	WHTW2339
37	Thread protector	WHTW2340

OPTION

WH2115	H SPINDLE BEARING
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WIRELINE OVERSHOT SURFACE

'Knuckle Head' Size : H

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OH3200NS	38.60	17.5
II	Cable Swivel	OBNH3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Spiral pin (2) (1/4" X 1 1/2")	ONH3222
2	Lifting dog spring	OBNH3116
3	Lifting dog (2)	ONH3119
4	Overshot head	ON3215M
5	Sleeve adaptor	OH3220-SP
6	Guiding plate (2)	ON3215M-1
7	Lifting dog pivot pin	ON3217M
8	Spring pin (1/4" x 3 1/4")	ON3218M
9	Jar tube weldment	ONH3221
10	Self lock nut	ONH3108
11	Jar staff	ONH3212
12	Locking sleeve	ONH3111
13	Eye bolt	OBNH3102
14	Cable swivel collar	OBNH3103
15	Needle thrust bearing	OBNH3104
16	Nut	OBNH3105
17	Cotter pin (3/32" X 1")	OBNH3106
18	Grease fitting	WB2120
19	Cable swivel body	ONH3207
20	Overshot locking pin	ON3214



WIRELINE OVERSHOT SURFACE

'Knuckle Head' Size : H



ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OH3200NSLY	38.60	17.5
II	Cable Swivel	OBNH3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Nut 3/4" - 10	ONH3108LY
2	Spring lock washer 3/4"	ONH3213
3	Lifting dog spring	OBNH3116
4	Lifting dog (2)	ONH3119
5	Overshot locking pin	ON3214
6	Overshot head	ONH3215MLY
7	Sleeve adaptor	OH3220-5P
8	Guiding plate (2)	ON3215M-1
9	Lifting dog pivot pin	ON3217M
10	Spring pin (1/4" x 3 1/4")	ON3218M
11	Jar tube weldment	ONH3221LY
12	Jar staff	ONH3212LY
13	Locking sleeve	ONH3111
14	Eye bolt	OBNH3102
15	Cable swivel collar	OBNH3103
16	Needle thrust bearing	OBNH3104
17	Nut	OBNH3105
18	Cotter pin (3/32" X 1")	OBNH3106
19	Grease fitting	WB2120
20	Cable swivel body	ONH3207

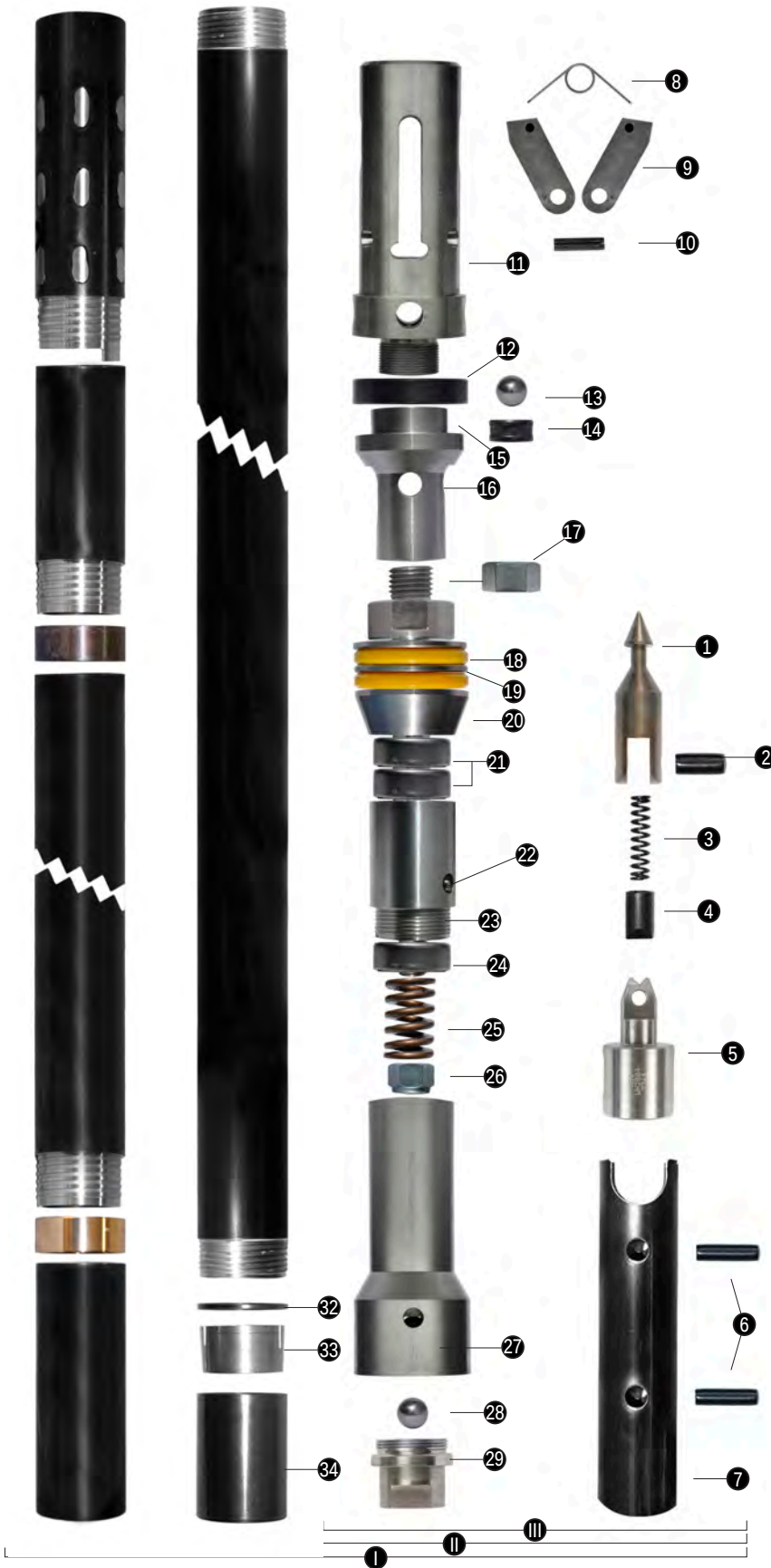
WIRELINE CORE BARREL SURFACE

"Knuckle Head" Size : P

ASSEMBLIES

Group	Description	Part No	Weight lb kg	
I	Core Barrel Assy FF	WP0205	211	95.7
	5' 10'	WP0210	304	138
II	Inner Tube Assy FF	WP1205	95	43.1
	5' 10'	WP1210	121	54.9
III	Head Assy FF	WP2002	66	29.9

1	Spearhead Point	WP2201
2	Spirol Pin (3/4" x 2")	WP2205
3	Spearhead Compression Spring	WP2202
4	Detent Plunger	WP2203
5	Spearhead Base	WP2204
6	Spirol Pin (20mm x 100mm)	WP2103
7	Latch Retracting Case	WP2206
8	Latch Spring	WP2104
9	Latch (2)	WP2105
10	Spring Pin (1/2" x 2") (2)	WN2103
11	Upper Latch Body	WP2909-1
12	Landing shoulder	WP2909-2
13	Stell Ball 22mm	WBNH2909-4
14	Landing Indicator Bushing	WBNH2909-5
15	Spindle Assy	WP2111
16	Lower Latch Body	WP2909-3
17	Lock Nut (1 1/2" - 6 NC)	WP2110
18	Shut off Valve (2)	WP2112-UNS
19	Valve Adjusting Washer (2)	WP2113
20	Washer Tapered	WP2119-CAP
21	Ball Thrust Bearing B13 (2)	WH2114
22	Grease Fitting	WB3120
23	Spindle Bearing	WP2115
24	Ball Thrust Bearing B9	WN2114
25	Spindle Compression Spring	WH2116
26	Self Lock Nut (1" - 8 NC)	WH2117
27	Inner Tube Cap Assy FF	WP2119
28	Steel Ball (22 mm)	WBNH2909-4
29	Check Valve Body	WP2123
30	Inner Tube 5'	ITP2125
31	Inner Tube 10'	ITP2130
32	Stop Ring	WP2132
33	Core Lifter	WP2133
34	Core Lifter Case	WP2131
35	Locking coupling standard	WP2134-3
36	Adaptor coupling	WP2135-LY
37	Landing Ring	WP2136
38	Outer tube 5'	OTP2145
39	Outer tube 10'	OTP2150
40	Inner tube stabilizer	WP2139
41	Thread protector	WP2140



WIRELINE OVERSHOT SURFACE

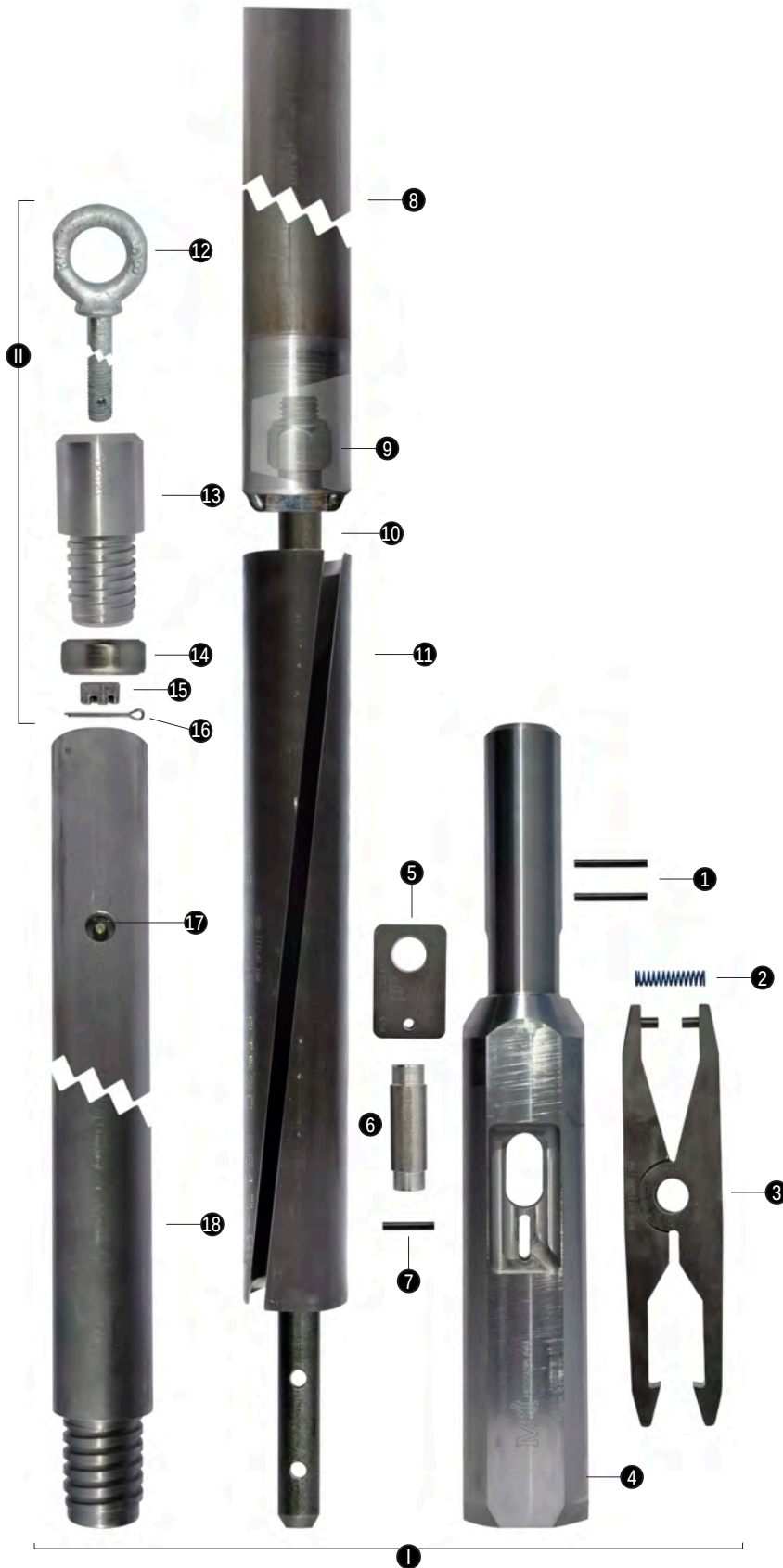
"Knuckle Head" Size : P

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OP3200	38.60	17.5
II	Cable Swivel	OP3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Spiral pin (5/16" x 2")	OP3222
2	Lifting dog spring	OP3116
3	Lifting dog	OP3119
4	Overshot head	OP3215M
5	Guiding plate	OP3215M-1
6	Lifting dog pivot pin	OP3217M
7	Spring pin (1/4" x 3 1/4")	OP3223
8	Jar tube weldment	OP3221
9	Self lock nut	WN2117
10	Jar staff	OP3212
11	Locking sleeve	OP3111
12	Eye bolt	OP3102
13	Cable swivel collar	OP3103
14	Bearing	WB2114
15	Nut	OP3105
16	Cotter pin (1/8" x 1 3/4")	HP60017
17	Grease fitting	WB2120
18	Cable swivel body	OP3207



WIRELINE OVERSHOT SURFACE

"Knuckle Head" Size : P



ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OP3200NS	38.60	17.5
II	Cable Swivel	OBNH3121	0.56	0.2

NOTE : Locking sleeve is used in dry hole only. It must be removed when hoisting inner tube.

1	Nut 3/4" - 10	ONH3108LY
2	Spring lock washer 3/4"	ONH3213
3	Lifting dog spring	OBNH3116
4	Overshot locking pin	ON3214
5	Lifting dog (2)	ONH3119
6	Sleeve adaptor	OP3220-SP
7	Overshot head	ONH3215MLY
8	Guiding plate (2)	ON3215M-1
9	Lifting dog pivot pin	ON3217M
10	Spring pin (1/4" x 3 1/4")	ON3218M
11	Jar tube weldment	ONH3221LY
12	Jar staff	ONH3212LY
13	Locking sleeve	ONH3111
14	Eye bolt	OBNH3102
15	Cable swivel collar	OBNH3103
16	Needle thrust bearing	OBNH3104
17	Nut	OBNH3105
18	Cotter pin (3/32" X 1")	OBNH3106
19	Grease fitting	WB2120
20	Cable swivel body	ONH3207

WIRELINE CORE BARREL

TRIPLE TUBE SIZE N

ASSEMBLIES

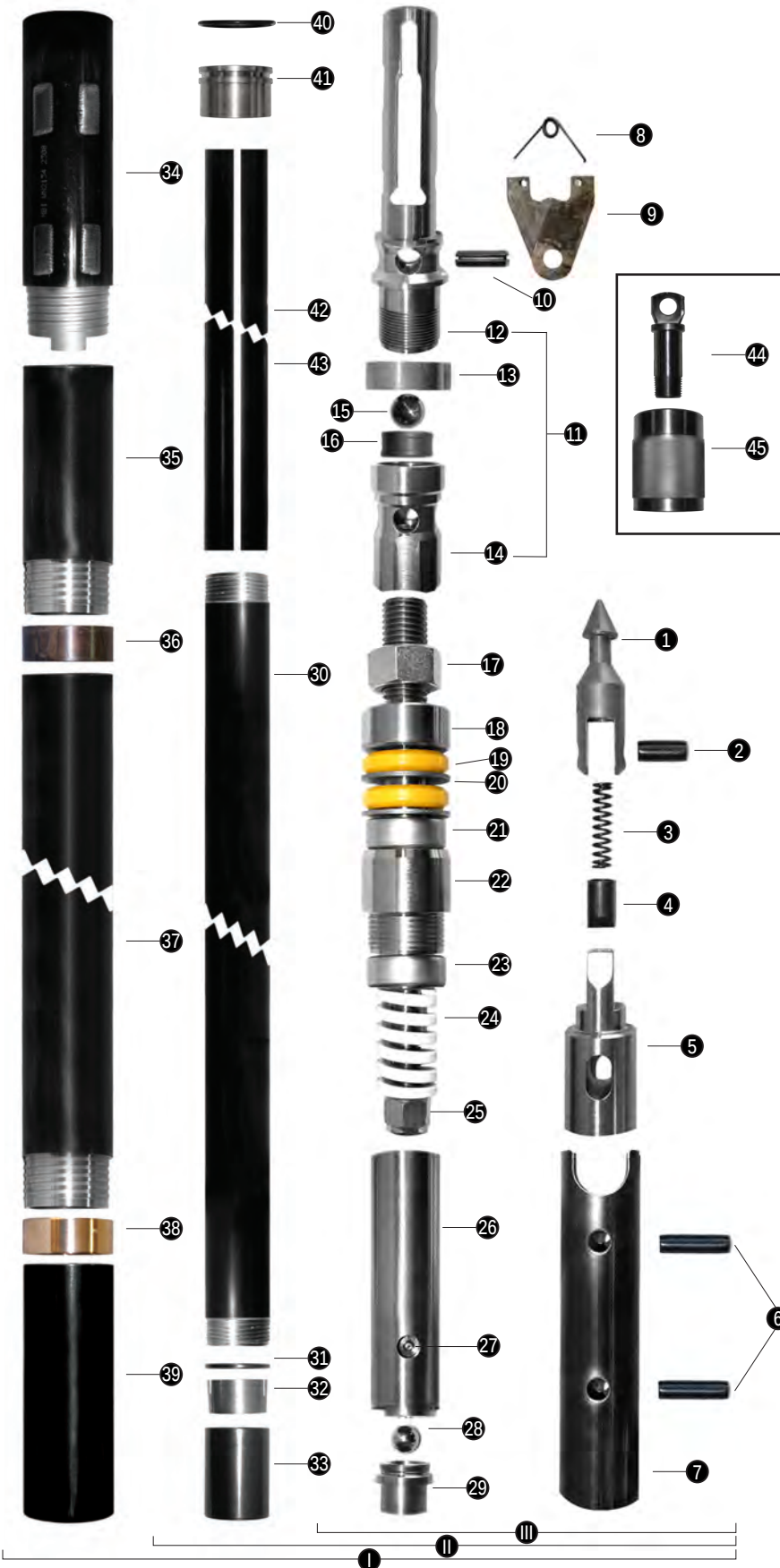
Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WN30205 WN30210	89.70 138.00	40.7 62.4
II	Inner Tube Assy FF 5' 10'	WN31205 WN31210	34.40 47.00	15.6 21.3
III	Head Assy FF	WN2002	20.13	9.1

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WN2804
6	Spring pin (2) (1/2" x 2")	WN2103
7	Latch retracting case	WN2206
8	Latch spring	WN2104
9	Latch (2)	WN2105
10	Spring pin (1/2" x 1 1/2")	WN2106
11	Latch body assy	WN2909
12	Upper body	WN2909-1
13	Landing shoulder	WN2909-2
14	Lower body	WN2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WN2110
18	Spindel assy	WN2111
19	Shut-off valve (2)	WN2112U
20	Valve adjusting washer (2)	WN2113
21	Ball thrust bearing	WN2114
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Options)	WN2115M
23	Hanger bearing	WN2124
24	Compression spring	WN2116
25	Self lock nut	WN2117
26	Inner tube cap assy FF	WN2119
27	Grease fitting	WB2120
28	Steel ball (22 mm)	WBNH2909-4
29	Check valve body	WN2123
30	Inner tube 5'	ITN2125
30	Inner tube 10'	ITN2130
31	Stop ring	WN32132
32	Core lifter	WN32133
33	Core lifter case	WN32131
34	Locking coupling standard	WN2134
35	Adaptor coupling	WN2135
36	Landing ring	WN2136
37	Outer tube 5'	OTN2145
37	Outer tube 10'	OTN2150
38	Inner tube stabilizer	WN2139
39	Thread protector	WN2140
40	"O" ring	WN32126
41	Piston	WN32127
42	Split tube 5'	WN32128
43	Split tube 10'	WN32129
44	Piston plug	WBNH2138
45	Adapter	WN32137

OPTION

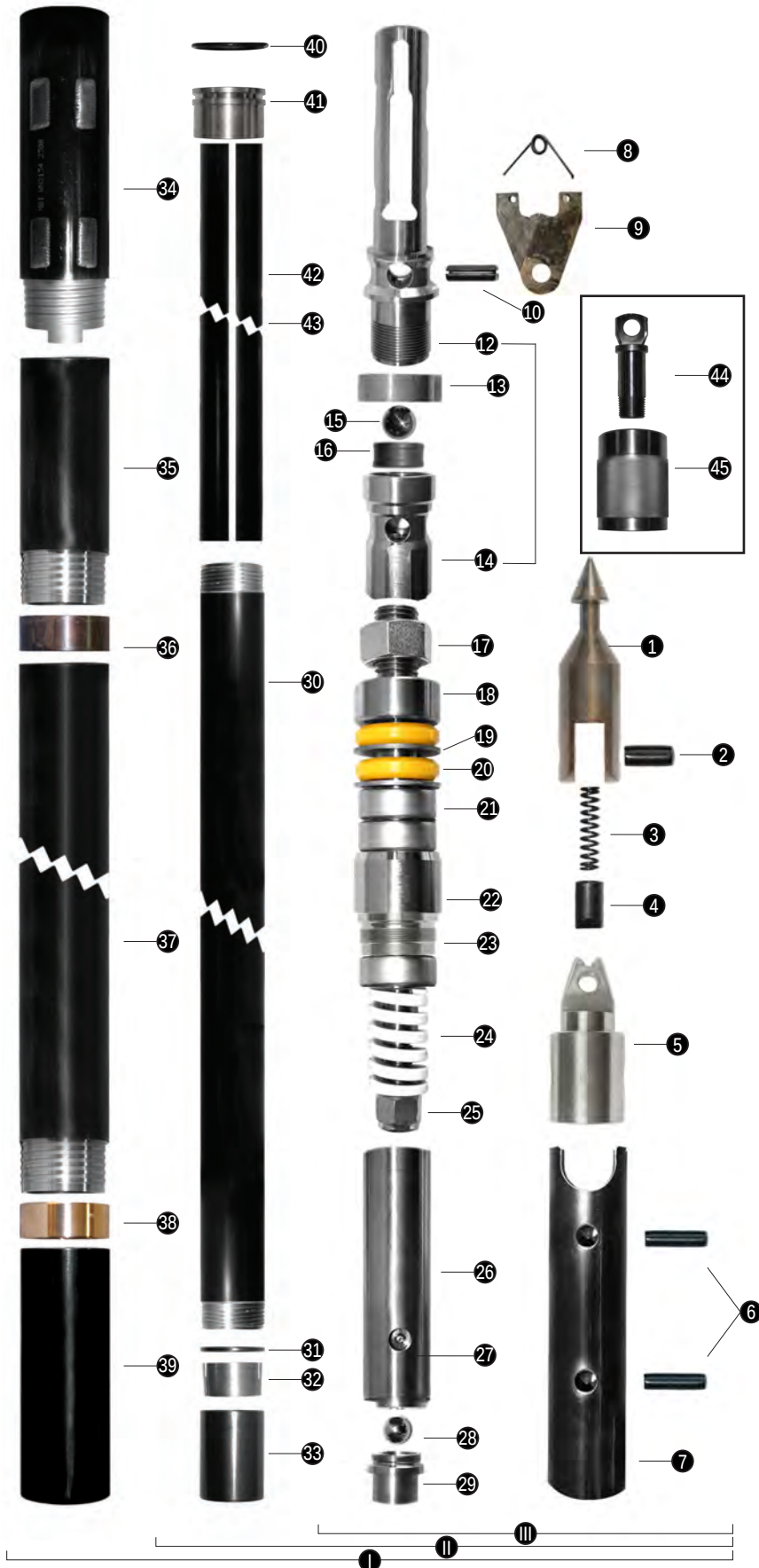
WN2115

N SPINDLE BEARING



WIRELINE CORE BARREL

TRIPLE TUBE SIZE H



ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WH30205	145.00	65.9
		WH30210	214.50	97.2
II	Inner Tube Assy FF 5' 10'	WH31205	60.50	27.4
		WH31210	79.00	35.8
III	Head Assy FF	WH2002	41.25	18.7

1	Spearhead point	WBNH2201
2	Spiral pin (7/16" X 1")	WBNH2205
3	Compression spring	WBNH2202
4	Detent plunger	WBNH2203
5	Spearhead base	WH2804
6	Spring pin (2) (1/2" x 2 3/4")	WH2103
7	Latch retracting case	WH2206
8	Latch spring	WH2104
9	Latch (2)	WH2105
10	Spring pin (1/2" x 2")	WN2103
11	Latch body assy	WH2909
12	Upper body	WH2909-1
13	Landing shoulder	WH2909-2
14	Lower body	WH2909-3
15	Steel ball 22 mm	WBNH2909-4
16	Landing indicator bushing	WBNH2909-5
17	Lock nut	WH2110
18	Spindel assy	WH2111
19	Shut-off valve (2)	WH2112U
20	Valve adjusting washer (2)	WH2113
21	Ball thrust bearing (2)	WH2114
22	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Option)	WH2115M
23	Ball thrust bearing	WN2114
24	Compression spring	WH2116
25	Self lock nut	WH2117
26	Inner tube cap assy FF	WH2119
27	Grease fitting	WB2120
28	Steel ball (22 mm)	WBNH2909-4
29	Check valve body	WN2123
30	Inner tube 5'	ITH2125
30	Inner tube 10'	ITH2130
31	Stop ring	WH32132
32	Core lifter	WH32133
33	Core lifter case	WH32131
34	Locking coupling standard	WH2134
35	Adaptor coupling	WH2135
36	Landing ring	WH2136
37	Outer tube 5'	OTH2145
37	Outer tube 10'	OTH2150
38	Inner tube stabilizer	WH2139
39	Thread protector	WH2140
40	"O" ring	WH32126
41	Piston	WH32127
42	Split tube 5'	WH32128
43	Split tube 10'	WH32129
44	Piston plug	WBNH2138
45	Adapter	WH32137

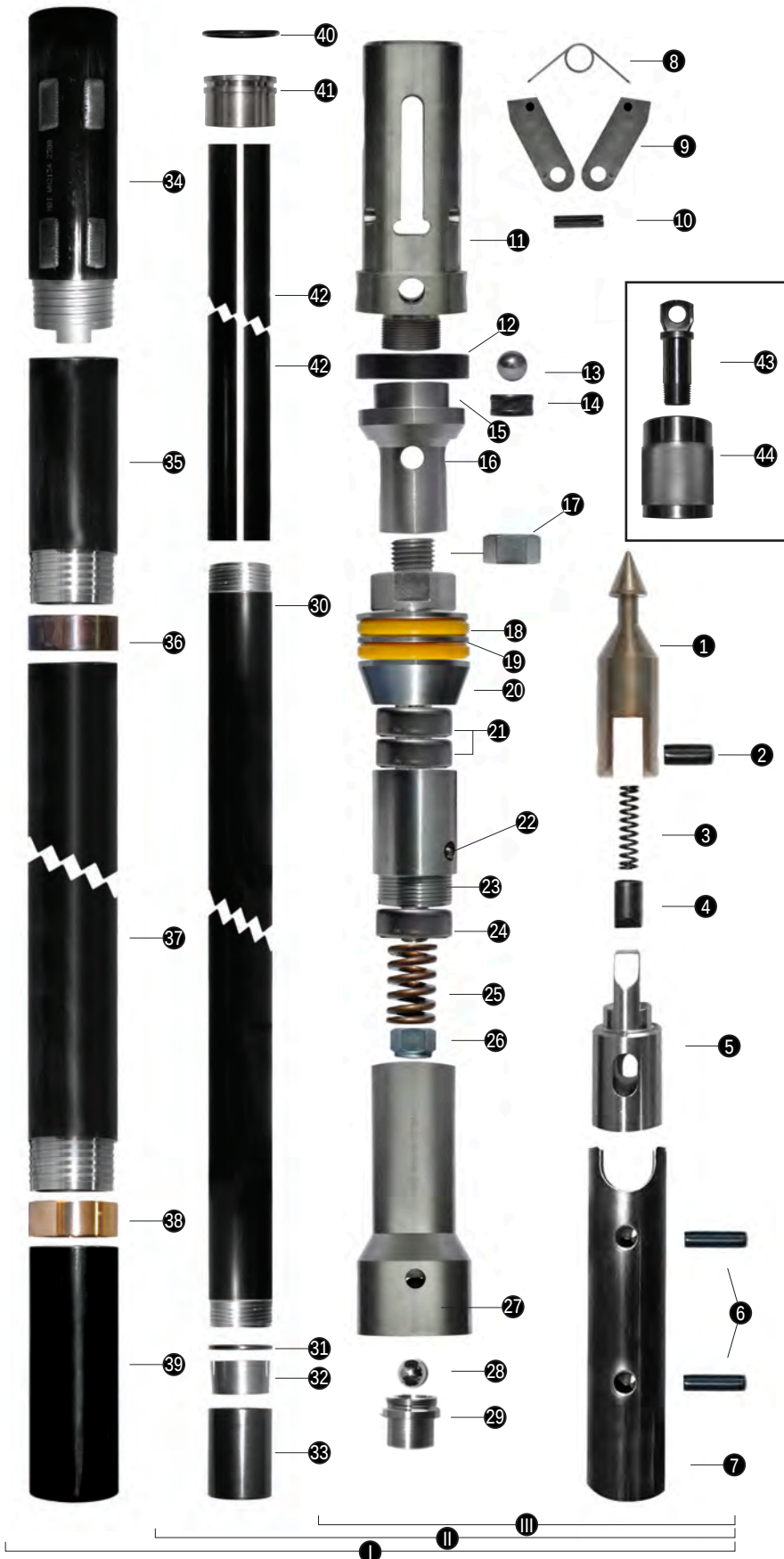
OPTION

WH2115

H SPINDLE BEARING

WIRELINE CORE BARREL

TRIPLE TUBE SIZE P



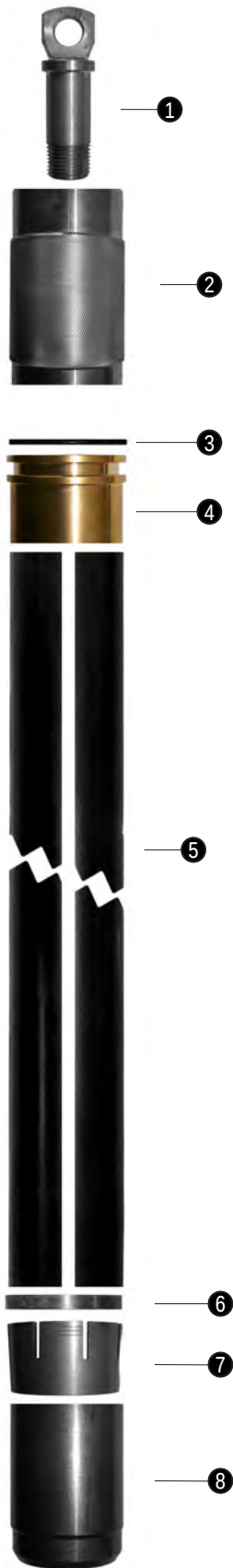
ASSEMBLIES

Group	Description	Part No	Weight lb	kg
I	Core Barrel Assy FF 5' 10'	WP30205 WP30210	211 304	95.7 138
II	Inner Tube Assy FF 5' 10'	WP31205 WP31210	95 121	43.1 54.9
III	Head Assy FF	WP2002	66	29.9

1	Spearhead Point	WP2201
2	Spirol Pin (3/4" x 2")	WP2205
3	Spearhead Compression Spring	WP2202
4	Detent Plunger	WP2203
5	Spearhead Base	WP2204
6	Spirol Pin (20mm x 100mm)	WP2103
7	Latch Retracting Case	WP2206
8	Latch Spring	WP2104
9	Latch (2)	WP2105
10	Spring Pin (1/2" x 2") (2)	WN2103
11	Upper Latch Body	WP2909-1
12	Landing shoulder	WP2909-2
13	Stell Ball 22mm	WBNH2909-4
14	Landing Indicator Bushing	WBNH2909-5
15	Spindle Assy	WP2111
16	Lower Latch Body	WP2909-3
17	Lock Nut (1 1/2" - 6 NC)	WP2110
18	Shut off Valve (2)	WP2112-UNS
19	Valve Adjusting Washer (2)	WP2113
20	Washer Tapered	WP2119-CAP
21	Ball Thrust Bearing	WH2114
22	Grease Fitting	WB3120
23	Spindle Bearing	WP2115
24	Ball Thrust Bearing	WN2114
25	Spindle Compression Spring	WH2116
26	Self Lock Nut (1" - 8 NC)	WH2117
27	Inner Tube Cap Assy FF	WP2119
28	Steel Ball (22 mm)	WBNH2909-4
29	Check Valve Body	WP2123
30	Inner Tube 5'	ITP2125
30	Inner Tube 10'	ITP2130
31	Stop Ring	WP32132
32	Core Lifter	WP32133
33	Core Lifter Case	WP32131
34	Locking coupling standard	WP2134-3
35	Adaptor coupling	WP2135-LY
36	Landing Ring	WP2136
37	Outer tube 5'	OTP2145
37	Outer tube 10'	OTP2150
38	Inner tube stabilizer	WP2139
39	Thread protector	WP2140
40	"O" ring	WP32126
41	Piston	WP32127
42	Split tube 5'	WP32128
42	Split tube 10'	WP32129
43	Piston plug	WPNH2138
44	Adapter	WP32137

SPLIT TUBE CONVERSION KITS SURFACE

W3



ASSEMBLIES

Group	Part No 5'	Weight lb	kg	Part No	Weight lb	kg
N 3	WN31905	9.07	4.1	WN31910	14.07	6.4
H 3	WH31905	13.11	5.9	WH31910	18.11	8.2
HW 3	WP31905	15.01	6.8	WP31910	20.01	9.1
P 3	WP31905	15.01	6.8	WP31910	20.01	9.1

1	Piston plug :	N 3 : H 3 : HW 3 : P 3 :	WBNH2138 WBNH2138 WBNH2138 WBNH2138
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2	Adapter :	N 3 : H 3 : HW 3 : P 3 :	WN32137 WH32137 WP32137 WP32137
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3	"O" ring :	N 3 : H 3 : HW 3 : P 3 :	WN32126 WH32126 WP32126 WP32126
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4	Piston :	N 3 : H 3 : HW 3 : P 3 :	WN32127 WH32127 WP32127 WP32127
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5	Split tube : 5'	N 3 : H 3 : HW 3 : P 3 :	WN32128 WH32128 WP32128 WP32128
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5	Split tube : 10'	N 3 : H 3 : HW 3 : P 3 :	WN32129 WH32129 WP32129 WP32129
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6	Stop ring :	N 3 : H 3 : HW 3 : P 3 :	WN32132 WH32132 WP32132 WP32132
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7	Core lifter :	N 3 : H 3 : HW 3 : P 3 :	WN32133 WH32133 WP32133 WP32133
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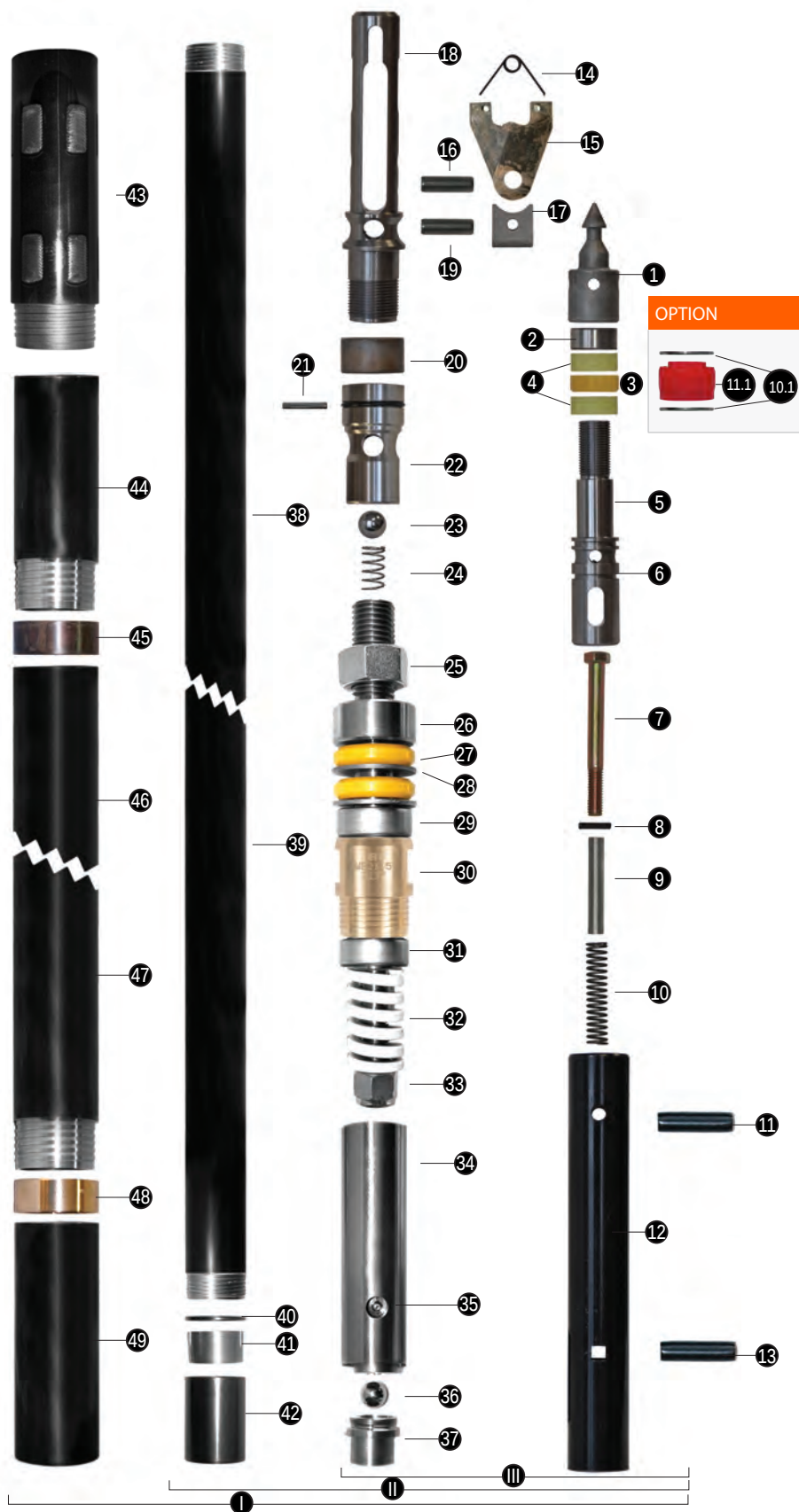
8	Core lifter case :	N 3 : H 3 : HW 3 : P 3 :	WN32131 WH32131 WP32131 WP32131
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We manufacture and resell all the consumable parts for the head assemblies and the core barrels from a to h.

WIRELINE CORE BARREL UNDERGROUND

"Knuckle Head" Size : BU



ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Core Barrel Assy 5' 10'	WBU0105	62.00	28.1
		WBU0110	97.00	44.0
II	Inner Tube 5' 10'	WBU1105	26.00	11.8
		WBU1110	35.00	15.9
III	Head Assy	WBU2001	18	8.2
1	Spearhead point	WBU2101		
2	Lock nut	OB2152		
3	Piston packing	WBU2153		
4	Backup wascher (4)	WBU2154		
5	"O" ring	WBU2155		
6	Spearhead Body	WBU2151		
7	Bolt hexagon head	WBU2146		
8	Washer	WBU2142		
9	Spring guide	WBU2143		
10	Compression spring	OB2144		
11	Spring pin (1/2 x 2)	WB2103		
12	Latch retracting case	WBU2102		
13	Square pin	WBU2147		
14	Latch spring	WB2104		
15	Latch (2)	WBU2105		
16	Spring pin (1/2 x 1 1/2')	WB2106		
17	Latch support	WB2107		
18	Upper Latch body	WBU2109-1		
19	Spring pin (1/4' x 1 1/2')	WB2108		
20	landing shoulder	WB2109-2		
21	"O" ring	WBU2148		
22	lower latch body	WBU2109-3		
23	Ball (15/16')	WB2121		
24	Ball check spring	OA2149		
25	Lock nut	WB2110		
26	Spindel assy	WB2111		
27	Shut-off valve (2)	WBU2112U		
28	Valve adjusting washer (2)	WB2113		
29	Ball thrust bearing	WB2114		
30	Spindle bearing	WB2115		
31	Ball thrust bearing	WB2114		
32	Compression spring	WB2116		
33	Self lock nut	WB2117		
34	Inner tube cap assy FF	WB2119		
35	Grease fitting	WB2120		
36	Steel ball (3/4")	WB2121		
37	Check valve body	WBU2123		
38	Inner tube 5'	ITB2125		
39	Inner tube 10'	ITB2130		
40	Stop ring	WB2132		
41	Core lifter	WB2133		
42	Core lifter case	WB2131		
43	Locking coupling standard	WBU2134		
44	Drive coupling	WBU2135		
45	Landing ring	WB2136		
46	Outer tube 5'	OTB2145		
47	Outer tube 10'	OTB2150		
48	Inner tube stabilizer	WB2139		
49	Thread protector	WB2140		

OVERSHOT UNDERGROUND

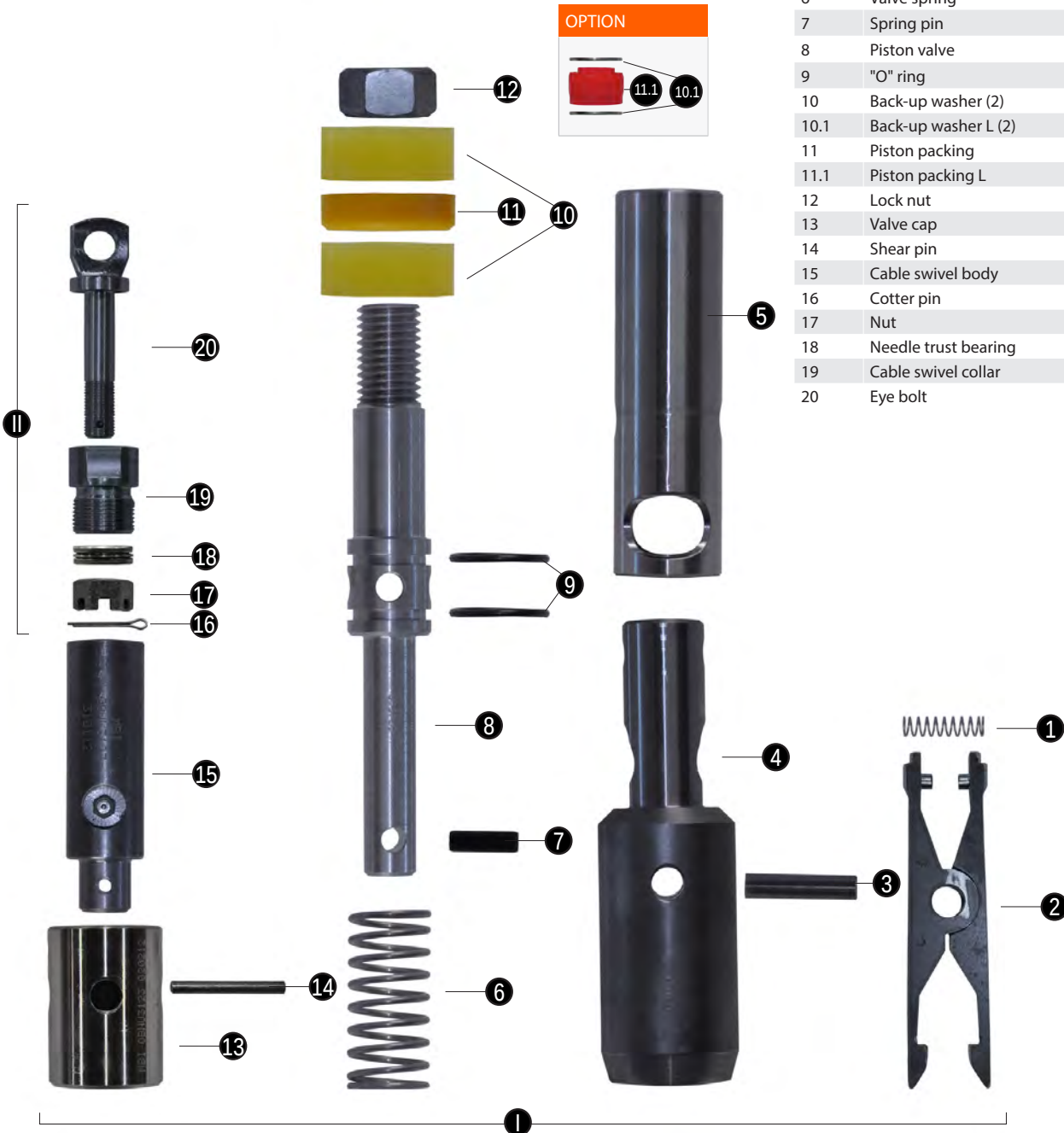
Size : B

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OBU3000	8	3,6
II	Cable swivel	OBNH3121	1,15	0,5

1	Lifting dog spring	OBNU3116
2	Lifting dog	OBNU3119
3	Lifting dog pivot pin	OBNU3117
4	Overshot head	OBNU3115
5	Valve body	OBNU3131
6	Valve spring	OBNU3130
7	Spring pin	WB2106
8	Piston valve	OBNU3129
9	"O" ring	WB2155
10	Back-up washer (2)	WB2154
10.1	Back-up washer L (2)	WB2154L
11	Piston packing	WB2153
11.1	Piston packing L	WB2153L
12	Lock nut	OBNU3124
13	Valve cap	OBNU3123
14	Shear pin	OBNU3113
15	Cable swivel body	OBNHU3107
16	Cotter pin	OBNH3106
17	Nut	OBNH3105
18	Needle trust bearing	OBNH3104
19	Cable swivel collar	OBNH3103
20	Eye bolt	OBNH3102

OPTION



OVERSHOT UNDERGROUND

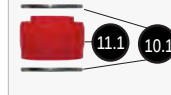
LL Size : B

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	LL	OBU2800	8	3,6
II	Cable swivel	OBNH3121	1,15	0,5

1	Lifting dog spring	OBNU3116
2	Lifting dog	OBNU3119
3	Lifting dog pivot pin	OBNU3117
4	Overshot head	OBU2815
5	Valve body	OBNU3131
6	Valve spring	OBNU3130
7	Spring pin	WB2106
8	Piston valve	OBU3129
9	"O" ring	WBU2155
10	Back-up washer (2)	WBU2154
10.1	Back-up washer L (2)	WBU2154L
11	Piston packing	WBU2153
11.1	Piston packing L	WBU2153L
12	Lock nut	OBNU3124
13	Valve cap	OBNU3123
14	Shear pin	OBNU3113
15	Cable swivel body	OBNHU3107
16	Cotter pin	OBNH3106
17	Nut	OBNH3105
18	Needle trust bearing	OBNH3104
19	Cable swivel collar	OBNH3103
20	Eye bolt	OBNH3102

OPTION



WIRELINE CORE BARREL UNDERGROUND

"Knuckle Head" Size : N



ASSEMBLIES

Group	Description	Part No	Weight lb kg	
I	Core Barrel Assy 5' 10'	WNU0105	96.00	40.7
		WNU0110	144.00	65.4
II	Inner Tube 5' 10'	WNU1105	41.00	18.6
		WNU1110	54.00	24.5
III	Head Assy	WNU2001	28.00	12.7

1	Spearhead point	WNU2101
2	Lock nut	WNU2152
3	Piston packing	WNU2153
3.1	Piston packing L	WNU2153L
4	Backup wascher (2)	WNU2154
4.1	Backup washer L (2)	WNU2154L
5	"O" ring (2)	WNU2155
6	Spearhead Body	WNU2151
7	Bolt hexagon head	WNU2146
8	Washer	WNU2142
9	Spring guide	WNU2143
10	Compression spring	WNU2144
11	Spring pin (1/2 x 2)	WN2103
12	Latch retracting case	WNU2102
13	Square pin	WNU2147
14	Latch spring	WN2104
15	Latch (2)	WNU2105
16	Spring pin (1/2 x 1 1/2')	WN2106
17	Latch support	WN2107
18	Upper Latch body	WNU2109-1
19	Spring pin (1/4' x 1 1/2')	WN2108
20	landing shoulder	WNU2109-2
21	"O" ring	WNU2148
22	Lower latch body	WNU2109-3
23	Ball (15/16')	WN2121
24	Ball check spring	ONU2149
25	Lock nut	WN2110
26	Spindel assy	WN2111
27	Shut-off valve (2)	WN2112U
28	Valve adjusting washer (2)	WN2113
29	Ball thrust bearing	WN2114
30	Spindle bearing c/w brass bushing Also available with Regular Spindle bearing (see Option)	WN2115M
31	Hanger bearing	WN2124
32	Compression spring	WN2116
33	Self lock nut	WN2117
34	Inner tube cap assy FF	WN2119
35	Grease fitting	WN2120
36	Steel ball (3/4")	WN2121
37	Check valve body	WN2123
38	Inner tube 5'	ITN2125
39	Inner tube 10'	ITN2130
40	Stop ring	WN2132
41	Core lifter	WN2133
42	Core lifter case	WN2131
43	Locking coupling standard	WNU2134
44	Drive coupling	WNU2135
45	Landing ring	WN2136
46	Outer tube 5'	OTN2145
47	Outer tube 10'	OTN2150
48	Inner tube stabilizer	WN2139
49	Thread protector	WN2140

OPTION

WN2115

N SPINDLE BEARING

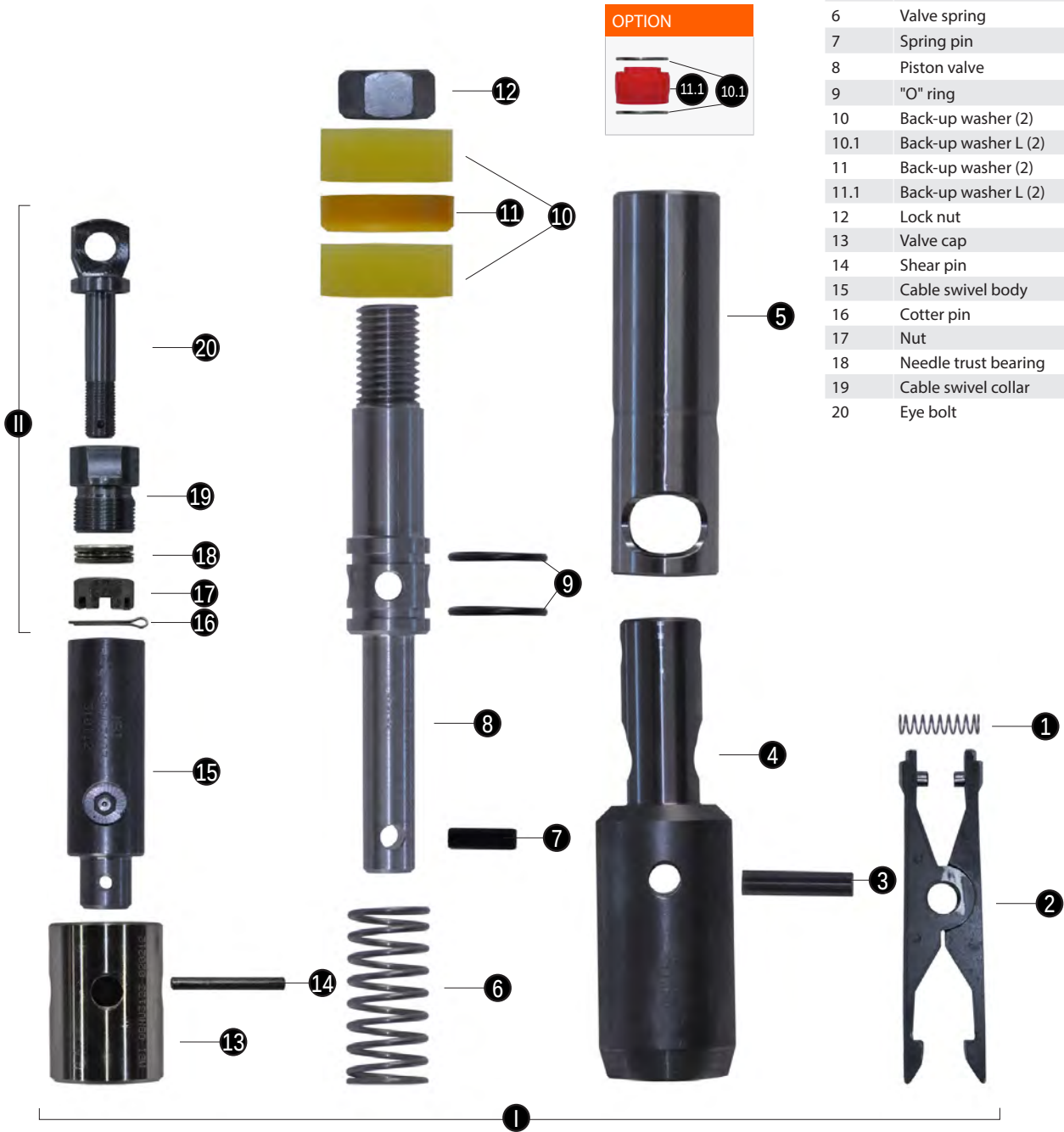
OVERSHOT UNDERGROUND

Size : N

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	ONU3000	9,6	4,4
II	Cable swivel	OBNH3121	1,15	0,5

1	Lifting dog spring	OBNU3116
2	Lifting dog	OBNU3119
3	Lifting dog pivot pin	ON3117
4	Overshot head	ONU3115
5	Valve body	OBNU3131
6	Valve spring	OBNU3130
7	Spring pin	WB2106
8	Piston valve	ONU3129
9	"O" ring	OBU2155
10	Back-up washer (2)	WNU2154
10.1	Back-up washer L (2)	WNU2154L
11	Back-up washer (2)	WNU2153
11.1	Back-up washer L (2)	WNU2153L
12	Lock nut	OBNU3124
13	Valve cap	OBNU3123
14	Shear pin	OBNU3113
15	Cable swivel body	OBNHU3107
16	Cotter pin	OBNH3106
17	Nut	OBNH3105
18	Needle trust bearing	OBNH3104
19	Cable swivel collar	OBNH3103
20	Eye bolt	OBNH3102



OVERSHOT UNDERGROUND

LL Size : N

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	LL	ONU2800	9,6	4,4
II	Cable swivel	OBNH3121	1,15	0,5
1	Lifting dog spring	OBNU3116		
2	Lifting dog	OBNU3119		
3	Lifting dog pivot pin	ON3117		
4	Overshot head	ONU2815		
5	Valve body	OBNU3131		
6	Valve spring	OBNU3130		
7	Spring pin	WB2106		
8	Piston valve	ONU3129		
9	"O" ring	OBU2155		
10	Back-up washer (2)	WNU2154		
10.1	Back-up washer L (2)	WNU2154L		
11	Back-up washer (2)	WNU2153		
11.1	Back-up washer L (2)	WNU2153L		
12	Lock nut	OBNU3124		
13	Valve cap	OBNU3123		
14	Shear pin	OBNU3113		
15	Cable swivel body	OBNHU3107		
16	Cotter pin	OBNH3106		
17	Nut	OBNH3105		
18	Needle trust bearing	OBNH3104		
19	Cable swivel collar	OBNH3103		
20	Eye bolt	OBNH3102		

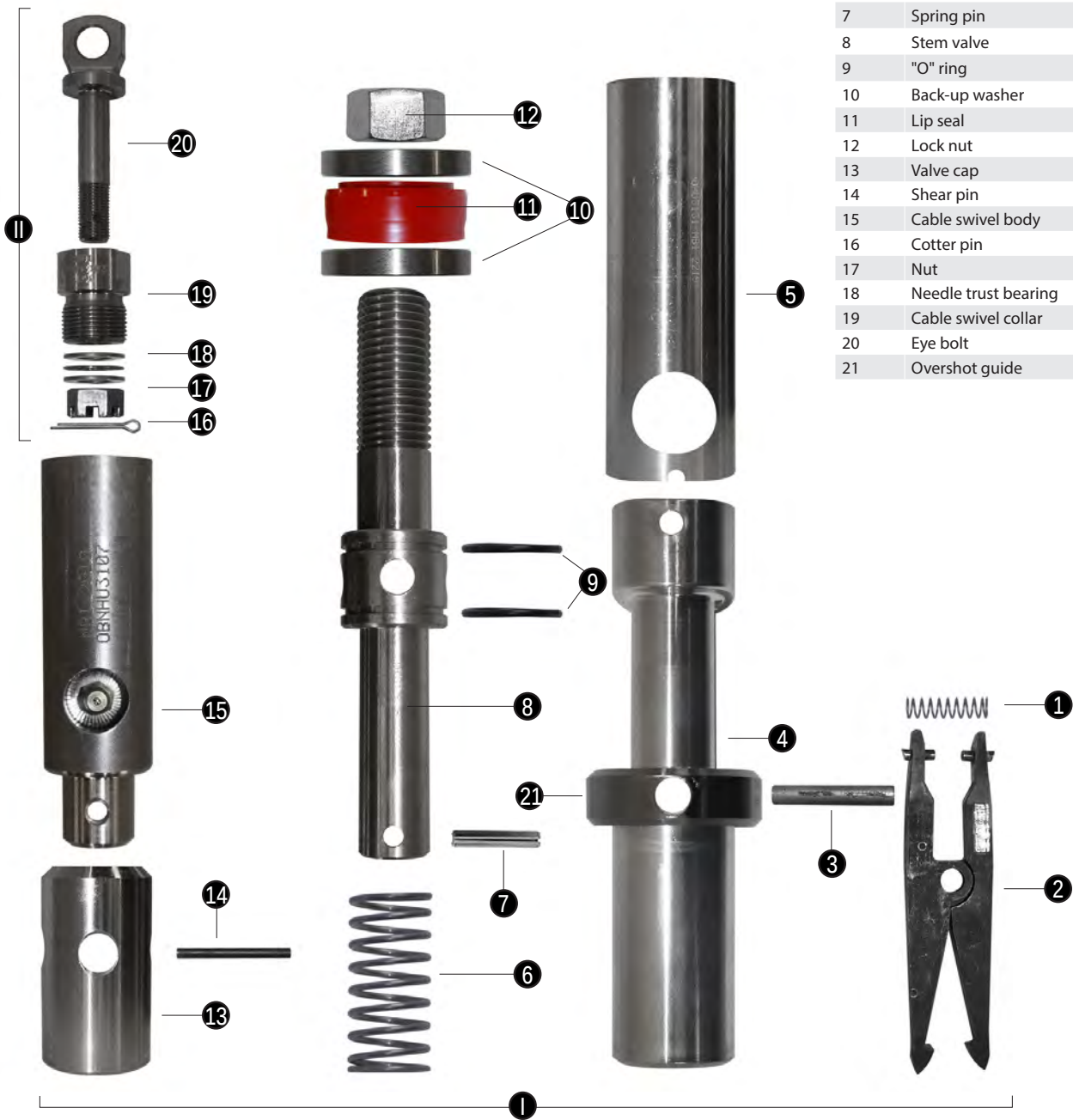


OVERSHOT UNDERGROUND

Size : H

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	Overshot Assy	OHU3000		
II	Cable Swivel	OBNH3121		
1	Lifting dog spring	OBNH3116		
2	Lifting dog	OHU3119		
3	Lifting dog pivot pin	OHU3117		
4	Overshot head	OHU3115		
5	Valve sleeve	OHU3131		
6	Spring	OHU3130		
7	Spring pin	WH2108		
8	Stem valve	OHU3129		
9	"O" ring	OHU2155		
10	Back-up washer	WHU2154		
11	Lip seal	WHU2153L		
12	Lock nut	WP2110		
13	Valve cap	OHU3123		
14	Shear pin	OHU3113		
15	Cable swivel body	OBNH3107		
16	Cotter pin	OBNH3106		
17	Nut	OBNH3105		
18	Needle trust bearing	OBNH3104		
19	Cable swivel collar	OBNH3103		
20	Eye bolt	OBNH3102		
21	Overshot guide	OHU3133		

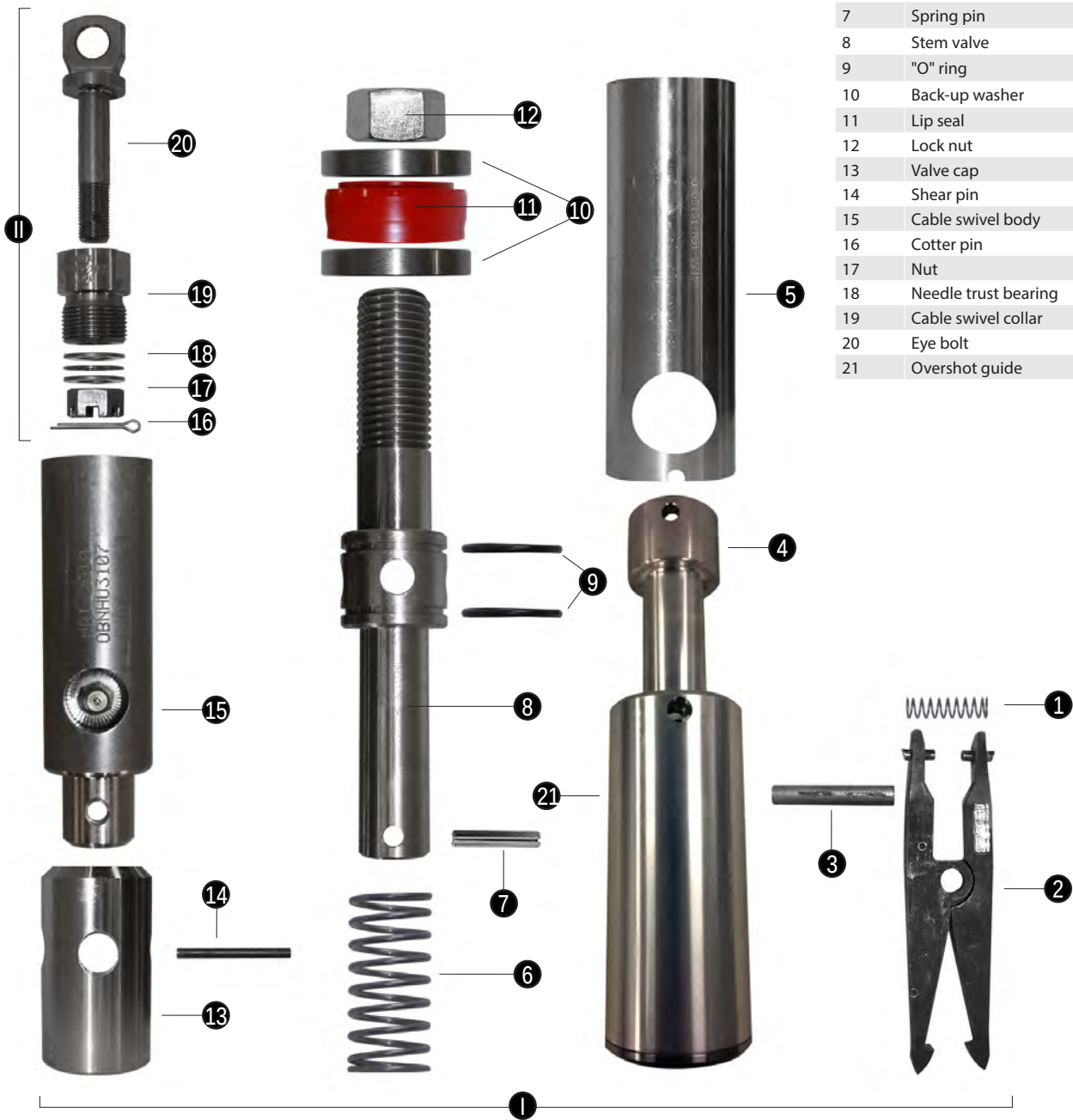


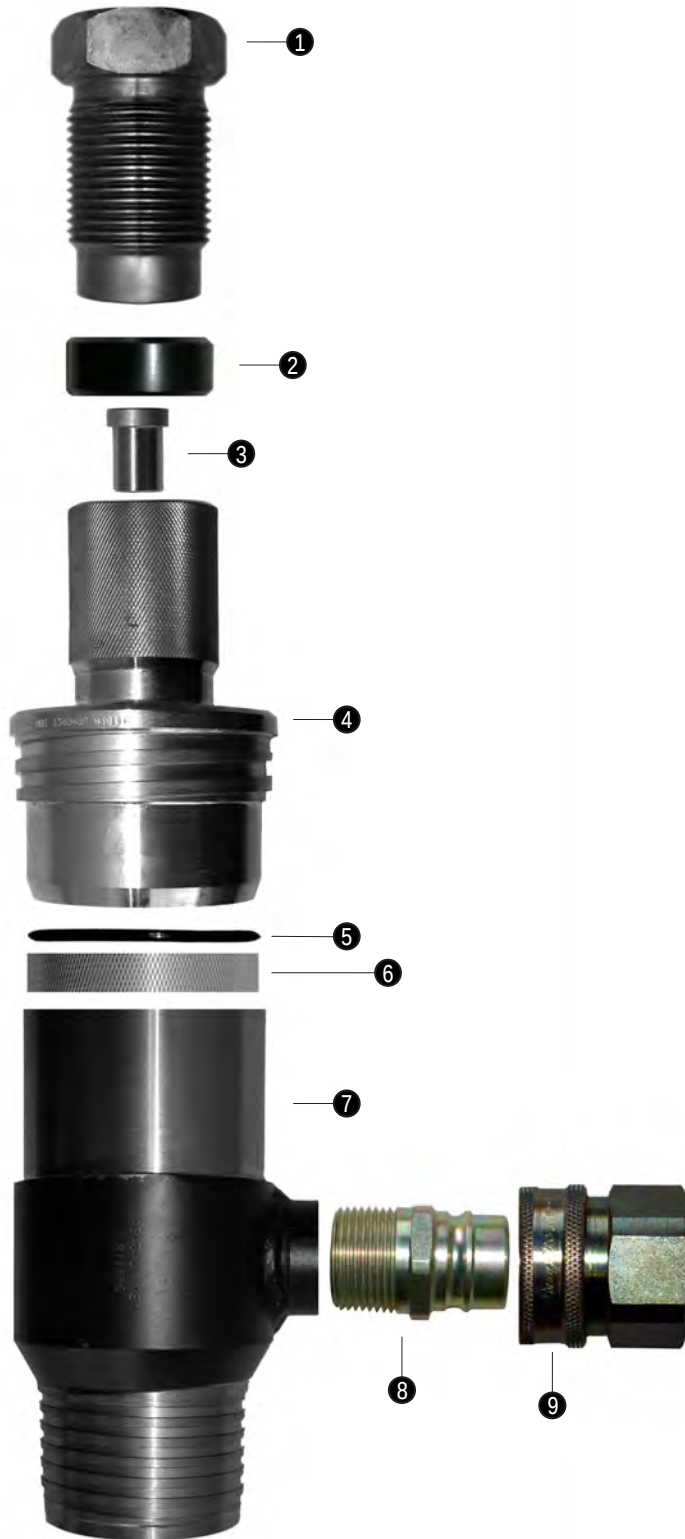
OVERSHOT UNDERGROUND

LL Size : H

ASSEMBLIES

Group	Description	Part No	Weight	
			lb	kg
I	LL	OHU2800		
II	Cable Swivel	OBNH3121		
1	Lifting dog spring	OBNH3116		
2	Lifting dog	OHU3119		
3	Lifting dog pivot pin	OHU3117		
4	Overshot head	OHU3115		
5	Valve sleeve	OHU3131		
6	Spring	OHU3130		
7	Spring pin	WH2108		
8	Stem valve	OHU3129		
9	"O" ring	OHU2155		
10	Back-up washer	WHU2154		
11	Lip seal	WHU2153		
12	Lock nut	WP2110		
13	Valve cap	OHU3123		
14	Shear pin	OHU3113		
15	Cable swivel body	OBNH3107		
16	Cotter pin	OBNH3106		
17	Nut	OBNH3105		
18	Needle trust bearing	OBNH3104		
19	Cable swivel collar	OBNH3103		
20	Eye bolt	OBNH3102		
21	Overshot guide	OHU3116		





ASSEMBLIES

Description	Part No	Weight	
		lb	kg
A-U (3/16")	WU4000	7.00	3.2
A-U (1/4")	WU4020	7.00	3.2
B-U (3/16")	WU4000	8.58	3.9
B-U (1/4")	WU4020	8.58	3.9
N-U (3/16")	WU4000	10.90	5.0
N-U (1/4")	WU4020	10.90	5.0
H-U (3/16")	WU4000	12.70	5.8
H-U (1/4")	WU4020	12.70	5.8

1	Packing plug (3/16") : Packing plug (1/4") :	A - U : B - U : N - U : H - U :	WBNHU4011 WBNHU4023
2	Cable packing (3/16") : Cable packing (1/4") :	All sizes : All sizes :	WBNHU4010 WBNHU4022
3	Bushing (3/16") : Bushing (1/4") :	All sizes : All sizes :	WBNHU4009 WBNHU4021
4	Packing house :	A - U : B - U : N - U : H - U :	WU4008 WU4008 WU4008 WU4008
5	"O" ring :	A - U : B - U : N - U : H - U :	WU2126 WU4002 WU4002 WU4002
6	Retainer latch :	A - U : B - U : N - U : H - U :	WU4003 WU4003 WU4003 WU4003
7	Loading chamber body :	A - U : B - U : N - U : H - U :	WU4004 WU4004 WU4004 WU4004
8	Quick detach / male (2) :	All sizes :	WBNHU4006
9	Quick detach / female :	All sizes :	WBNHU4007

THIN WALL LOADING CHAMBER



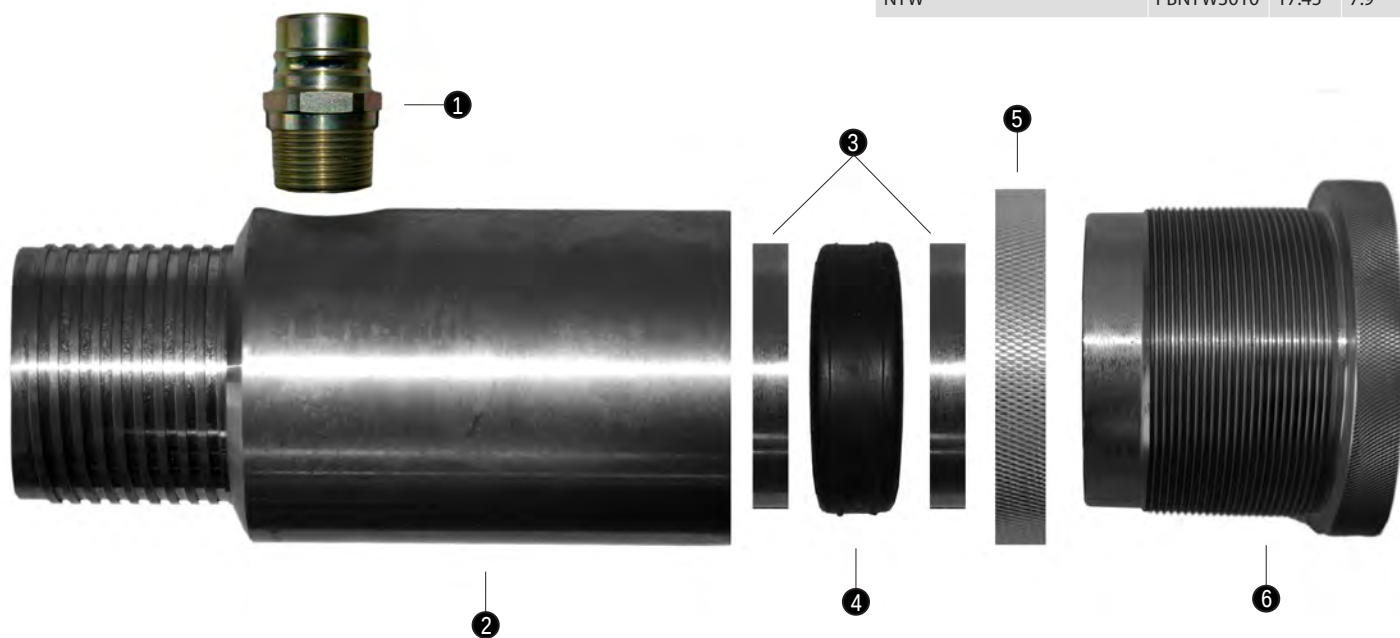
ASSEMBLIES

Description	Part No	Weight	
		lb	kg
ATW-U (3/16")	WATWU4300	7.10	3.2
ATW-U (1/4")	WATWU4320	7.10	3.2
BTW-U (3/16")	WBTWU4300	8.14	3.7
BTW-U (1/4")	WBTWU4320	8.14	3.7
NTW-U (3/16")	WNTWU4300	8.75	4.0
NTW-U (1/4")	WNTWU4320	8.75	4.0

1	Packing plug (3/16") : Packing plug (1/4") :	ATW-U : BTW-U : NTW-U :	WBNHU4011 WBNHU4023
2	Cable packing (3/16") : Cable packing (1/4") :	All sizes : All sizes :	WBNHU4010 WBNHU4022
3	Bushing (3/16") : Bushing (1/4") :	All sizes : All sizes :	WBNHU4009 WBNHU4021
4	Packing house :	ATW-U : BTW-U : NTW-U :	WATWU4008 WBTWU4008 WNTWU4008
5	"O" ring :	ATW-U : BTW-U : NTW-U :	WA2126 WB4002 WN4002
6	Retainer latch :	ATW-U : BTW-U : NTW-U :	WATWU4303 WBTWU4303 WNTWU4303
7	Loading chamber body :	ATW-U : BTW-U : NTW-U :	WATWU4304 WBTWU4304 WNTWU4304
8	Quick detach / male (2) :	All sizes :	WBNHU4006
9	Quick detach / female :	All sizes :	WBNHU4007

ASSEMBLIES

Description	Part No	Weight	
		lb	kg
Wireline Packing Box			
A	PBA3000	6.88	3.1
B	PBB3000	10.50	4.8
N	PBN3000	17.45	7.9
H	PBH3000	23.70	10.8
Wireline Thin Wall Packing Box			
ATW	PBA3000	6.88	3.1
BTW	PBBTW3010	10.50	4.8
NTW	PBNTW3010	17.45	7.9



WIRELINE PACKING BOXES

1	Quick detach male	All sizes	WBNHU4006
2	Body	A	PBA3002
		B	PBB3002
		N	PBN3002
		H	PBH3002
3	Ring (2)	A	PBA3003
		B	PBB3003
		N	PBN3003
		H	PBH3003
4	Packing	A	PBA3004
		B	PBB3004
		N	PBN3004
5	Jam nut	B	PBB3001A
		N	PBN3001A
		H	PBH3001A
6	Nut	A	PBA3001
		B	PBB3001
		N	PBN3001
		H	PBH3001

WIRELINE THIN WALL PACKING BOXES

1	Quick detach male	All sizes	WBNHU4006
2	Body	ATW	PBA3002
		BTW	PBB3002
		NTW	PBN3002
3	Ring (2)	ATW	PBA3003
		BTW	PBBTW3013
		NTW	PBNTW3013
4	Packing	ATW	PBA3004
		BTW	PBB3004
5	Jam nut	BTW	PBB3001A
		NTW	PBN3001A
6	Nut	ATW	PBA3001
		BTW	PBB3001
		NTW	PBNTW3011



We offer the complete line of water swivels and hoisting plugs for all your drilling functions.

- Compact water swivel
- Compact plus water swivel
- Compact plus water swivel new style
- Universal water swivel
- Water swivel underground
- High speed water swivel
- Hoisting plug "light"
- Hoisting plug "heavy duty"
- Hoisting plug "super duty"

COMPACT WATER SWIVEL

ASSEMBLY

Description	Part No	Weight	
		lb	kg
Compact Water Swivel Assy	WS1000	14.50	6.6
AW Rod Assy			

Repair Kit Compact

WS1050 1.75 0.8

- "O" Rings - 3 sizes (6 of each size)
- Spring washer (2)
- "V" packing set (2)
- Wear sleeve (2)
- Ball bearing (1)
- Felt seal (2)

1	"O" ring	WS1011
2	Spindle	WS1021
3	"O" ring	WS1022
4	Ball bearing	WS1018
5	Body	WS1016
6	Grease fitting	WB2120
7	Felt seal	WS1020
8	Cap	WS1010
9	"O" ring	WS1013
10	Spring washer	WS1012
11	"V" packing set	WS1014
12	Wear sleeve	WS1015B
13	Packing cage	WS1017



SPINDLE EXTENSIONS

Description	Part No.
AW rod box	WS1123
A rod pin	WS1024
A rod box	WS1025
A rod pin	WS1026
B rod pin	WS1027
ATW rod pin	WS1028
BTW rod pin	WS1029
N rod pin	WS1030

COMPACT PLUS WATER SWIVEL



ASSEMBLY

Description	Part No	Weight	
		lb	kg
Compact Plus Water Swivel Assy	WS1100	16.70	7.6
AW Rod Box			

Repair Kit

Compact Plus

WS1150

- "O" Rings - 3 sizes (6 of each size)
- Spring washer (2)
- "V" packing set (2)
- Wear sleeve (2)
- Ball bearing (1)
- Felt seal (2)
- Ball bearing thrust (1)

1	"O" ring	WS1011
2	Spindle	WS1121
3	"O" ring	WS1022
4	Thrust bearing	WS1120
5	Body	WS1113
6	Grease fitting	WB2120
7	Felt seal	WS1020
8	Cap	WS1010
9	"O" ring	WS1013
10	Spring washer	WS1012
11	"V" packing set	WS1014
12	Wear sleeve	WS1015B
13	Packing cage	WS1017
14	Ball bearing	WS1018
15	Upper body	WS1112

SPINDLE EXTENSIONS

Description	Part No.
AW rod box	WS1123
A rod pin	WS1024
A rod box	WS1025
A rod pin	WS1026
B rod pin	WS1027
ATW rod pin	WS1028
BTW rod pin	WS1029
N rod pin	WS1030

COMPACT PLUS WATER SWIVEL 'NEW STYLE'

ASSEMBLY

Description	Part No	Weight	
		lb	kg
Compact Plus Water Swivel Assy	WS1300	16.70	7.6
AW Rod Box			

Repair Kit

Compact Plus

WS1350

- "O" Rings - 3 sizes (6 of each size)
- Spring washer (2)
- "V" packing set (2)
- Wear sleeve (2)
- Ball bearing (1)
- Felt seal (2)
- Ball bearing thrust (1)

1	"O" ring	WS1011
2	Spindle	WS1321
3	Thrust bearing	WS1320
4	Body	WS1313
5	Grease fitting	WB2120
6	Felt seal	WS1020
7	Cap	WS1010
8	"O" ring	WS1013
9	Spring washer	WS1012
10	"V" packing set	WS1014
11	Wear sleeve	WS1015B
12	Packing cage	WS1017
13	Ball bearing	WS1018
14	Upper body	WS1312



UNIVERSAL WATER SWIVEL



ASSEMBLY

Description	Part No	Weight lb kg	
Universal Water Swivel Assy BW Rod Box	WS1500	31.50	14.3

Repair Kit Universal

WS1550

- Ball bearing (1)
- Internal retaining ring (1)
- "O" Rings (1)
- Spindle extension (1)
- "V" packing set (1)
- Locking washer (1)
- Ball bearing thrust (1)

1	Retaining ring	WS1512
2	Ball bearing	WS1511
3	Spindle extension	WS1516
4	Spindle	WS1523
5	Thrust bearing	WS1524
6	Body	WS1522
7	Grease fitting	WB2120
8	Cap	WS1515
9	Compression spring	WS1514
10	"V" packing set	WS1517B
11	"O" ring	WS1513
12	Packing housing	WS1518
13	Spindle nut	WS1519
14	Locking washer	WS1520
15	Spacer	WS1521

ROD ADAPTORS

Rod Pin	Standard Rod Pin	Part No.
A	BW	A3537007
B	BW	A3537107
N	BW	A3537207
H	BW	A3537307
P	BW	A3537407
HW	BW	A3537408
Thin Wall Rod Pin	Standard Rod Pin	Part No.
ATW	BW	A3566007
BTW	BW	A3566107
NTW	BW	A3566207

COMPACT WATER SWIVEL UNDERGROUND

ASSEMBLY

Description	Part No	Weight lb kg	
Compact Water Swivel Assy AW Rod Assy	WS1000M	14.50	6.6

Repair Kit Compact

WS1050 1.75 0.8

- "O" Rings - 3 sizes (6 of each size)
- Spring washer (2)
- "V" packing set (2)
- Wear sleeve (2)
- Ball bearing (1)
- Felt seal (2)

1	"O" ring	WS1011
2	Spindle	WS1021
3	"O" ring	WS1022
4	Ball bearing	WS1018
5	Body	WS1016M
6	Grease fitting	WB2120
7	Felt seal	WS1020
8	Cap	WS1010M
9	"O" ring	WS1013
10	Spring washer	WS1012
11	"V" packing set	WS1014
12	Wear sleeve	WS1015
13	Packing cage	WS1017

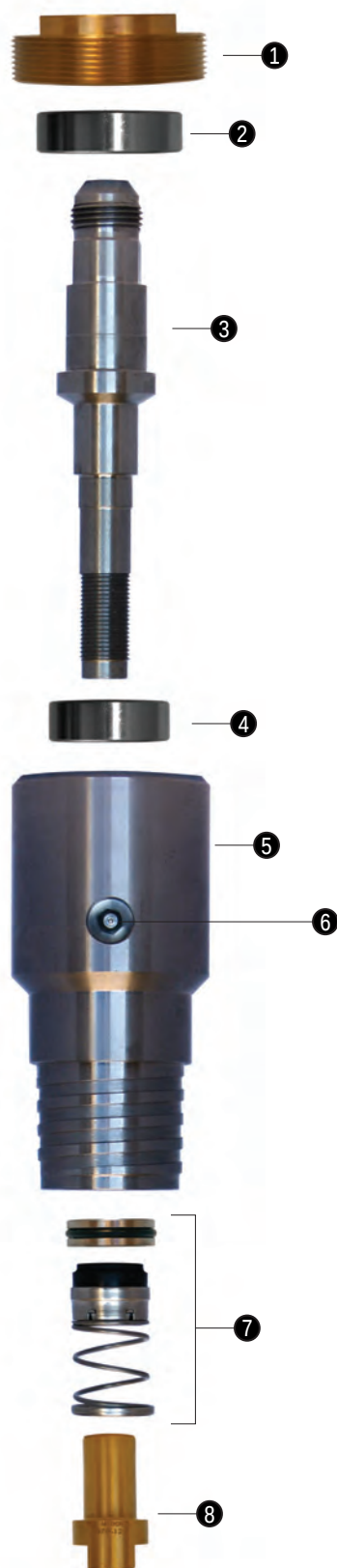


SPINDLE EXTENSIONS

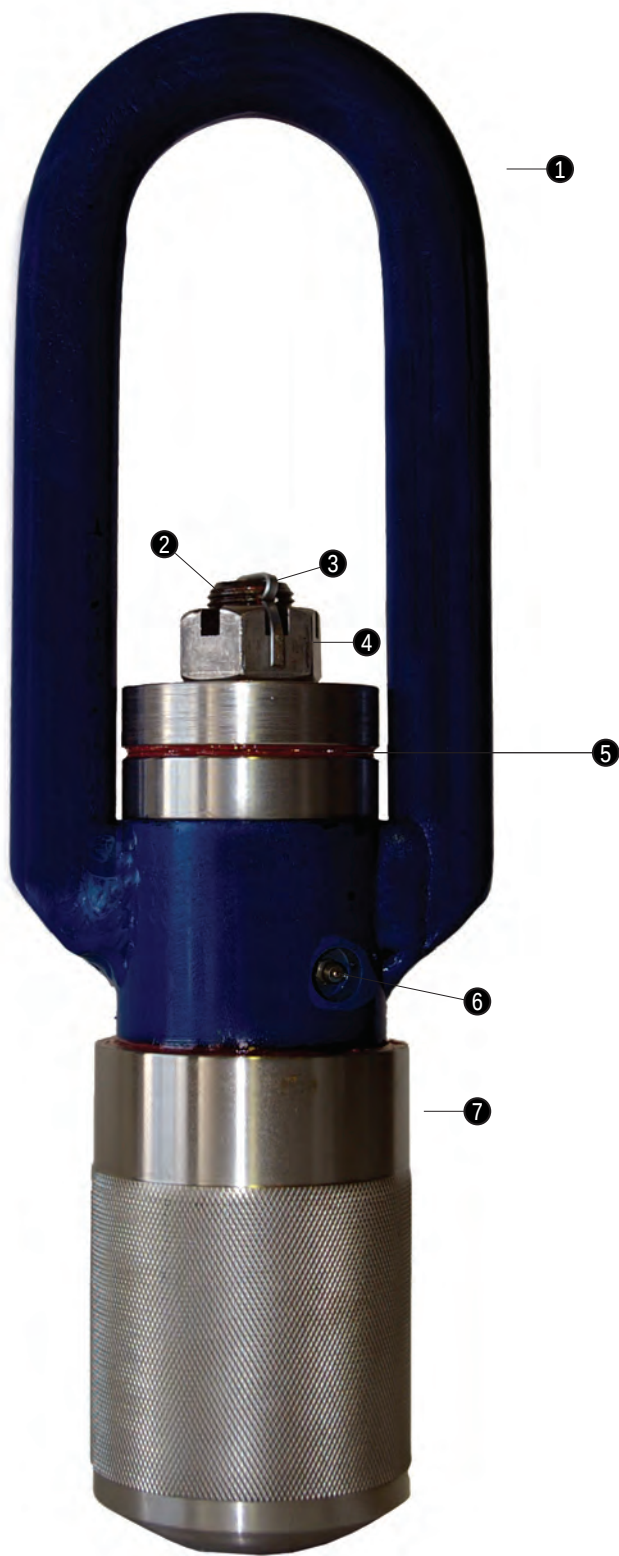
Description	Part No.
AW rod box	WS1123
A rod pin	WS1024
A rod box	WS1025
A rod pin	WS1026
B rod pin	WS1027
ATW rod pin	WS1028
BTW rod pin	WS1029
N rod pin	WS1030

HIGH SPEED WATER SWIVEL

Dimensions : ATW / B / N / NT



	ATW WS6700-ATW	B WS0800-B	N WS0900-N	NT WS0900-NT
1 Swivel cap	WS0701	WS0701	WS0701	WS0701
2 Top Ball Bearing	WS0702	WS0702	WS0702	WS0702
3 Swivel Stem	WS0703B	WS0803B	WS0803B	WS0803B
4 Bottom ball bearing	WS0604	WS0804	WS0804	WS0804
5 Swivel Body	WS6701	WS0805-B	WS0805-N	WS0805-NT
6 Grease fitting	WB2120	WB2120	WB2120	WB2120
7 Swivel seal kit	WS0706	WS0806B	WS0806B	WS0806B
8 Seal retainer	WS0707	WS0807B	WS0807B	WS0807B



ASSEMBLY

Description	Part No	Weight	
		lb	kg
Hoisting Plug Assy	HP60000	10.79	4.9
AW Rod Box Assy			

Repair Kit Hoisting Plug

HP60018	2.61	1.2
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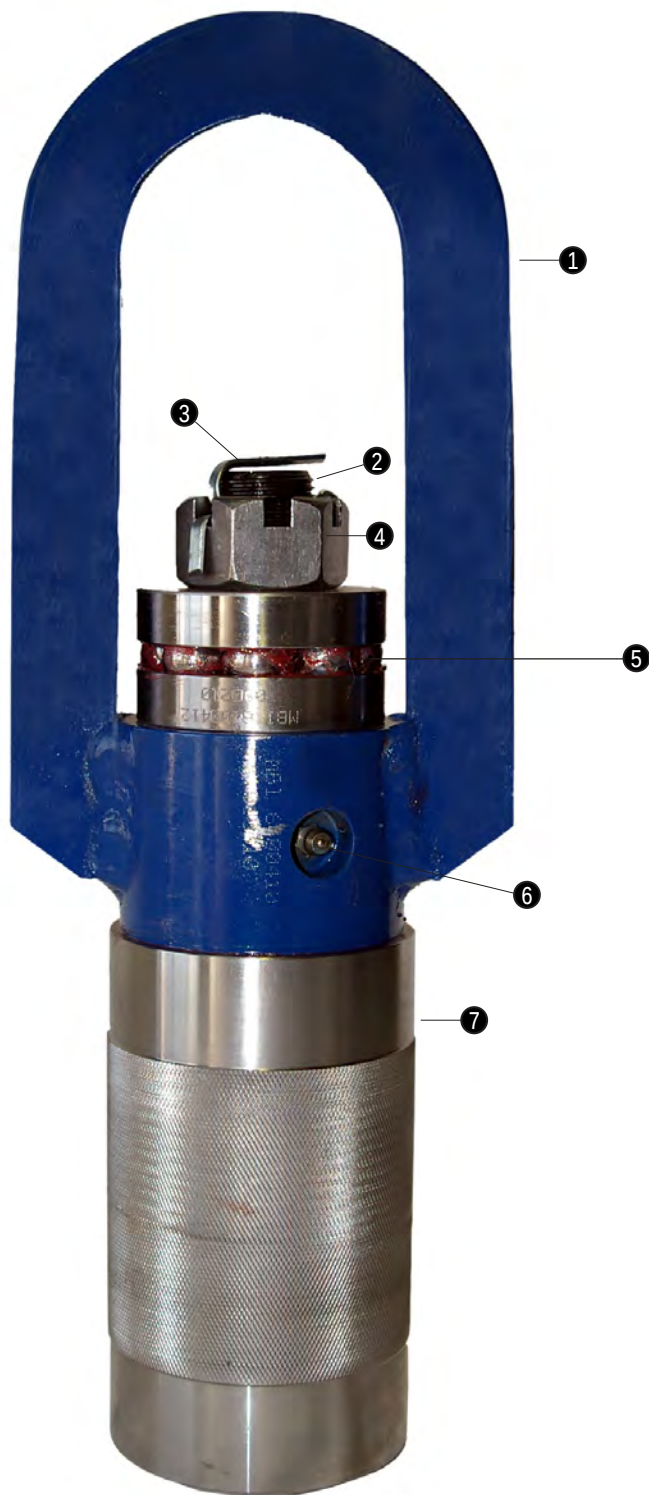
- Bearing (2)
- Spindle (1)
- Cotter Pin (1)

1	Bail	HP60010
2	Spindle	HP60014
3	Cotter pin (1/8" x 1 3/4")	HP60017
4	Nut	HP60011
5	Bearing assy	HP60012
6	Grease fitting	WB2120
7	Body AW rod box	HP60013

ROD ADAPTORS

Rod Pin	Standard Rod Pin	Part No.
A	AW	A3537005
B	AW	A3537105
N	AW	A3537205
NM	AW	A3537211
H	AW	A3537305
HM	AW	A3537324
Thin Wall Rod Pin	Standard Rod Pin	Part No.
ATW	AW	A3566005
BTW	AW	A3566105
NTW	AW	A3566205

* Additional adaptor and part numbers are listed in the Adaptor section.



ASSEMBLY

Description	Part No	Weight lb kg	
Hoisting Plug Assy NW Rod Box Assy	HP130000	17.10	7.89

Repair Kit Hoisting Plug

HP130017	2.87	1.3
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- Bearing (1)
- Spindle (1)
- Cotter Pin (1)

1	Bail	HP130010
2	Spindle	HP130014
3	Cotter pin (3/16" x 2 1/2")	HP130016
4	Nut	HP130011
5	Bearing assy	HP130012
6	Grease fitting	WB2120
7	Body NW box	HP130013

CASING ADAPTORS

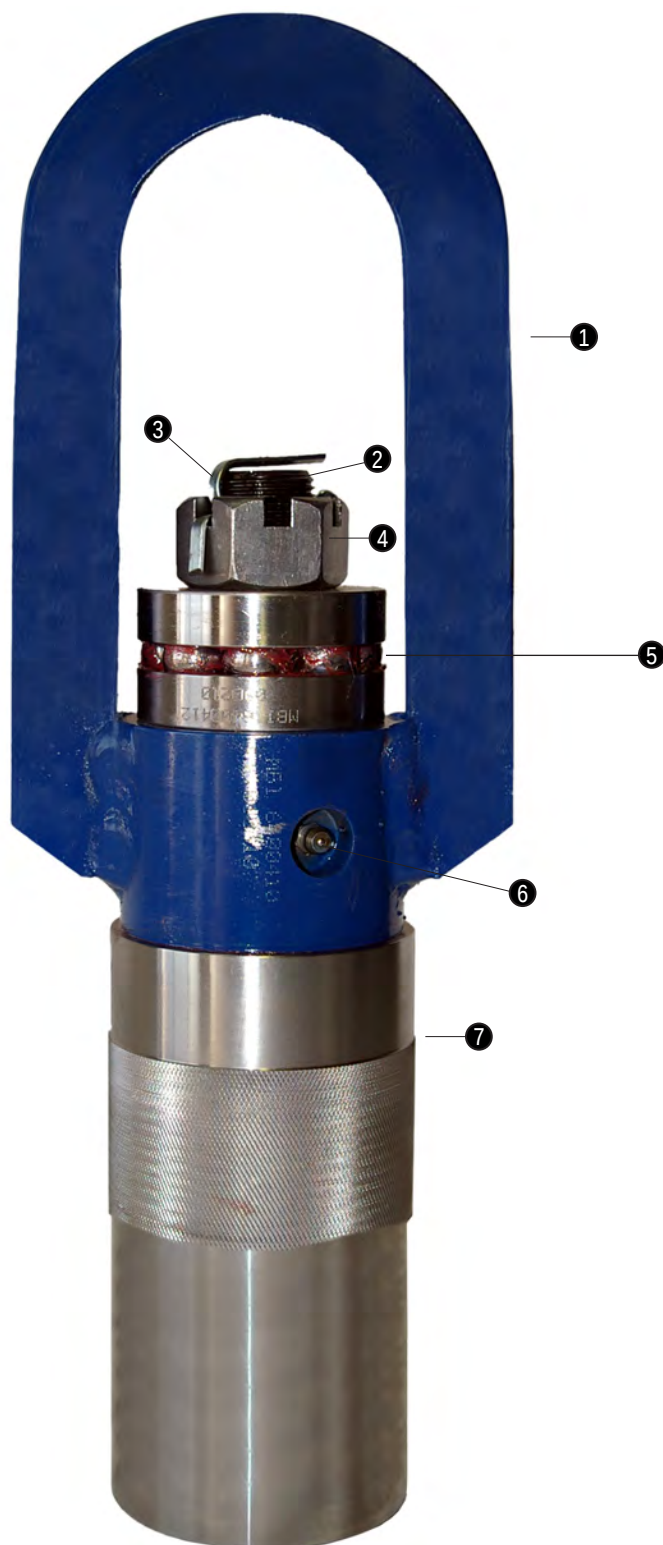
Rod Pin	Casing Pin	Part No.
NW	BW	A2212800
NW	NW	A2212801
NW	HW	A2212802
NW	PW	A2212803

ROD ADAPTORS

Rod Pin	Standard Rod Pin	Part No.
A	NW	A3537009
B	NW	A3537109
N	NW	A3537209
NM	NW	A3537213
H	NW	A3537309
HM	NW	A3537328
P	NW	A3537409
HW	NW	A3537410

Thin Wall Rod Pin	Standard Rod Pin	Part No.
ATW	NW	A3566009
BTW	NW	A3566109
NTW	NW	A3566209

* Additional adaptor and part numbers are listed in the Adaptor section.



ASSEMBLY

Description	Part No	Weight lb kg	
Hoisting Plug Assy NW Rod Box Assy	HP130000	17.10	7.89

Repair Kit Hoisting Plug

HP300050	35.00	15.9
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- Bearing (1)
- Spindle (1)
- Cotter Pin (1)

1	Bail	HP300060
2	Spindle	HP300064
3	Cotter pin (3/16" x 2 1/2")	HP130016
4	Nut	HP300061
5	Bearing assy	HP300062
6	Grease fitting	WB2120
7	Body NW rod box	HP300063

CASING ADAPTORS

Rod Pin	Casing Pin	Part No.
NW	BW	A2212800
NW	NW	A2212801
NW	HW	A2212802
NW	PW	A2212803

ROD ADAPTORS

Rod Pin	Standard Rod Pin	Part No.
A	NW	A3537009
B	NW	A3537109
N	NW	A3537209
NM	NW	A3537213
H	NW	A3537309
HM	NW	A3537328
P	NW	A3537409
HW	NW	A3537410

Thin Wall Rod Pin	Standard Rod Pin	Part No.
ATW	NW	A3566009
BTW	NW	A3566109
NTW	NW	A3566209

* Additional adaptor and part numbers are listed in the Adaptor section.



Locking couplings

Most of our locking couplings have a carbide ring.
Available for surface and underground from A to P.

ADAPTOR COUPLING OPTION



SURFACE

STANDARD

51-315	A TK Adapter Coupling
WA2135	A /ATW Adapter Coupling
WB2135	B Adapter Coupling
WBTW2335	BTW Adapter Coupling
WN2135	N Adapter Coupling
WNTW2364	NTW Adapter Coupling New Style
WH2135	H Adapter Coupling
WHW2135-1	HW Adapter Coupling

UNDERGROUND

STANDARD

WBU2135	B U Drive Adapter Coupling
WNU2135	N U Drive Adapter Coupling
WBTWU2335	BTW-U Drive Adapter Coupling
WNTWU2335	NTW-U Drive Adapter Coupling
WBU2835	B U adapter coupling
WNU2835	N U adapter coupling
WHU2835	H U adapter coupling



SURFACE

HEXAGONAL

WB2135H	B Adapter Coupling Hex
WN2135H	N Adapter Coupling Hex
WH2135H	H Adapter Coupling Hex

LOCKING COUPLING CARBIDE SURFACE



CARBIDE

51-001	A Locking Coupling Carbide 1.5"
51-012	ATW Locking Coupling Carbide 1.5" with Tang
51-101	B Locking Coupling Carbide 2.5" with Tang
51-103	BTW Locking Coupling Carbide 2.5" with Tang
51-111	BT Locking Coupling Carbide 2.5" with Tang
51-201	N Locking Coupling Carbide 2.5" with Tang
51-204	NTW Locking Coupling Carbide 2.5" with Tang
51-211	NT Locking Coupling Carbide 2.5" with Tang
51-220	H Locking Coupling Carbide 2.5" with Tang
51-221	HM Locking Coupling Carbide 2.5" with Tang
51-222	HT Locking Coupling Carbide 2.5" with Tang
51-224	HWT Locking Coupling Carbide 2.5" with Tang
51-230	P Locking Coupling Carbide 2.5" with Tang

LOCKING COUPLING CARBIDE UNDERGROUND



CARBIDE

51-003	A -U Locking Coupling Carbide 1.5" No Tang
51-004	AT-U Locking Coupling Carbide 1.5" No Tang
51-005	ARTK-U Locking Coupling Carbide 1.5" No Tang
51-006	A TK-U Locking Coupling Carbide 1.5"
51-015	ATW-U Locking Coupling Carbide 1.5" No Tang
51-104	B -U Locking Coupling Carbide 2.5" No Tang
51-105	BTW-U Locking Coupling Carbide 2.5" No Tang
51-114	BT-U Locking Coupling Carbide 2.5" No Tang
51-202	N -U Locking Coupling Carbide 2.5" No Tang
51-212	NT-U Locking Coupling Carbide 2.5" No Tang
51-223	HM -U Carbide Locking Coupling 2.5" No Tang
51-225	HWT-U Locking Coupling Carbide 2.5" No Tang
51-226	H -U Locking Coupling Carbide 2.5" No Tang

LOCKING COUPLING STANDARD SURFACE



STANDARD

WB2134	B Locking Coupling Standard
WBT2173	BT Locking Coupling Standard
WBTW2334	BTW Locking Coupling Standard
WH2134	H Locking Coupling Standard
WH2173	HT Locking Coupling Standard
WHM2134	HM Locking Coupling Standard
WHT2173	HT Locking Coupling Standard
WN2134	N Locking Coupling Standard
WNM2172C	NM Locking Cplg Carb 2.5
WNT2173	NT Locking Coupling Standard
WNTW2363	NTW Locking Coupling New Style
WP2134-3	P Locking Coupling Standard c/w HWT Box

LOCKING COUPLING STANDARD UNDERGROUND



STANDARD

WBU2134	B U locking Coupling Standard
WBTWU2334	BTW U locking Coupling Standard
WNU2134	N U locking Coupling Standard
WHU2134	H U locking Coupling Standard

LOCKING COUPLING HEX SURFACE



HEXAGONAL

WB2134H	B Locking Coupling Hex
WBT2173H	BT Locking Coupling Hex
WBTW2334H	BTW Locking Coupling Hex
WH2134H	H Locking Coupling Hex
WHT2173H	HT Locking Coupling Hex
WHTW2334H	HTW Locking Coupling Hex
WHW2134-1	HW Locking Coupling Hex
WN2134H	N Locking Coupling Hex
WNT2173H	NT Locking Coupling Hex
WNTW2363	NTW locking Coupling hex



LOCKING COUPLING HEX UNDERGROUND

HEXAGONAL

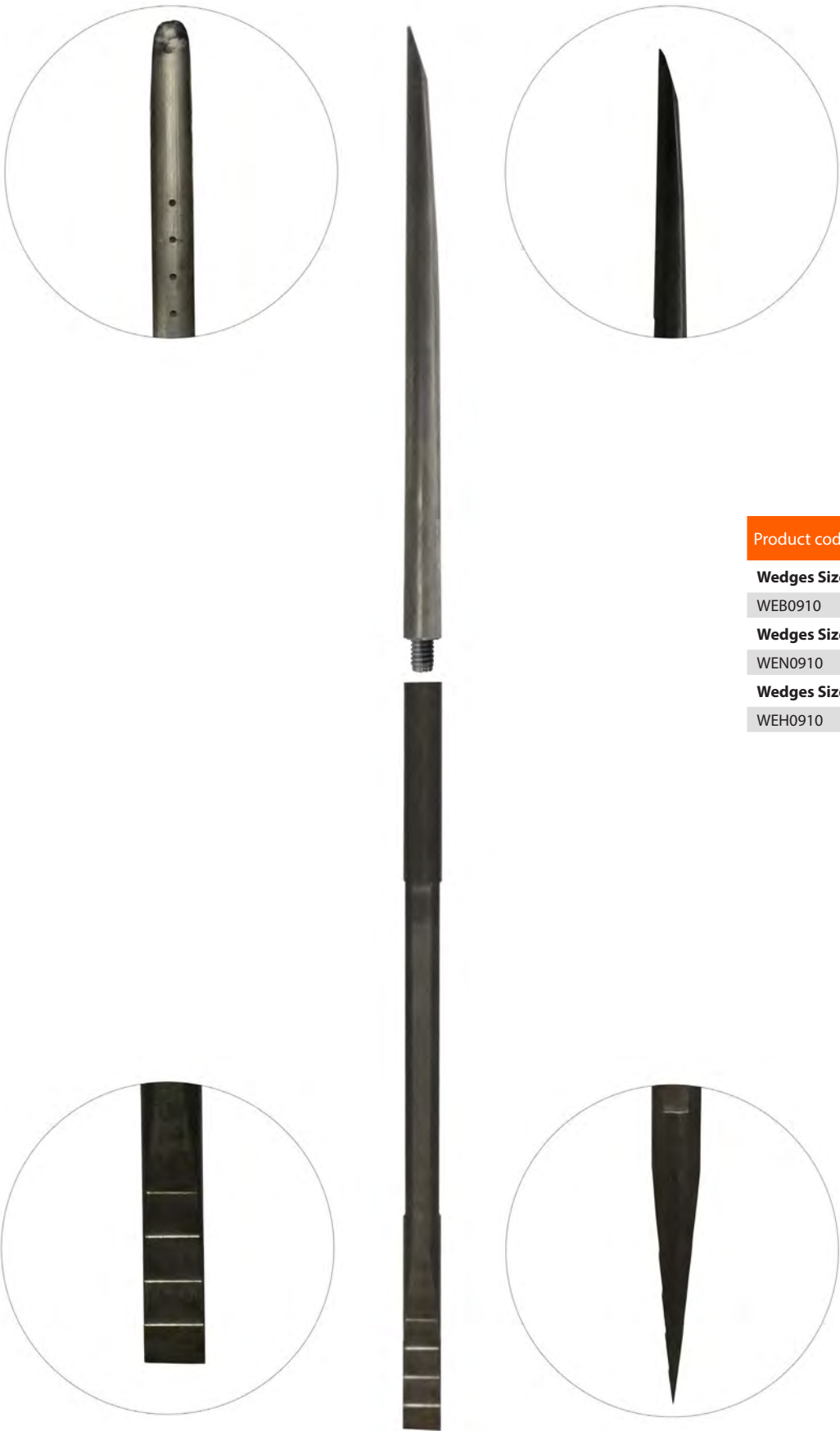
WBU2134H	B U Locking Coupling Hex
WBTU2173H	BT-U Locking Coupling Hex
WNU2134H	N-U Locking Coupling Hex
WBTWU2334H	BTW U Locking Coupling Hex



Product codes	Description
Wedges Size B	
WEB0900	B By Pass Wedge
Wedges Size N	
WEN0900	N By Pass Wedge
Wedges Size H	
WEH0900	H By-Pass Wedge

BY-PASS WEDGES

Two pieces



Product codes	Description
Wedges Size B	
WEB0910	B By Pass Wedge 2 pcs
Wedges Size N	
WEN0910	N By Pass Wedge 2 pcs
Wedges Size H	
WEH0910	H By Pass Wedge 2 pcs



Group	Description		Part No	Weight	
				lb	kg
1	Wooden plug	A	WEA0100	0.50	0.2
		B	WEB0100	1.00	0.4
		N	WEN0100	3.50	1.6
		H	WEH0100	7.00	3.1

	Copper rivets	All sizes :	WE0800	0.25	0.1
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Group	Description		Part No	Weight	
				lb	kg
2	Steel plug basket	A	WEA5602	1.40	0.6
		B	WEB5602	1.53	0.7
		N	WEN5602	1.53	0.7
		H	WEH5602	1.53	0.7

Group	Description		Part No	Weight	
				lb	kg
3	Wedge plug*	A	WEA5600	5.70	2.6
		B	WEB5600	8.45	3.8
		N	WEN5600	12.10	5.5
		H	WEH5600	17.00	7.7

* Comes complete with pin.

Group	Description		Part No	Weight	
				lb	kg
4	Rod Box	Square Box			
		A	3/4	WEA5601	1.98 0.9
		B	3/4	WEB5601	2.95 1.3
		N	3/4	WEN5601	4.56 2.0
		H	3/4	WEH5601	7.34 3.3

	Thin Wall	Square Box			
	ATW	3/4	WEATW5611	1.90	0.8
	BTW	3/4	WEBTW5611	2.15	1.2
	NTW	3/4	WENTW5611	4.10	1.8

* Additionnal adaptor description and part numbers are listed in the adaptor section.



Our adaptors are made of the best quality materials.
We build any kind of adaptors.

Sizes available

- A to P
- ATW to HTW
- NM to HM
- AW to HW
- HWT to PWT
- AW CASING to SW CASING
- A Tuff to P Tuff

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Standard Rod Pin	Standard Rod Pin			
A	AW	A3301301	1.79	0.8
A	B	A3301302	2.17	1.0
A	BW	A3301303	2.70	1.2
A	N	A3301304	3.80	1.7
A	NW	A3301305	4.40	2.0
A	NW	A3301306	5.10	2.3
AW	B	A3301401	2.31	1.1
AW	BW	A3301402	3.12	1.4
AW	N	A3301403	3.75	1.7
AW	NW	A3301404	4.37	1.9
AW	HW	A3301405	5.19	2.4
B	BW	A3301501	3.42	1.6
B	N	A3301502	4.35	2.0
B	HW	A3301503	5.26	2.4
BW	N	A3301601	3.89	1.8
BW	NW	A3301602	4.75	2.2
BW	HW	A3301603	5.90	2.7
N	NW	A3301701	5.12	2.3
N	HW	A3301702	6.74	3.1
NW	HW	A3301801	7.00	3.2

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Rod Pin	Standard Rod Pin			
A	A	A3537004	1.82	0.8
A	AW	A3537005	2.00	0.9
A	B	A3537006	2.74	1.3
A	BW	A3537007	3.50	1.6
A	N	A3537008	3.90	1.8
A	NW	A3537009	4.45	2.0
A	HW	A3537010	5.15	2.4
B	A	A3537104	3.05	1.4
B	AW	A3537105	3.05	1.4
B	B	A3537106	3.00	1.4
B	BW	A3537107	3.00	1.4
B	N	A3537108	4.60	2.1
B	NW	A3537109	4.75	2.2
B	HW	A3537110	5.50	2.5
N	A	A3537204	4.91	2.2
N	AW	A3537205	4.89	2.2
N	B	A3537206	5.10	2.3
N	BW	A3537207	5.11	2.3
N	N	A3537208	5.28	2.4
N	NW	A3537209	5.81	2.6
N	NW	A3537210	6.70	3.1
H	A	A3537304	6.56	2.9
H	AW	A3537305	7.05	3.2
H	B	A3537306	7.20	3.0
H	BW	A3537307	7.37	3.3
H	N	A3537308	7.55	3.4
H	NW	A3537309	7.67	3.5
H	HW	A3537310	8.05	3.6
HM	AW	A3537311	10.60	4.8
HM	NW	A3537316	10	4.5
HM	BW	A3537312	7.40	3.3
HM	NW	A3537313	7.60	3.4
P	BW	A3537407	7.80	3.5
HW	BW	A3537408	7.80	3.5
P	NW	A3537409	9.70	4.4
HW	NW	A3537410	9.70	4.4

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Thin Wall Rod Pin	Standard Rod Pin			
ATW	A	A3566004	2.10	1.0
ATW	AW	A3566005	2.00	1.0
ATW	BW	A3566007	2.20	1.1
ATW	NW	A3566009	2.95	1.3
BTW	A	A3566104	3.10	1.4
BTW	AW	A3566105	3.21	1.5
BTW	BW	A3566107	3.21	1.5
BTW	NW	A3566109	4.70	2.1
NTW	AW	A3566205	5.29	2.4
NTW	BW	A3566207	4.65	2.1
NTW	NW	A3566209	5.08	2.3
Thin Wall Rod Pin	Rod Pin			
ATW	A	A3566025	1.02	0.5
ATW	B	A3566027	1.10	0.5
BTW	A	A3566125	1.50	0.7
BTW	B	A3566127	1.62	0.7
NTW	A	A3566225	5.20	2.4
NTW	B	A3566227	4.60	2.1
NTW	N	A3566228	5.00	2.3
NTW	H	A3566229	6.45	2.9

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Rod Pin	Standard Rod Box			
A	A	A3637004	1.45	0.6
A	AW	A3637005	1.59	0.7
A	B	A3637006	1.76	0.8
A	BW	A3637007	2.00	0.9
A	N	A3637008	2.20	1.0
A	NW	A3637009	3.79	1.7
A	HW	A3637010	4.18	1.9
B	A	A3637104	3.08	1.4
B	AW	A3637105	2.79	1.3
B	B	A3637106	2.64	1.2
B	BW	A3637107	2.21	1.0
B	N	A3637108	2.86	1.3
B	NW	A3637109	3.30	1.5
B	HW	A3637110	3.74	1.7
N	A	A3637204	6.23	2.8
N	AW	A3637205	5.23	2.4
N	B	A3637206	5.00	2.2
N	BW	A3637207	4.48	2.0
N	N	A3637208	3.20	1.4
N	NW	A3637209	3.09	1.4
N	HW	A3637210	2.80	1.2
H	A	A3637304	9.95	4.5
H	AW	A3637305	7.15	3.2
H	B	A3637306	6.37	2.8
H	BW	A3637307	8.52	3.8
H	N	A3637308	8.00	3.6
H	NW	A3637309	7.77	3.5
H	HW	A3637310	2.81	1.3

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Thin Wall Rod Pin	Standard Rod Box			
ATW	A	A3666004	1.45	0.6
ATW	AW	A3666005	1.48	0.7
ATW	BW	A3666007	1.60	0.7
ATW	NW	A3666009	1.90	0.8
BTW	A	A3666104	2.45	1.1
BTW	AW	A3666105	3.04	1.4
BTW	BW	A3666107	3.30	1.5
BTW	NW	A3666109	3.74	1.7
NTW	AW	A3666205	6.34	2.9
NTW	BW	A3666207	5.18	2.4
NTW	NW	A3666209	4.50	2.0
Thin Wall Rod Pin	Rod Box			
ATW	A	A3666025	0.91	0.4
ATW	B	A3666027	2.00	0.9
H	N	A3666125	2.10	1.0
H	NW	A3666127	1.34	0.6
NTW	A	A3666225	5.23	2.3
NTW	B	A3666227	4.83	2.2
NTW	N	A3666228	3.09	1.4
NTW	H	A3566229	6.45	2.9

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Rod Box	Standard Rod Box			
A	A	A3437004	1.33	0.6
A	AW	A3437005	1.23	0.5
A	B	A3437006	1.13	0.5
A	BW	A3437007	1.03	0.5
A	N	A3437008	2.40	1.1
A	NW	A3437009	2.52	1.1
A	HW	A3437010		
B	A	A3437104	2.12	1.0
B	AW	A3437105	2.10	1.0
B	B	A3437106	2.65	1.2
B	BW	A3437107	1.98	0.9
B	N	A3437108	2.42	1.1
B	NW	A3437109	2.50	1.1
B	HW	A3437110	2.95	1.3
N	A	A3437204	5.40	2.5
N	AW	A3437205	5.23	2.4
N	B	A3437206	5.00	2.3
N	BW	A3437207	4.48	2.0
N	N	A3437208	3.29	1.5
N	NW	A3437209	3.00	1.4
N	HW	A3437210	2.80	1.3
H	A	A3437304	6.65	3.0
H	AW	A3437305	6.19	2.8
H	B	A3437306	5.12	2.3
H	BW	A3437307	4.95	2.3
H	N	A3437308	3.22	1.5
H	NW	A3437309	3.20	1.5
H	HW	A3437310	3.10	1.4

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Thin Wall Rod Box	Standard Rod Box			
ATW	A	A3466004	1.00	0.5
ATW	AW	A3466005	0.97	0.4
ATW	BW	A3466007	1.55	0.7
ATW	NW	A3466009	3.10	1.4
BTW	A	A3466104	1.21	0.5
BTW	AW	A3466105	1.29	0.6
BTW	BW	A3466107	1.15	0.5
BTW	NW	A3466109	2.19	1.0
NTW	BW	A3466205	3.47	1.6
NTW	BW	A3466207	3.19	1.4
NTW	NW	A3466209	2.85	1.3
Thin Wall Rod Box	Rod Box			
ATW	A	A3466025	0.97	0.4
ATW	B	A3466027	1.46	0.7
BTW	A	A3466125	1.90	0.9
BTW	B	A3466127	1.85	0.8
NTW	A	A3466225	3.65	1.7
NTW	B	A3466227	3.41	1.5
NTW	N	A3466229	3.18	1.4
NTW	H	A3566229	6.45	2.9

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Standard Rod Box	Standard Rod Box			
A	AW	A3601301	1.46	0.7
A	B	A3601302	1.57	0.7
A	BW	A3601303	1.86	0.8
A	N	A3601304	3.12	1.4
A	NW	A3601305	3.22	1.5
AW	B	A3601401	1.42	0.6
AW	BW	A3601402	1.57	0.7
AW	N	A3601403	2.80	1.3
AW	NW	A3601404	2.85	1.3
AW	HW	A3601405	3.79	1.7
B	BW	A3601501	1.39	0.63
B	B	A3601502	2.10	0.9
BW	B	A3601601	2.20	1.0
BW	BW	A3601602	2.46	1.1
BW	HW	A3601603	3.46	1.6
N	NW	A3601701	3.26	1.5
N	HW	A3601702	3.95	1.8
NW	HW	A3601801	4.45	2.0

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Rod Box	Standard Rod Pin			
A	A	A3337004	1.45	0.6
A	AW	A3337005	1.45	0.5
A	B	A3337006	1.60	0.7
A	BW	A3337007	1.65	0.7
A	N	A3337008	2.50	1.1
A	NW	A3337009	2.55	1.1
A	HW	A3337010	4.10	1.9
B	A	A3337104	2.45	1.1
B	AW	A3337105	2.45	1.1
B	B	A3337106	2.33	1.0
B	BW	A3337107	2.46	1.1
B	N	A3337108	2.86	1.3
B	NW	A3337109	3.65	1.3
B	HW	A3337110	4.51	2.1
N	A	A3337204	3.85	1.7
N	AW	A3337205	3.79	1.7
N	B	A3337206	3.45	1.6
N	BW	A3337207	4.05	1.8
N	N	A3337208	3.56	1.6
N	NW	A3337209	3.59	1.6
N	HW	A3337210	3.80	1.7
H	A	A3337304	6.76	3.1
H	AW	A3337305	6.76	3.1
H	B	A3337306	6.40	2.9
H	BW	A3337307	6.37	2.9
H	N	A3337308	6.12	2.7
H	NW	A3337309	6.12	2.7
H	HW	A3337310	6.00	2.7
Rod Box	Rod Pin			
N	HW	A3338211	8.10	3.6
N	HW	A3338311	8.60	3.9

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Thin Wall Rod Box	Standard Rod Pin			
ATW	A	A3366004	1.30	0.6
ATW	AW	A3366005	1.50	0.7
ATW	BW	A3366007	1.80	0.8
ATW	NW	A3366009	2.00	0.9
BTW	A	A3366104	2.45	1.1
BTW	AW	A3366105	2.58	1.2
BTW	BW	A3366107	2.67	1.2
BTW	NW	A3366109	2.80	1.3
NTW	AW	A3366205	3.39	1.5
NTW	BW	A3366207	3.14	1.4
NTW	NW	A3366209	3.59	1.6
Thin Wall Rod Box	Rod Pin			
ATW	A	A3366025	1.30	0.6
ATW	B	A3366027	1.80	0.8
BTW	A	A3366125	2.40	1.1
BTW	B	A3366127	1.00	0.4
NTW	A	A3366225	3.40	1.5
NTW	B	A3366227	3.15	1.4
NTW	N	A3366228	6.09	2.8

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Standard Rod Box	Standard Rod Pin			
A	AW	A3501301	2.00	0.9
A	B	A3501302	2.50	1.3
A	BW	A3501303	2.73	1.2
A	N	A3501304	3.62	1.6
A	NW	A3501305	5.25	2.4
AW	B	A3501401	2.50	1.1
AW	BW	A3501402	2.73	1.2
AW	N	A3501403	3.62	1.6
AW	NW	A3501404	4.00	1.8
AW	HW	A3501405	5.25	2.4
B	BW	A3501501	2.80	1.3
B	N	A3501502	3.00	1.4
BW	N	A3501601	3.59	1.6
BW	NW	A3501602	4.59	2.1
BW	HW	A3501603	5.00	2.2
N	NW	A3501701	4.62	2.1
N	HW	A3501702	5.00	2.2
NW	BW	A3501801	8.36	3.8

DRILL RODS ADAPTORS



Description		Part No	Weight lb kg	
Standard Rod Pin	Standard Rod Box			
A	AW	A3401301	1.48	0.7
A	B	A3401302	1.60	0.7
A	BW	A3401303	1.70	0.7
A	N	A3401304	1.80	0.8
A	NW	A3401305	1.90	0.9
A	HW	A3401306	2.00	0.9
AW	B	A3401401	2.46	1.1
AW	BW	A3401402	2.80	1.3
AW	N	A3401403	3.20	1.4
AW	NW	A3401404	3.80	1.7
AW	HW	A3401405	4.18	1.9
B	BW	A3401501	2.21	1.0
B	N	A3401502	2.86	1.3
B	NW	A3401503	3.74	1.7
BW	N	A3401601	2.86	1.3
BW	NW	A3401602	3.30	1.5
BW	HW	A3401603	3.74	1.7
N	NW	A3401701	3.09	1.4
N	HW	A3401702	3.50	1.6
NW	HW	A3401801	3.80	1.7

A.P.I. ADAPTORS



Description		Part No	Weight lb kg	
Rod Box	A.P.I. Regular Box			
NW	2 3/8	A8151303	13.05	5.9
NW	2 7/8	A8151305	16.00	7.3
NW	3 1/2	A8151306	21.00	9.5
N	2 3/8	A8151307	7.30	3.3
N	2 7/8	A8151308	7.30	3.3
H	2 3/8	A8151309	9.25	4.2
H	2 7/8	A8151314	9.25	4.2
H	3 1/2	A8151315	11.35	5.1

A.P.I. ADAPTORS



Description		Part No	Weight lb kg	
Casing Box	A.P.I. Regular Box			
NW	2 3/8	A8151204	9.45	4.3
HW	2 7/8	A8151205	15.55	7.1
BW	2 3/8	A8151206	8.70	3.9
NW	2 7/8	A8151207	10.30	4.7
NW	3 1/2	A8151208	12.40	5.6
HW	2 3/8	A8151211	15.10	6.8

CASING ADAPTORS



Description		Part No	Weight lb kg	
Standard Rod Box	W Casing Pin			
A	AW	A2211301	3.17	1.4
A	BW	A2211302	6.79	3.0
A	NW	A2211303	11.60	5.3
A	HW	A2211304	19.35	8.8
AW	AW	A2211401	1.20	0.5
AW	BW	A2211402	6.34	2.8
AW	NW	A2211403	11.10	5.0
AW	HW	A2211404	13.20	6.0
BW	BW	A2211601	5.60	2.5
BW	NW	A2211602	10.15	4.6
BW	HW	A2211603	18.35	8.3
BW	PW	A2211604	25.20	11.4
NW	NW	A2211801	9.25	4.2
NW	HW	A2211802	18.55	8.4
NW	PW	A2211803	26.30	11.9
HW	NW	A2211900	6.30	2.8
HW	HW	A2211901	13.70	6.2
HW	PW	A2211902	27.55	12.5
HW	SW	A2211903	35.50	16.1

CASING ADAPTORS



Description		Part No	Weight lb kg	
Rod Box	W Casing Pin			
A	AW	A2311101	3.15	1.4
A	AW	A2311102	4.40	2.0
B	BW	A2311201	4.45	2.0
B	NW	A2311202	8.50	9.0
N	BW	A2311291	2.08	0.9
N	NW	A2311301	6.65	3.0
N	HW	A2311302	17.20	7.8
H	NW	A2311401	3.00	1.4
HW	HW	A2311402	3.45	1.6
H	HW	A2311502	12.35	5.6
HW	HW	A2311503	6.10	2.7
HW	HW	A2311504	4.50	2.0
P	HW	A2311511	5.00	2.2
H	PW	A2311601	25.70	11.7
HW	PW	A2311602	14.00	6.3
HW	PW	A2311603	14.70	6.7
P	PW	A2311604	14.80	6.7
Thin Wall Rod Box	W Casing Pin			
ATW	AW	A2366101	2.83	1.3
ATW	BW	A2366102	4.51	2.0
BTW	BW	A2366201	3.83	1.7
BTW	NW	A2366202	8.30	3.7
NTW	NW	A2366301	5.71	2.6
NTW	HW	A2366302	16.50	7.5

CASING ADAPTORS



Description		Part No	Weight lb kg	
W Casing Pin	Pipe Pin			
AW	2.0"	A2411201	1.59	0.7
BW	2.5"	A2411301	2.53	1.2
NW	3.0"	A2411401	3.21	1.5
HW	4.0"	A2411501	4.10	1.8

CASING ADAPTORS



Description		Part No	Weight lb kg	
Rod Pin	W casing box			
N	BW	A2312401	2.34	1.1
H	NW	A2312502	2.73	1.2
P	HW	A2312602	5.09	2.3



All recovery tools are heat treated

- Wireline rod tap
- Wireline rod full grip tap
- Casing tap
- Standard bell tap
- Wireline rod bell tap
- Standard rod and coupling tap

WIRELINE ROD TAP



Description	Part No	Weight	
		lb	kg

RIGHT HAND TAP

Rod Size	Connection			
A	A	TA3000	2.69	1.2
B	B	TB3000	4.70	1.9
N	N	TN3000	7.50	3.4
H	H	TH3000	12.30	5.6
P	P	TP3000	17.40	7.9
HW	HW	TH3001	17.40	7.9
HW	HW	TH5000	16.00	7.3

Thin Wall

ATW	ATW	TATW6500	2.94	1.3
BTW	BTW	TBTW6500	4.94	2.3
NTW	NTW	TNTW6500	8.28	3.8

LEFT HAND TAP

Rod Size	Connection			
A	A	TA3000L	2.70	1.2
B	B	TB3000L	4.50	2.1
N	N	TN3000L	7.36	3.3
H	H	TH3000L	14.50	6.6

Thin Wall

ATW	ATW	TATW6500L	2.90	1.3
BTW	BTW	TBTW6500L	4.90	2.2
NTW	NTW	TNTW6500L	8.20	3.7



WIRELINE ROD FULL GRIP TAP

Description	Part No	Weight	
		lb	kg

RIGHT HAND TAP

Rod Size	Connection			
A	EW	TA3100	2.69	1.2
B	AW	TB3100	4.70	1.9
N	BW	TN3100	7.50	3.4
H	NW	TH3100	12.30	5.6

Thin Wall

ATW	EW	TATW6600	2.94	1.3
BTW	AW	TBTW6600	4.94	2.3
NTW	BW	TNTW6600	8.28	3.8



Description	Part No	Weight	
		lb	kg

RIGHT HAND TAP

Rod Size	Connection			
EW	EW	TEW1001	3.01	1.8
AW	AW	TAW1002	5.40	2.5
BW	BW	TBW1003	8.50	3.9
NW	NW	TNW1004	11.25	5.1
HW	HW	THW1005	21.65	9.8
AW	A	TAW3000	6.10	2.7
BW	B	TBW3000	8.15	3.7
NW	N	TNW3000	11.50	5.2
HW	H	THW3000	22.95	10.4
PW	P	TPW3000	29.80	13.5
PW	HW	TPW3001	29.80	13.5
AW	ATW	TAW6500	6.20	2.8
BW	BTW	TBW6500	8.40	3.8
NW	NTW	TNW6500	11.50	5.2



STANDARD ROD BELL TAP

Description	Part No	Weight	
		lb	kg

RIGHT HAND TAP

Tap Size	Connection Rod Box (RH)			
EW	EW	TESB1001	2.60	1.2
AW	AW	TASB1002	3.20	1.5
BW	BW	TBSB1003	3.80	1.7
NW	NW	TNSB1004	4.44	2.0
HW	HW	THSB1005	6.10	2.8

LEFT HAND TAP

Tap Size	Connection Rod Box (LH)			
EW	EW	TESB1001L	2.60	1.2
AW	AW	TASB1002L	3.20	1.5
BW	BW	TBSB1003L	3.80	1.7
NW	NW	TNSB1004L	4.40	2.0
HW	HW	THSB1005L	6.10	2.8

WIRELINE ROD BELL TAP



Description	Part No	Weight	
		lb	kg

RIGHT HAND

Tap Box Size

A	TAB3000	1.20	0.5
B	TBB3000	1.69	0.8
N	TNB3000	2.66	1.2
H	THB3000	4.19	1.9
P	TPB3000	4.20	4.3
HW	THB5000	4.20	1.9



STANDARD ROD AND COUPLING TAP

Description	Part No	Weight	
		lb	kg

RIGHT HAND

Tap Box Size Connection

EW	EW	TE1001	1.30	0.6
AW	AW	TA1002	2.19	0.9
BW	BW	TB1003	3.89	1.7
NW	NW	TN1004	6.30	2.9
HW	HW	TH1005	14.87	6.7

LEFT HAND TAP

Tap Box Size Connection (left hand)

EW	EW	TE1001L	1.30	0.6
AW	AW	TA1002L	2.55	1.2
BW	BW	TB1003L	3.90	1.7
NW	NW	TN1004L	6.30	2.9
HW	HW	TH1005L	14.90	6.7



Reaming Shells	82
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Casing Shoes Casing Bits / Rod Shoes	83
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Wedge Tools	84
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The quality of Pilot diamond tools is recognized worldwide. The products are sturdy, made with quality diamonds and have a long life expectancy.



REAMING SHELLS

Model

Size	6" Diamonds «A»	6"	10"	10" no stab	18"	18" no stab
A	✓		✓	✓	✓	✓
A TK				✓		
ATW	✓	✓	✓	✓	✓	✓
LTK48				✓		
B	✓	✓	✓	✓	✓	✓
B TK			✓	✓		
BTW	✓	✓	✓	✓	✓	✓
N	✓	✓	✓	✓	✓	✓
H		✓	✓	✓		
P		✓	✓	✓		



CASING SHOES

Our Casing Shoes are offered in two different sizes Econo.» and «V-Ring».

Model

Size	Econo.	V-Ring	V-Ring +
AW	✓	✓	
BW	✓	✓	✓
NW	✓	✓	✓
HW	✓	✓	✓
PW	✓	✓	✓

CASING BITS

Our Casing Bits are designed for very hard over burden.

Model

Size	Normal	Heavy Duty
BW-N	✓	✓
NW-H	✓	✓
HW-P	✓	
N -N	✓	

ROD SHOES

Our Rod Shoes are used for over burden.

Model

Size	Econo.	V-Ring	V-Ring +
N	✓	✓	✓
NT	✓	✓	✓
H	✓	✓	
HT	✓	✓	
HWT	✓	✓	
HM	✓	✓	



Standard Wedge Diamonds

- A Taper Wedge Bit
- B Taper Wedge Bit
- N Taper Wedge Bit
- B Ball Bit Pencil Core, B Ball Bit 2 Holes
- N Ball Bit Pencil Core, N Ball Bit 2 Holes
- H Ball Bit Ball Wedge

Retrievable Wedges Diamonds

- AXC/AWC Wedge Ball Bit
- AXC/AWC Reaming Shell
- BXC/BWC Wedge Ball Bit
- BXC/BWC Wedge Reaming Bit
- BXC/BWC Reaming Shell
- NXC/NWC Wedge Ball Bit
- NXC/NWC Wedge Reaming Bit
- NXC/NWC Reaming Shell
- B Inner tube concave Bit
- N Inner tube concave Bit

RETRIEVABLE WEDGE/PILOT REAMER ASSEMBLY

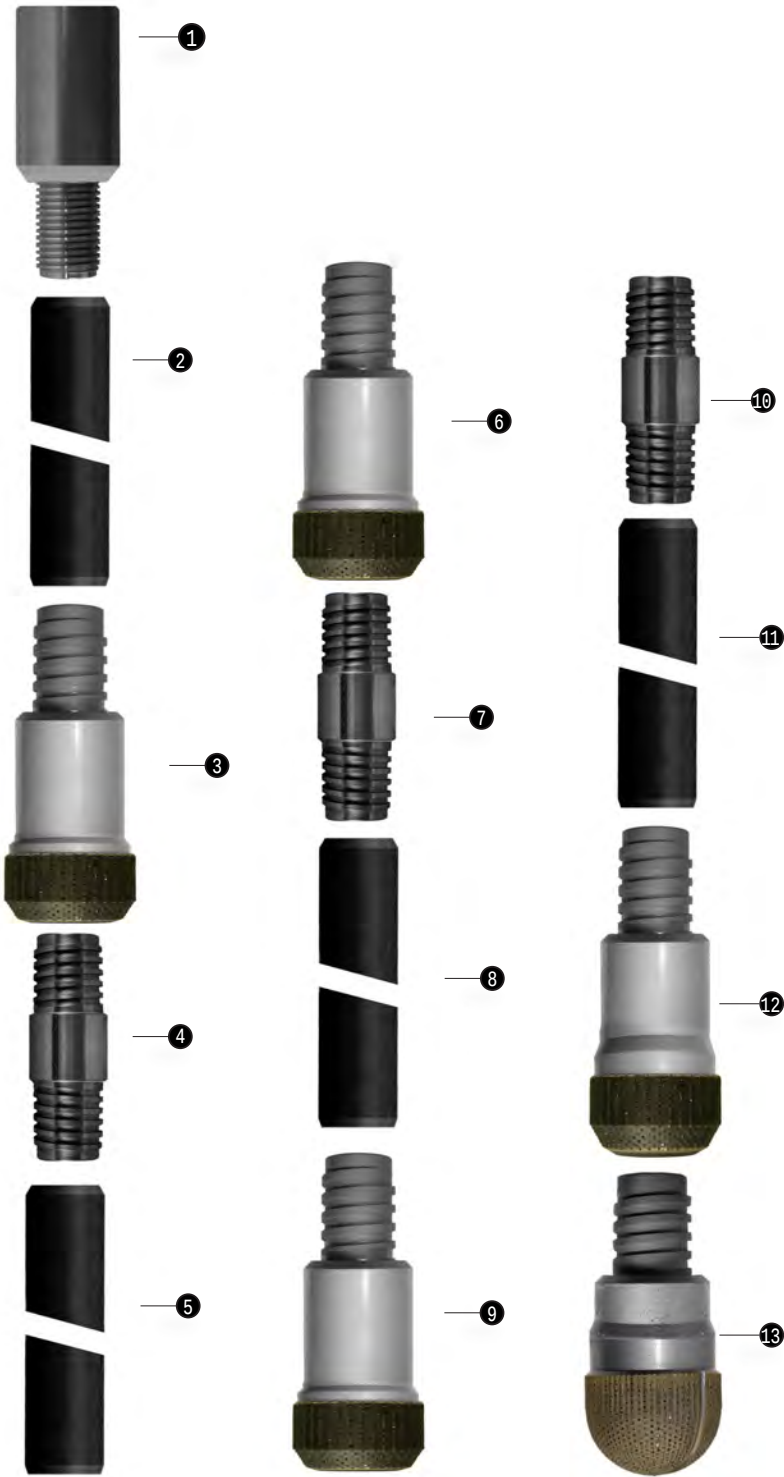
Size : B

ASSEMBLY

Description	Part No	Weight	
		lb	kg
B Pilot Reamer Assy	WEB1100	40.58	18.4

** Bits and shells are not included in assembly.*

1	Drill rod adaptor	A3337106
2	Drill rod 5'	RB2065
3	Wedge reaming bit *	40-311NR
4	Lower & intermediate coupling	WEB1102
5	Lower & intermediate barrel	WEB1101
6	Wedge reaming bit *	40-311NR
7	Lower & intermediate coupling	WEB1102
8	Lower & intermediate barrel	WEB1101
9	Wedge reaming bit *	40-311NR
10	Lower & intermediate coupling	WEB1102
11	Lower & intermediate barrel	WEB1101
12	Wedge reaming shell *	40-316NR
13	Wedge ball bit *	40-252NR



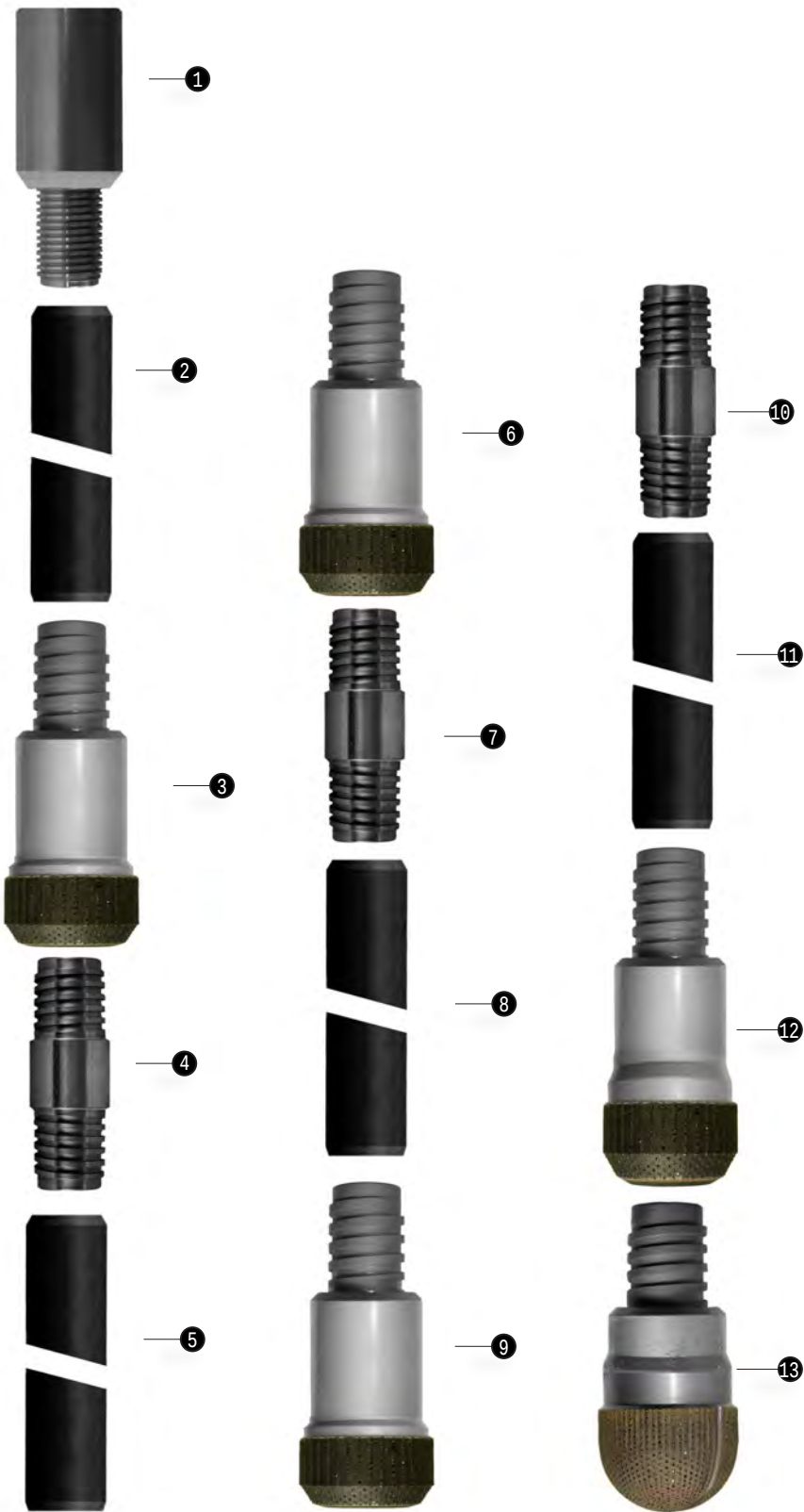
RETRIEVABLE WEDGE/PILOT REAMER ASSEMBLY

Size : N

Description	Part No	Weight	
		lb	kg
N Pilot Reamer Assy*	WEN1100	84.21	38.3

*Bits and shells not included in assembly.

1	Drill rod adaptor	A3337208
2	Drill rod 5'	RN2065
3	Wedge reaming bit *	40-411NR
4	Lower & intermediate coupling	WEN1102
5	Lower & intermediate barrel	WEN1101
6	Wedge reaming bit *	40-411NR
7	Lower & intermediate coupling	WEN1102
8	Lower & intermediate barrel	WEN1101
9	Wedge reaming bit *	40-411NR
10	Lower & intermediate coupling	WEN1102
11	Lower & intermediate barrel	WEN1101
12	Wedge reaming shell *	40-416NR
13	Wedge ball bit *	40-401NR





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Pressure relief valve	96

We manufacture and resell

MBI Drilling Products has an ongoing commitment to ensuring customer satisfaction and providing great products. That’s why we offer other products that are popular in the drilling industry. From by-pass wedges to oil mats, we select only the best products, thus making sure that our customers can find everything they need, at the moment they need it.



The oil mats are made of high quality fabric. The primary use is to recover oil (hydraulic and motor oil). Rolls come in mats of 38" X 144", 30" X 150" or in sheets of 15" X 15" and 15" X 19".

Part No	Description
Q 02 1530	Heavy Duty Oil Absorbant 30" X 150" Rolls
Q 02 1519	15" X 19" Heavy Weight Absorbent Pad (100 per pack)



DISPLACEMENT PLUGS

They are made of rubber and designed for placing casing pack, plugging back with cement and grouting. They are available in B, N, H and P sizes.

Part No	Description
M9050026	B Displacement Plugs
M9050027	N Displacement Plugs
M9050028	H Displacement Plugs
M9050029	P Displacement Plugs

VAN RUTH® CEMENTING AND WEDGING PLUGS



Part No	Description
M9051101 B	VAN RUTH® Cementing and wedging plugs
M9051102 N	VAN RUTH® Cementing and wedging plugs
M9051103 H	VAN RUTH® Cementing and wedging plugs

The VAN RUTH® CW PLUG (CW) is highly effective as a bridge plug for spot cementing sections of drill holes or wedging in off bottom situations for branch hole operations.

The CW PLUG is placed by pumping through the drill string and locks in the drill hole upon leaving the rods. The cup on top provides a seal on the drill hole.

Spot cementing: To provide a bridge for spot cementing, the CW PLUG is inserted and pumped down an open rod string with either cement or water, depending on the intended use. Spring loaded slips grab the wall of the drill hole upon leaving the rod string and the tapers of the plug body and slips lock the plug in location. A high pump pressure reading and relief valve discharge indicate that the plug has locked in the drill hole with the upper portion of the plug still in the rods. Slowly raising the rods while maintaining a positive fluid pressure will complete the setting process. A drop to open hole pressure indicates the plug has left the rods and is ready for operations to follow. The CW PLUG may be drilled out after cementing if required.

Wedging: For branch holes or wedging with Hall-Rowe type wedges, the CW PLUG is inserted and pumped down to the required location with water and set as above. A wooden plug is placed on top of the CW PLUG and the wedge is lowered and set in position before the wooden plug has time to expand. The wedge is then cemented in to prevent vibration and branch hole drilling operations can begin.

Construction: Drillable aluminum and rubber, also available in non-spark material illustrated above in black. Material Safety Data Sheets (MSDS) available upon request.

ROD AND CASING CUTTER

Size : BW Casing

ASSEMBLY

Description	Part No	Weight	
		lb	kg
BW Casing / N Rod Cutter Assy	CCN3000	17.50	8.0

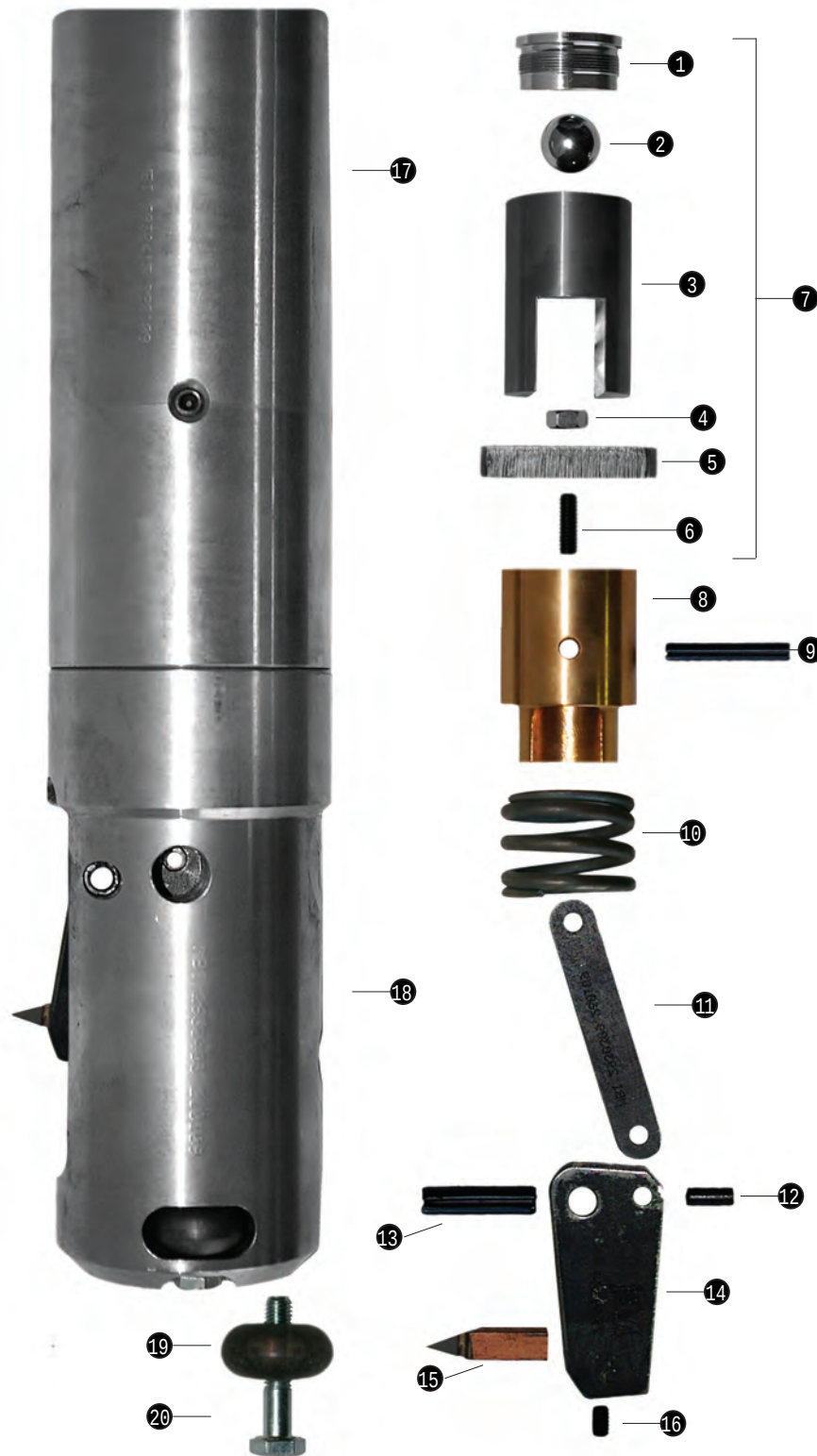
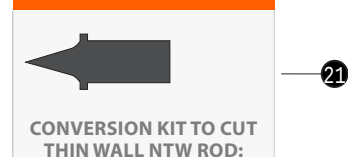
REPAIR KIT

CCBN3020

- Roller stabilizer (2)
- Screw roller (2)
- Tool holder (3/8" pin) (1)
- Tool holder (1/4" pin) (1)
- Cutter knife (1)
- Piston spring pin (1)
- Set screw tool bit (1)

1	Retaining plug	WB2123
2	Steel ball (3/4")	WB2121
3	Valve	CCBNH3014
4	Stopper lock nuts	CCBNH3017C
5	Stopper base	CCBNH3017A
6	Stopper screw	CCBNH3017B
7	"B-N-H" valve stopper assy	CCBNH3017
8	Piston	CCBNH3011
9	Piston spring pin (1/4" X 1 5/8")	CCBNH3012
10	Spring piston	CCBNH3010
11	Rod piston	CCBNH3009
12	Tool holder pin (1/4" x 5/8")	CCBNH3008
13	Tool holder (3/8" pin)	CCBNH3006
14	Holder tool bit	CCBN3004
15	Cutter knife	CCBNH3007C
16	Set screw tool bit	CCBNH3005
17	Valve body B box	CCBW3013
18	Body cutter	CCBW3003
19	Roller stabilizer (2)	CCBN3002
20	Roller screw (2)	CCBNH3001
21	Conversion Kit NTW	CCBNH3007N

OPTION



ROD AND CASING CUTTER

Size : NW Casing

ASSEMBLY

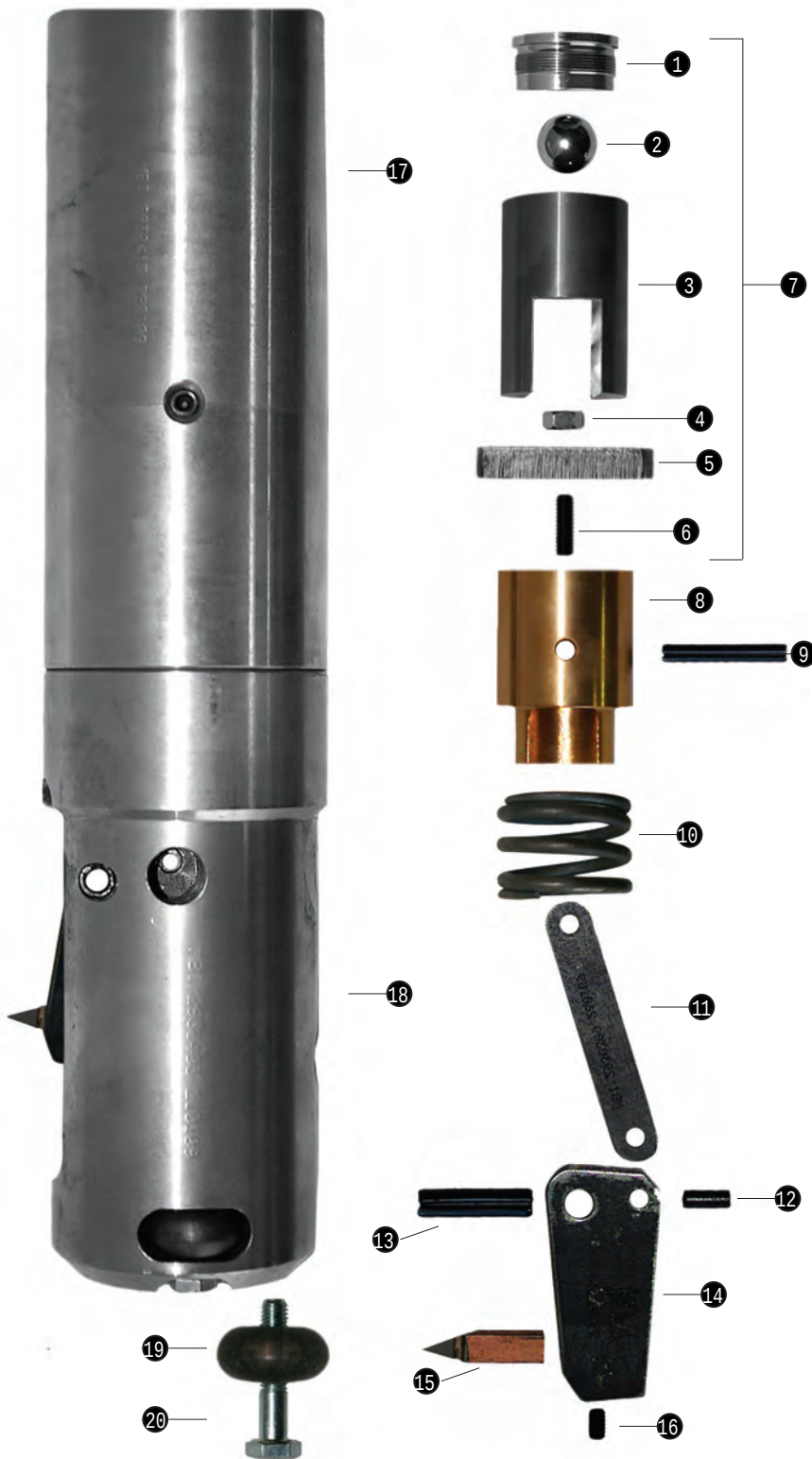
Description	Part No	Weight	
		lb	kg
NW Casing / H Rod Cutter Assy	CCH3000	25.00	11.4

REPAIR KIT

CCBN3020

- Roller stabilizer (2)
- Screw roller (2)
- Tool holder (3/8" pin) (1)
- Tool holder (1/4" pin) (1)
- Cutter knife (1)
- Piston spring pin (1)
- Set screw tool bit (1)

1	Retaining plug	WB2123
2	Steel ball (3/4")	WB2121
3	Valve	CCBNH3014
4	Stopper lock nuts	CCBNH3017C
5	Stopper base	CCBNH3017A
6	Stopper screw	CCBNH3017B
7	"B-N-H" valve stopper assy	CCBNH3017
8	Piston	CCBNH3011
9	Piston spring pin (1/4" X 1 5/8")	CCBNH3012
10	Spring piston	CCBNH3010
11	Rod piston	CCBNH3009
12	Tool holder pin (1/4" x 5/8")	CCBNH3008
13	Tool holder (3/8" pin)	CCBNH3006
14	Holder tool bit	CCBN3004
15	Cutter knife	CCBNH3007C
16	Set screw tool bit	CCBNH3005
17	Valve body N box	CCNW3013
18	Body cutter	CCNW3003
19	Roller stabilizer (2)	CCBN3002
20	Roller screw (2)	CCBNH3001



ROD AND CASING CUTTER

Size : HW Casing

ASSEMBLY

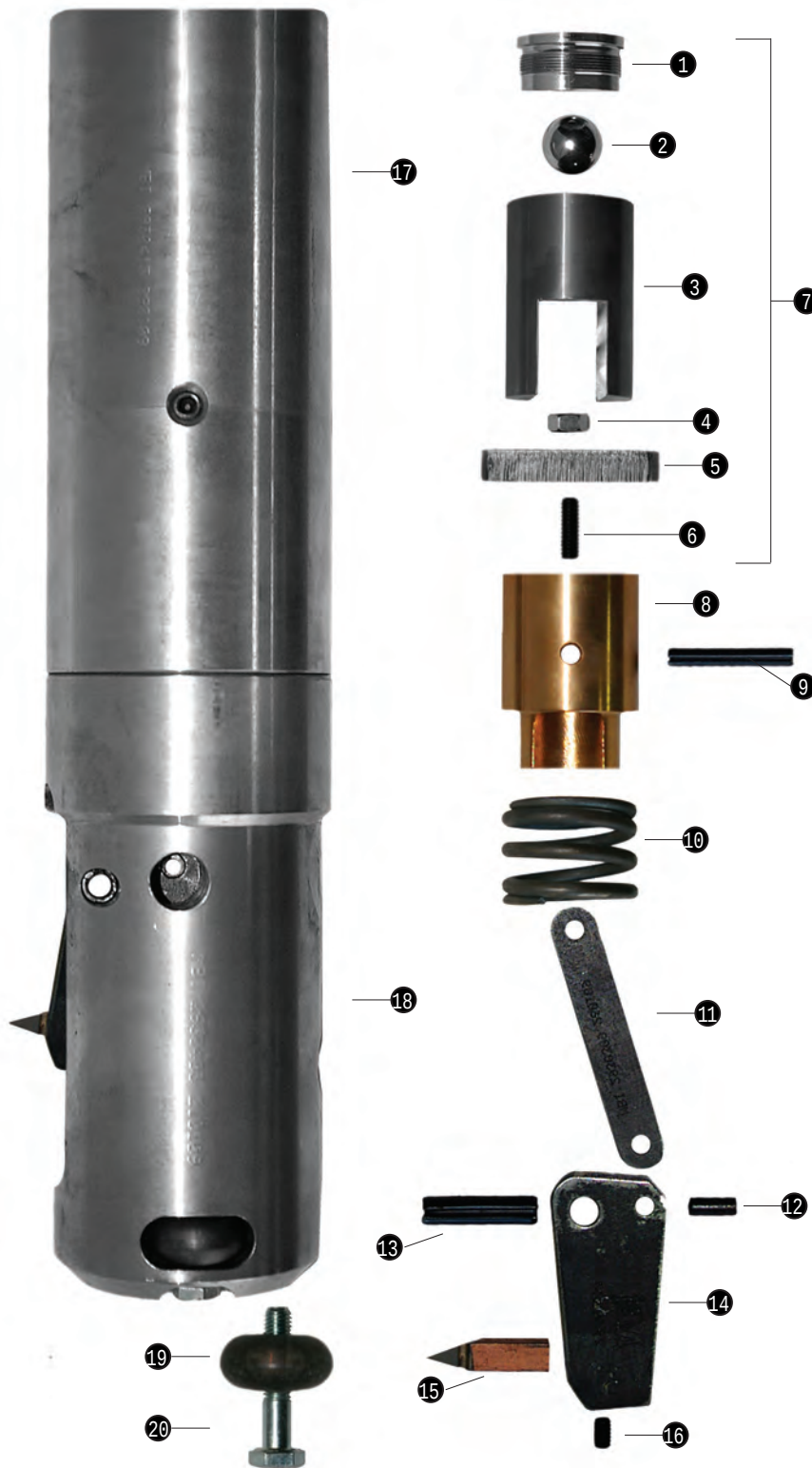
Description	Part No	Weight lb kg	
HW Casing / P Rod Cutter Assy	CCP3000	38.70	17.6

REPAIR KIT

CCH3020

- Roller stabilizer (2)
- Screw roller (2)
- Tool holder (3/8" pin) (1)
- Tool holder (1/4" pin) (1)
- Cutter knife (1)
- Piston spring pin (1)
- Set screw tool bit (1)

1	Retaining plug	WB2123
2	Steel ball (3/4")	WB2121
3	Valve	CCBNH3014
4	Stopper lock nuts	CCBNH3017C
5	Stopper base	CCBNH3017A
6	Stopper screw	CCBNH3017B
7	"B-N-H" valve stopper assy	CCBNH3017
8	Piston	CCBNH3011
9	Piston spring pin (1/4" X 1 5/8")	CCBNH3012
10	Spring piston	CCBNH3010
11	Rod piston	CCBNH3009
12	Tool holder pin (1/4" x 5/8")	CCBNH3008
13	Tool holder (3/8" pin)	CCBNH3006
14	Holder tool bit	CCH3004
15	Cutter knife	CCBNH3007C
16	Set screw tool bit	CCBNH3005
17	Valve body H box	CCHW3013
18	Body cutter	CCHW3003
19	Roller stabilizer (2)	CCH3002
20	Roller screw (2)	CCBNH3001



CHUCK JAWS



Carbide
replacement
insert (1)



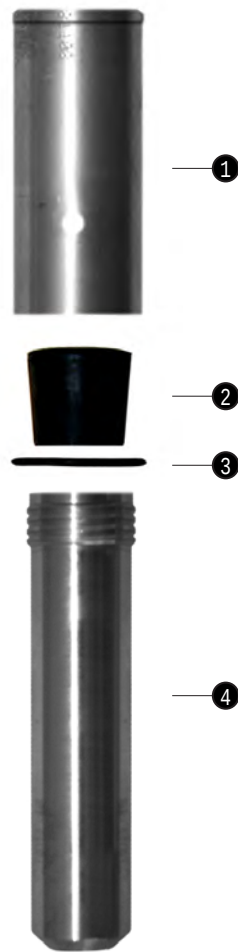
Description	Part No	Weight	
		lb	kg
AW Casing	U29187	4.75	2.2
BW Casing	U29189	4.27	1.9
NW Casing	U28348	3.68	1.7
BW Rod	U29186	4.75	2.2
NW Rod	U29054	4.45	2.0
HW Rod	U28348	3.68	1.7
A Rod	U28351	5.22	2.4
B Rod	U28350	4.87	2.2
N Rod	U28349	4.37	2.0
H Rod	U28348	3.68	1.7
Thin Wall			
ATW Rod	A3437306	5.22	2.4
BTW Rod	A3437307	4.83	2.2
NTW Rod	A3437308	4.27	1.9

REAMER ASSEMBLY



Description	Part No	Weight	
		lb	kg
B Size			
B rod box-box to			
BW Casing Pin	A3091313	4.18	1.9
Extension			
B rod pin-pin 5 5/8 (standard)	A30v96311	2.39	1.1
B rod pin-pin 3 13/16 (metric)	A3096312	1.79	0.8
N Size			
N rod box-box to			
NW Casing Pin	A3096413	6.28	2.9
Extension			
N rod pin-pin 13 3/4 (standard)	A3096411	6.56	2.9
N rod pin-pin 11 7/8 (metric)	A3096412	5.73	2.6
H Size			
H rod box-box to			
HW Casing Pin	A3096513	12.00	5.5
Extension			
H rod pin-pin 8 1/2 (standard)	A3096511	6.41	2.9
H rod pin-pin 6 5/8 (metric)	A3096512	5.33	2.4
Thin Wall			
BTW Size			
BTW rod box-box to			
BW Casing Pin	A3091315	3.54	1.6
Extension			
BTW rod pin-pin (standard)	A3096313	2.81	1.3
BTW rod pin-pin (metric)	A3096314	2.60	1.2
NTW Size			
NTW rod box-box to			
NW Casing Pin	A3091415	5.34	2.4
Extension			
NTW rod pin-pin (standard)	A3096414	6.78	3.0
NTW rod pin-pin (metric)	A3096415	4.39	1.9

INNER TUBE CLINOMETER



ASSEMBLIES

Description	Part No	Weight	
		lb	kg

Wireline Type Assy

A IT	WEA3500	0.70	0.3
B IT	WEB3500	2.10	0.9
N IT	WEN3500	4.19	1.9
H IT	WEH3500	6.33	2.9
P IT	WEP3500	8.40	3.8

Thin Wall Type Assy

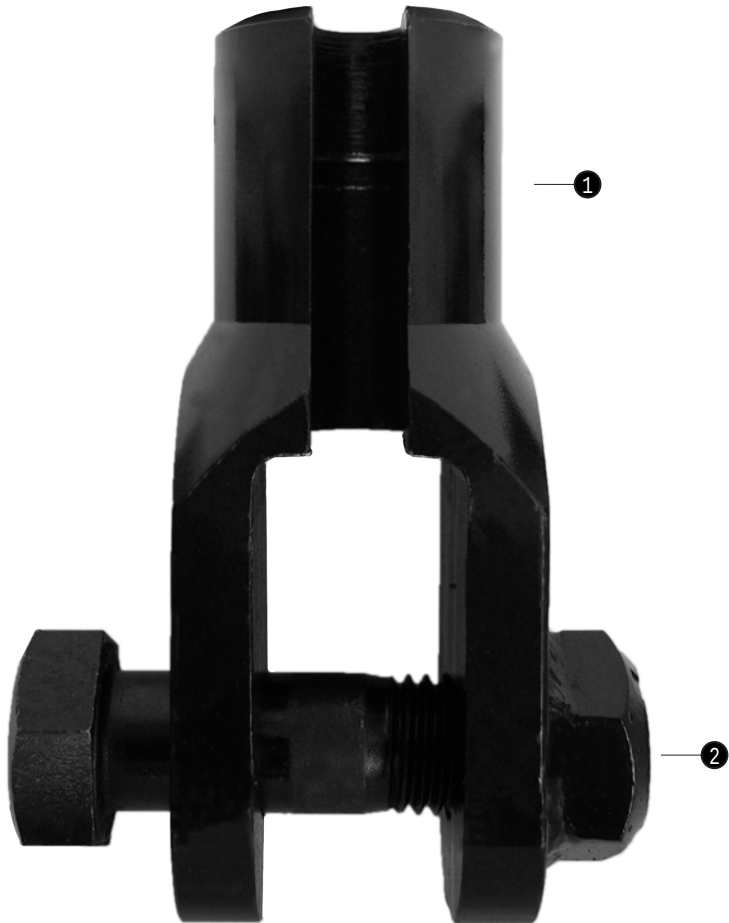
ATW IT	WEATW6500	0.82	0.4
BTW IT	WEBTW6500	2.56	1.2
NTW IT	WENTW6500	4.76	2.2

WIRELINE INNER TUBE TYPE

1	Cap	A	WEA3501
		B	WEB3501
		N	WEN3501
		H	WEH3501
		P	WEP3501
2	Rubber stopper	A	WEB4101
		B	WEB4101
		N	WEN4100
		H	WEN4100
		P	WEN4100
3	"O" ring	A	WEA3500
		B	WEB3501
		N	WEN3502
		H	WEN3502
		P	WEN3502
4	Container	A	WEA3502
		B	WEB3502
		N	WEN3502
		H	WEN3502
		P	WEN3502

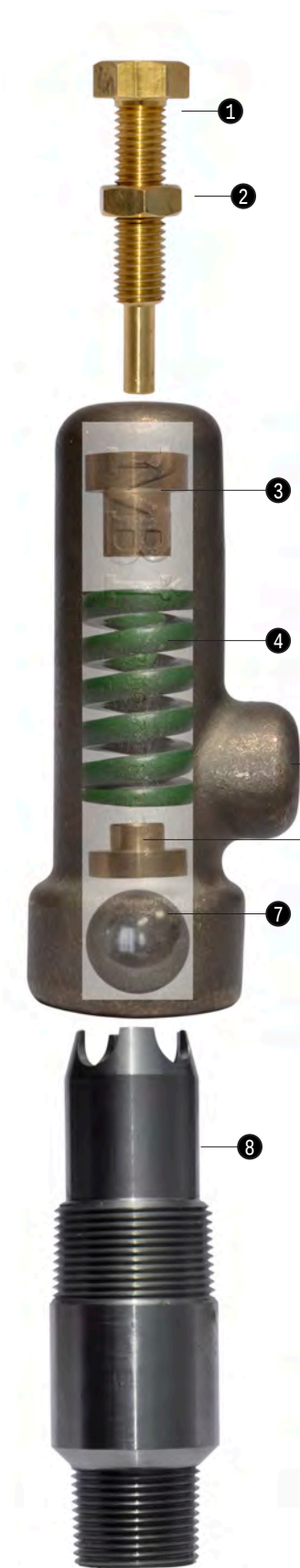
THIN WALL INNER TUBE TYPE

1	Cap	ATW	WEATW6501
		BTW	WEBTW6501
		NTW	WENTW6501
2	Rubber stopper	ATW	WEATW4101
		BTW	WEATW4101
		NTW	WENTW4100
3	"O" ring	ATW	WEATW3500OR
		BTW	WEBTW3502OR
		NTW	WEBTW3502OR
4	Container	ATW	WEATW3502
		BTW	WEBTW3502
		NTW	WENTW3502



Description		Part No	Weight	
			lb	kg
Clevis Assy (5/8")		CL002	7.38	3.4
1	Body 5/8"	CL002A		
2	Pin 5/8"	CL0012		

PRESSURE RELIEF VALVE



Connection thread:
3/4" N.P.T.

ASSEMBLIES

Description	Part No	Weight	
		lb	kg
Relief Valve Assy	RV0016	7.50	3.4
Capacity: 0 - 1 500 p.s.i.			
Maximum load: 1 500 p.w.i. / 10.3 MPa			

1	Adjusting screw	RV0001
2	Lock nut	RV0002
3	Spring guide heavy duty	U000151729
4	Spring	WN2116
5	Body	RV0017
6	Ball holder heavy duty	U000151728
7	Steel bal (15/16")	RV0008
8	Special seat	RV0010



A superior alternative for your core drilling requirements



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