



**AMERICAN
DIAMOND
TOOL**

Product Catalog

Salt Lake City, Utah USA (877) 974-0403

November 2015

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Drill Bits

American Diamond Tool offers a wide selection of diamond products that provide proven technology for the Mining, Oil and Gas and Geo-Construction Industry's most challenging situations. Through our ongoing improvement in manufacturing and engineering processes, we are developing diamond products, services and solutions that help optimize customer drilling productivity.

The diamond product line consists of the following:

- Impregnated Bits
- Surface Set Bits
- Amdril PDC Bits
- Reaming Shells
- Casing Shoes

In addition to the standard product line, American Diamond Tool will work with you to provide customized solutions for special drilling applications.

Our professionals through in-depth knowledge of the drilling industry will provide expertise to solve your specific challenges. To aid in the development of these new designs, American Diamond Tool has an in-house test drill facility.

Whether your project requires standard bit types or a new design, American Diamond Tool has you covered. Contact your American Diamond Tool representative today for assistance in selecting a diamond product which best fits your needs.

Core Bit Dimensions

Size	Bit OD		Bit ID		Reaming Shell OD		
	in.	mm	in.	mm	in.	mm	
AW34	1.895	48.13	1.320	33.53	1.895	48.13	
AQWL	RSG	1.895	48.13	1.065	27.05	1.895	48.13
	Bit Gauge (DCDMA)	1.880	47.75	1.065	27.05	1.895	48.13
BW44	2.365	60.07	1.755	44.58	2.365	60.07	
BQWL	RSG	2.365	60.07	1.432	36.37	2.365	60.07
	Bit Gauge (DCDMA)	2.350	59.69	1.432	36.37	2.365	60.07
NWD4	2.985	75.82	2.060	52.32	2.985	75.82	
NQWL	RSG	2.985	75.82	1.875	47.63	2.985	75.82
	Bit Gauge (DCDMA)	2.970	75.44	1.875	47.63	2.985	75.82
NQ2WL	RSG	2.985	75.82	1.990	50.55	2.985	75.82
	Bit Gauge (DCDMA)	2.970	75.44	1.990	50.55	2.985	75.82
NQ3WL	RSG	2.985	75.82	1.775	45.09	2.985	75.82
	Bit Gauge (DCDMA)	2.970	75.44	1.775	45.09	2.985	75.82
HWD4	3.655	92.84	2.400	60.96	3.655	92.84	
HQWL	RSG	3.782	96.06	2.500	63.50	3.782	96.06
	Bit Gauge (DCDMA)	3.770	95.76	2.500	63.50	3.782	96.06
HQ3WL	RSG	3.782	96.06	2.400	60.96	3.782	96.06
	Bit Gauge (DCDMA)	3.770	95.76	2.400	60.96	3.782	96.06
94MM	3.937	100.00	2.400	60.96	3.937	100.00	
PQWL	PQWL RSG	4.835	122.81	3.345	84.96	4.835	122.81
	Bit Gauge (DCDMA)	4.820	122.43	3.345	84.96	4.835	122.81
PQ3WL	RSG	4.835	122.81	3.270	83.06	4.835	122.81
	Bit Gauge (DCDMA)	4.820	122.43	3.270	83.06	4.835	122.81

Impregnated Diamond Bits

American Diamond Tool's impregnated bit selection is based on a 1 through 14 classification system, with 1 designated for the softest rock and 14 for the hardest rock. Below are some of the common impregnated bits listed with recommended rock type.



Impregnated Bit Selection Guide

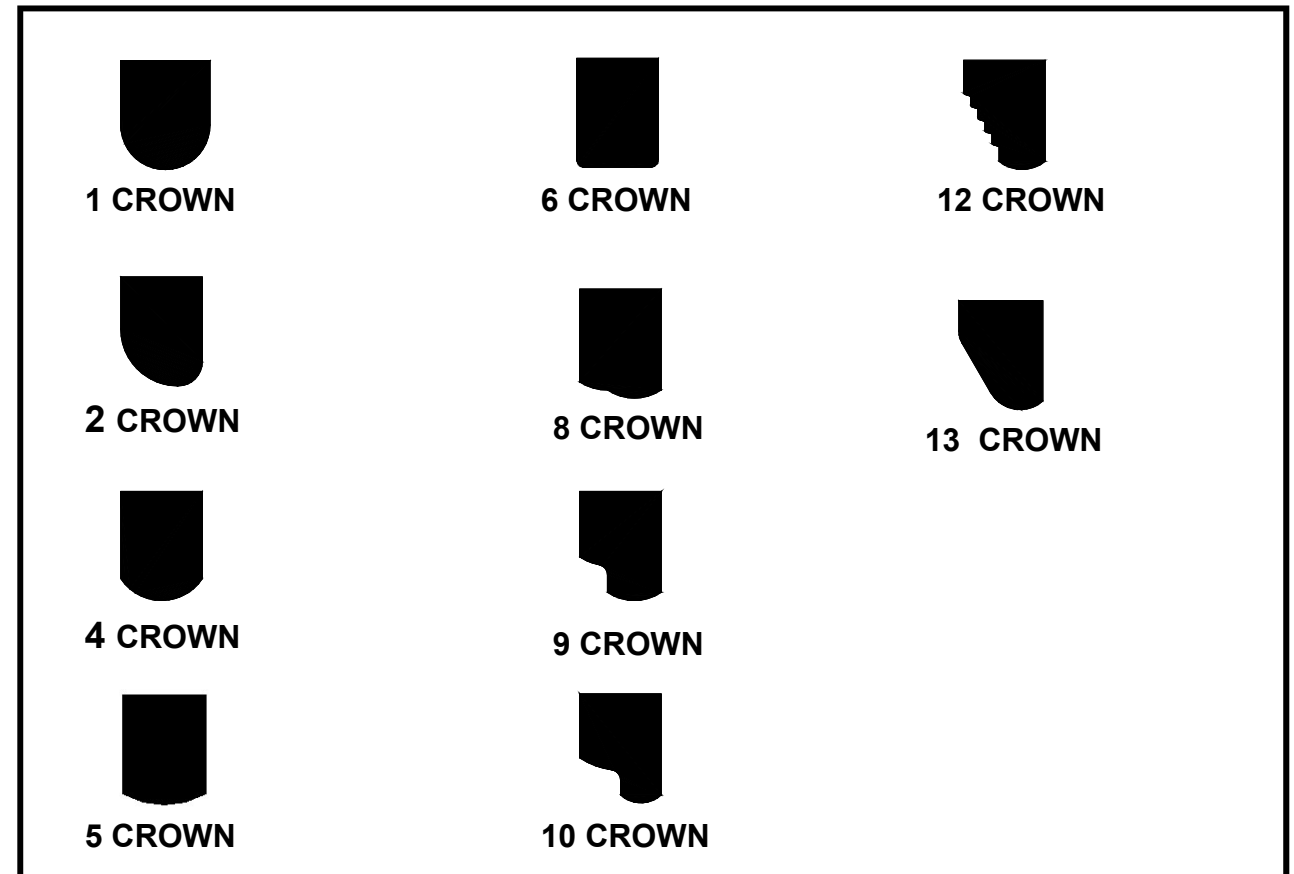
Rock Type	Rock Characteristics	Recommended Bit Type
Chert	Ultra Hard	14A0
Jasperite	Non-Abrasive	12A0
Glassy Quartzite	Very Fine Grained	10A0
Rhyolite	Competent	
Granite	Very Hard	9A0
Gneiss	Non-Abrasive	8A0
Quartzite	Fine Grained	8D2
	Competent	
Granite	Hard	8D2
Pegmatite	Moderately Abrasive	8A0
Silicified Volcanics	Fine to Medium Grained	7A0
Skarn	Competent to Fractured	7D2
Basalt	Medium Hard	6E4
Diorite	Moderately Abrasive	6A0
Diabase	Medium to Coarse Grained	5A0
Gabbro	Competent to Fractured	
Dolomite	Medium Soft	
Weathered Granite	Abrasive	4A0
Serpentine	Medium to Coarse Grained	
Peridotite	Competent to Fractured	
Conglomerate	Soft	
Hard	Very Abrasive	2A0
Limestone	Coarse Grain	1A0
Sandstone	Highly Fractured	

Surface Set Diamond Bits

American Diamond Tool offers a full range of surface set diamond bits for most challenging conditions. These bits can be designed with a range of crown profiles, diamond sizes and grade of diamond allowing you to select a bit which best matches your drilling conditions. Please contact a American Diamond Tool representative for assistance in selecting a bit.



Surface Set Crown Profiles



Amdril PDC Bits

American Diamond Tool offers a full range of coring and fullhole PDC bits to choose from. These bits are ideal for high speed drilling in soft to medium hard rock such as sandstone, shale and limestone.

The coring bit sizes are typical of the standard industry core sizes (see Core Bit Dimension table). The bit sizes can also be made to your specifications.



American Diamond Tool's fullhole PDC bit sizes range from 2 to 10 inches. These bits are designed with a hard matrix body for long dependable life. In addition to the standard bit line, American Diamond Tool's engineering group can work with you on specific design application.

Reamer Shells

American Diamond Tool offers a full range of reamer shells to choose from. The wear pads are made of an ultra hard matrix for extended life while providing stabilization and maintaining full hole dimension.



Casing and Rod Shoes

American Diamond Tool offers a full range of casing and rod shoes. Depending on your situation, the shoes can be built with a variety of styles; including impregnated, surface set and tungsten carbide.



Diamond Impregnated Casing and Rod Shoes

Size	Shoe OD		Shoe ID	
	in.	mm	in.	mm
NW Casing	3.620	91.95	2.987	75.87
HW Casing	4.632	117.65	3.970	100.84
HWT Casing	4.632	117.65	3.970	100.84
NQ Rod	2.985	75.82	2.367	60.12
HQ Rod	3.782	96.06	3.050	77.47

Wireline Core Barrels

American Diamond Tool currently offers two types of wireline core barrel systems. Both types, the Standard and Quadlatch Wire Core Barrels, are ideal for deep hole continuous coring. These barrels are a double tube system with a heavy duty sealed bearing supported shaft allowing for smooth trouble free operation.

The Standard Wireline Core Barrel (NWL, N2WL, N3WL, HWL, H3WL, PWL and P3WL) is equipped with a spearhead spring latch system. This core barrel system has a long proven record of being dependable in extreme conditions.

The Standard Wireline Core Barrel has two overshot designs to choose from, the Knuckle Head and Easy Lock.

The Quadlatch Core Barrel (C, B and Large Diameter Series) provides positive latching at any hole angle. The simplicity of this system minimizes the amount of moving parts while still maintaining dependable performance and long life.

The Quadlatch is complemented with an overshot that consists of a ratchet step mechanism that allows for several latch attempts with one single tool cocking.



Standard System



Quadlatch System

Wireline Core Barrel Dimensions

Description	Hole Size		Core Size	
	Inch	MM	Inch	MM
CN & NWL	2.985	75.82	1.875	47.63
CN2 & N2WL	2.985	75.82	1.990	50.55
CN3 & N3WL	2.985	75.82	1.775	45.09
NXB	2.985	75.82	1.875	47.63
HXB	3.655	92.84	2.400	60.96
CH & HWL	3.782	96.06	2.500	63.50
CH3 & H3WL	3.782	96.06	2.400	60.96
CP & PWL	4.835	122.81	3.345	84.96
CP3 & P3WL	4.835	122.81	3.270	83.06
4-5/8x3.00	5.500	139.70	3.000	76.20
5-3/4x4.00	6.000	152.40	4.000	101.60
8 x 5-7/8	8.000	203.20	5.875	149.23

Standard Series - Springlatch

The Standard Series uses a sealed double race bearing system. The bearing assembly has an external grease fitting for easy lubrication for long life. These core barrels are equipped with a landing shoulder and ring that allows for proper seating of inner tube in latch position, preventing bit and inner tube damage.

C Series - Quadlatch

The C Series uses a sealed double race bearing system. The bearing assembly has an external grease fitting for easy lubrication for long life. These core barrels are equipped with a landing shoulder ring that allows for proper seating of inner tube in latch position, preventing bit and inner tube damage. The drill rod connection is manufactured to fit most standard types. Please specify connection type when ordering.

B Series - Quadlatch

American Diamond Tool's B Series wireline core barrels use a sealed double race bearing. The bearing assembly has an external grease fitting for easy lubrication for long life. The drill rod connection is manufactured to fit most standard types. Please specify connection type when ordering.

Large Diameter - Quadlatch and Quintlatch

The Large Diameter wireline core barrels use both the quadlatch and quintlatch systems. Unlike the the quadlatch, the quintlatch system has five fingers to allow for the larger weights. This system is used in the 8 x 5-7/8 core barrel. All large diameter barrels are equipped with a sealed double race bearing. The drill rod connection is manufactured to fit most standard types. Please specify connection type when ordering.

NWL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.875 in.	2.875 in.	2.375 in.	2.187 in.	1.964 in.
75.82 mm	47.63 mm	73.03 mm	60.33 mm	55.55 mm	49.89 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	12-02-405	94.9	43.0
10 ft Complete (3.0m)	12-02-410	137.8	62.5

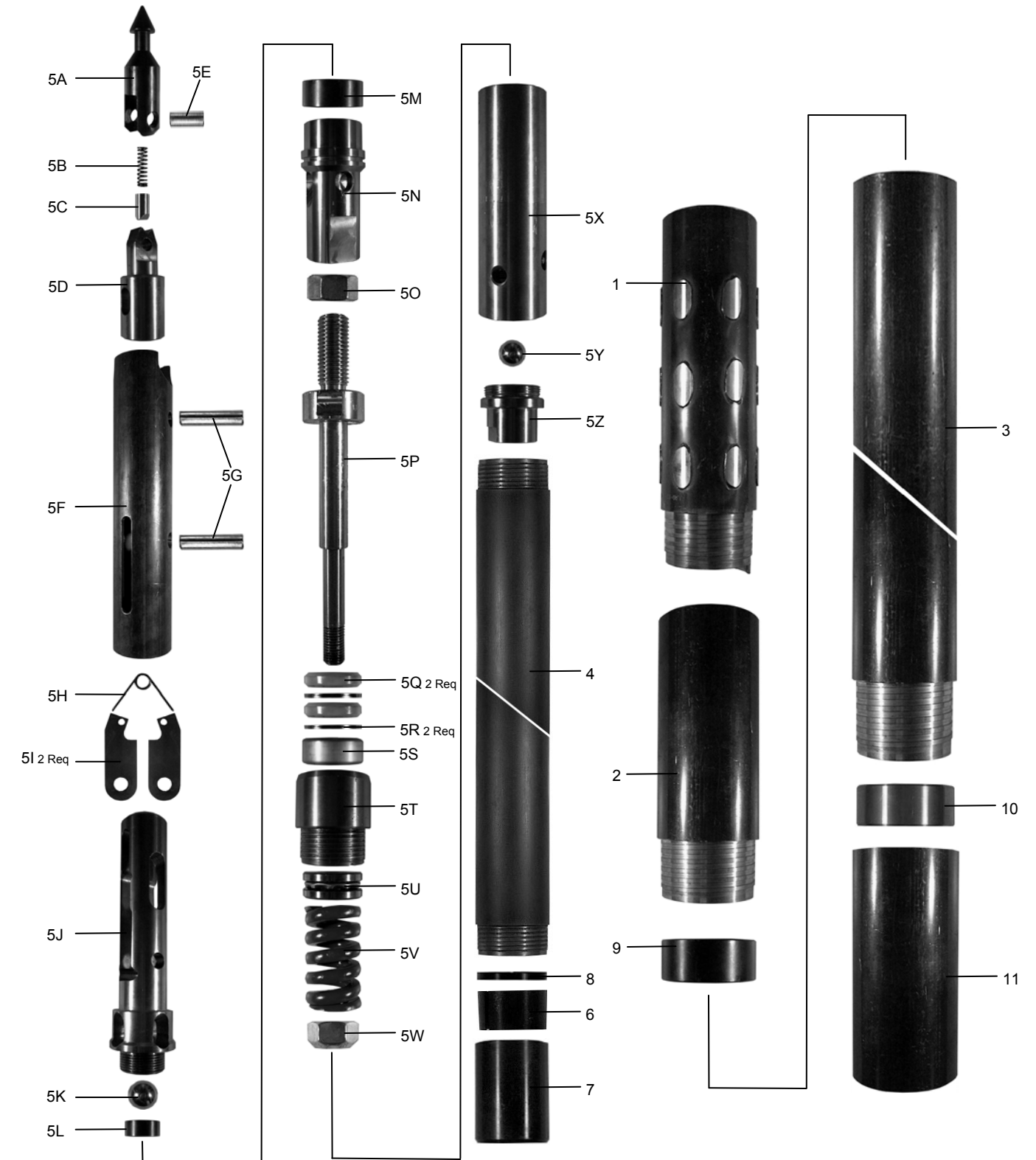
Spare Parts For Assembly

1. Locking Coupling Tanged NQWL Thrd	12-21-434	5.3	2.4
Locking Coupling NQWL Thrd	12-21-434-1	5.3	2.4
2. Adapter Coupling	12-21-435	3.2	1.5
3. Outer Tube 5 ft (1.5m)	12-21-445	48.2	21.9
Outer Tube 10 ft (3.0m)	12-21-450	78.2	35.5
4. Inner Tube 5 ft (1.5m)	25-641-069	12.9	5.9
Inner Tube 10 ft (3.0m)	25-641-077	25.8	11.7
5. Head Assembly	12-20-402	20.5	9.3
A. Spearhead Point	12-22-301	0.4	0.2
B. Compression Spring	12-22-302	0.1	0.0
C. Detent Plunger	12-22-303	0.1	0.0
D. Spearhead Base	12-22-404	1.9	0.9
E. Spiral Pin	12-22-305	0.1	0.0
F. Latch Retracting Case	12-22-406	3.8	1.7
G. Spring Pin (2 Required)	12-21-403	0.1	0.0
H. Latch Spring	12-21-404	0.1	0.0
I. Latch (2 Required)	12-21-405	0.2	0.1
J. Upper Latch Body	12-29-409-1	3.0	1.4
K. Steel Ball	12-29-374	0.1	0.0
L. Landing Indicator Bushing	12-29-380	0.1	0.0
M. Landing Shoulder	12-29-409-2	0.1	0.0
N. Lower Latch Body	12-29-409-3	1.7	0.8
O. Hex Nut	12-21-410	0.4	0.2
P. Spindle	12-21-411	2.9	1.3
Q. Shutoff Valve (2 Required)	12-21-412	0.1	0.0
R. Valve Adjusting Washer (2 Required)	12-21-413	0.2	0.1
S. Thrust Bearing	12-21-414	0.2	0.1
T. Spindle Bearing	12-21-415	1.1	0.5
U. Hanger Bearing	12-21-424	0.2	0.1
V. Compression Spring	12-21-416	0.4	0.2
W. Lock Nut	12-21-417	0.1	0.0
X. Inner Tube Cap	12-21-419	2.6	1.2
Y. Steel Ball	12-21-421	0.1	0.0
Z. Check Valve Body	12-21-423	0.4	0.2
6. Core Lifter Skirtless	25-095-274	0.1	0.0
7. Inner Tube Shoe	25-641-150	0.4	0.2
8. Retaining Ring	25-641-291	0.1	0.0
9. Landing Shoulder Ring	12-21-436	0.4	0.2
10. Inner Tube Stabilizer	25-641-192	0.3	0.1
11. Thread Protector	12-21-440	3.5	1.6

Optional Equipment (Not Shown)

12. Reaming Shell Sub (Plain)	25-641-218	3.0	1.36
13. Core Lifter Skirtless Hard Face	25-094-210	0.2	0.07
14. Inner Tube Assembly 5 ft (1.5m)	12-12-405	34.0	15.4
Inner Tube Assembly 10 ft (3.0m)	12-12-410	46.9	21.3

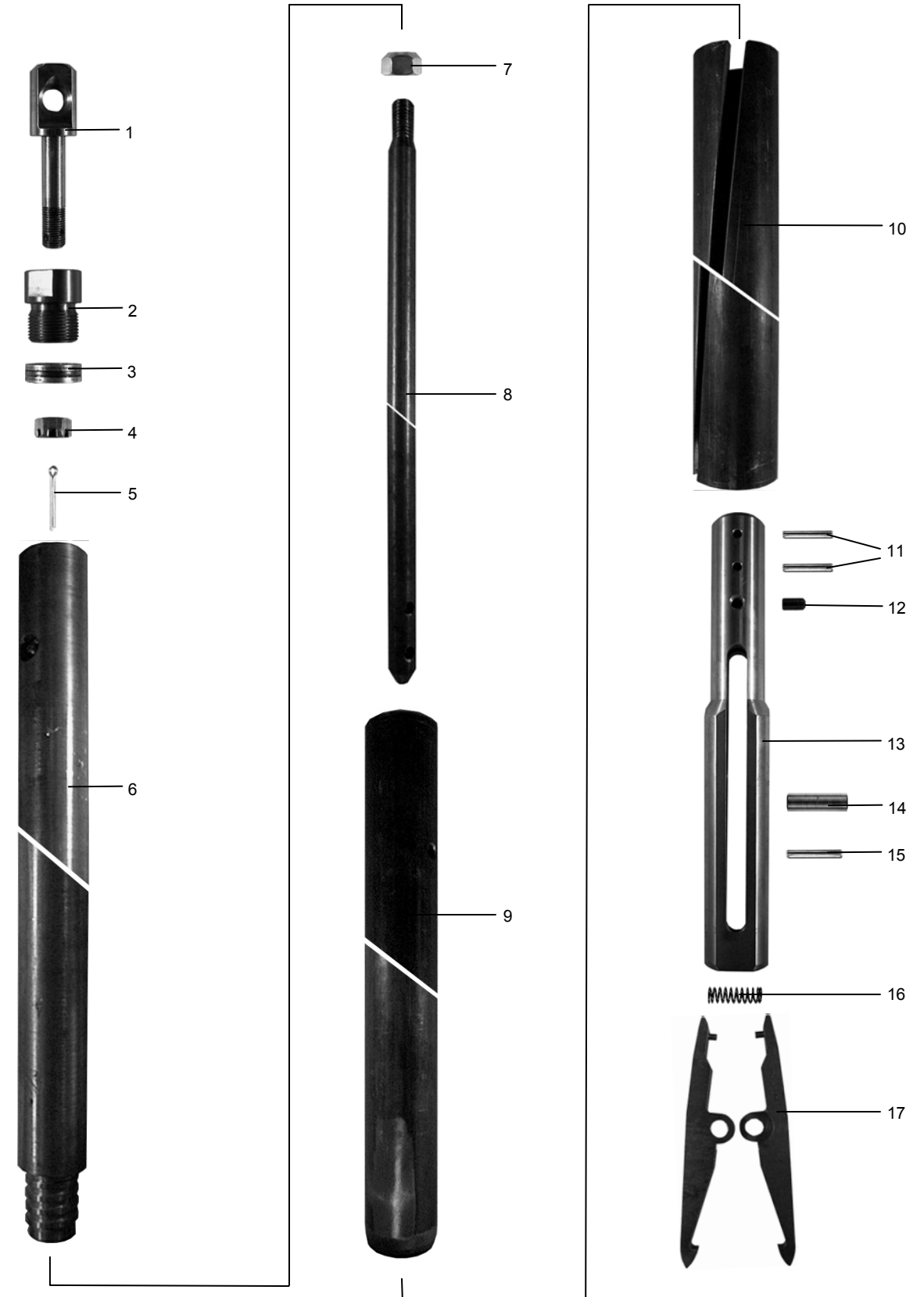
NWL Core Barrel (Spring Latch)



NWL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
NWL Overshot Assembly (Items 1-17)	12-32-400	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-202	0.7	0.3
2. Cable Swivel Collar	12-31-203	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Lock Nut	12-31-408	0.1	2.9
8. Jar Staff	12-32-412	1.3	0.0
9. Jar Tube	12-32-421	6.3	0.6
10. Locking Sleeve	12-31-411	2.6	1.2
11. Roll Pin (2 Req)	12-32-422	0.1	0.0
12. Set Screw	12-32-314	0.0	0.0
13. Overshot Head	12-32-415	5.2	2.4
14. Pivot Pin	12-32-417	0.1	0.0
15. Roll Pin	12-32-418	0.1	0.0
16. Lifting Dog Spring	12-39-416	0.0	0.0
17. Lifting Dog (2 Req)	12-31-419	1.4	0.6

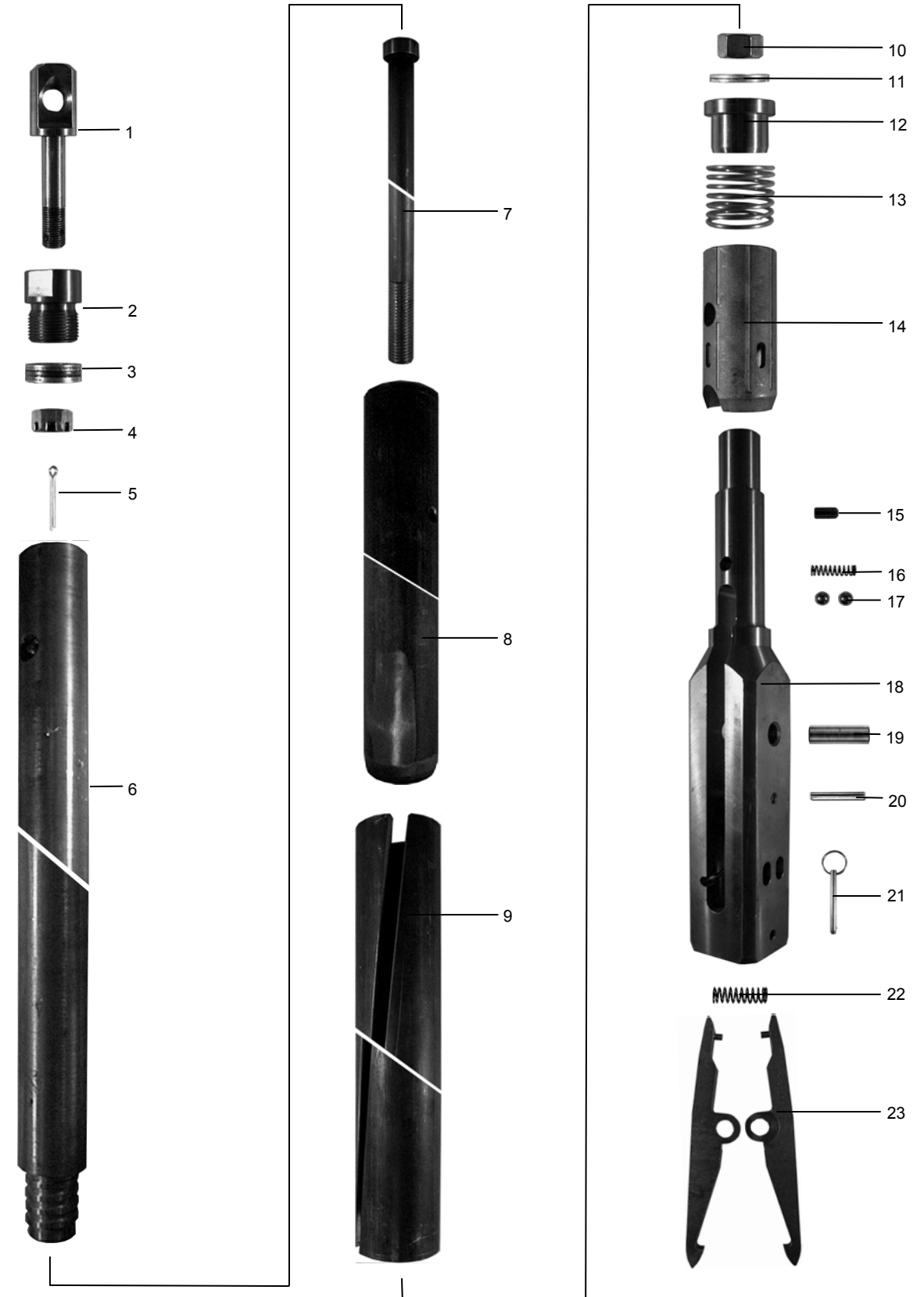
NWL Core Barrel (Knuckle Head Overshot)



NWL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
NWL Overshot Assembly (Items 1-23)	12-39-400	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-415	3.1	1.4
19. Pivot Pin	12-32-417	0.1	0.0
20. Roll Pin	12-32-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8

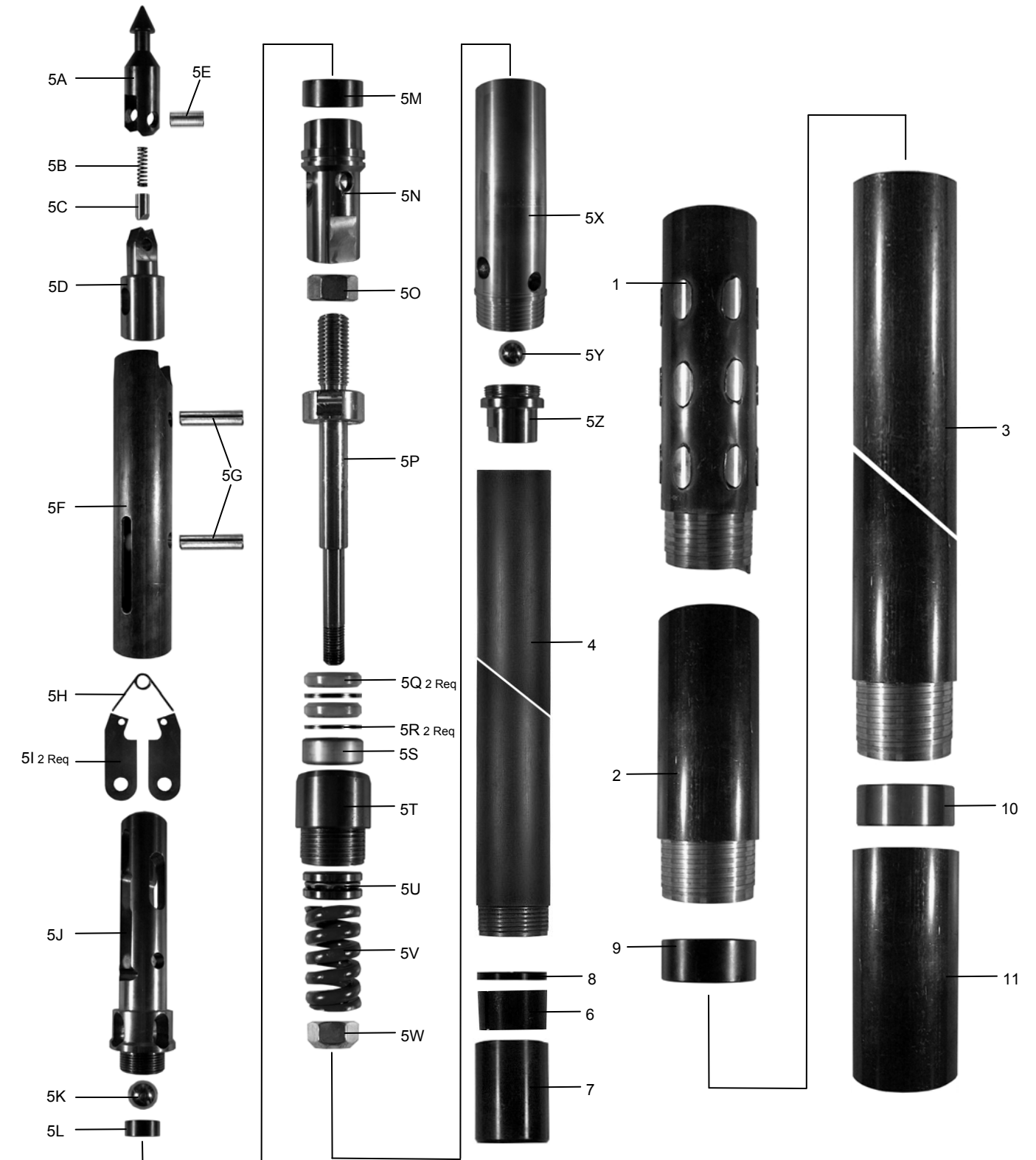
NWL Core Barrel (Easy Lock Overshot)



N2WL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.990 in.	2.875 in.	2.375 in.	2.187 in.	1.964 in.
75.82 mm	50.55 mm	73.03 mm	60.33 mm	55.55 mm	49.89 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		12-07-405	94.9	43.0	
10 ft Complete (3.0m)		12-07-410	137.8	62.5	
Spare Parts For Assembly					
1. Locking Coupling Tanged NQWL Thrd		12-21-434	5.3	2.4	
Locking Coupling NQWL Thrd		12-21-434-1	5.3	2.4	
2. Adapter Coupling		12-21-435	3.2	1.5	
3. Outer Tube 5 ft (1.5m)		12-21-445	48.2	21.9	
Outer Tube 10 ft (3.0m)		12-21-450	78.2	35.5	
4. Inner Tube 5 ft (1.5m)		25-665-135	12.9	5.9	
Inner Tube 10 ft (3.0m)		25-665-143	25.8	11.7	
5. Head Assembly		12-27-400	20.5	9.3	
A. Spearhead Point		12-22-301	0.4	0.2	
B. Compression Spring		12-22-302	0.1	0.0	
C. Detent Plunger		12-22-303	0.1	0.0	
D. Spearhead Base		12-22-404	1.9	0.9	
E. Spiral Pin		12-22-305	0.1	0.0	
F. Latch Retracting Case		12-22-406	3.8	1.7	
G. Spring Pin (2 Required)		12-21-403	0.1	0.0	
H. Latch Spring		12-21-404	0.1	0.0	
I. Latch (2 Required)		12-21-405	0.2	0.1	
J. Upper Latch Body		12-29-409-1	3.0	1.4	
K. Steel Ball		12-29-374	0.1	0.0	
L. Landing Indicator Bushing		12-29-380	0.1	0.0	
M. Landing Shoulder		12-27-409-2	0.1	0.0	
N. Lower Latch Body		12-29-409-3	1.7	0.8	
O. Hex Nut		12-21-410	0.4	0.2	
P. Spindle		12-21-411	2.9	1.3	
Q. Shutoff Valve (2 Required)		12-21-412	0.1	0.0	
R. Valve Adjusting Washer (2 Required)		12-21-413	0.2	0.1	
S. Thrust Bearing		12-21-414	0.2	0.1	
T. Spindle Bearing		12-21-415	1.1	0.5	
U. Hanger Bearing		12-21-424	0.2	0.1	
V. Compression Spring		12-21-416	0.4	0.2	
W. Lock Nut		12-21-417	0.1	0.0	
X. Inner Tube Cap		12-27-419	2.6	1.2	
Y. Steel Ball		12-21-421	0.1	0.0	
Z. Check Valve Body		12-21-423	0.4	0.2	
6. Core Lifter Skirtless		25-095-316	0.1	0.0	
7. Inner Tube Shoe		25-665-184	0.4	0.2	
8. Retaining Ring		25-665-192	0.1	0.0	
9. Landing Shoulder Ring		12-27-436	0.4	0.2	
10. Inner Tube Stabilizer		25-665-226	0.3	0.1	
11. Thread Protector		12-21-440	3.5	1.6	
Optional Equipment (Not Shown)					
12. Reaming Shell Sub (Plain)		25-641-218	3.0	1.4	
13. Inner Tube Assembly 5 ft (1.5m)		12-17-405	34.0	15.4	
Inner Tube Assembly 10 ft (3.0m)		12-17-410	46.9	21.3	

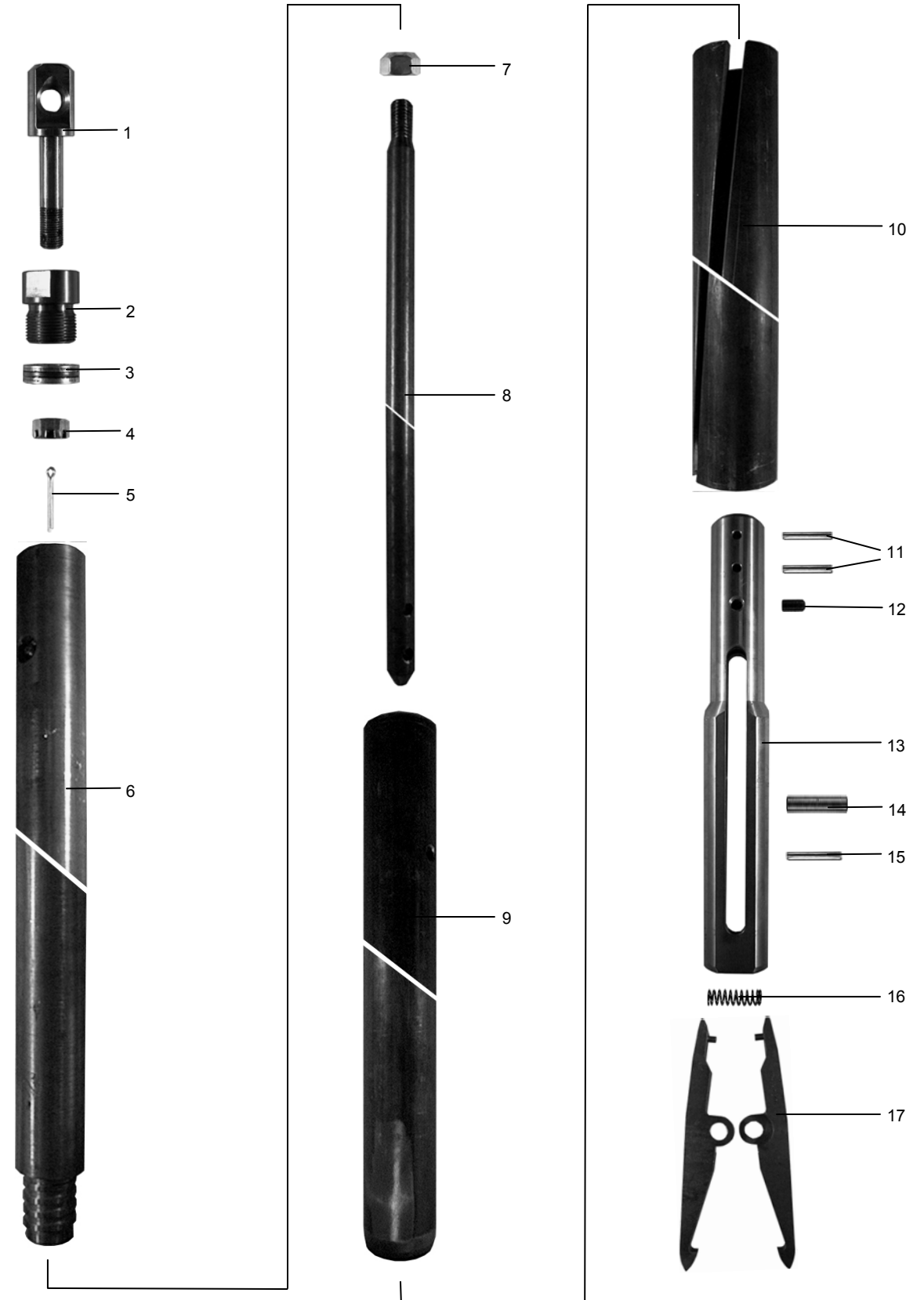
N2WL Core Barrel (Spring Latch)



N2WL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
NWL Overshot Assembly (Items 1-17)	12-32-400	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-202	0.7	0.3
2. Cable Swivel Collar	12-31-203	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Lock Nut	12-31-408	0.1	2.9
8. Jar Staff	12-32-412	1.3	0.0
9. Jar Tube	12-32-421	6.3	0.6
10. Locking Sleeve	12-31-411	2.6	1.2
11. Roll Pin (2 Req)	12-32-422	0.1	0.0
12. Set Screw	12-32-314	0.0	0.0
13. Overshot Head	12-32-415	5.2	2.4
14. Pivot Pin	12-32-417	0.1	0.0
15. Roll Pin	12-32-418	0.1	0.0
16. Lifting Dog Spring	12-39-416	0.0	0.0
17. Lifting Dog (2 Req)	12-31-419	1.4	0.6

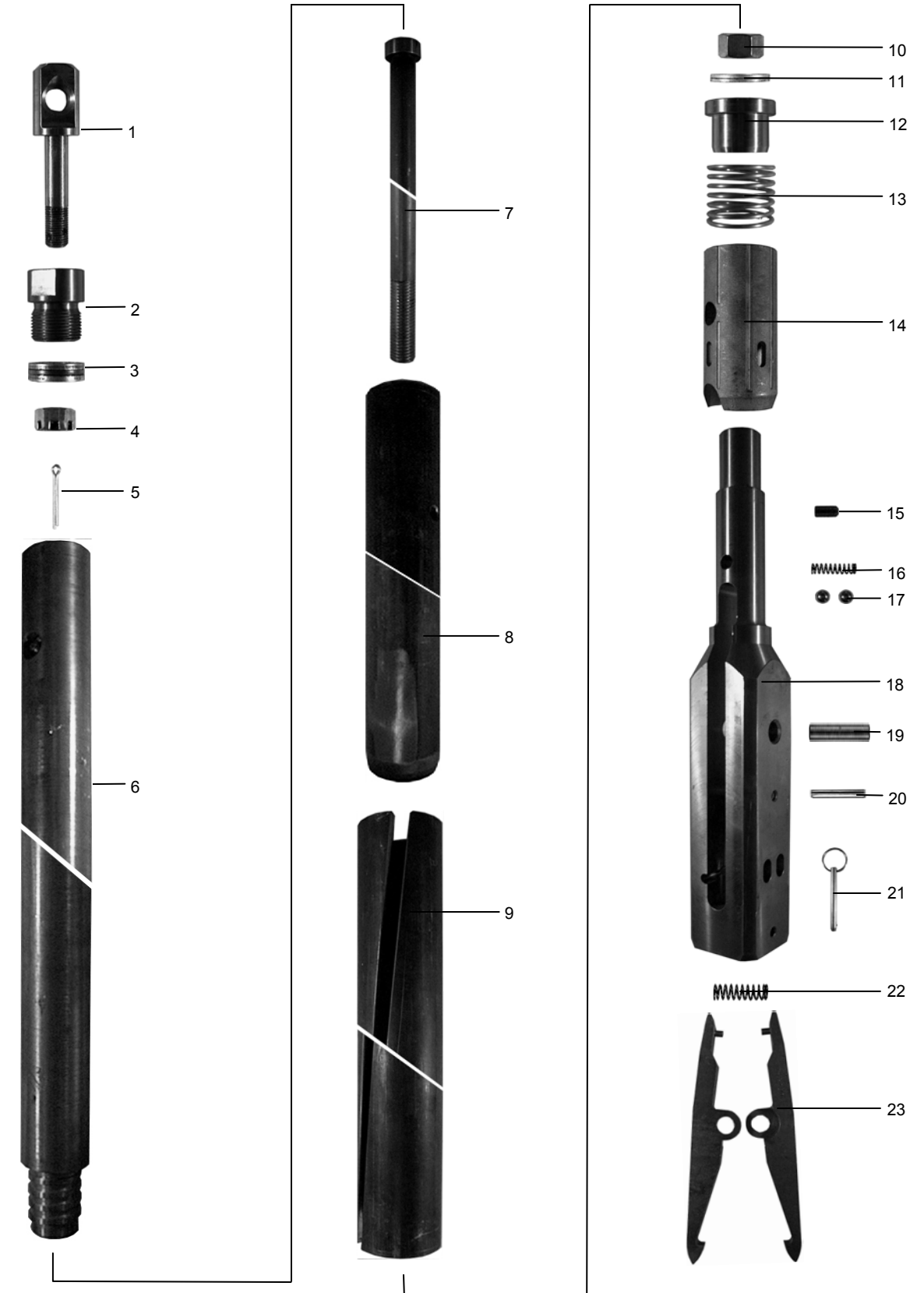
N2WL Core Barrel (Knuckle Head Overshot)



N2WL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
NWL Overshot Assembly (Items 1-23)	12-39-400	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-415	3.1	1.4
19. Pivot Pin	12-32-417	0.1	0.0
20. Roll Pin	12-32-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8

N2WL Core Barrel (Easy Lock Overshot)



N3WL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.775 in.	2.875 in.	2.375 in.	2.187 in.	1.964 in.
75.82 mm	45.09 mm	73.03 mm	60.33 mm	55.55 mm	49.89 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	14-02-405	104.0	47.2
10 ft Complete (3.0m)	14-02-410	151.9	68.9

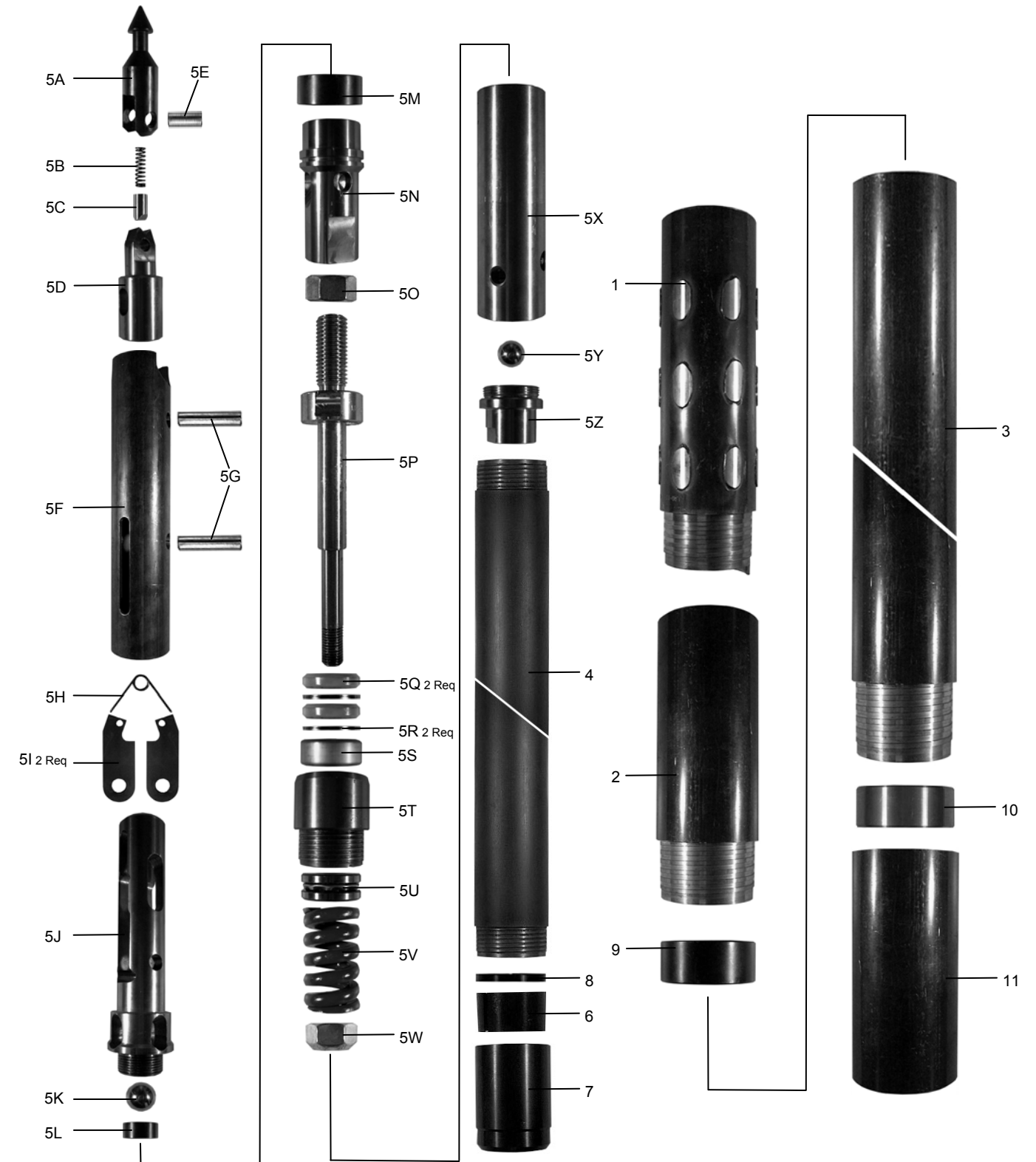
Spare Parts For Assembly

1. Locking Coupling Tanged NQWL Thrd	12-21-434	5.3	2.4
Locking Coupling NQWL Thrd	12-21-434-1	5.3	2.4
2. Adapter Coupling	12-21-435	3.2	1.5
3. Outer Tube 5 ft (1.5m)	12-21-445	48.2	21.9
Outer Tube 10 ft (3.0m)	12-21-450	78.2	35.5
4. Inner Tube 5 ft (1.5m)	25-641-069	12.9	5.9
Inner Tube 10 ft (3.0m)	25-641-077	25.8	11.7
5. Head Assembly	12-20-402	20.5	9.3
A. Spearhead Point	12-22-301	0.4	0.2
B. Compression Spring	12-22-302	0.1	0.0
C. Detent Plunger	12-22-303	0.1	0.0
D. Spearhead Base	12-22-404	1.9	0.9
E. Spiral Pin	12-22-305	0.1	0.0
F. Latch Retracting Case	12-22-406	3.8	1.7
G. Spring Pin (2 Required)	12-21-403	0.1	0.0
H. Latch Spring	12-21-404	0.1	0.0
I. Latch (2 Required)	12-21-405	0.2	0.1
J. Upper Latch Body	12-29-409-1	3.0	1.4
K. Steel Ball	12-29-374	0.1	0.0
L. Landing Indicator Bushing	12-29-380	0.1	0.0
M. Landing Shoulder	12-29-409-2	0.1	0.0
N. Lower Latch Body	12-29-409-3	1.7	0.8
O. Hex Nut	12-21-410	0.4	0.2
P. Spindle	12-21-411	2.9	1.3
Q. Shutoff Valve (2 Required)	12-21-412	0.1	0.0
R. Valve Adjusting Washer (2 Required)	12-21-413	0.2	0.1
S. Thrust Bearing	12-21-414	0.2	0.1
T. Spindle Bearing	12-21-415	1.1	0.5
U. Hanger Bearing	12-21-424	0.2	0.1
V. Compression Spring	12-21-416	0.4	0.2
W. Lock Nut	12-21-417	0.1	0.0
X. Inner Tube Cap	12-21-419	2.6	1.2
Y. Steel Ball	12-21-421	0.1	0.0
Z. Check Valve Body	12-21-423	0.4	0.2
6. Core Lifter Skirtless	25-665-226	0.1	0.0
7. Inner Tube Shoe	25-665-259	0.4	0.2
8. Retaining Ring	25-665-242	0.1	0.0
9. Landing Shoulder Ring	12-21-436	0.4	0.2
10. Inner Tube Stabilizer	25-641-192	0.3	0.1
11. Thread Protector	12-21-440	3.5	1.6

Optional Equipment (Not Shown)

12. Reaming Shell Sub (Plain)	25-641-218	3.0	1.4
13. Core Lifter Skirtless Hard Face	25-665-267	0.2	0.1
14. Inner Tube Assembly 5 ft (1.5m)	12-12-405	34.0	15.4
Inner Tube Assembly 10 ft (3.0m)	12-12-410	46.9	21.3
15. Triple Tube Conversion Kit 5 ft (1.5m)	12-19-405	9.7	4.4
Triple Tube Conversion Kit 10 ft (3.0m)	12-19-410	16.1	7.3

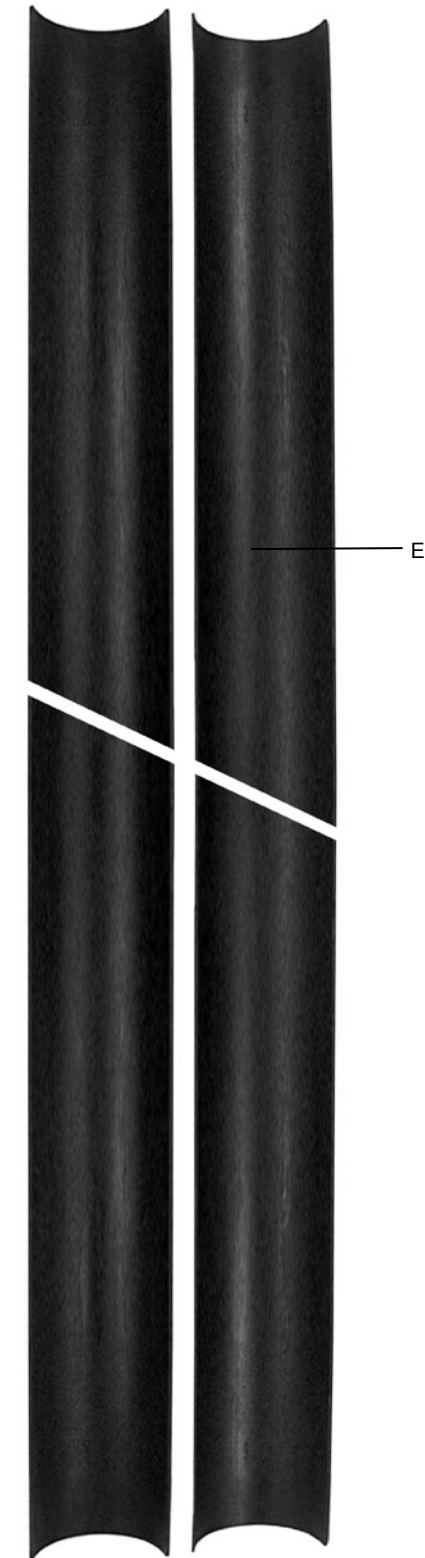
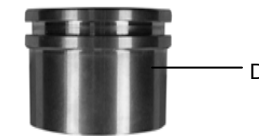
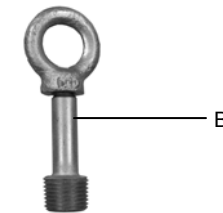
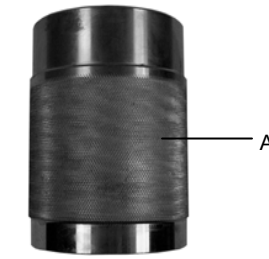
N3WL Core Barrel (Spring Latch)



N3WL Triple Tube Conversion Kit

Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft (1.5m) N3WL Triple Tube Conversion Kit	12-19-405	9.7	4.4
10 ft (3.0m) N3WL Triple Tube Conversion Kit	12-19-410	16.1	7.3
A. Adapter	14-21-437	2.4	1.1
B. Plug	14-21-338	0.3	0.1
C. O-Ring	14-21-426	0.0	0.0
D. Piston	14-21-427	0.6	0.3
E. 5 ft (1.5m) Steel Split Inner Tube	29-720-135	6.4	2.9
10 ft (3.0m) Steel Split Inner Tube	29-720-136	12.8	5.8

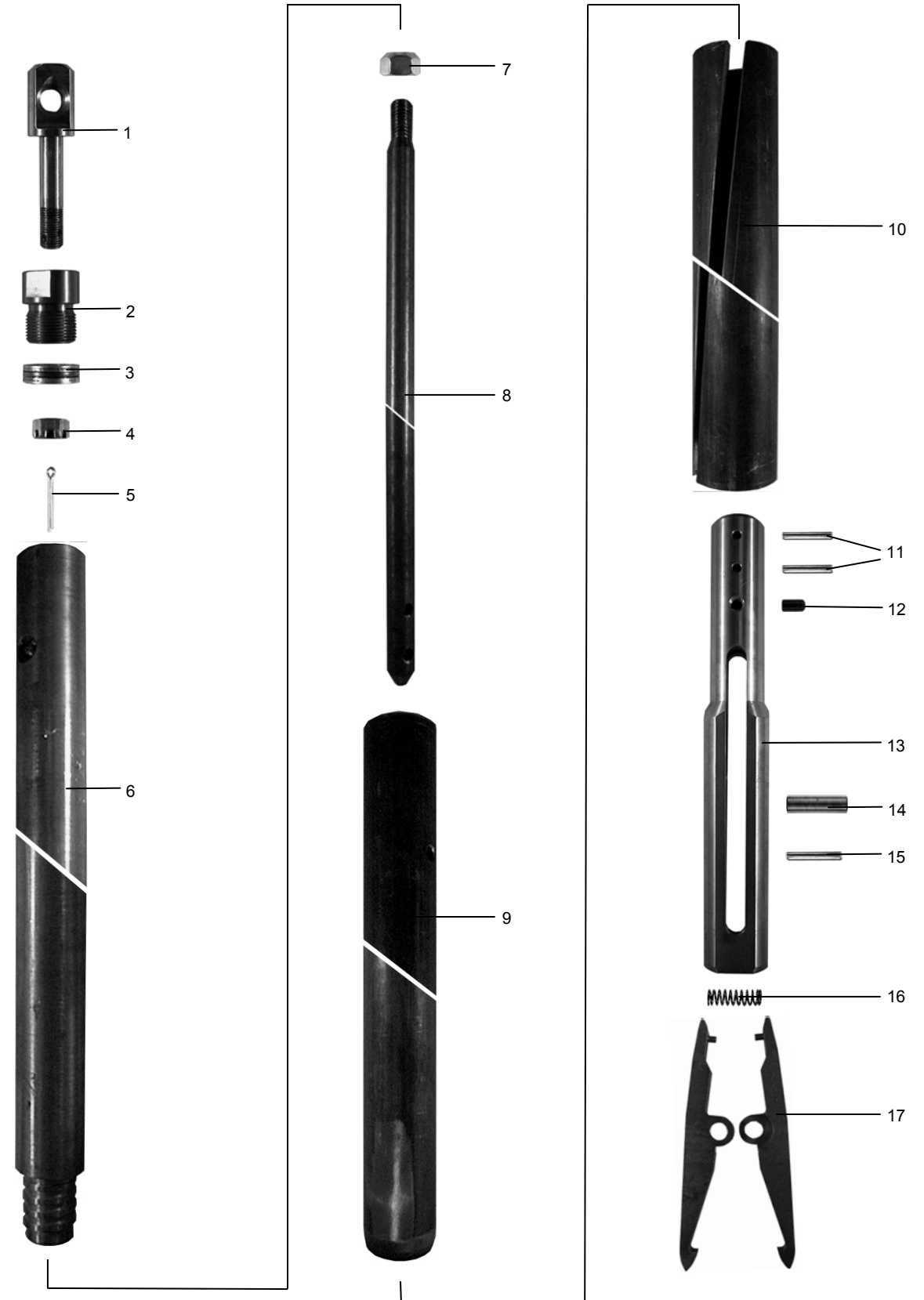
N3WL Triple Tube Conversion Kit



N3WL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
NWL Overshot Assembly (Items 1-17)	12-32-400	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-202	0.7	0.3
2. Cable Swivel Collar	12-31-203	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Lock Nut	12-31-408	0.1	2.9
8. Jar Staff	12-32-412	1.3	0.0
9. Jar Tube	12-32-421	6.3	0.6
10. Locking Sleeve	12-31-411	2.6	1.2
11. Roll Pin (2 Req)	12-32-422	0.1	0.0
12. Set Screw	12-32-314	0.0	0.0
13. Overshot Head	12-32-415	5.2	2.4
14. Pivot Pin	12-32-417	0.1	0.0
15. Roll Pin	12-32-418	0.1	0.0
16. Lifting Dog Spring	12-39-416	0.0	0.0
17. Lifting Dog (2 Req)	12-31-419	1.4	0.6

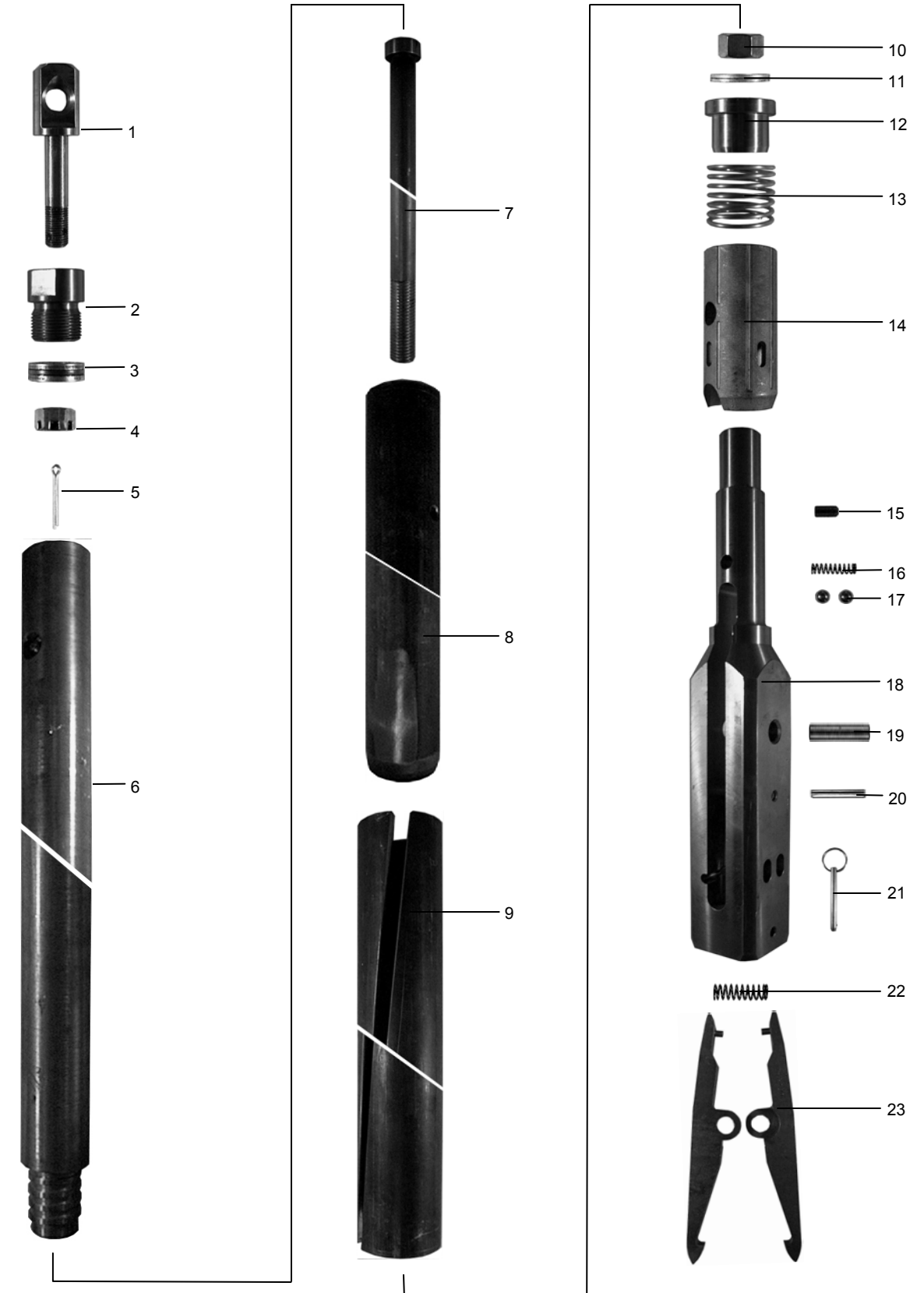
N3WL Core Barrel (Knuckle Head Overshot)



N3WL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
NWL Overshot Assembly (Items 1-23)	12-39-400	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-415	3.1	1.4
19. Pivot Pin	12-32-417	0.1	0.0
20. Roll Pin	12-32-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8

N3WL Core Barrel (Easy Lock Overshot)



HWL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
3.782 in.	2.500 in.	3.625 in.	3.062 in.	2.875 in.	2.625 in.
96.06 mm	63.50 mm	92.08 mm	77.77 mm	73.03 mm	66.68 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	12-02-505	145.0	65.8
10 ft Complete (3.0m)	12-02-510	214.5	97.3

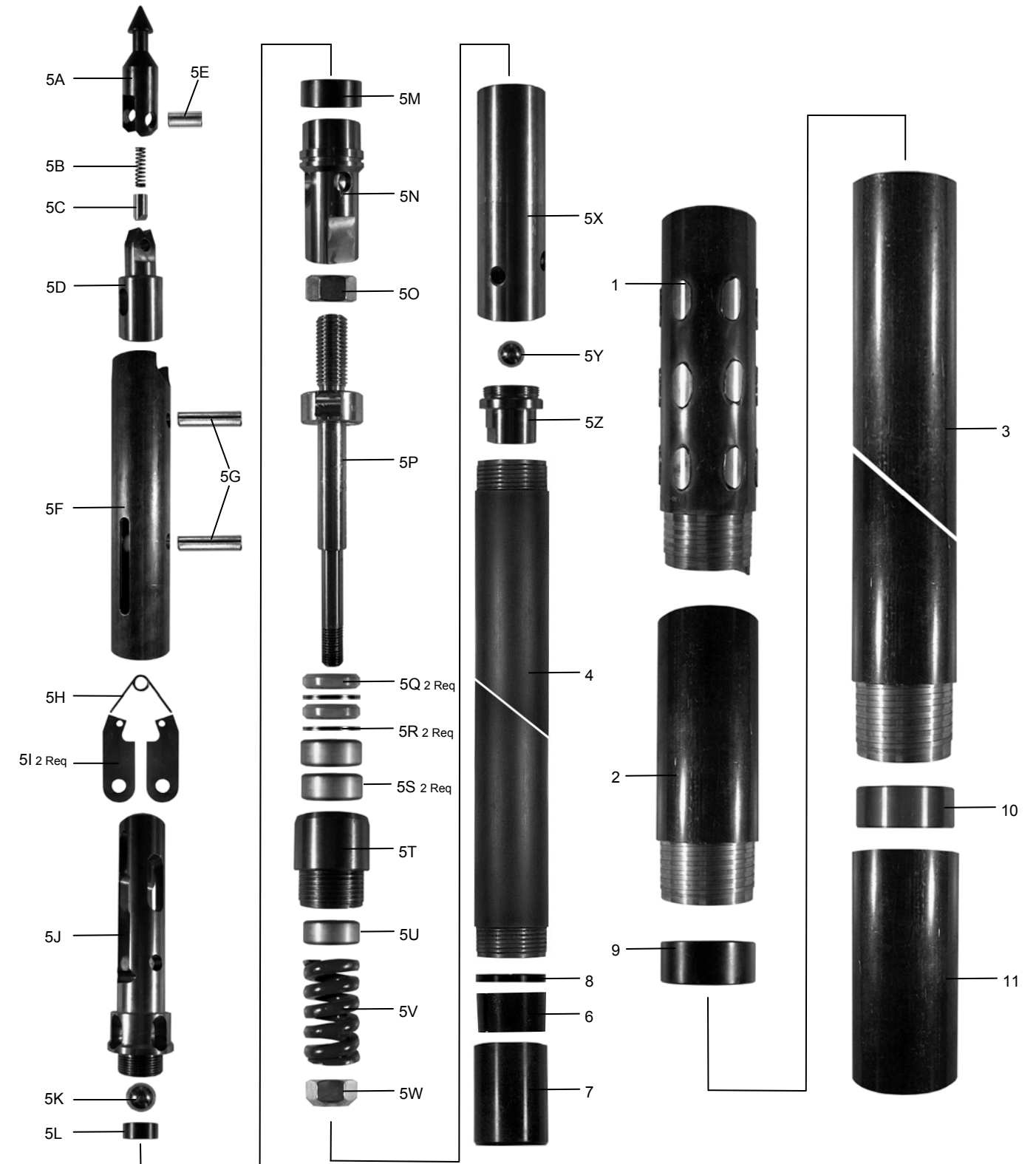
Spare Parts For Assembly

1. Locking Coupling Tanged HQWL Thrd	12-21-534	9.2	4.2
Locking Coupling HQWL Thrd	12-21-534-1	9.2	4.2
2. Adapter Coupling	12-21-535	5.5	2.5
3. Outer Tube 5 ft (1.5m)	12-21-545	60.5	27.4
Outer Tube 10 ft (3.0m)	12-21-550	110.9	50.3
4. Inner Tube 5 ft (1.5m)	25-642-067	19.1	8.7
Inner Tube 10 ft (3.0m)	25-642-075	38.2	17.3
5. Head Assembly	12-20-502	41.2	18.7
A. Spearhead Point	12-22-301	0.4	0.2
B. Compression Spring	12-22-302	0.1	0.0
C. Detent Plunger	12-22-303	0.1	0.0
D. Spearhead Base	12-22-504	2.2	1.0
E. Spiral Pin	12-22-305	0.1	0.0
F. Latch Retracting Case	12-22-506	4.0	1.8
G. Spring Pin (2 Required)	12-21-503	0.1	0.0
H. Latch Spring	12-21-504	0.1	0.0
I. Latch (2 Required)	12-21-505	0.5	0.2
J. Upper Latch Body	12-29-509-1	3.4	1.5
K. Steel Ball	12-29-374	0.1	0.0
L. Landing Indicator Bushing	12-29-380	0.1	0.0
M. Landing Shoulder	12-29-509-2	0.3	0.1
N. Lower Latch Body	12-29-509-3	2.1	1.0
O. Hex Nut	12-21-510	0.4	0.2
P. Spindle	12-21-511	3.1	1.4
Q. Shutoff Valve (2 Required)	12-21-512	0.1	0.0
R. Valve Adjusting Washer (2 Required)	12-21-513	0.2	0.1
S. Thrust Bearing (2 Required)	12-21-514	0.2	0.1
T. Spindle Bearing	12-21-515	1.2	0.5
U. Thrust Bearing	12-21-414	0.2	0.1
V. Compression Spring	12-21-516	0.4	0.2
W. Lock Nut	12-21-517	0.1	0.0
X. Inner Tube Cap	12-21-519	2.6	1.2
Y. Steel Ball	12-21-421	0.1	0.0
Z. Check Valve Body	12-21-423	0.4	0.2
6. Core Lifter Skirtless	25-095-282	0.3	0.1
7. Inner Tube Shoe	25-642-158	0.8	0.4
8. Retaining Ring	25-642-281	0.1	0.0
9. Landing Shoulder Ring	12-21-536	0.6	0.3
10. Inner Tube Stabilizer	25-642-174	0.2	0.1
11. Thread Protector	12-21-540	4.8	2.2

Optional Equipment (Not Shown)

12. Reaming Shell Sub (Plain)	25-642-208	4.9	2.2
13. Core Lifter Skirtless Hard Face	25-094-194	0.4	0.2
14. Inner Tube Assembly 5 ft (1.5m)	12-12-505	60.0	27.2
Inner Tube Assembly 10 ft (3.0m)	12-12-510	79.0	35.8

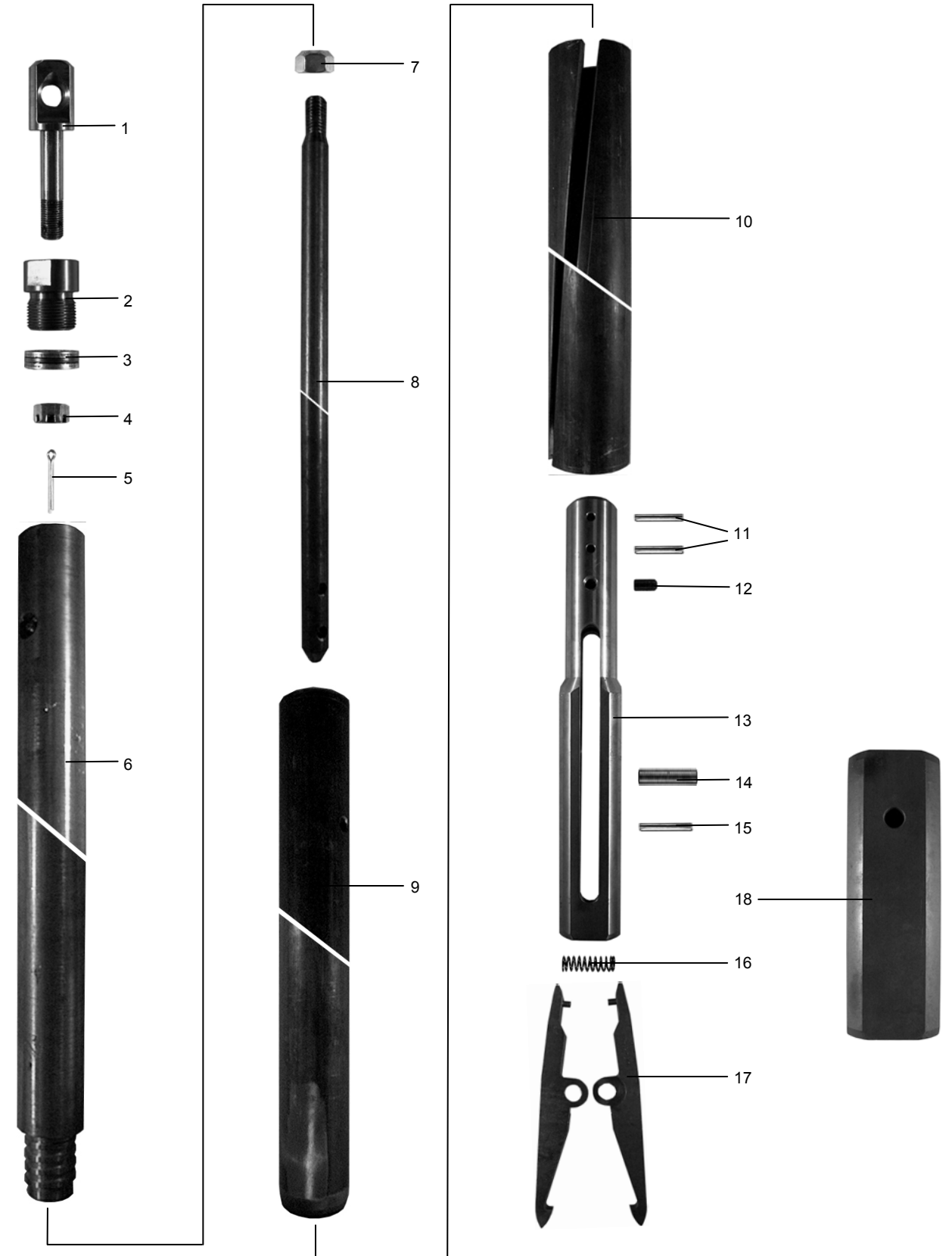
HWL Core Barrel (Spring Latch)



HWL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
HWL Overshot Assembly (Items 1-18)	12-32-500	37.2	16.9
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-202	0.7	0.3
2. Cable Swivel Collar	12-31-203	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Lock Nut	12-31-408	0.1	2.9
8. Jar Staff	12-32-412	1.3	0.0
9. Jar Tube	12-32-421	6.3	0.6
10. Locking Sleeve	12-31-411	2.6	1.2
11. Roll Pin (2 Req)	12-32-422	0.1	0.0
12. Set Screw	12-32-314	0.0	0.0
13. Overshot Head	12-32-415	5.2	2.4
14. Pivot Pin	12-32-517	0.1	0.0
15. Roll Pin	12-32-418	0.1	0.0
16. Lifting Dog Spring	12-39-416	0.0	0.0
17. Lifting Dog (2 Req)	12-31-419	1.4	0.6
18. Sleeve Adapter	12-32-520	3.9	1.8

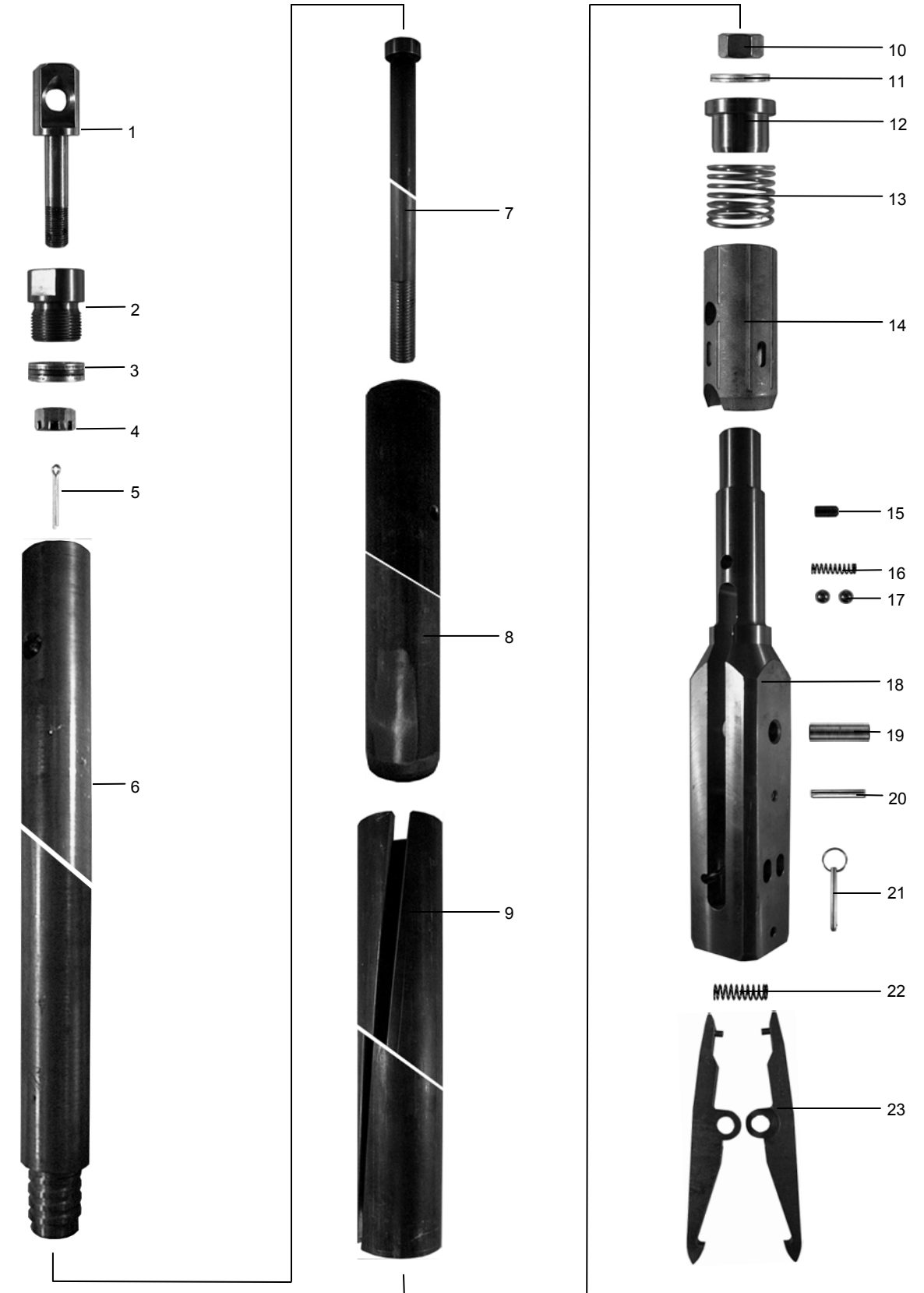
HWL Core Barrel (Knuckle Head Overshot)



HWL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
HWL Overshot Assembly (Items 1-23)	12-39-500	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-515	3.1	1.4
19. Pivot Pin	12-39-517	0.1	0.0
20. Roll Pin	12-31-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8

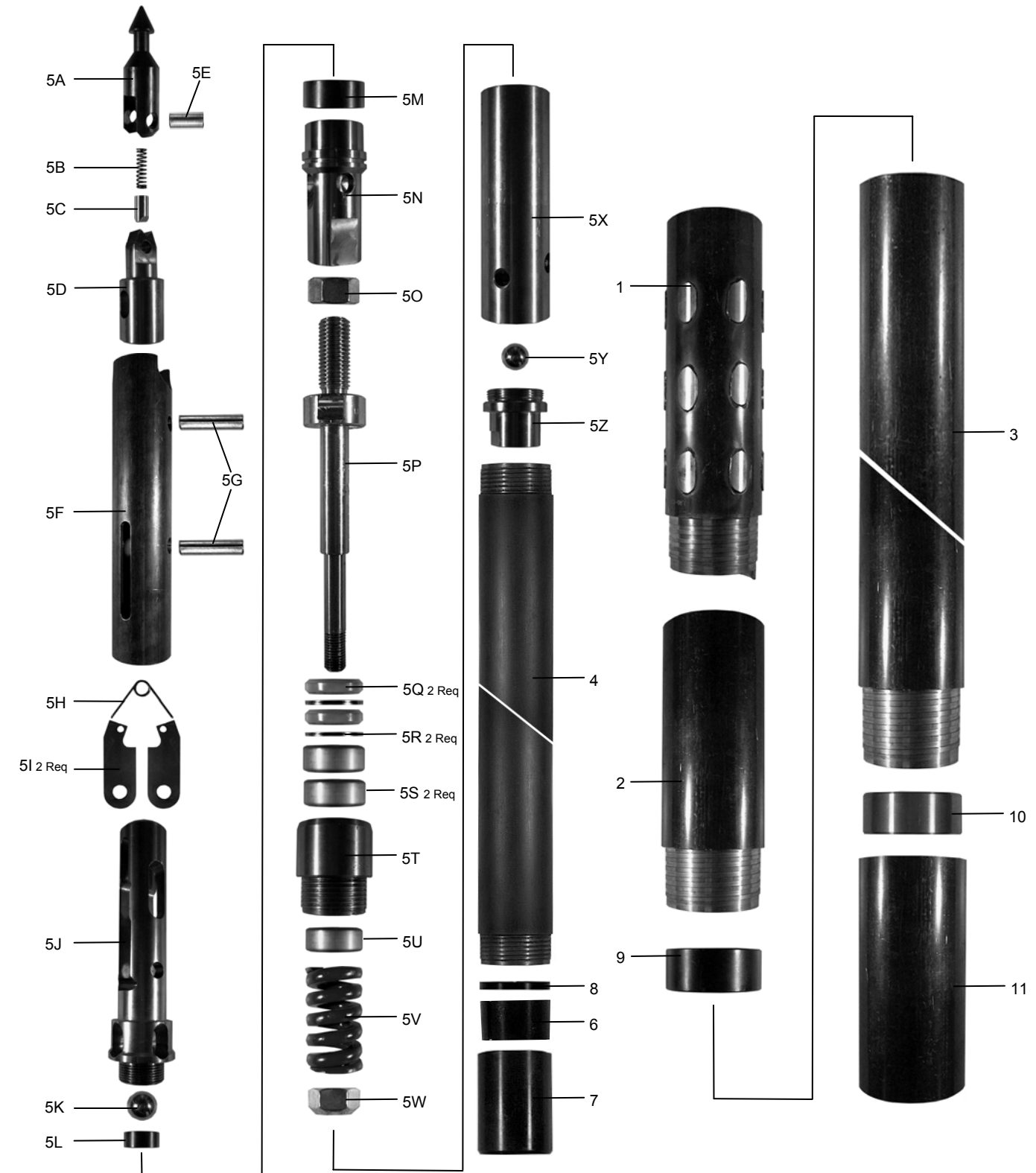
HWL Core Barrel (Easy Lock Overshot)



H3WL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
3.782 in.	2.400 in.	3.625 in.	3.062 in.	2.875 in.	2.625 in.
96.06 mm	63.50 mm	92.08 mm	77.77 mm	73.03 mm	66.68 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		14-02-505	145.0	65.8	
10 ft Complete (3.0m)		14-02-510	214.5	97.3	
Spare Parts For Assembly					
1. Locking Coupling Tanged HQWL Thrd		12-21-534	9.2	4.2	
Locking Coupling HQWL Thrd		12-21-534-1	9.2	4.2	
2. Adapter Coupling		12-21-535	5.5	2.5	
3. Outer Tube 5 ft (1.5m)		12-21-545	60.5	27.4	
Outer Tube 10 ft (3.0m)		12-21-550	110.9	50.3	
4. Inner Tube 5 ft (1.5m)		25-642-067	19.1	8.7	
Inner Tube 10 ft (3.0m)		25-642-075	38.2	17.3	
5. Head Assembly		12-20-502	41.2	18.7	
A. Spearhead Point		12-22-301	0.4	0.2	
B. Compression Spring		12-22-302	0.1	0.0	
C. Detent Plunger		12-22-303	0.1	0.0	
D. Spearhead Base		12-22-504	2.2	1.0	
E. Spiral Pin		12-22-305	0.1	0.0	
F. Latch Retracting Case		12-22-506	4.0	1.8	
G. Spring Pin (2 Required)		12-21-503	0.1	0.0	
H. Latch Spring		12-21-504	0.1	0.0	
I. Latch (2 Required)		12-21-505	0.5	0.2	
J. Upper Latch Body		12-29-509-1	3.4	1.5	
K. Steel Ball		12-29-374	0.1	0.0	
L. Landing Indicator Bushing		12-29-380	0.1	0.0	
M. Landing Shoulder		12-29-509-2	0.3	0.1	
N. Lower Latch Body		12-29-509-3	2.1	1.0	
O. Hex Nut		12-21-510	0.4	0.2	
P. Spindle		12-21-511	3.1	1.4	
Q. Shutoff Valve (2 Required)		12-21-512	0.1	0.0	
R. Valve Adjusting Washer (2 Required)		12-21-513	0.2	0.1	
S. Thrust Bearing (2 Required)		12-21-514	0.2	0.1	
T. Spindle Bearing		12-21-515	1.2	0.5	
U. Thrust Bearing		12-21-414	0.2	0.1	
V. Compression Spring		12-21-516	0.4	0.2	
W. Lock Nut		12-21-517	0.1	0.0	
X. Inner Tube Cap		12-21-519	2.6	1.2	
Y. Steel Ball		12-21-421	0.1	0.0	
Z. Check Valve Body		12-21-423	0.4	0.2	
6. Core Lifter Skirtless		25-095-233	0.3	0.1	
7. Inner Tube Shoe		29-705-234	0.8	0.4	
8. Retaining Ring		29-052-487	0.1	0.0	
9. Landing Shoulder Ring		12-21-536	0.6	0.3	
10. Inner Tube Stabilizer		25-642-174	0.2	0.1	
11. Thread Protector		12-21-540	4.8	2.2	
Optional Equipment (Not Shown)					
12. Reaming Shell Sub (Plain)		25-642-208	4.9	2.2	
13. Core Lifter Skirtless Hard Face		25-665-267	0.4	0.2	
14. Inner Tube Assembly 5 ft (1.5m)		12-12-505	60.0	27.2	
Inner Tube Assembly 10 ft (3.0m)		12-12-510	79.0	35.8	
15. Triple Tube Conversion Kit 5 ft (1.5m)		12-19-505	13.9	6.3	
Triple Tube Conversion Kit 10 ft (1.5m)		12-19-510	22.7	10.3	

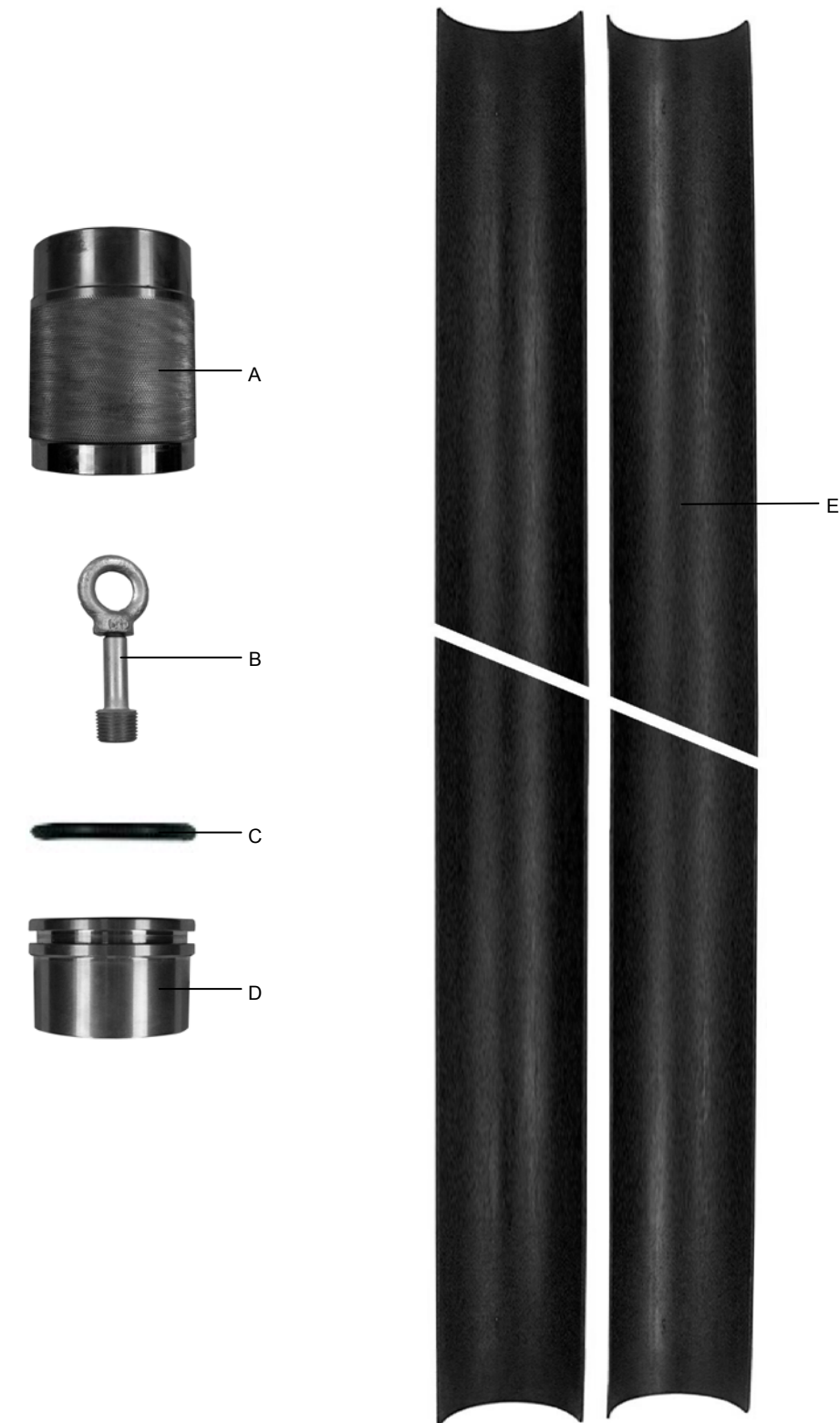
H3WL Core Barrel (Spring Latch)



H3WL Triple Tube Conversion Kit

Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft (1.5m) H3WL Triple Tube Conversion Kit	12-19-505	13.9	6.3
10 ft (3.0m) H3WL Triple Tube Conversion Kit	12-19-510	22.7	10.3
A. Adapter	14-21-537	3.5	1.6
B. Plug	14-21-338	0.3	0.1
C. O-Ring	14-21-526	0.0	0.0
D. Piston	14-21-527	1.3	0.6
E. 5 ft (1.5m) Steel Split Inner Tube	29-720-137	8.8	4.0
10 ft (3.0m) Steel Split Inner Tube	29-720-138	17.6	8.0

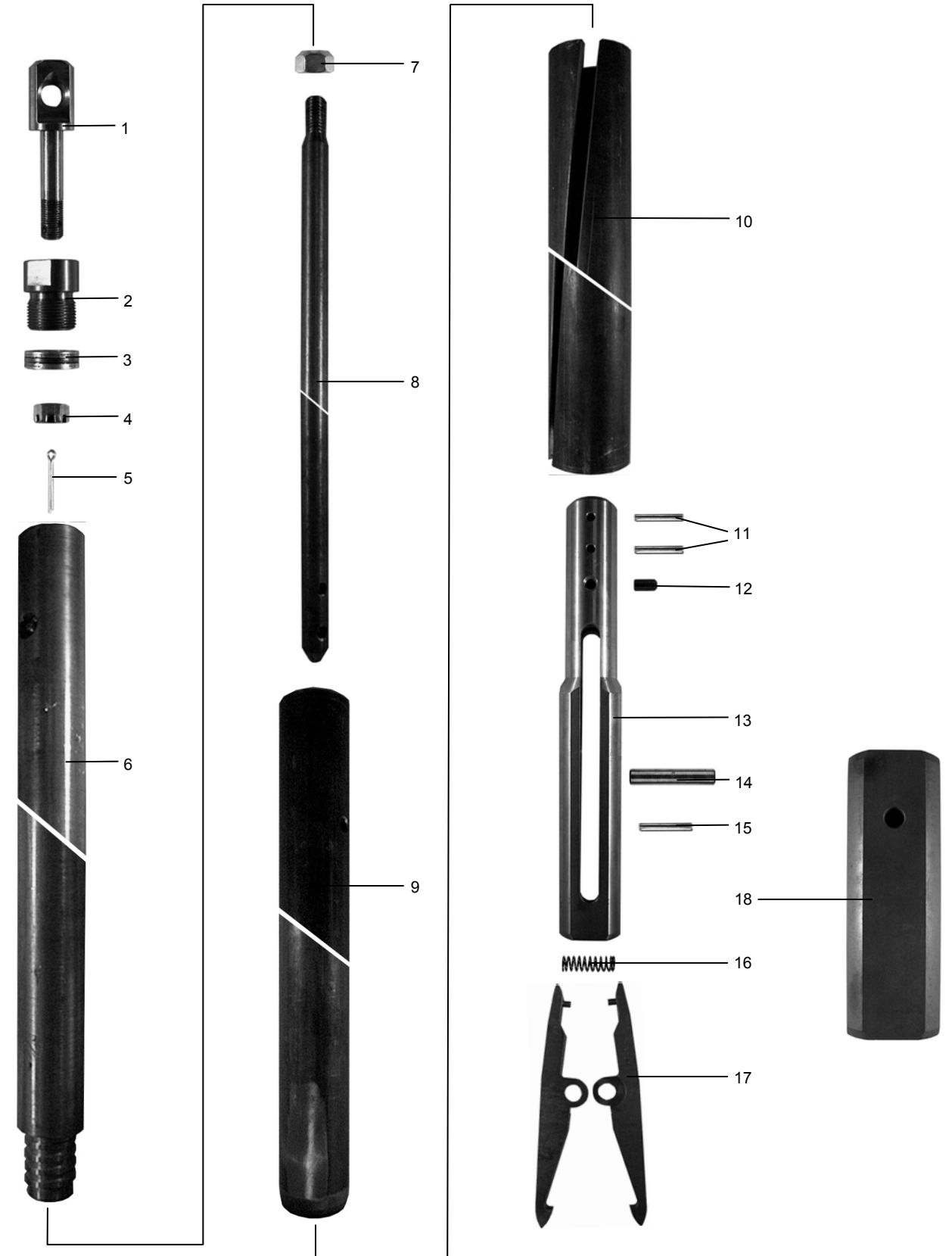
H3WL Triple Tube Conversion Kit



H3WL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
HWL Overshot Assembly (Items 1-18)	12-32-500	37.2	16.9
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-202	0.7	0.3
2. Cable Swivel Collar	12-31-203	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Lock Nut	12-31-408	0.1	2.9
8. Jar Staff	12-32-412	1.3	0.0
9. Jar Tube	12-32-421	6.3	0.6
10. Locking Sleeve	12-31-411	2.6	1.2
11. Roll Pin (2 Req)	12-32-422	0.1	0.0
12. Set Screw	12-32-314	0.0	0.0
13. Overshot Head	12-32-415	5.2	2.4
14. Pivot Pin	12-32-517	0.1	0.0
15. Roll Pin	12-32-418	0.1	0.0
16. Lifting Dog Spring	12-39-416	0.0	0.0
17. Lifting Dog (2 Req)	12-31-419	1.4	0.6
18. Sleeve Adapter	12-32-520	3.9	1.8

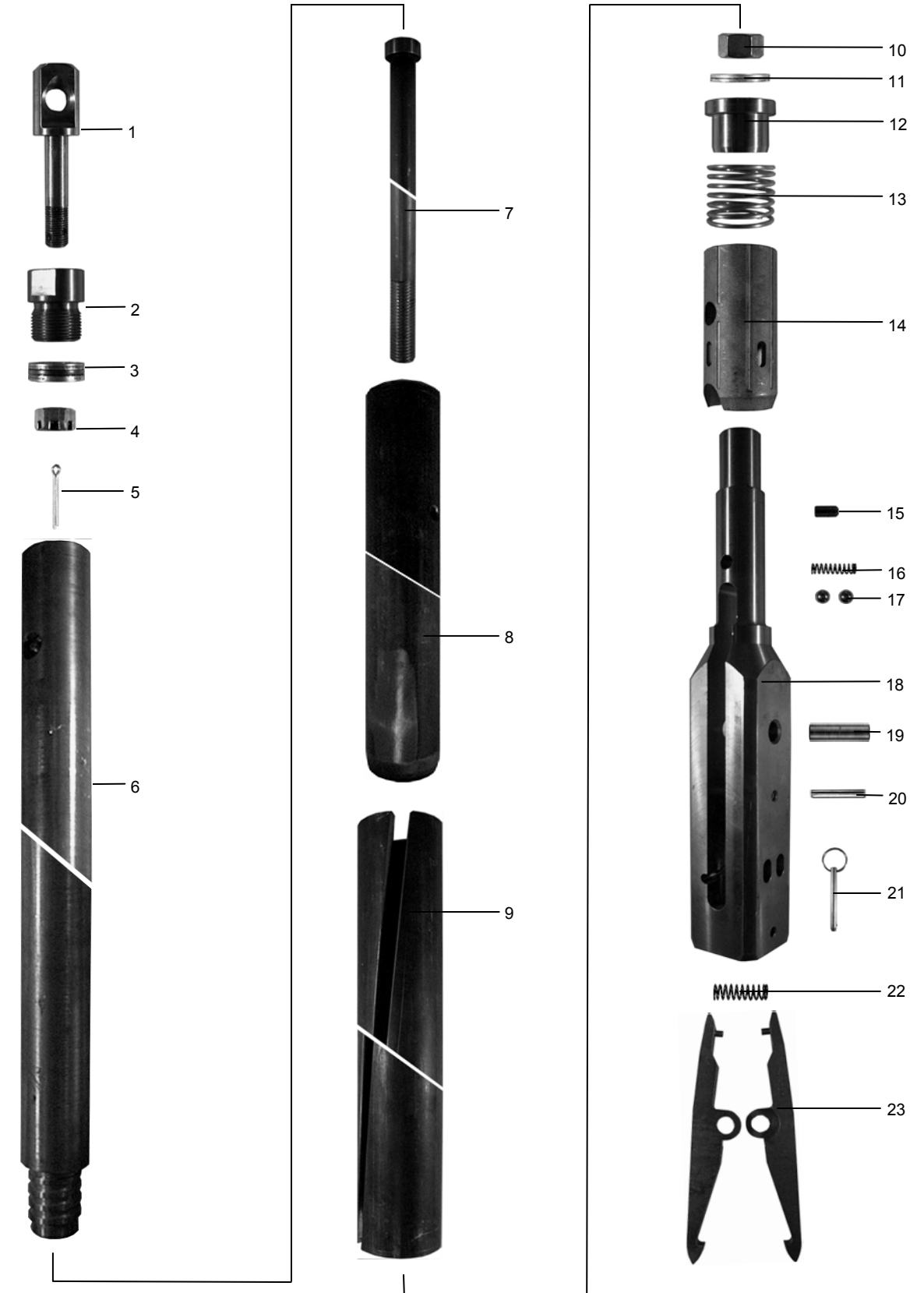
H3WL Core Barrel (Knuckle Head Overshot)



H3WL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
HWL Overshot Assembly (Items 1-23)	12-39-500	33.3	15.1
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-515	3.1	1.4
19. Pivot Pin	12-39-517	0.1	0.0
20. Roll Pin	12-31-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8

H3WL Core Barrel (Easy Lock Overshot)



PWL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
4.835 in.	3.345 in.	4.625 in.	4.062 in.	3.750 in.	3.500 in.
122.81 mm	84.96 mm	117.48 mm	103.17 mm	95.25 mm	88.90 mm

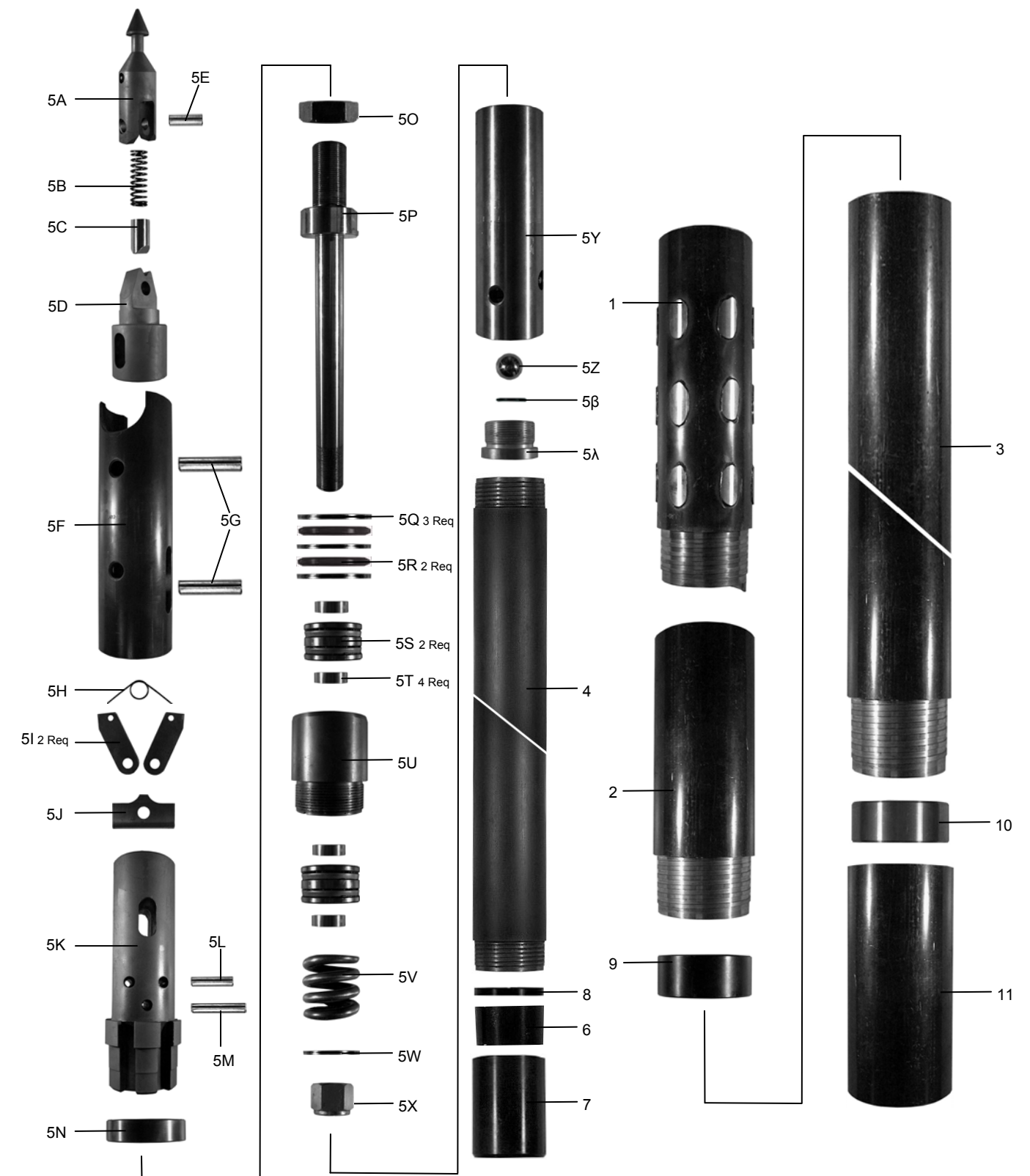
Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	12-02-605	232.0	105.2
10 ft Complete (3.0m)	12-02-610	325.0	147.4

Spare Parts For Assembly

1. Locking Coupling Tanged PQWL Thrd	12-21-634	9.4	4.3
Locking Coupling PQWL Thrd	12-21-634-1	9.4	4.3
2. Adapter Coupling	12-21-635	6.4	2.9
3. Outer Tube 5 ft (1.5m)	12-21-645	92.5	42
Outer Tube 10 ft (3.0m)	12-21-650	157.8	71.6
4. Inner Tube 5 ft (1.5m)	25-306-012	28.3	12.8
Inner Tube 10 ft (3.0m)	25-306-020	56.0	25.4
5. Head Assembly	12-20-602	87.5	39.7
A. Spearhead Point	12-22-601	3.6	1.6
B. Compression Spring	12-22-602	0.1	0.0
C. Detent Plunger	12-22-603	0.2	0.1
D. Spearhead Base	12-22-604	6.8	3.1
E. Spiral Pin	12-22-605	0.2	0.1
F. Latch Retracting Case	12-22-606	10.8	4.9
G. Spring Pin (2 Required)	12-21-603	0.1	0.0
H. Latch Spring	12-21-604	0.1	0.0
I. Latch (2 Required)	12-21-605	0.7	0.3
J. Latch Support	12-21-607	0.5	0.2
K. Latch Body With Landing Shoulder	12-21-609	17.7	8.0
L. Spring Pin	12-21-403	0.1	0.0
M. Spring Pin	12-21-503	0.1	0.0
N. Landing Shoulder	12-21-609A	0.8	0.4
O. Hex Nut	12-21-610	0.7	0.3
P. Spindle	12-21-611	8.9	4.0
Q. Valve Adjusting Washer (3 Required)	12-21-613	0.2	0.1
R. Shut Off Valve (2 Required)	12-21-612	0.1	0.0
S. Thrust Bearing (2 Required)	12-21-614	1.3	0.6
T. Thrust Bearing Spacer (4 Required)	12-21-614A	0.1	0.0
U. Spindle Bearing	12-21-615	8.0	3.6
V. Compression Spring	12-21-616	1.6	0.7
W. Spring Retaining Washer	12-21-616A	0.2	0.1
X. Lock Nut	12-21-617	0.7	0.3
Y. Inner Tube Cap	12-21-619	15.8	7.2
Z. Steel Ball	1-101-419	0.1	0.0
β. O-Ring	13-21-248	0.0	0.0
λ. Check Valve	12-21-623	1.1	0.5
6. Core Lifter Skirtless	25-095-481	0.5	0.2
7. Inner Tube Shoe	25-097-365	1.3	0.6
8. Retaining Ring	25-710-845	0.2	0.1
9. Landing Shoulder Ring	12-21-636	0.9	0.4
10. Inner Tube Stabilizer	25-290-057	0.9	0.4
11. Thread Protector	12-21-640	10.5	4.8
Optional Equipment (Not Shown)			
12. Reaming Shell Sub (Plain)	25-291-022	12.0	5.4
13. Core Lifter Skirtless Hard Face	25-094-129	0.6	0.3
14. Inner Tube Assembly 5 ft (1.5m)	12-12-605	116.0	52.4
Inner Tube Assembly 10 ft (3.0m)	12-12-610	142.0	64.4

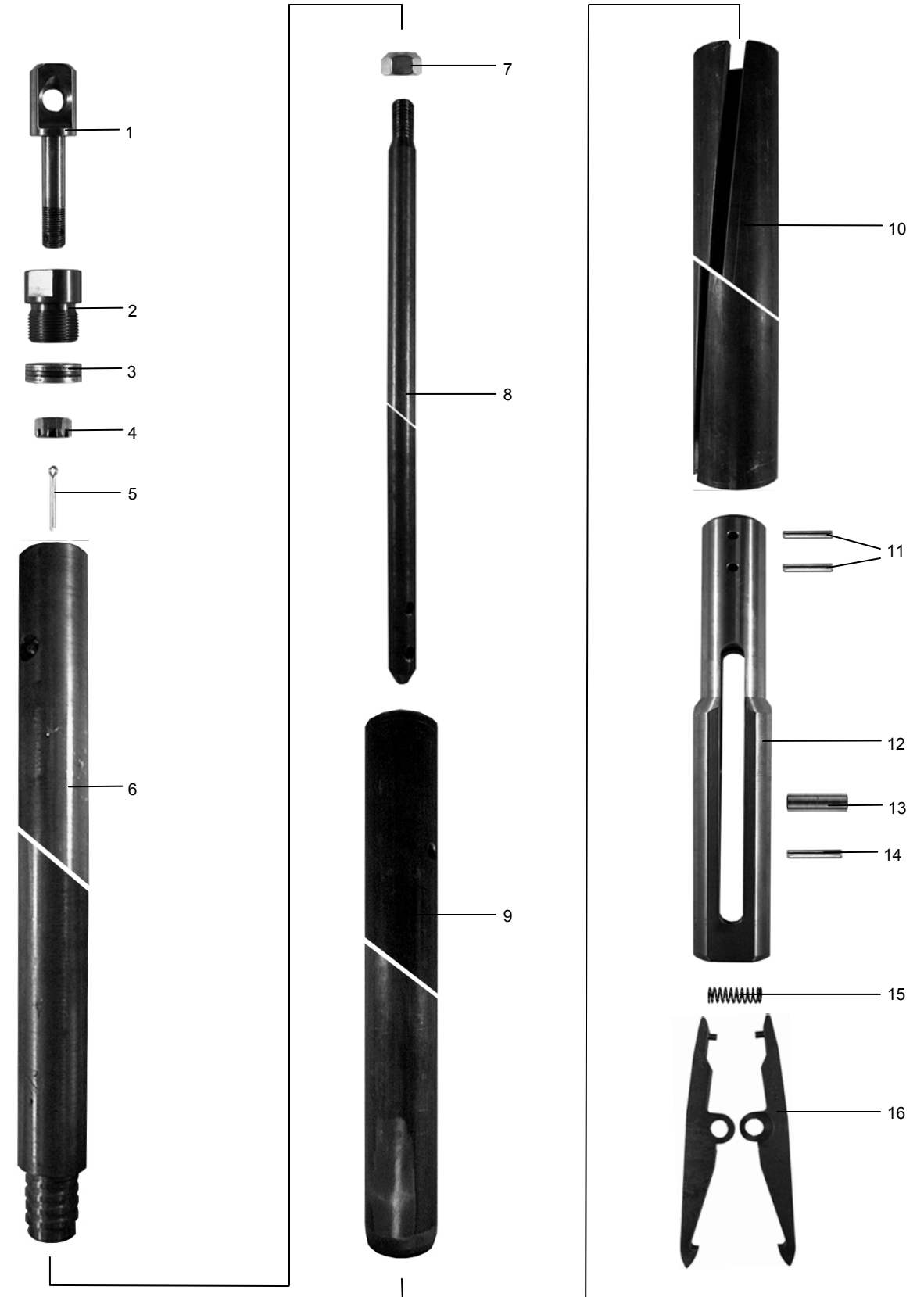
PWL Core Barrel (Spring Latch)



PWL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
PWL Overshot Assembly (Items 1-16)	12-32-600	93.2	42.3
Cable Swivel Assyembly (Items 1-5)	12-31-621	4.4	2.0
Spare Parts For Assembly			
1. Eye Bolt	12-31-602	1.8	0.8
2. Cable Swivel Collar	12-31-603	1.8	0.8
3. Thrust Bearing	12-21-314	0.3	0.1
4. Castle Nut	12-31-605	0.3	0.1
5. Cotter Pin	64-00-217	0.0	0.0
6. Cable Swivel Body	12-32-607	36.3	16.5
7. Lock Nut	12-31-608	0.3	0.1
8. Jar Staff	12-32-612	3.3	1.5
9. Jar Tube	12-32-621	15.8	7.2
10. Locking Sleeve	12-31-611	6.5	2.9
11. Roll Pin (2 Req)	12-32-622	0.3	0.1
12. Overshot Head	12-32-615	13.0	5.9
13. Pivot Pin	12-32-617	0.3	0.1
14. Roll Pin	12-32-623	0.3	0.1
15. Lifting Dog Spring	12-31-616	0.0	0.0
16. Lifting Dog (2 Req)	12-31-619	3.5	1.6

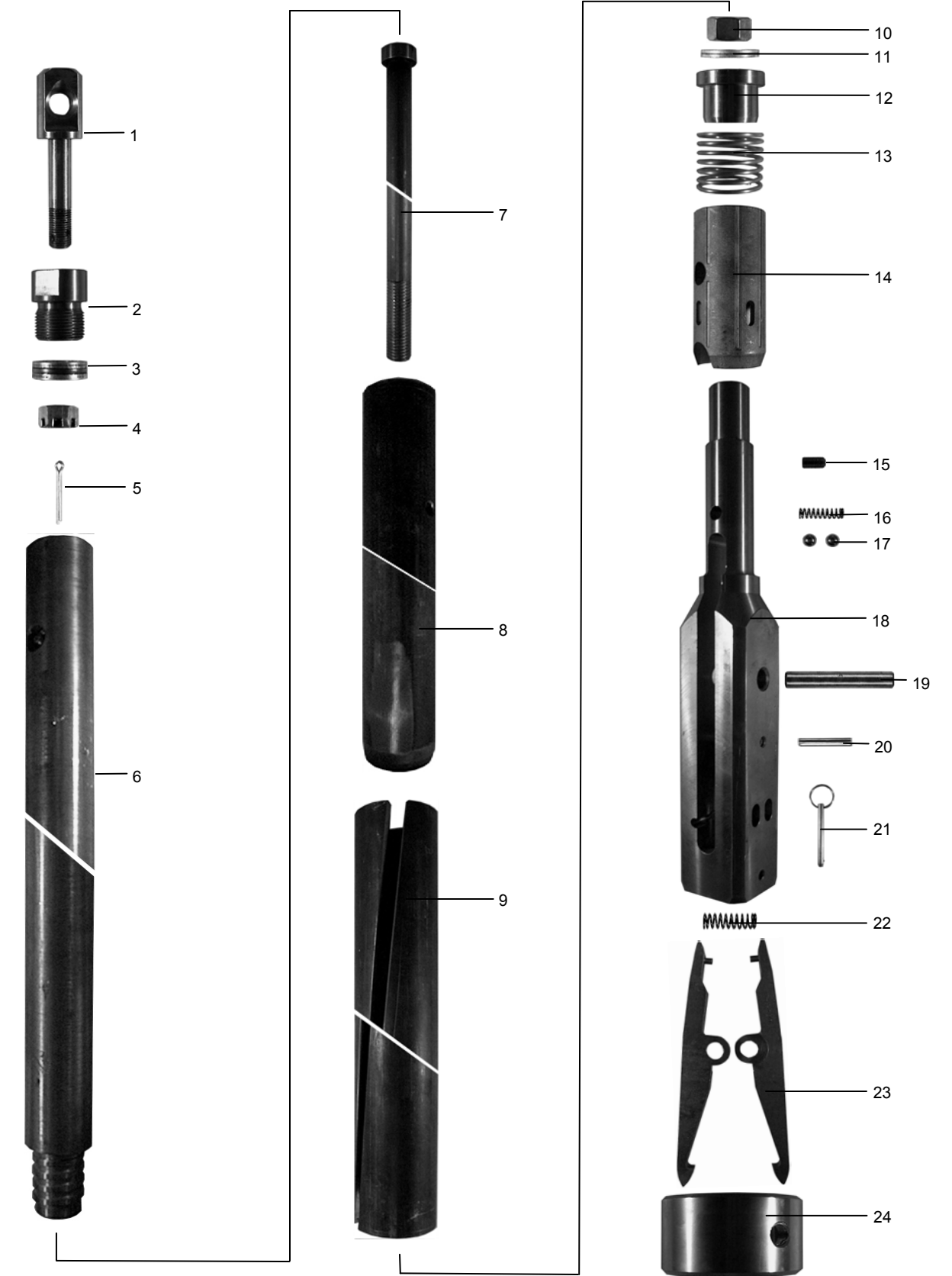
PWL Core Barrel (Knuckle Head Overshot)



PWL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
HWL Overshot Assembly (Items 1-24)	12-39-600	36.7	16.6
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-515	3.1	1.4
19. Pivot Pin	12-39-617	0.1	0.0
20. Roll Pin	12-31-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8
24. Sleeve	12-39-620	3.4	1.5

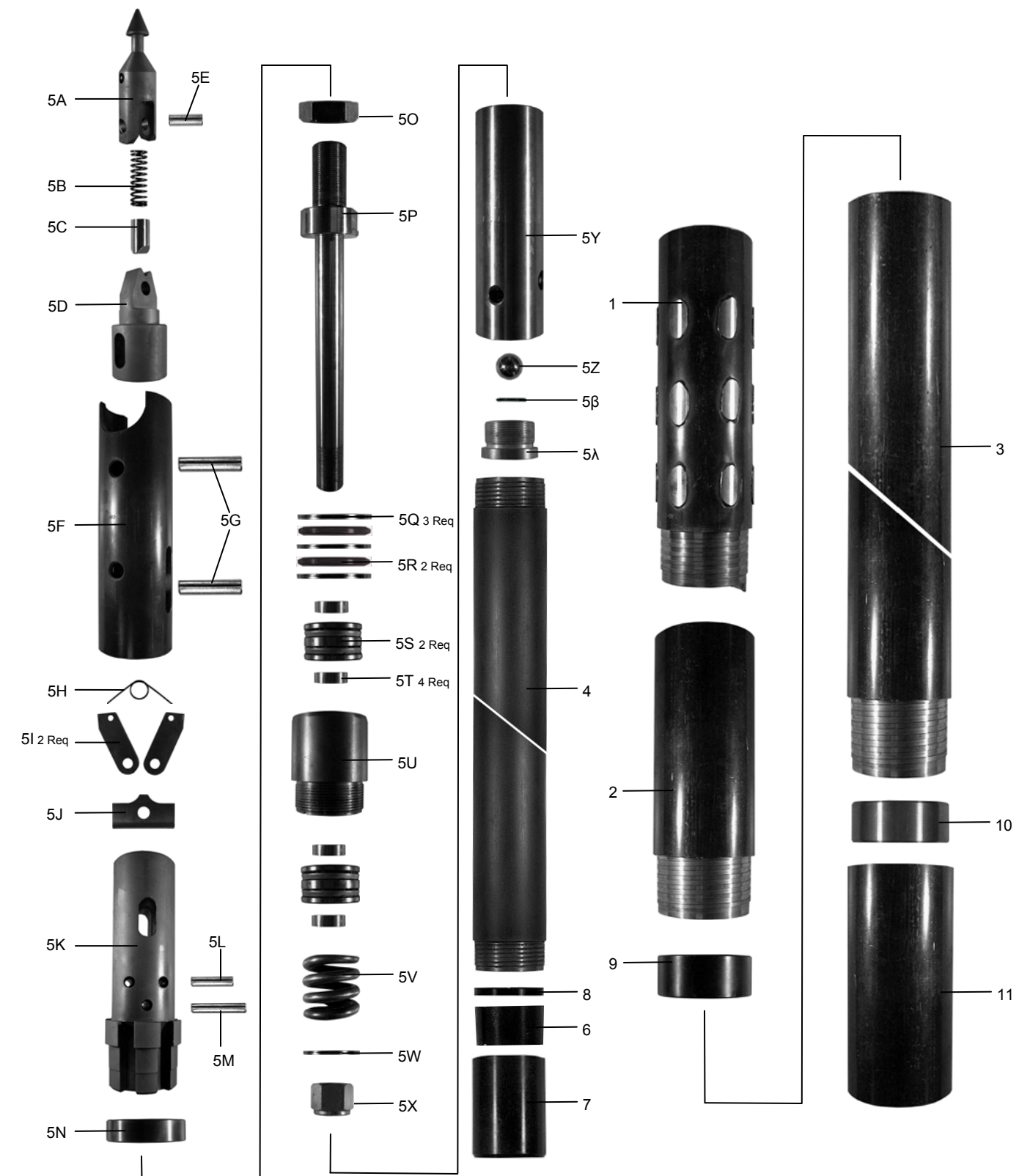
PWL Core Barrel (Easy Lock Overshot)



P3WL Core Barrel (Spring Latch)

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
4.835 in.	3.270 in.	4.625 in.	4.062 in.	3.750 in.	3.500 in.
122.81 mm	83.06 mm	117.48 mm	103.17 mm	95.25 mm	88.90 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	14-02-605	247.0	112.0		
10 ft Complete (3.0m)	14-02-610	345.0	156.5		
Spare Parts For Assembly					
1. Locking Coupling Tanged PQWL Thrd	12-21-634	9.4	4.3		
Locking Coupling PQWL Thrd	12-21-634-1	9.4	4.3		
2. Adapter Coupling	12-21-635	6.4	2.9		
3. Outer Tube 5 ft (1.5m)	12-21-645	92.5	42		
Outer Tube 10 ft (3.0m)	12-21-650	157.8	71.6		
4. Inner Tube 5 ft (1.5m)	25-306-012	28.3	12.8		
Inner Tube 10 ft (3.0m)	25-306-020	56.0	25.4		
5. Head Assembly	12-20-602	87.5	39.7		
A. Spearhead Point	12-22-601	3.6	1.6		
B. Compression Spring	12-22-602	0.1	0.0		
C. Detent Plunger	12-22-603	0.2	0.1		
D. Spearhead Base	12-22-604	6.8	3.1		
E. Spiral Pin	12-22-605	0.2	0.1		
F. Latch Retracting Case	12-22-606	10.8	4.9		
G. Spring Pin (2 Required)	12-21-603	0.1	0.0		
H. Latch Spring	12-21-604	0.1	0.0		
I. Latch (2 Required)	12-21-605	0.7	0.3		
J. Latch Support	12-21-607	0.5	0.2		
K. Latch Body With Landing Shoulder	12-21-609	17.7	8.0		
L. Spring Pin	12-21-403	0.1	0.0		
M. Spring Pin	12-21-503	0.1	0.0		
N. Landing Shoulder	12-21-609A	0.8	0.4		
O. Hex Nut	12-21-610	0.7	0.3		
P. Spindle	12-21-611	8.9	4.0		
Q. Valve Adjusting Washer (3 Required)	12-21-613	0.2	0.1		
R. Shut Off Valve (2 Required)	12-21-612	0.1	0.0		
S. Thrust Bearing (2 Required)	12-21-614	1.3	0.6		
T. Thrust Bearing Spacer (4 Required)	12-21-614A	0.1	0.0		
U. Spindle Bearing	12-21-615	8.0	3.6		
V. Compression Spring	12-21-616	1.6	0.7		
W. Spring Retaining Washer	12-21-616A	0.2	0.1		
X. Lock Nut	12-21-617	0.7	0.3		
Y. Inner Tube Cap	12-21-619	15.8	7.2		
Z. Steel Ball	1-101-419	0.1	0.0		
β. O-Ring	13-21-248	0.0	0.0		
λ. Check Valve	12-21-623	1.1	0.5		
6. Core Lifter Skirtless	25-095-290	0.5	0.2		
7. Inner Tube Shoe	25-100-270	1.3	0.6		
8. Retaining Ring	25-720-058	0.2	0.1		
9. Landing Shoulder Ring	12-21-636	0.9	0.4		
10. Inner Tube Stabilizer	25-290-057	0.9	0.4		
11. Thread Protector	12-21-640	10.5	4.8		
Optional Equipment (Not Shown)					
12. Reaming Shell Sub (Plain)	25-291-022	12.0	5.4		
13. Core Lifter Skirtless Hard Face	25-094-129	0.6	0.3		
14. Inner Tube Assembly 5 ft (1.5m)	12-12-605	116.0	52.4		
Inner Tube Assembly 10 ft (3.0m)	12-12-610	142.0	64.4		
15. Triple Tube Conversion Kit 5 ft (1.5m)	12-19-605	18.8	8.5		
Triple Tube Conversion Kit 10 ft (3.0m)	12-19-610	29.1	13.2		

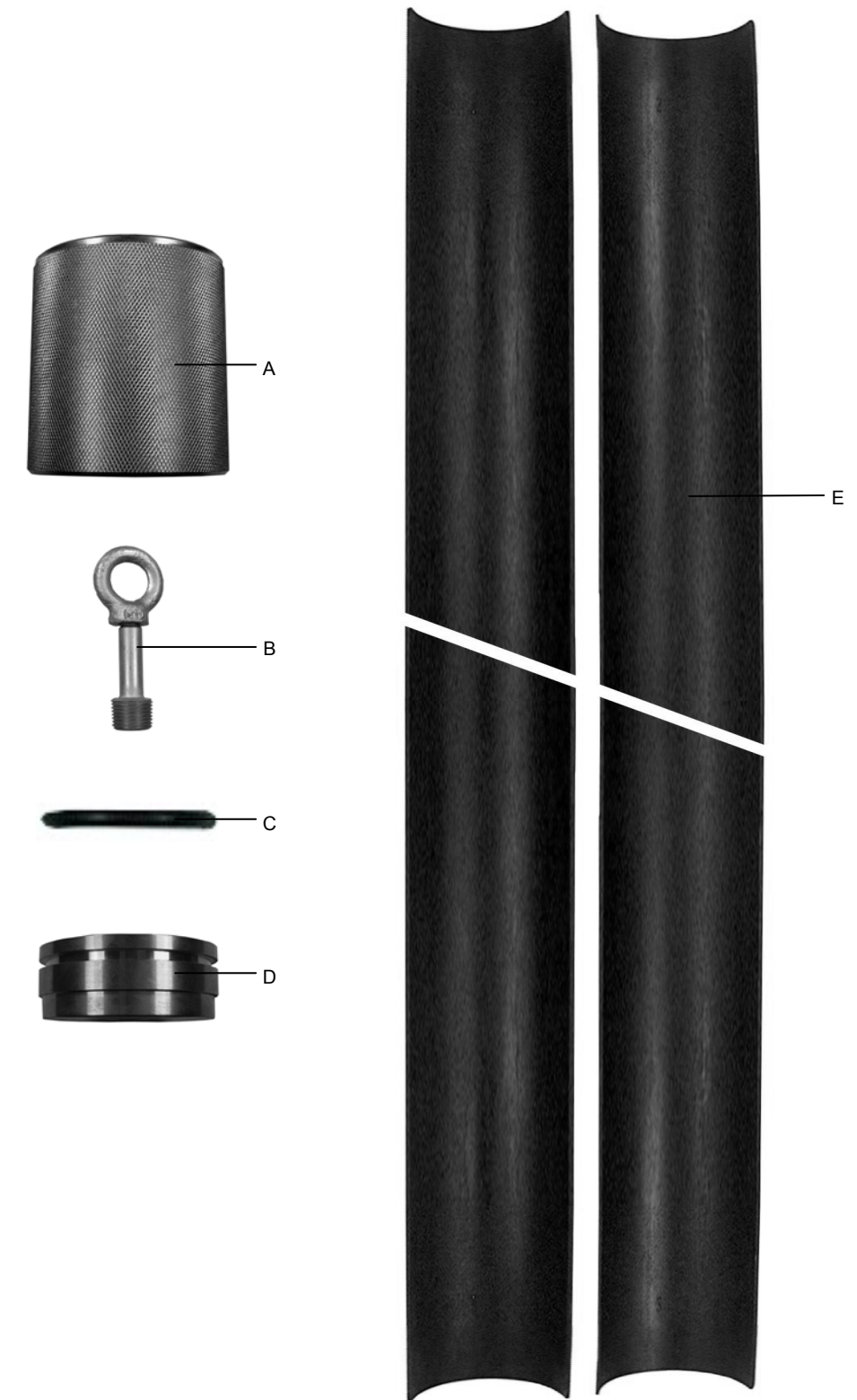
P3WL Core Barrel (Spring Latch)



P3WL Triple Tube Conversion Kit

Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft (1.5m) P3WL Triple Tube Conversion Kit	12-19-605	18.8	8.5
10 ft (3.0m) P3WL Triple Tube Conversion Kit	12-19-610	29.1	13.2
A. Adapter	14-21-637	6.1	2.8
B. Plug	14-21-338	0.3	0.1
C. O-Ring	14-21-626	0.0	0.0
D. Piston	14-21-627	2.1	1.0
E. 5 ft (1.5m) Steel Split Inner Tube	29-720-175	10.3	4.7
10 ft (3.0m) Steel Split Inner Tube	29-720-176	20.6	9.4

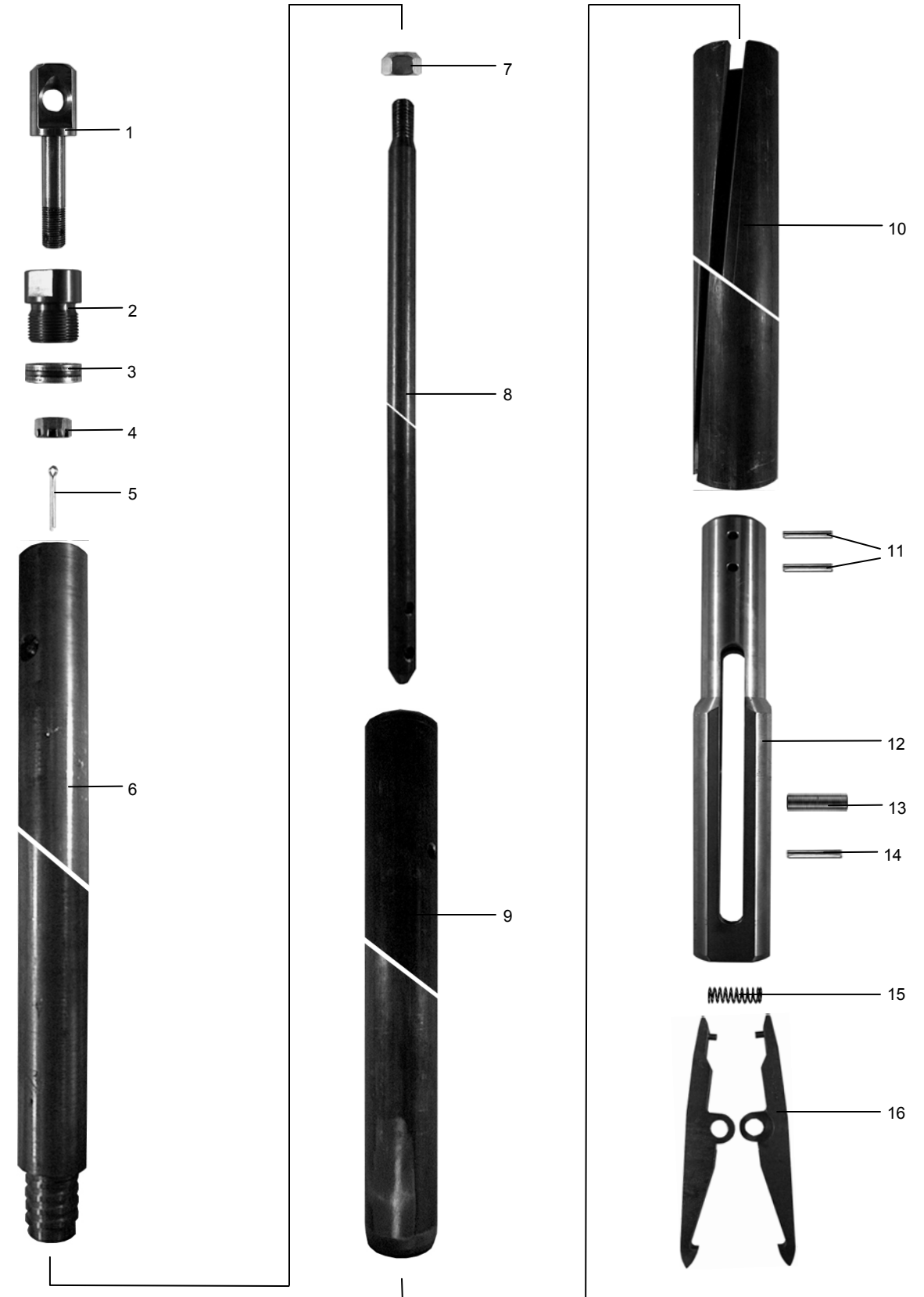
P3WL Triple Tube Conversion Kit



P3WL Core Barrel

Knuckle Head Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
PWL Overshot Assembly (Items 1-16)	12-32-600	93.2	42.3
Cable Swivel Assyembly (Items 1-5)	12-31-621	4.4	2.0
Spare Parts For Assembly			
1. Eye Bolt	12-31-602	1.8	0.8
2. Cable Swivel Collar	12-31-603	1.8	0.8
3. Thrust Bearing	12-21-314	0.3	0.1
4. Castle Nut	12-31-605	0.3	0.1
5. Cotter Pin	64-00-217	0.0	0.0
6. Cable Swivel Body	12-32-607	36.3	16.5
7. Lock Nut	12-31-608	0.3	0.1
8. Jar Staff	12-32-612	3.3	1.5
9. Jar Tube	12-32-621	15.8	7.2
10. Locking Sleeve	12-31-611	6.5	2.9
11. Roll Pin (2 Req)	12-32-622	0.3	0.1
12. Overshot Head	12-32-615	13.0	5.9
13. Pivot Pin	12-32-617	0.3	0.1
14. Roll Pin	12-32-623	0.3	0.1
15. Lifting Dog Spring	12-31-616	0.0	0.0
16. Lifting Dog (2 Req)	12-31-619	3.5	1.6

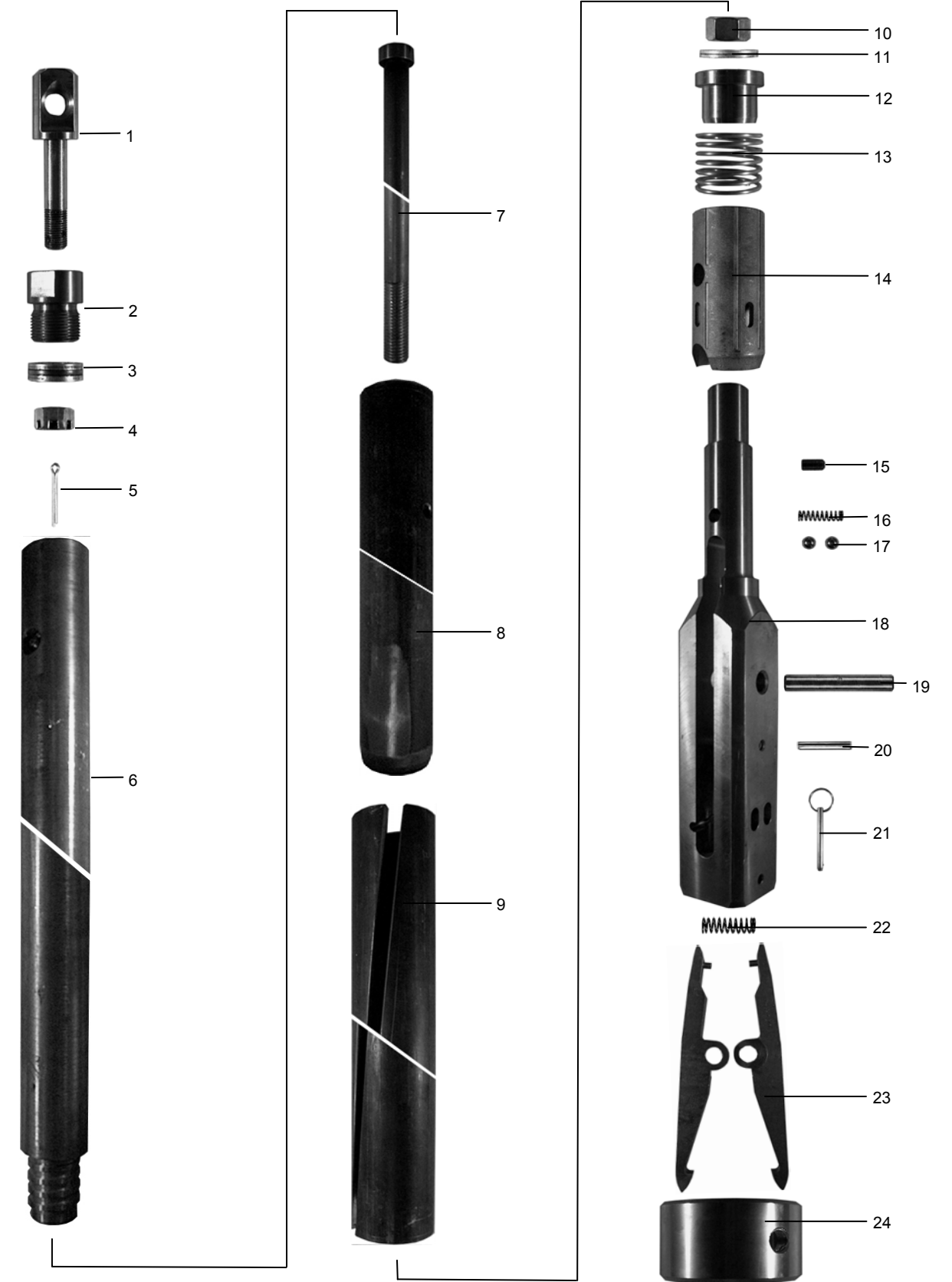
P3WL Core Barrel (Knuckle Head Overshot)



P3WL Core Barrel

Easy Lock Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
HWL Overshot Assembly (Items 1-24)	12-39-600	36.7	16.6
Cable Swivel Assyembly (Items 1-5)	12-31-221	1.6	0.7
Spare Parts For Assembly			
1. Eye Bolt	12-31-201	0.7	0.3
2. Cable Swivel Collar	12-31-202	0.7	0.3
3. Thrust Bearing	12-31-204	0.1	0.0
4. Castle Nut	12-31-205	0.1	0.0
5. Cotter Pin	12-31-206	0.0	0.0
6. Cable Swivel Body	12-32-407	14.5	6.6
7. Jar Staff	12-39-412	2.3	1.0
8. Jar Tube	12-39-421	6.3	2.9
9. Locking Sleeve	12-31-411	2.6	1.2
10. Hex Nut	12-39-408	0.1	0.0
11. Lock Washer Set		0.1	0.0
12. Cap	12-39-407	0.8	0.4
13. Spring	12-39-413	0.1	0.0
14. Sleeve	12-39-514	1.3	0.6
15. Set Screw	12-39-314	0.1	0.0
16. Compression Spring	12-31-316	0.1	0.0
17. Ball (2 Req)	12-39-327	0.0	0.0
18. Overshot Head	12-39-515	3.1	1.4
19. Pivot Pin	12-39-617	0.1	0.0
20. Roll Pin	12-31-418	0.1	0.0
21. Locking Pin	12-39-329	0.1	0.0
22. Compression Spring	12-39-416	0.1	0.1
23. Lifting Dog (2 Req)	12-31-419	1.4	0.8
24. Sleeve	12-39-620	3.4	1.5

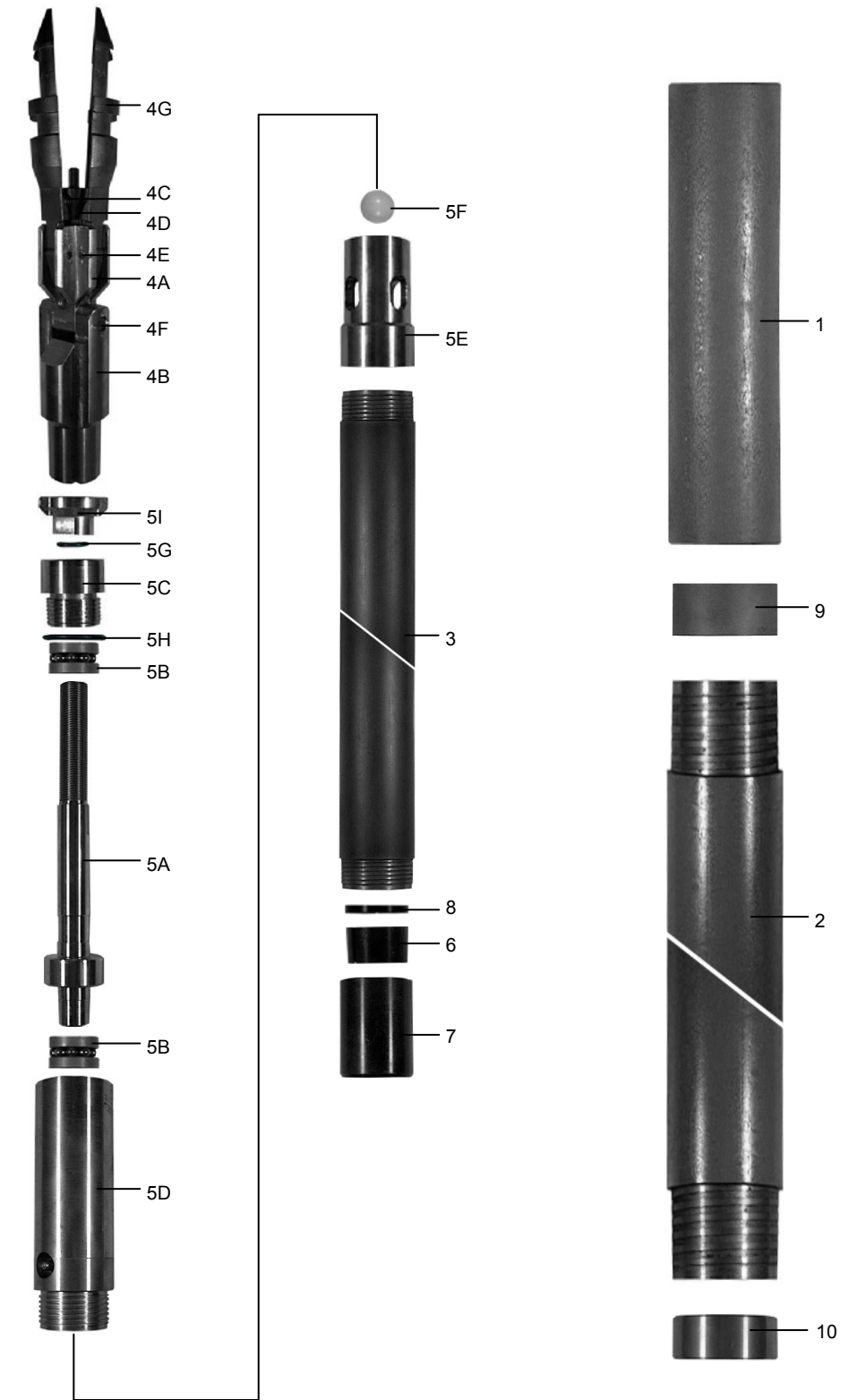
P3WL Core Barrel (Easy Lock Overshot)



CN Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.875 in.	2.875 in.	2.375 in.	2.187 in.	1.964 in.
75.82 mm	47.63 mm	73.03 mm	60.33 mm	55.55 mm	49.89 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-641-010	78.0	35.4		
10 ft Complete (3.0m)	25-641-028	126.1	57.2		
5 ft Complete (1.5m) Split Inner Tube	25-641-622	78.0	35.4		
10 ft Complete (3.0m) Split Inner Tube	25-641-630	126.0	57.2		
Spare Parts For Assembly					
1. Locking Coupling NQWL Thread	25-641-184	8.5	3.9		
Locking Coupling NXWL Thread	25-641-185	8.5	3.9		
2. Outer Tube 5 ft (1.5m)	25-641-101	35.0	15.9		
Outer Tube 10 ft (3.0m)	25-641-119	70.0	31.8		
3. Inner Tube 5 ft (1.5m)	25-641-069	13.0	5.9		
Inner Tube 10 ft (3.0m)	25-641-077	26.0	11.8		
Split Inner Tube 5 ft (1.5m)	25-587-023	13.0	5.9		
Split Inner Tube 10 ft (3.0m)	25-587-015	26.0	11.8		
4. Latch Head Assembly	25-237-223	8.3	3.8		
A. Headbase (Top)	25-385-113	1.6	0.7		
B. Headbase (Bottom)	25-385-170	3.8	1.7		
C. Spring, Blue (Top)	06-014-765	0.2	0.1		
D. Spring, Red (Bottom)	06-014-799	0.2	0.1		
E. Pins (4 required)	06-019-103	0.1	0.0		
F. Pin	06-099-105	0.3	0.1		
G. Quad Latch	25-356-098	0.6	0.3		
5. Bearing Assembly	25-641-051	11.0	5.0		
A. Bearing Shaft	25-641-143	1.2	0.5		
B. Thrust Bearing (2 Required)	25-093-121	0.5	0.2		
C. Bearing Retainer	25-641-168	1.4	0.6		
D. Bearing Housing	25-641-200	3.0	1.4		
E. By-Pass Adapter	25-641-176	1.1	0.5		
F. By-Pass Ball	06-043-426	0.1	0.0		
G. O-Ring (Upper)	06-227-177	0.1	0.0		
H. O-Ring (Lower)	06-227-268	0.1	0.0		
I. Landing Shoulder Nut	25-430-059	0.8	0.3		
6. Core Lifter Skirtless	25-095-274	0.1	0.0		
7. Inner Tube Shoe	25-641-150	0.4	0.2		
8. Retaining Ring	25-641-291	0.1	0.0		
9. Landing Shoulder Ring	25-429-085	0.4	0.2		
10. Inner Tube Stabilizer	25-641-192	0.3	0.1		
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)	25-641-218	3.0	1.4		
12. Core Lifter Skirtless Hard Face	25-094-210	0.2	0.1		
13. Inner Tube Assembly 5 ft (1.5m)	25-641-259	31.0	14.1		
Inner Tube Assembly 10 ft (3.0m)	25-641-267	44.0	20.0		
Split Inner Tube Assembly 5 ft (1.5m)	25-641-911	31.0	14.1		
Split Inner Tube Assembly 10 ft (3.0m)	25-641-929	44.0	20.0		

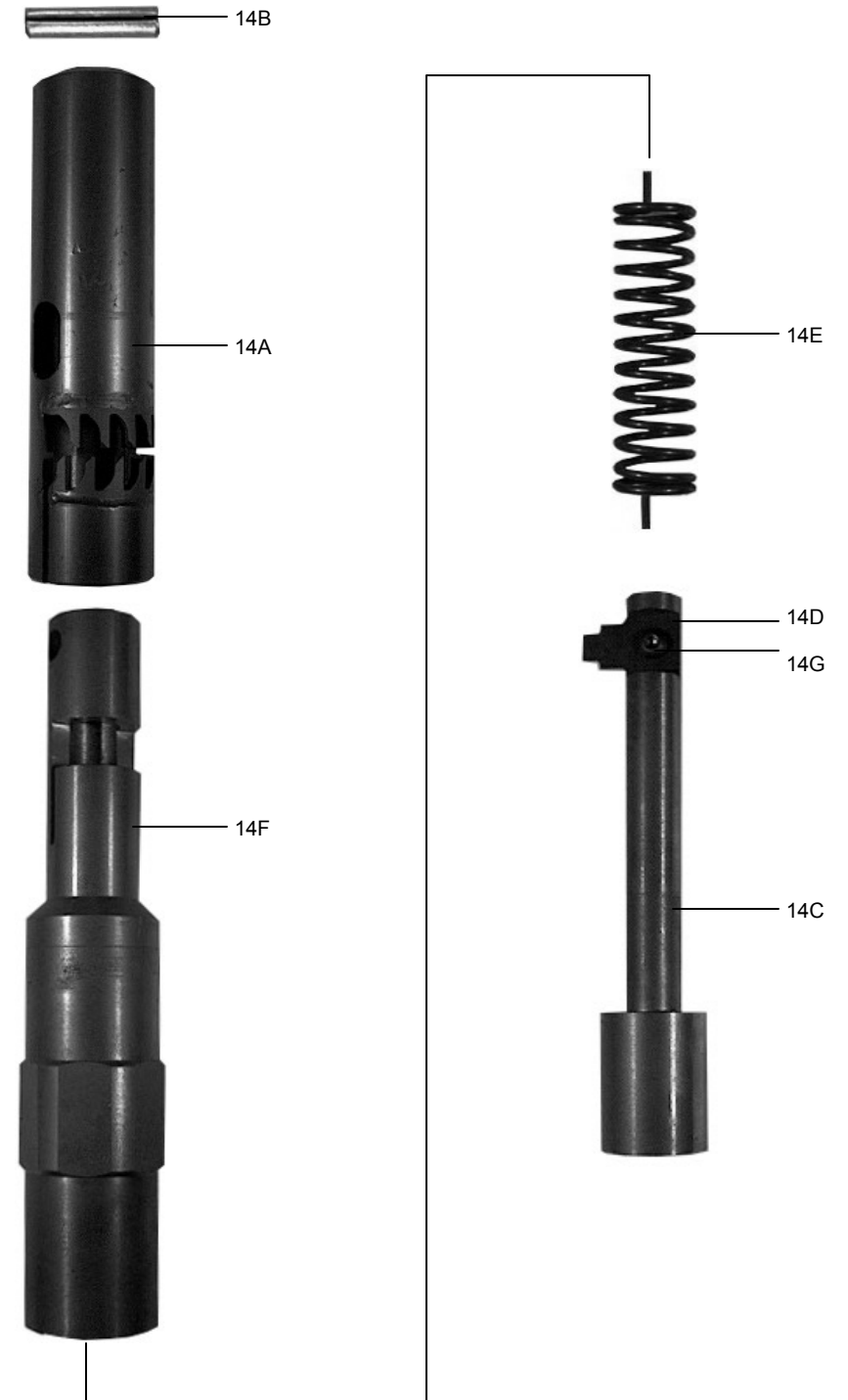
CN Wireline Core Barrel



CN Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
14. Overshot Assembly	25-469-032	8.8	4.0
A. Sleeve	25-549-023	2.9	1.3
B. Roll Pin	06-019-194	0.1	0.0
C. Plunger	25-551-029	1.2	0.5
D. Pawl	25-552-027	0.1	0.0
E. Spring	25-553-025	0.1	0.0
F. Retriever	25-554-023	4.5	2.0
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
15. Overshot Swivel Assembly	25-555-112	3.3	1.5
16. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
17. Positive Latch Lowering Tool	25-361-031	1.7	0.8
18. Loading Funnel NQWL Rod	25-364-027	4.2	1.9

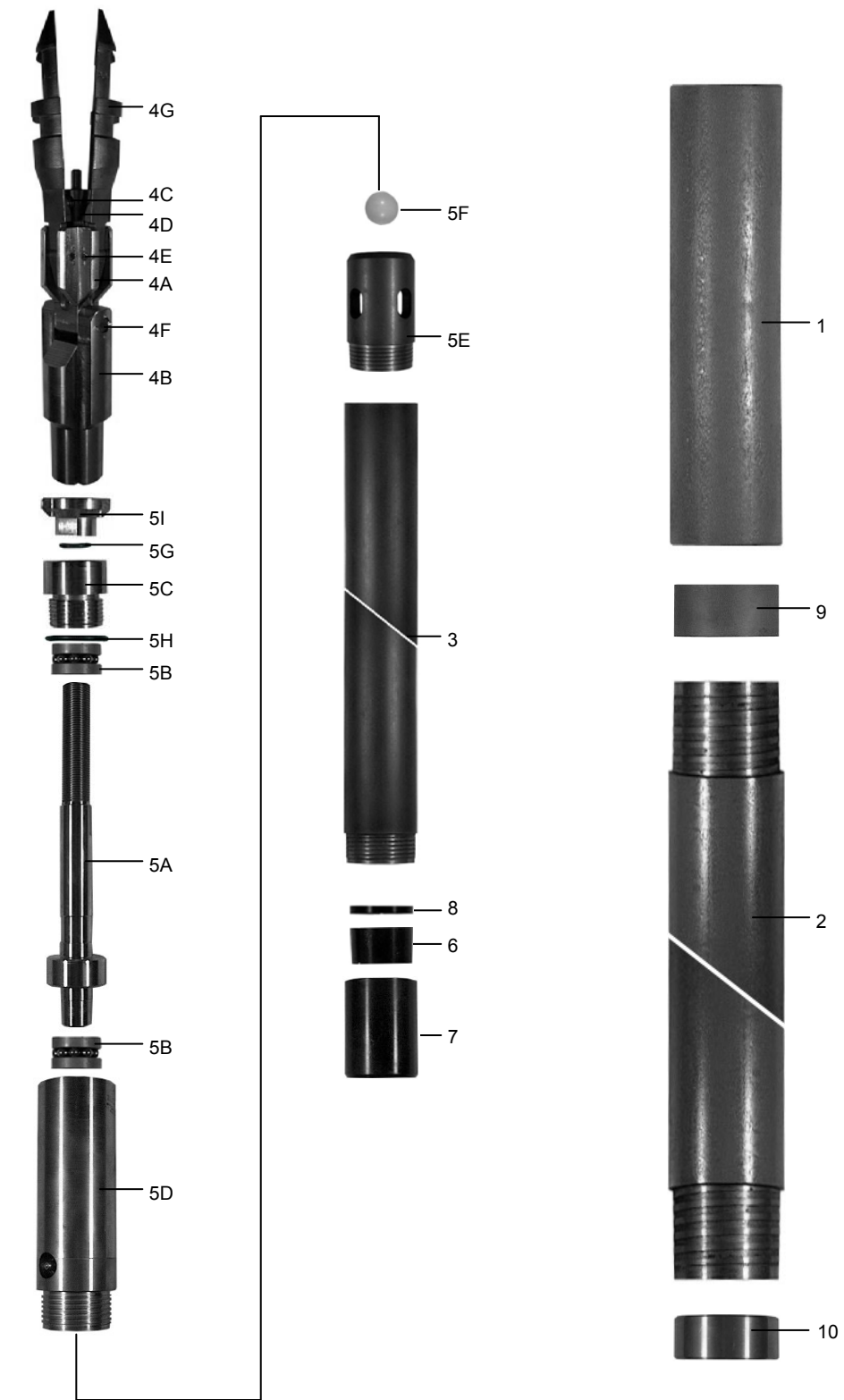
CN Wireline Core Barrel Overshot Assembly



CN2 Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.990 in.	2.875 in.	2.375 in.	2.250 in.	2.060 in.
75.82 mm	50.55 mm	73.03 mm	60.33 mm	57.15 mm	52.32 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-665-101	78.0	35.38		
10 ft Complete (3.0m)	25-665-028	126.1	57.20		
5 ft Complete (1.5m) Split Inner Tube	25-665-302	78.0	35.38		
10 ft Complete (3.0m) Split Inner Tube	25-665-303	126.0	57.15		
Spare Parts For Assembly					
1. Locking Coupling NQWL Thread	25-641-184	8.5	3.9		
Locking Coupling NXWL Thread	25-641-185	8.5	3.9		
2. Outer Tube 5 ft (1.5m)	25-641-101	35.5	15.9		
Outer Tube 10 ft (3.0m)	25-641-119	70.0	31.8		
3. Inner Tube 5 ft (1.5m)	25-665-135	13.0	5.9		
Inner Tube 10 ft (3.0m)	25-665-143	26.0	11.8		
Split Inner Tube 5 ft (1.5m)	25-665-306	13.0	5.9		
Split Inner Tube 10 ft (3.0m)	25-665-307	26.0	11.8		
4. Latch Head Assembly	25-237-223	8.3	3.8		
A. Headbase (Top)	25-385-113	1.6	0.7		
B. Headbase (Bottom)	25-385-170	3.8	1.7		
C. Spring, Blue (Top)	06-014-765	0.2	0.1		
D. Spring, Red (Bottom)	06-014-799	0.2	0.1		
E. Pins (4 required)	06-019-103	0.1	0.0		
F. Pin	06-099-105	0.3	0.1		
G. Quad Latch	25-356-098	0.6	0.3		
5. Bearing Assembly	25-665-234	11.0	5.0		
A. Bearing Shaft	25-641-143	1.2	0.5		
B. Thrust Bearing (2 Required)	25-093-121	0.5	0.2		
C. Bearing Retainer	25-641-168	1.4	0.6		
D. Bearing Housing	25-641-200	3.0	1.4		
E. By-Pass Adapter	25-665-176	1.1	0.5		
Split Inner Tube By-Pass Adapter	25-665-308	1.1	0.5		
F. By-Pass Ball	06-043-426	0.1	0.0		
G. O-Ring (Upper)	06-227-177	0.1	0.0		
H. O-Ring (Lower)	06-227-268	0.1	0.0		
I. Landing Shoulder Nut	25-665-200	0.8	0.4		
6. Core Lifter Skirtless	25-095-316	0.1	0.0		
7. Inner Tube Shoe	25-665-184	0.4	0.2		
8. Retaining Ring	25-665-192	0.1	0.0		
9. Landing Shoulder Ring	25-429-085	0.4	0.2		
10. Inner Tube Stabilizer	25-665-226	0.3	0.1		
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)	25-641-218	3.0	1.4		
12. Inner Tube Assembly 5 ft (1.5m)	25-665-051	31.0	14.1		
Inner Tube Assembly 10 ft (3.0m)	25-665-069	44.0	20.0		
Split Inner Tube Assembly 5 ft (1.5m)	25-665-304	31.0	14.1		
Split Inner Tube Assembly 10 ft (3.0m)	25-665-305	44.0	20.0		

CN2 Wireline Core Barrel

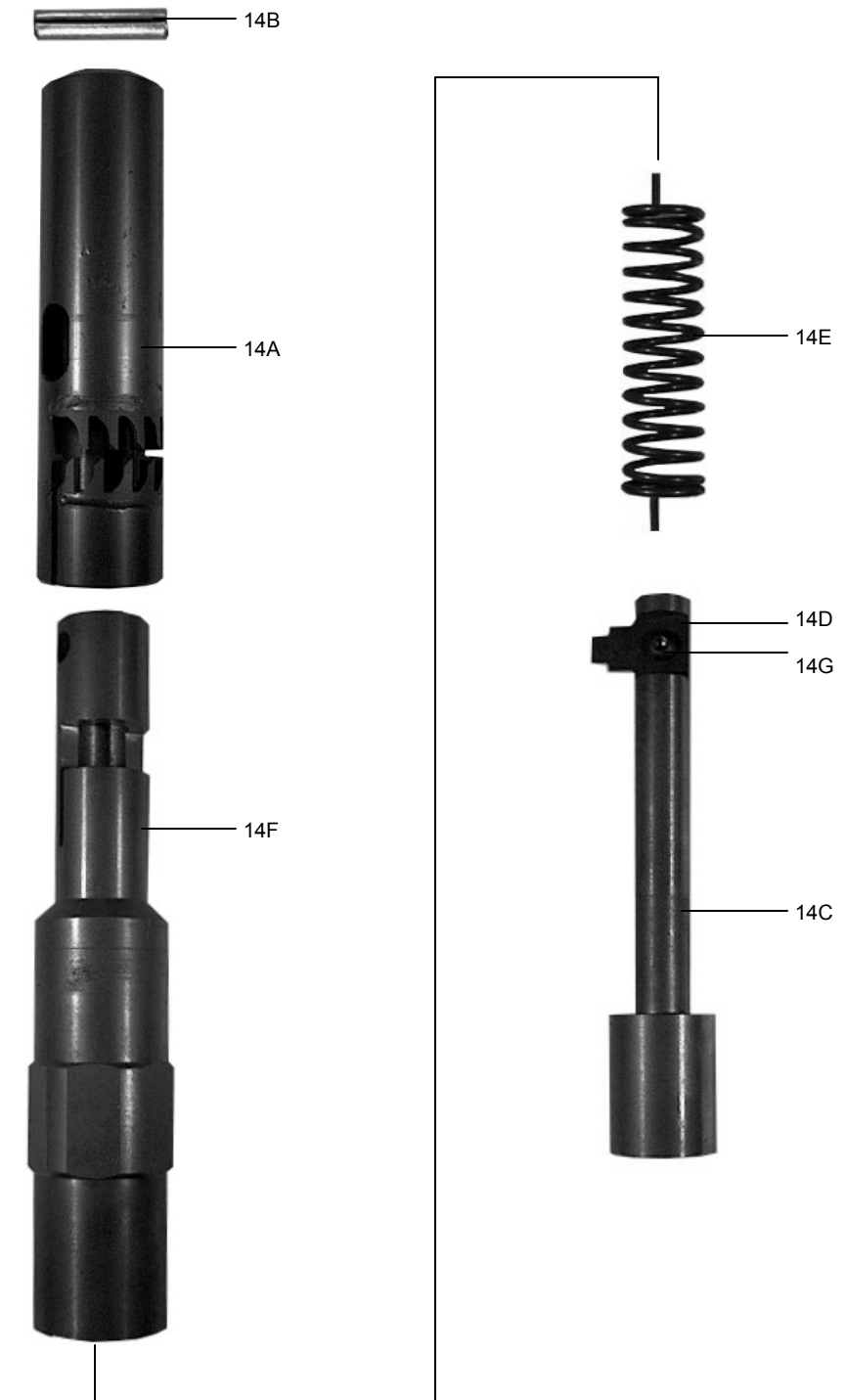


CN2 Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
13. Overshot Assembly	25-469-032	8.8	4.0
A. Sleeve	25-549-023	2.9	1.3
B. Roll Pin	06-019-194	0.1	0.0
C. Plunger	25-551-029	1.2	0.5
D. Pawl	25-552-027	0.1	0.0
E. Spring	25-553-025	0.1	0.0
F. Retriever	25-554-023	4.5	2.0
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
14. Overshot Swivel Assembly	25-555-112	3.3	1.5
15. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
16. Positive Latch Lowering Tool	25-361-031	1.7	0.8
17. Loading Funnel NQWL Rod	25-364-027	4.2	1.9

CN2 Wireline Core Barrel

Overshot Assembly



CN3 Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.775 in.	2.875 in.	2.375 in.	2.187 in.	1.964 in.
75.82 mm	45.09 mm	73.03 mm	60.33 mm	55.55 mm	49.89 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	25-641-879	78.0	35.38
10 ft Complete (3.0m)	25-641-887	126.1	57.20

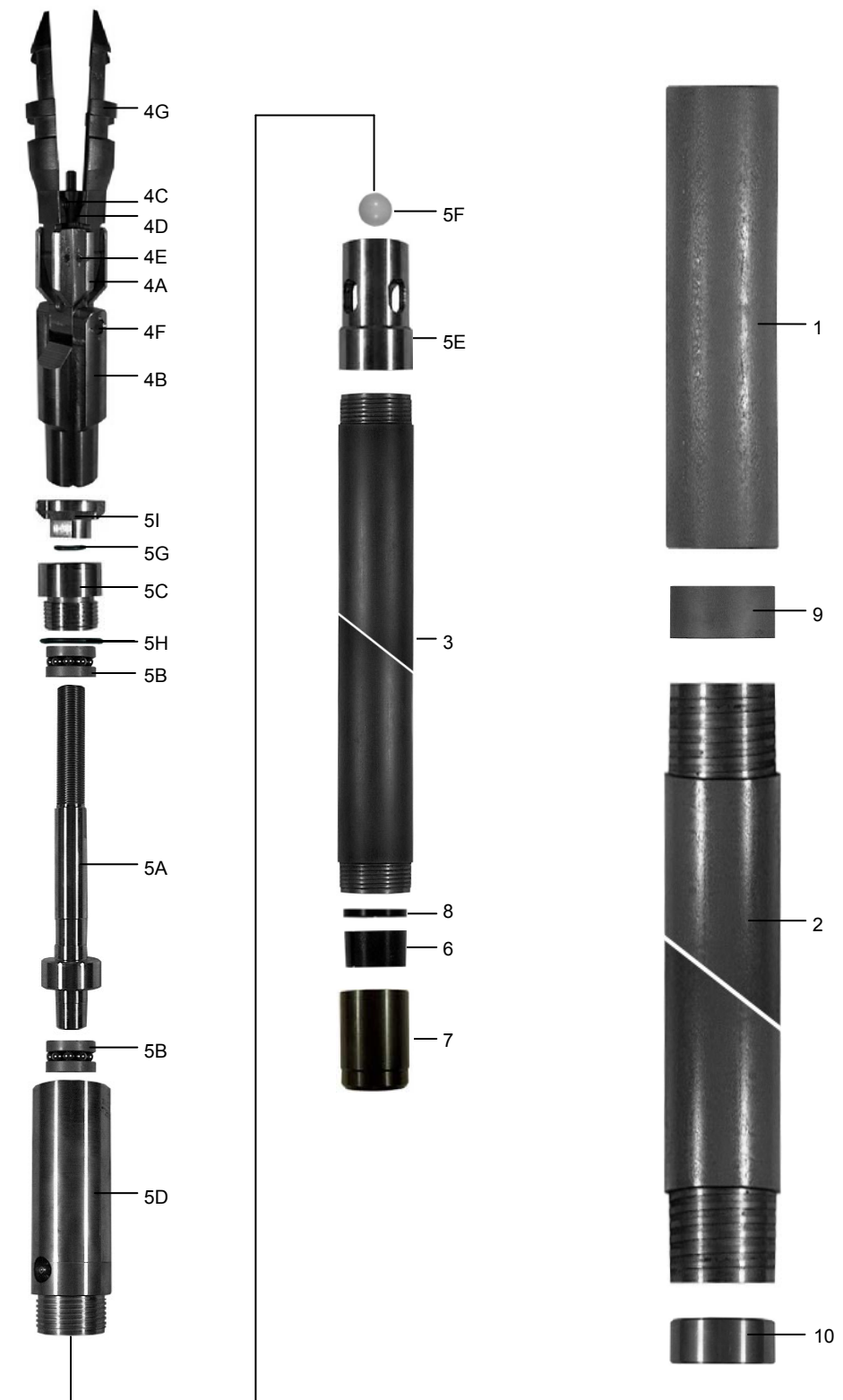
Spare Parts For Assembly

1. Locking Coupling NQWL Thread	25-641-184	8.5	3.9
Locking Coupling NXWL Thread	25-641-185	8.5	3.9
2. Outer Tube 5 ft (1.5m)	25-641-101	35.0	15.9
Outer Tube 10 ft (3.0m)	25-641-119	70.0	31.8
3. Inner Tube 5 ft (1.5m)	25-641-069	13.0	5.9
Inner Tube 10 ft (3.0m)	25-641-077	26.0	11.8
4. Latch Head Assembly	25-237-223	8.3	3.8
A. Headbase (Top)	25-385-113	1.6	0.7
B. Headbase (Bottom)	25-385-170	3.8	1.7
C. Spring, Blue (Top)	06-014-765	0.2	0.1
D. Spring, Red (Bottom)	06-014-799	0.2	0.1
E. Pins (4 required)	06-019-103	0.1	0.0
F. Pin	06-099-105	0.2	0.1
G. Quad Latch Fingers (4 Required)	25-356-098	0.6	0.3
5. Bearing Assembly	25-641-051	11.0	5.0
A. Bearing Shaft	25-641-143	1.2	0.5
B. Thrust Bearing (2 Required)	25-093-121	0.5	0.2
C. Bearing Retainer	25-641-168	1.4	0.6
D. Bearing Housing	25-641-200	3.0	1.4
E. By-Pass Adapter	25-641-176	1.1	0.5
F. By-Pass Ball	06-043-426	0.1	0.0
G. O-Ring (Upper)	06-227-177	0.1	0.0
H. O-Ring (Lower)	06-227-268	0.1	0.0
I. Landing Shoulder Nut	25-430-059	0.8	0.3
6. Core Lifter Skirtless	25-665-266	0.1	0.0
7. Inner Tube Shoe	25-665-259	0.4	0.2
8. Retaining Ring	25-665-242	0.1	0.0
9. Landing Shoulder Ring	25-429-085	0.4	0.2
10. Inner Tube Stabilizer	25-641-192	0.3	0.1

Optional Equipment (Not Shown)

11. Reaming Shell Sub (Plain)	25-641-218	3.0	1.4
12. Core Lifter Skirtless Hard Face	25-665-267	0.2	0.1
13. Inner Tube Assembly 5 ft (1.5m)	25-641-259	31.0	14.1
Inner Tube Assembly 10 ft (3.0m)	25-641-267	44.0	20.0
14. Triple Tube Conversion Kit 5 ft (1.5m)	12-19-405	9.7	4.4
Triple Tube Conversion Kit 10 ft (3.0m)	12-19-410	16.1	7.3

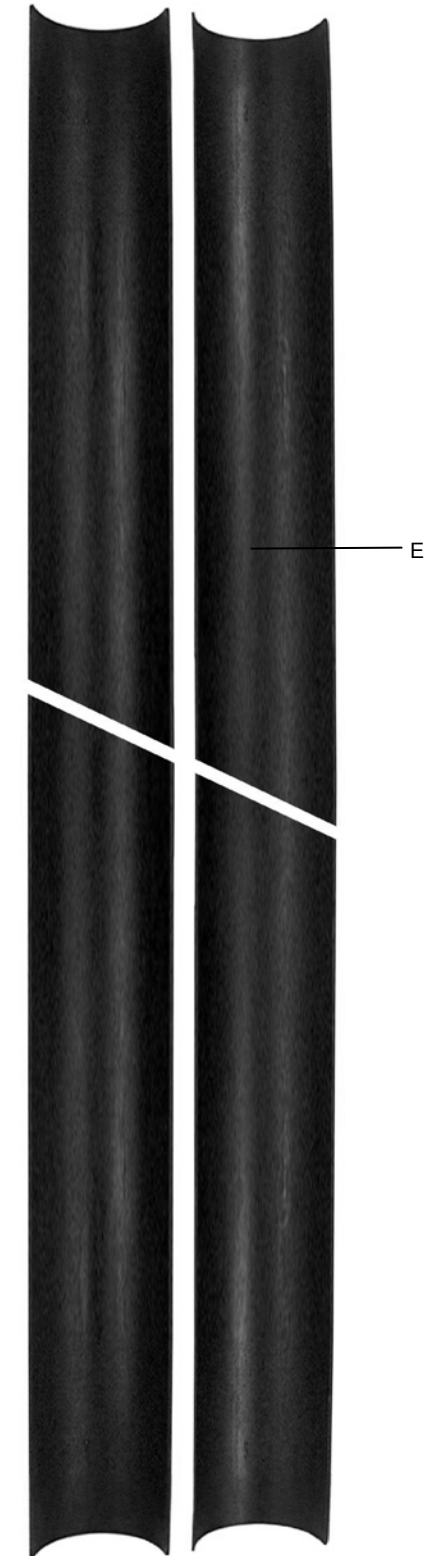
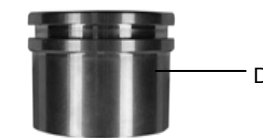
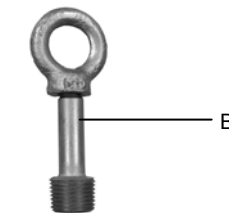
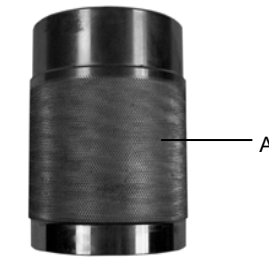
CN3 Wireline Core Barrel



CN3 Triple Tube Conversion Kit

Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft (1.5m) CN3 Triple Tube Conversion Kit	12-19-405	9.7	4.4
10 ft (3.0m) CN3 Triple Tube Conversion Kit	12-19-410	16.1	7.3
A. Adapter	14-21-437	2.4	1.1
B. Plug	14-21-338	0.3	0.1
C. O-Ring	14-21-426	0.0	0.0
D. Piston	14-21-427	0.6	0.3
E. 5 ft (1.5m) Steel Split Inner Tube	29-720-135	6.4	2.9
10 ft (3.0m) Steel Split Inner Tube	29-720-136	12.8	5.8

CN3 Triple Tube Conversion Kit

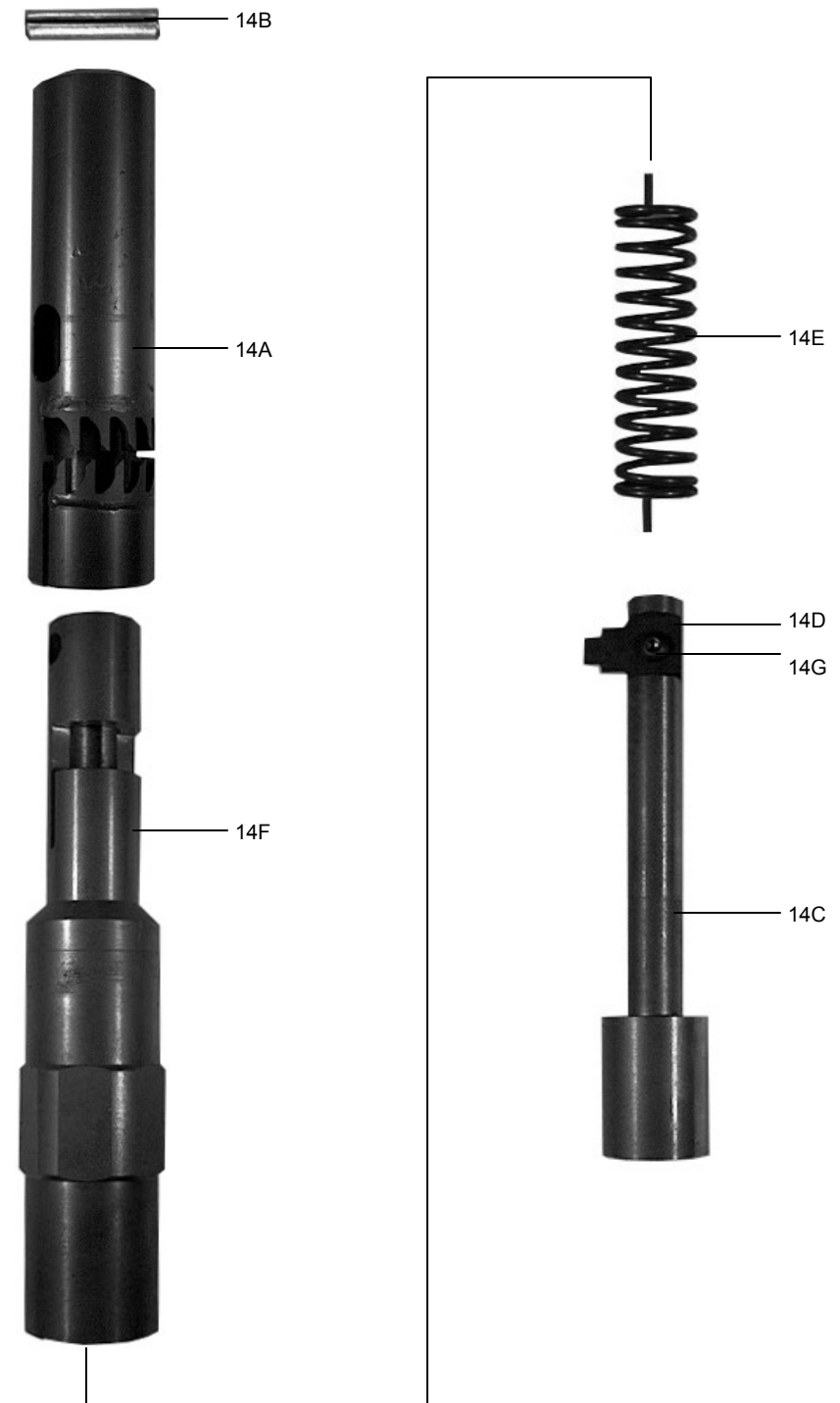


CN3 Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
19. Overshot Assembly	25-469-032	8.8	4.0
A. Sleeve	25-549-023	2.9	1.3
B. Roll Pin	06-019-194	0.1	0.0
C. Plunger	25-551-029	1.2	0.5
D. Pawl	25-552-027	0.1	0.0
E. Spring	25-553-025	0.1	0.0
F. Retriever	25-554-023	4.5	2.0
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
20. Overshot Swivel Assembly	25-555-112	3.3	1.5
21. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
22. Positive Latch Lowering Tool	25-361-031	1.7	0.8
23. Loading Funnel NQWL Rod	25-364-027	4.2	1.9

CN3 Wireline Core Barrel

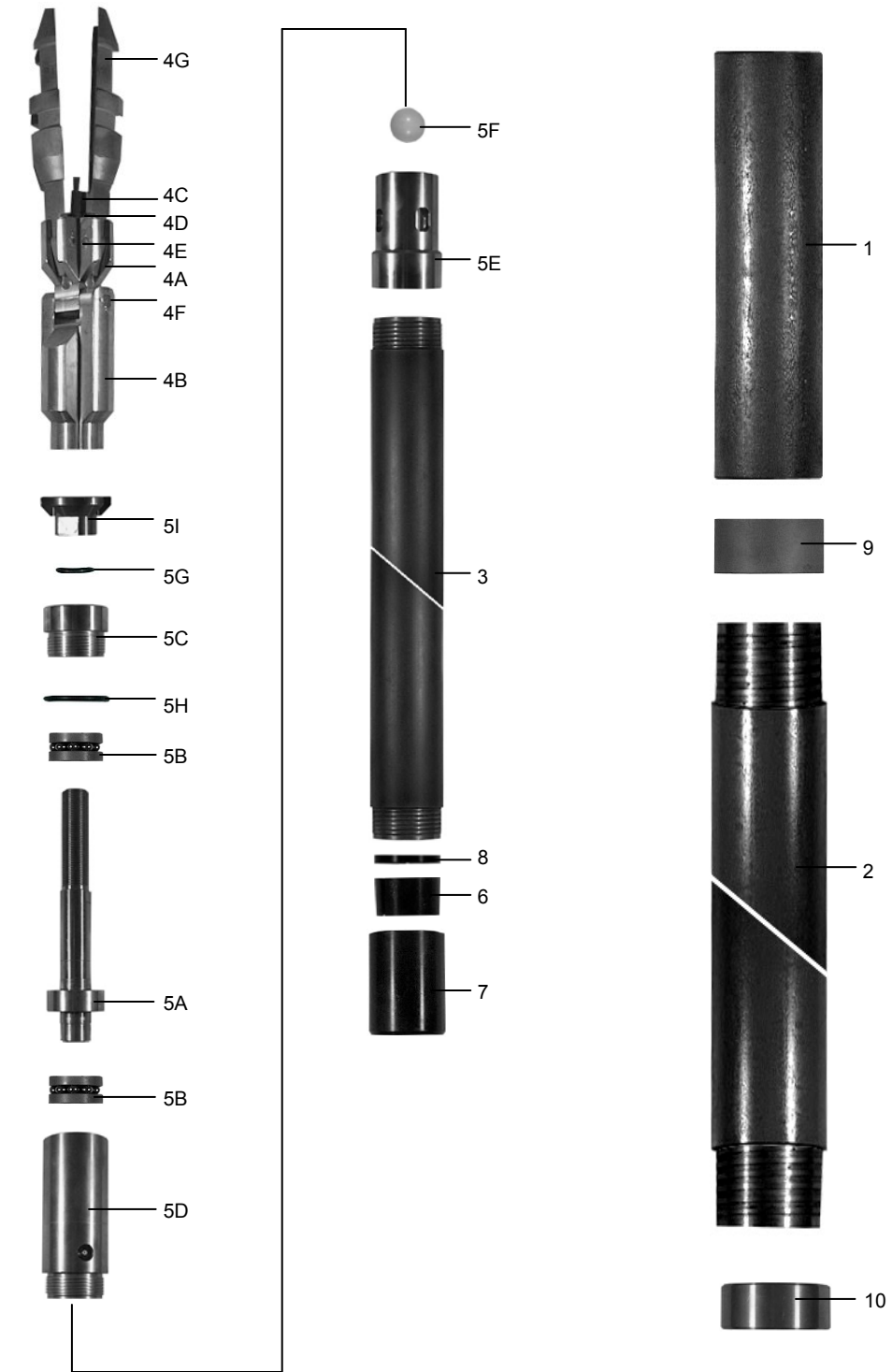
Overshot Assembly



CH Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
3.782 in.	2.500 in.	3.625 in.	3.062 in.	2.875 in.	2.625 in.
96.06 mm	63.50 mm	92.08 mm	77.77 mm	73.03 mm	66.68 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-642-018	106.0	48.1		
10 ft Complete (3.0m)	25-642-026	171.0	77.6		
5 ft Complete (1.5m) Split Inner Tube	25-642-299	106.0	48.1		
10 ft Complete (3.0m) Split Inner Tube	25-642-307	171.0	77.6		
Spare Parts For Assembly					
1. Locking Coupling HQWL Thread	25-642-190	13.0	5.9		
2. Outer Tube 5 ft (1.5m)	25-642-109	47.0	21.3		
Outer Tube 10 ft (3.0m)	25-642-117	94.0	42.6		
3. Inner Tube 5 ft (1.5m)	25-642-067	19.1	8.7		
Inner Tube 10 ft (3.0m)	25-642-075	38.2	17.3		
Split Inner Tube 5 ft (1.5m)	25-294-067	18.0	8.2		
Split Inner Tube 10 ft (3.0m)	25-294-075	36.0	16.3		
4. Latch Head Assembly	25-237-231	15.0	6.8		
A. Headbase (Top)	25-385-121	2.8	1.3		
B. Headbase (Bottom)	25-385-188	6.0	2.7		
C. Spring, Red (Top)	06-014-807	0.4	0.2		
D. Spring, Gold (Bottom)	06-014-831	0.4	0.2		
E. Pins (4 required)	06-099-238	0.2	0.1		
F. Pin	06-019-863	0.5	0.2		
G. Quad Latch Fingers (4 Required)	25-356-080	1.1	0.5		
5. Bearing Assembly	25-642-059	13.5	6.1		
A. Bearing Shaft	25-642-141	2.8	1.3		
B. Thrust Bearing (2 Required)	25-093-139	0.8	0.3		
C. Bearing Retainer	25-642-166	2.1	1.0		
D. Bearing Housing	25-161-050	4.2	1.9		
E. By-Pass Adapter	25-274-093	3.4	1.5		
F. By-Pass Ball	06-043-210	0.4	0.2		
G. O-Ring (Upper)	06-227-219	0.1	0.0		
H. O-Ring (Lower)	06-230-064	0.2	0.1		
I. Landing Shoulder Nut	25-430-067	1.1	0.5		
6. Core Lifter Skirtless	25-095-282	0.3	0.1		
7. Inner Tube Shoe	25-642-158	0.8	0.4		
8. Retaining Ring	25-642-281	1.0	0.5		
9. Landing Shoulder Ring	25-429-093	0.6	0.3		
10. Inner Tube Stabilizer	25-642-174	0.1	0.0		
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)	25-642-208	4.9	2.2		
12. Core Lifter Skirtless Hard Face	25-094-194	0.4	0.2		
13. Inner Tube Assembly 5 ft (1.5m)	25-642-224	46.5	21.1		
Inner Tube Assembly 10 ft (3.0m)	25-642-232	64.5	29.3		
Split Inner Tube Assembly 5 ft (1.5m)	25-642-265	46.5	21.1		
Split Inner Tube Assembly 10 ft (3.0m)	25-642-273	64.5	29.3		

CH Wireline Core Barrel

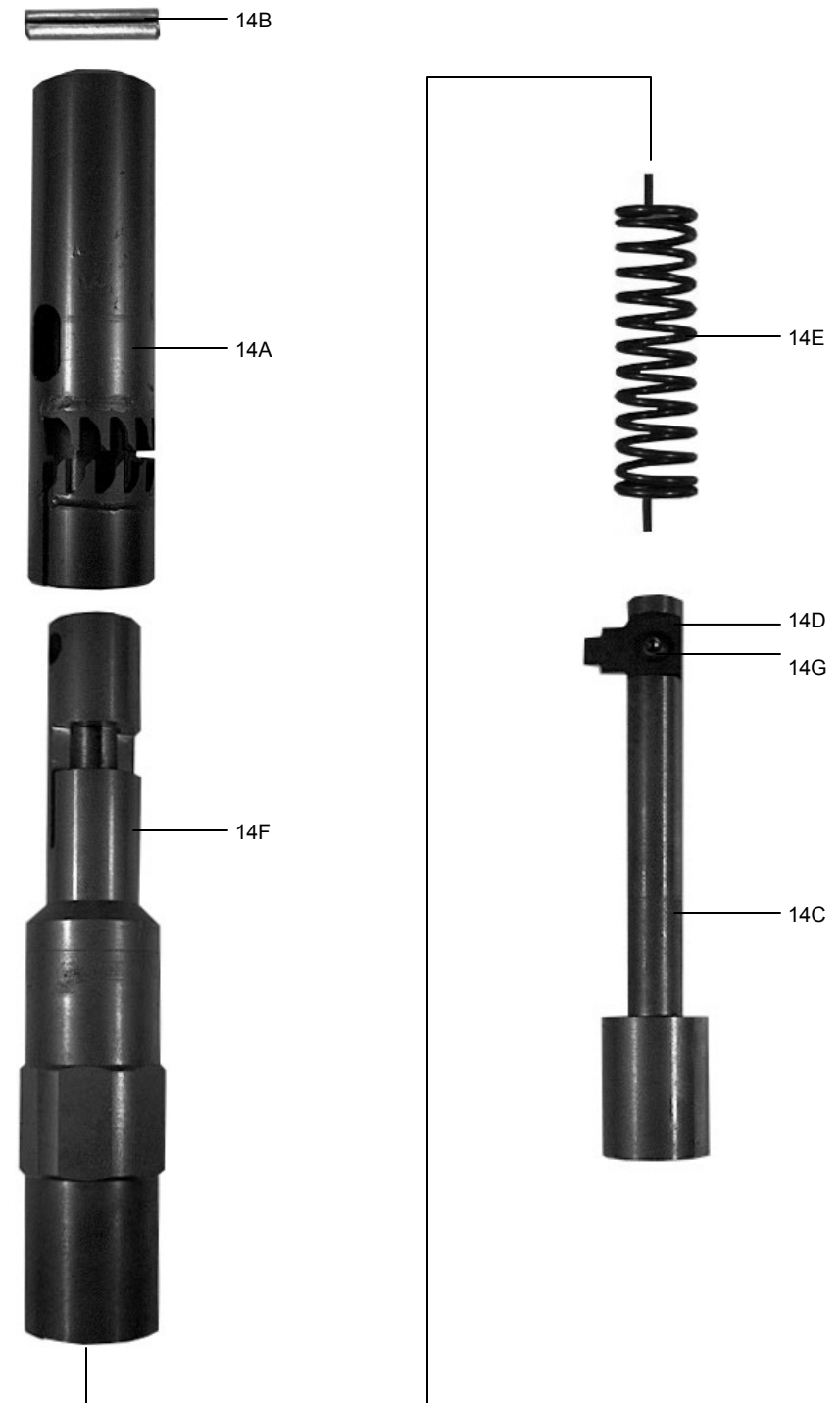


CH Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
14. Overshot Assembly	25-469-040	12.0	5.4
A. Sleeve	25-549-031	3.4	1.5
B. Roll Pin	06-019-202	0.6	0.3
C. Plunger	25-551-037	2.0	0.9
D. Pawl	25-552-035	0.3	0.1
E. Spring	25-553-033	0.6	0.3
F. Retriever	25-554-031	6.2	2.8
G. Capscrew	06-029-045	0.1	0.1
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
15. Overshot Swivel Assembly	25-555-112	3.3	1.5
16. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
17. Positive Latch Lowering Tool	25-361-023	3.0	1.4
18. Loading Funnel HQWL Rod	25-364-035	6.0	2.7

CH Wireline Core Barrel

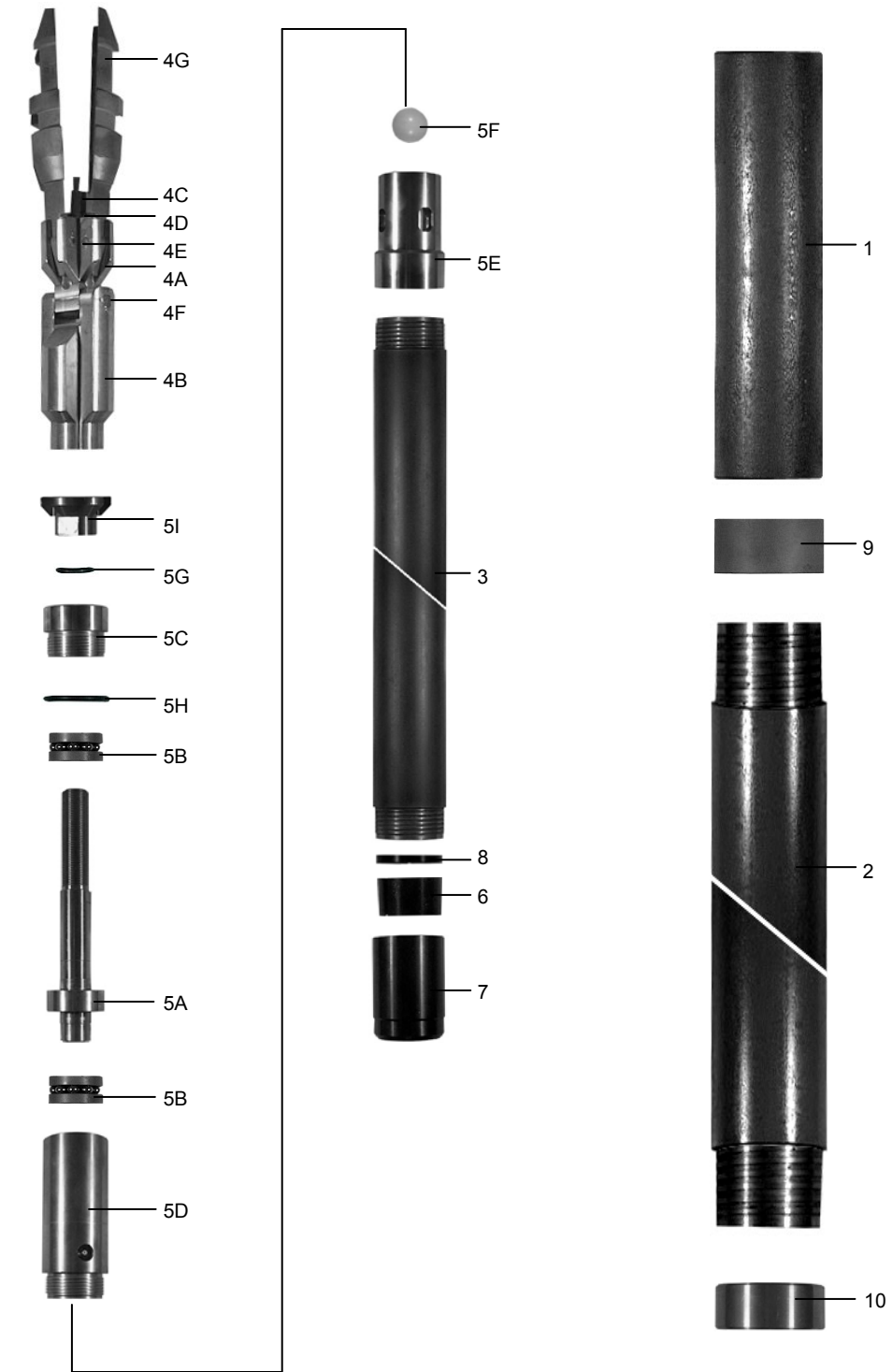
Overshot Assembly



CH3 Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
3.782 in.	2.400 in.	3.625 in.	3.062 in.	2.875 in.	2.625 in.
96.06 mm	60.96 mm	92.08 mm	77.77 mm	73.03 mm	66.68 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-468-018	119.1	48.0	
10 ft Complete (3.0m)		25-468-026	189.0	54.0	
Spare Parts For Assembly					
1. Locking Coupling HQWL Thread		25-642-190	13.0	5.9	
2. Outer Tube 5 ft (1.5m)		25-642-109	47.0	21.3	
Outer Tube 10 ft (3.0m)		25-642-117	94.0	42.6	
3. Inner Tube 5 ft (1.5m)		25-642-067	19.1	8.7	
Inner Tube 10 ft (3.0m)		25-642-075	38.2	17.3	
4. Latch Head Assembly		25-237-231	15.0	6.8	
A. Headbase (Top)		25-385-121	2.8	1.3	
B. Headbase (Bottom)		25-385-188	6.0	2.7	
C. Spring, Red (Top)		06-014-807	0.4	0.2	
D. Spring, Gold (Bottom)		06-014-831	0.4	0.2	
E. Pins (4 required)		06-099-238	0.2	0.1	
F. Pin		06-019-863	0.5	0.2	
G. Quad Latch Fingers		25-356-080	1.1	0.5	
5. Bearing Assembly		25-642-059	13.5	6.1	
A. Bearing Shaft		25-642-141	2.8	1.3	
B. Thrust Bearing (2 Required)		25-093-139	0.7	0.3	
C. Bearing Retainer		25-642-166	2.1	1.0	
D. Bearing Housing		25-161-050	4.2	1.9	
E. By-Pass Adapter		25-274-093	3.4	1.5	
F. By-Pass Ball		06-043-210	0.4	0.2	
G. O-Ring (Upper)		06-227-219	0.1	0.0	
H. O-Ring (Lower)		06-230-064	0.2	0.1	
I. Landing Shoulder Nut		25-430-067	1.1	0.5	
6. Core Lifter Skirtless		25-095-233	0.3	0.1	
7. Inner Tube Shoe		29-705-234	0.8	0.4	
8. Retaining Ring		29-052-487	1.0	0.5	
9. Landing Shoulder Ring		25-429-093	0.6	0.3	
10. Inner Tube Stabilizer		25-642-174	0.1	0.1	
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)		25-642-208	4.9	2.2	
12. Core Lifter Skirtless Hard Face		25-665-267	0.4	0.2	
13. Inner Tube Assembly 5 ft (1.5m)		25-642-224	46.5	21.1	
Inner Tube Assembly 10 ft (3.0m)		25-642-232	64.5	29.3	
14. Triple Tube Conversion Kit 5 ft (1.5m)		12-19-505	13.9	6.3	
Triple Tube Conversion Kit 10 ft (3.0m)		12-19-510	22.7	10.3	

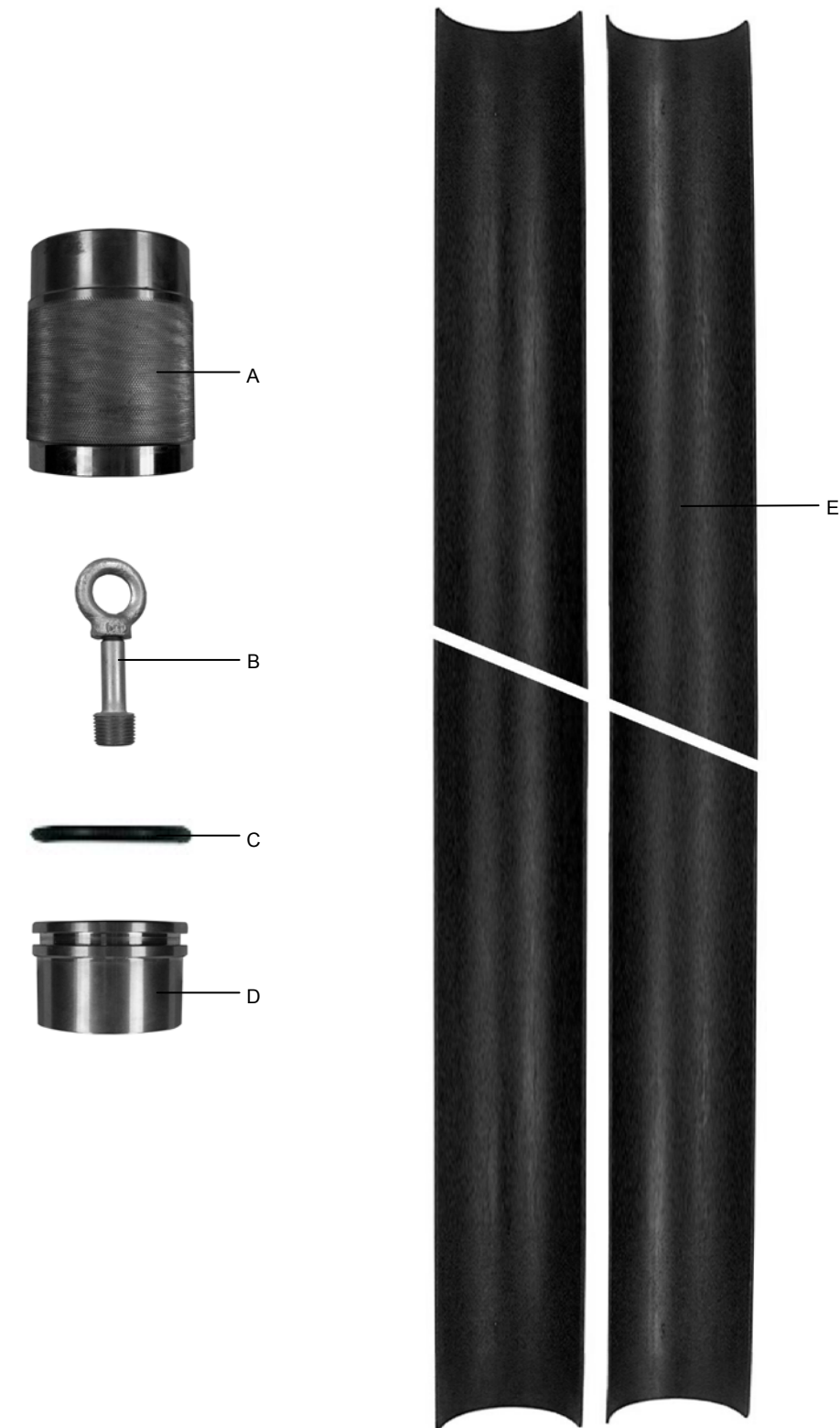
CH3 Wireline Core Barrel



CH3 Triple Tube Conversion Kit

Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft (1.5m) H3WL Triple Tube Conversion Kit	12-19-505	13.9	6.3
10 ft (3.0m) H3WL Triple Tube Conversion Kit	12-19-510	22.7	10.3
A. Adapter	14-21-537	3.5	1.6
B. Plug	14-21-338	0.3	0.1
C. O-Ring	14-21-526	0.0	0.0
D. Piston	14-21-527	1.3	0.6
E. 5 ft (1.5m) Steel Split Inner Tube	29-720-137	8.8	4.0
10 ft (3.0m) Steel Split Inner Tube	29-720-138	17.6	8.0

CH3 Triple Tube Conversion Kit

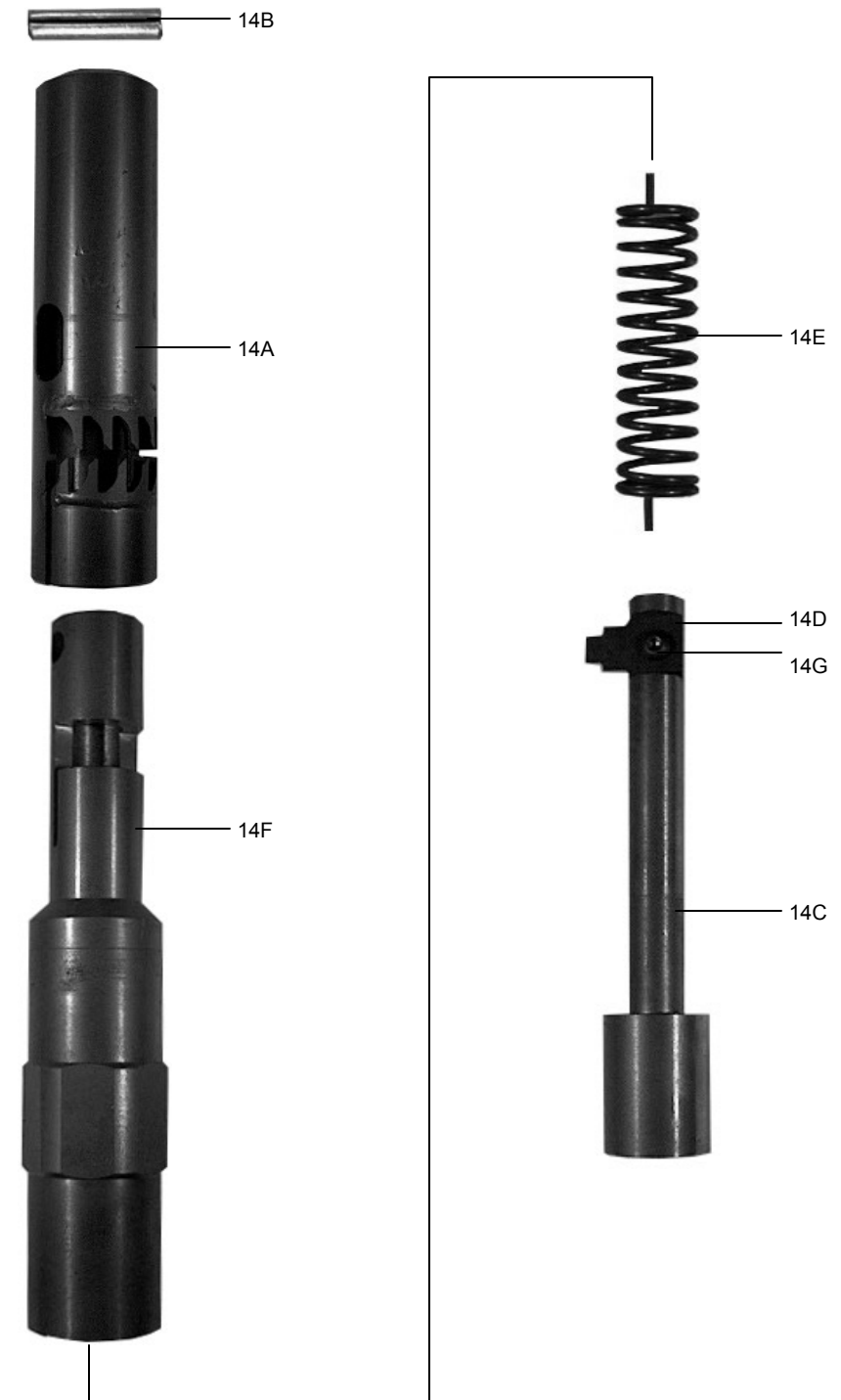


CH3 Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
19. Overshot Assembly	25-469-040	12.0	5.4
A. Sleeve	25-549-031	3.4	1.5
B. Roll Pin	06-019-202	0.6	0.3
C. Plunger	25-551-037	2.0	0.9
D. Pawl	25-552-035	0.2	0.1
E. Spring	25-553-033	0.6	0.3
F. Retriever	25-554-031	6.2	2.8
G. Capscrew	06-029-045	0.1	0.1
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
20. Overshot Swivel Assembly	25-555-112	3.3	1.5
21. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
22. Positive Latch Lowering Tool	25-361-023	3.0	1.4
23. Loading Funnel HQWL Rod	25-364-035	6.0	2.7

CH3 Wireline Core Barrel

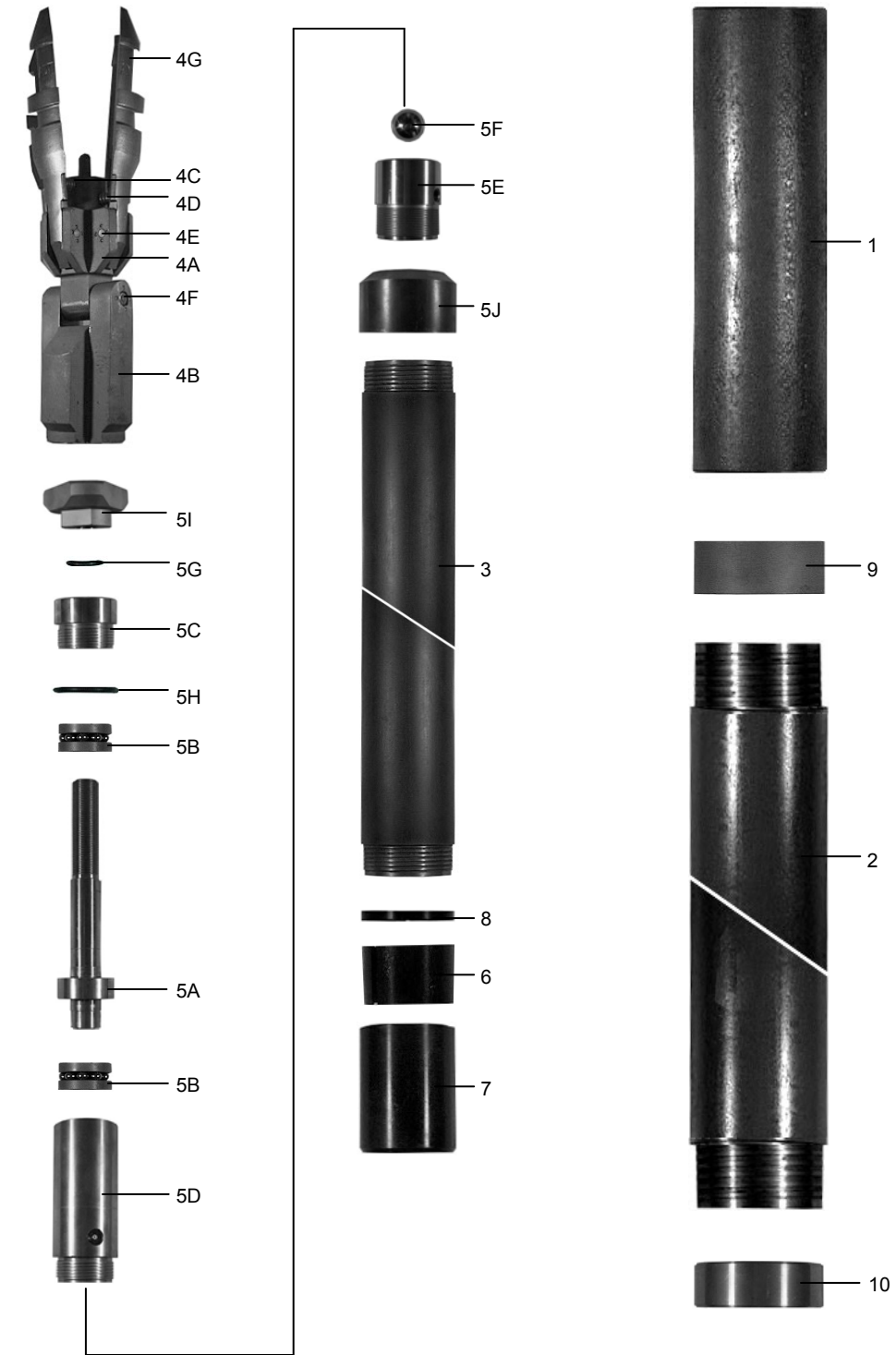
Overshot Assembly



CP Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
4.835 in.	3.345 in.	4.625 in.	4.062 in.	3.750 in.	3.500 in.
122.81 mm	84.96 mm	117.48 mm	103.17 mm	95.25 mm	88.90 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-013-012	226.0	102.5		
10 ft Complete (3.0m)	25-013-020	311.0	141.1		
5 ft Complete (1.5m) Split Inner Tube	25-013-095	226.0	102.5		
10 ft Complete (3.0m) Split Inner Tube	29-050-986	311.0	141.1		
Spare Parts For Assembly					
1. Locking Coupling PQWL Thread	25-304-025	21.5	9.7		
Locking Coupling HWT Thread	25-304-060	21.5	9.7		
2. Outer Tube 5 ft (1.5m)	25-305-014	75.0	34.0		
Outer Tube 10 ft (3.0m)	25-305-022	140.0	63.5		
3. Inner Tube 5 ft (1.5m)	25-306-012	28.3	12.8		
Inner Tube 10 ft (3.0m)	25-306-020	56.0	25.4		
Split Inner Tube 5 ft (1.5m)	25-167-016	28.3	12.8		
Split Inner Tube 10 ft (3.0m)	25-167-024	56.0	25.4		
4. Latch Head Assembly	25-237-116	22.6	10.2		
A. Headbase (Top)	25-385-105	5.9	2.7		
B. Headbase (Bottom)	25-385-097	11.1	5.0		
C. Spring, Red (Top)	06-014-906	0.4	0.2		
D. Spring, Gold (Bottom)	06-014-914	0.4	0.2		
E. Pins (4 required)	06-019-921	0.2	0.1		
F. Pin	06-099-196	0.5	0.2		
G. Quad Latch Fingers	25-356-148	5.0	2.3		
5. Bearing Assembly	25-086-133	19.7	8.9		
A. Bearing Shaft	25-642-141	2.8	1.3		
B. Thrust Bearing (2 Required)	25-093-139	0.8	0.3		
C. Bearing Retainer	25-642-166	2.1	1.0		
D. Bearing Housing	25-161-050	4.2	1.9		
E. By-Pass Adapter	25-232-067	5.3	2.4		
F. By-Pass Ball	06-043-202	0.4	0.2		
G. O-Ring (Upper)	06-227-219	0.1	0.0		
H. O-Ring (Lower)	06-230-064	0.2	0.1		
I. Landing Shoulder Nut	25-290-040	1.9	0.9		
J. Inner Tube Connector	25-232-026	2.0	0.9		
6. Core Lifter Skirtless	25-095-481	0.5	0.2		
7. Inner Tube Shoe	25-097-365	1.3	0.6		
8. Retaining Ring	25-710-845	0.2	0.1		
9. Landing Shoulder Ring	25-290-032	1.1	0.5		
10. Inner Tube Stabilizer	25-290-057	0.9	0.4		
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)	25-291-022	12.0	5.4		
12. Core Lifter Skirtless Hard Face	25-094-129	0.6	0.3		
13. Inner Tube Assembly 5 ft (1.5m)	25-013-053	123.0	55.8		
Inner Tube Assembly 10 ft (3.0m)	25-013-061	151.0	68.5		
Split Inner Tube Assembly 5 ft (1.5m)	25-013-103	123.0	55.8		
Split Inner Tube Assembly 10 ft (3.0m)	25-013-145	151.0	68.5		

CP Wireline Core Barrel

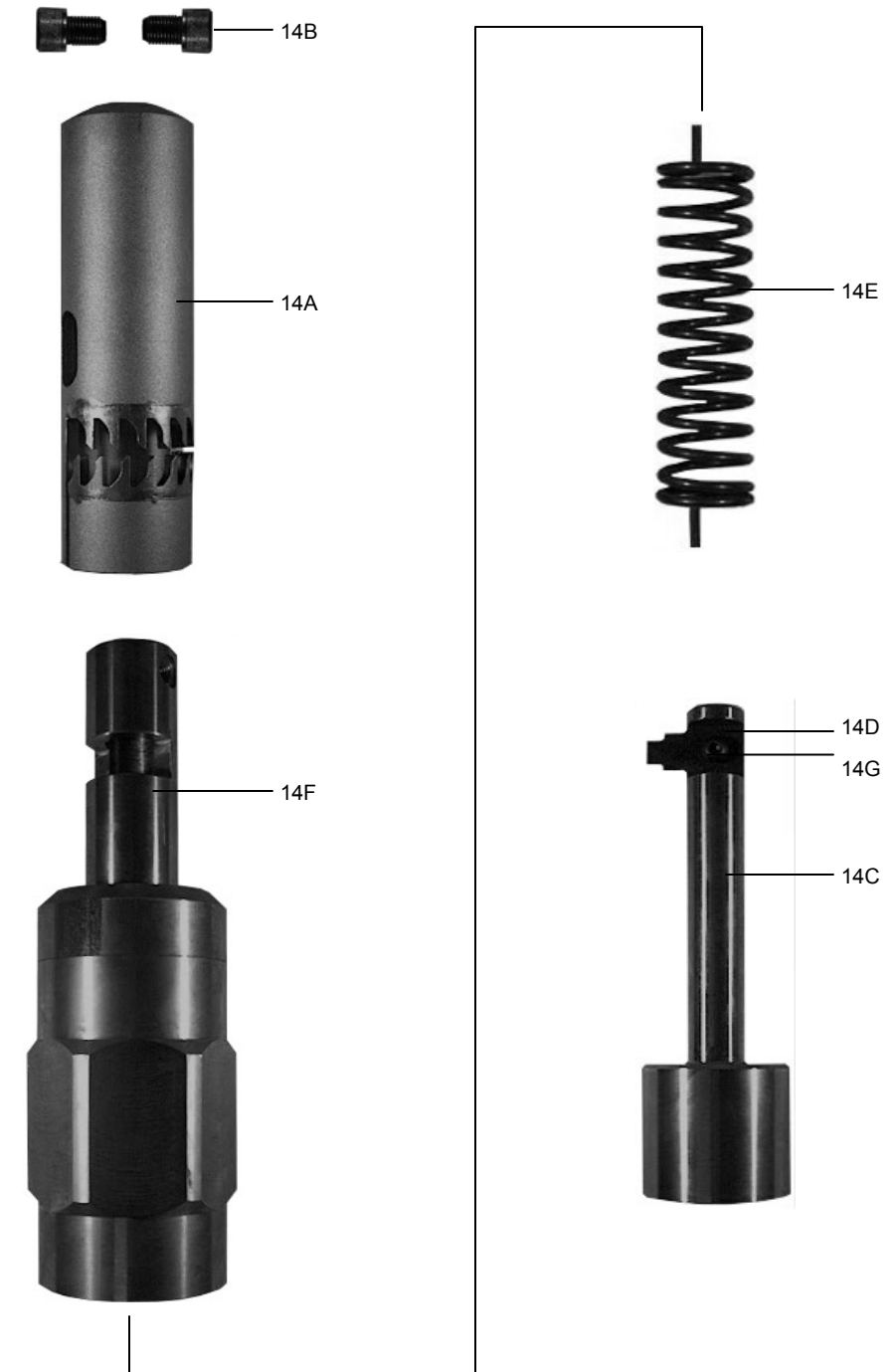


CP Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
14. Overshot Assembly	25-270-026	19.8	9.0
A. Sleeve	25-549-031	3.8	1.7
B. Socket Head Cap Screw (2 Req)	06-009-567	0.2	0.1
C. Plunger	25-270-042	2.0	0.9
D. Pawl	25-552-035	0.1	0.0
E. Spring	25-553-033	0.2	0.1
F. Retriever	25-270-034	13.8	6.3
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	06-033-740	1.2	0.5
Optional Equipment (Not Shown)			
15. Overshot Swivel Assembly	25-555-112	3.3	1.5
16. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
17. Positive Latch Lowering Tool	25-361-023	3.0	1.4
18. Loading Funnel PQWL Rod	25-364-035	6.0	2.7

CP Wireline Core Barrel

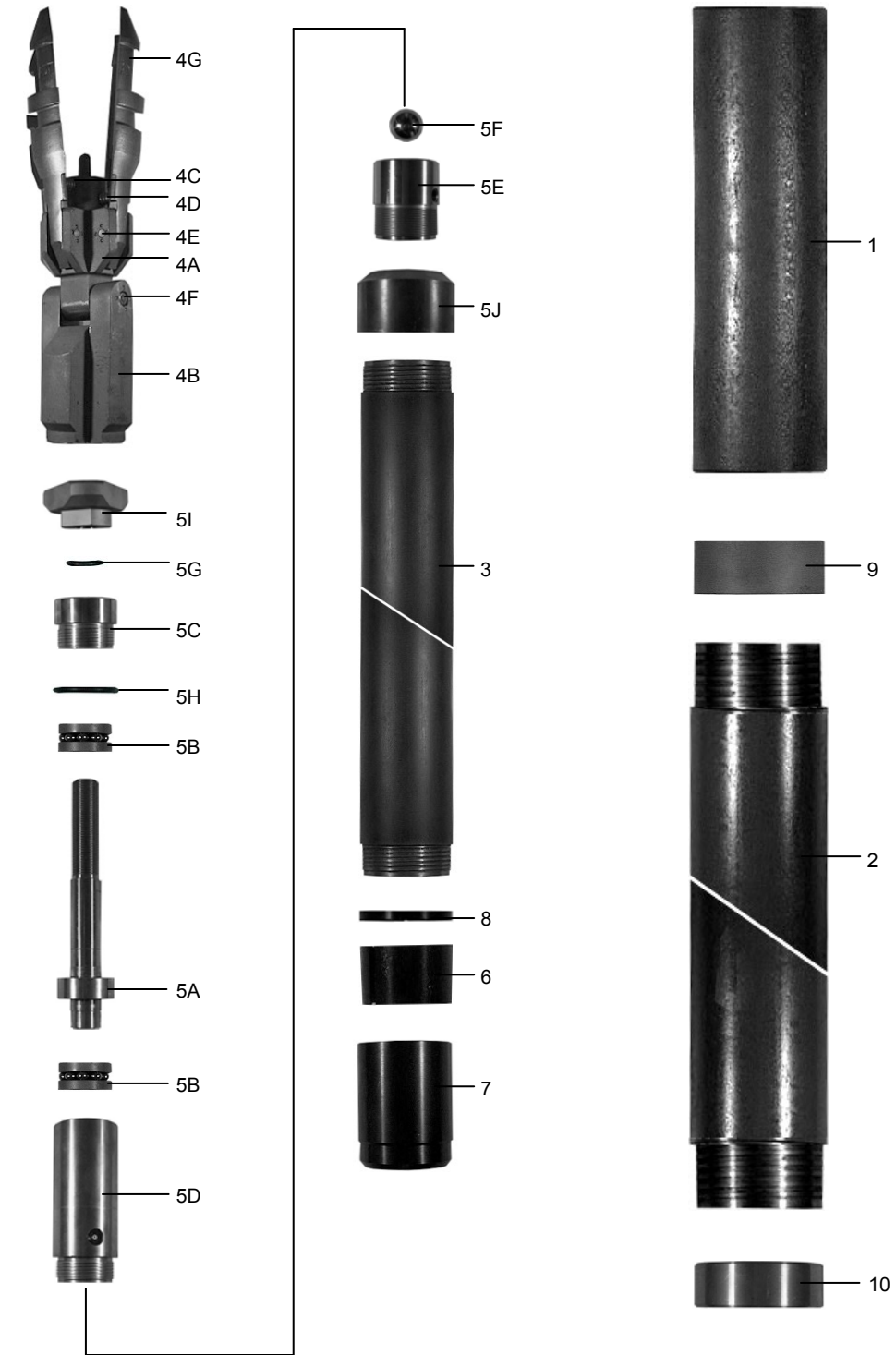
Overshot Assembly



CP3 Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
4.835 in.	3.270 in.	4.625 in.	4.062 in.	3.750 in.	3.500 in.
122.81 mm	83.06 mm	117.48 mm	103.17 mm	95.25 mm	88.90 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-467-010	241.0	109.3	
10 ft Complete (3.0m)		25-467-028	331.0	150.1	
Spare Parts For Assembly					
1. Locking Coupling PQWL Thread		25-304-025	21.5	9.7	
Locking Coupling HWT Thread		25-304-060	21.5	9.7	
2. Outer Tube 5 ft (1.5m)		25-305-014	75.0	34.0	
Outer Tube 10 ft (3.0m)		25-305-022	140.0	63.5	
3. Inner Tube 5 ft (1.5m)		25-306-012	28.3	12.8	
Inner Tube 10 ft (3.0m)		25-306-020	56.0	25.4	
4. Latch Head Assembly		25-237-116	22.6	10.3	
A. Headbase (Top)		25-385-105	5.9	2.7	
B. Headbase (Bottom)		25-385-097	11.1	5.0	
C. Spring, Red (Top)		06-014-906	0.4	0.2	
D. Spring, Gold (Bottom)		06-014-914	0.4	0.2	
E. Pins (4 required)		06-019-921	0.2	0.1	
F. Pin		06-099-196	0.5	0.2	
G. Quad Latch Fingers		25-356-148	5.0	2.3	
5. Bearing Assembly		25-086-133	45.1	20.5	
A. Bearing Shaft		25-642-141	2.8	1.3	
B. Thrust Bearing (2 Required)		25-093-139	0.7	0.3	
C. Bearing Retainer		25-642-166	2.1	0.9	
D. Bearing Housing		25-161-050	4.2	1.9	
E. By-Pass Adapter		25-232-067	5.3	2.4	
F. By-Pass Ball		06-043-202	0.4	0.2	
G. O-Ring (Upper)		06-227-219	0.1	0.0	
H. O-Ring (Lower)		06-230-064	0.2	0.1	
I. Landing Shoulder Nut		25-290-040	1.9	0.9	
J. Inner Tube Connector		25-232-026	2.0	0.9	
6. Core Lifter Skirtless		25-095-290	0.5	0.2	
7. Inner Tube Shoe		25-100-270	1.3	0.6	
8. Retaining Ring		29-720-058	0.2	0.1	
9. Landing Shoulder Ring		25-290-032	1.1	0.5	
10. Inner Tube Stabilizer		25-290-057	0.9	0.4	
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)		25-291-022	12.0	5.4	
12. Core Lifter Skirtless Hard Face		25-094-500	0.6	0.3	
13. Inner Tube Assembly 5 ft (1.5m)		25-013-053	123.0	55.8	
Inner Tube Assembly 10 ft (3.0m)		25-013-061	151.0	68.5	
14. Triple Tube Conversion Kit 5 ft (1.5m)		12-19-605	18.8	8.5	
Triple Tube Conversion Kit 10 ft (3.0m)		12-19-610	29.1	13.2	

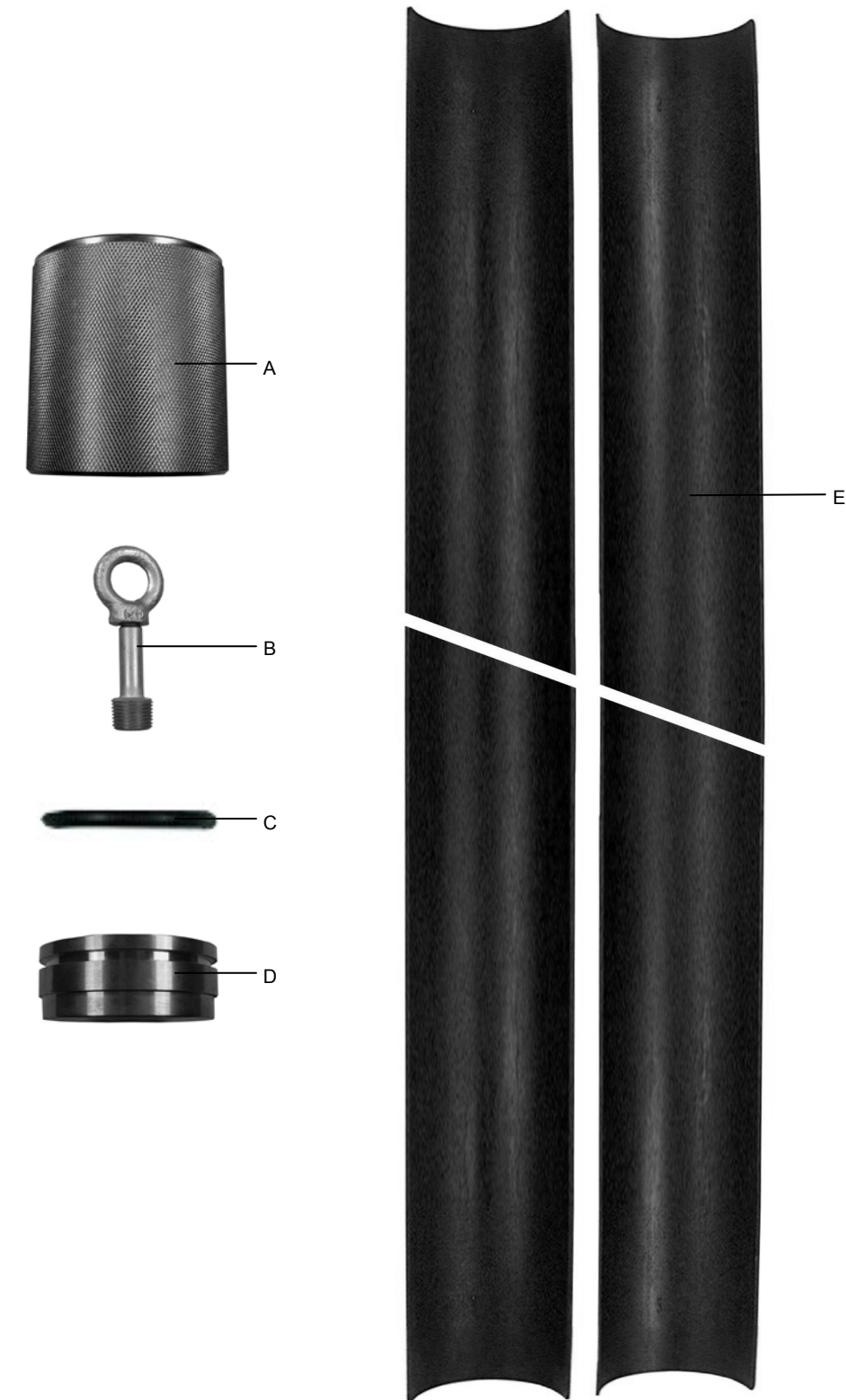
CP3 Wireline Core Barrel



CP3 Triple Tube Conversion Kit

Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft (1.5m) CP3 Triple Tube Conversion Kit	12-19-605	18.8	8.5
10 ft (3.0m) CP3 Triple Tube Conversion Kit	12-19-610	29.1	13.2
A. Adapter	14-21-637	6.1	2.8
B. Plug	14-21-338	0.3	0.1
C. O-Ring	14-21-626	0.0	0.0
D. Piston	14-21-627	2.1	1.0
E. 5 ft (1.5m) Steel Split Inner Tube	29-720-175	10.3	4.7
10 ft (3.0m) Steel Split Inner Tube	29-720-176	20.6	9.4

CP3 Triple Tube Conversion Kit

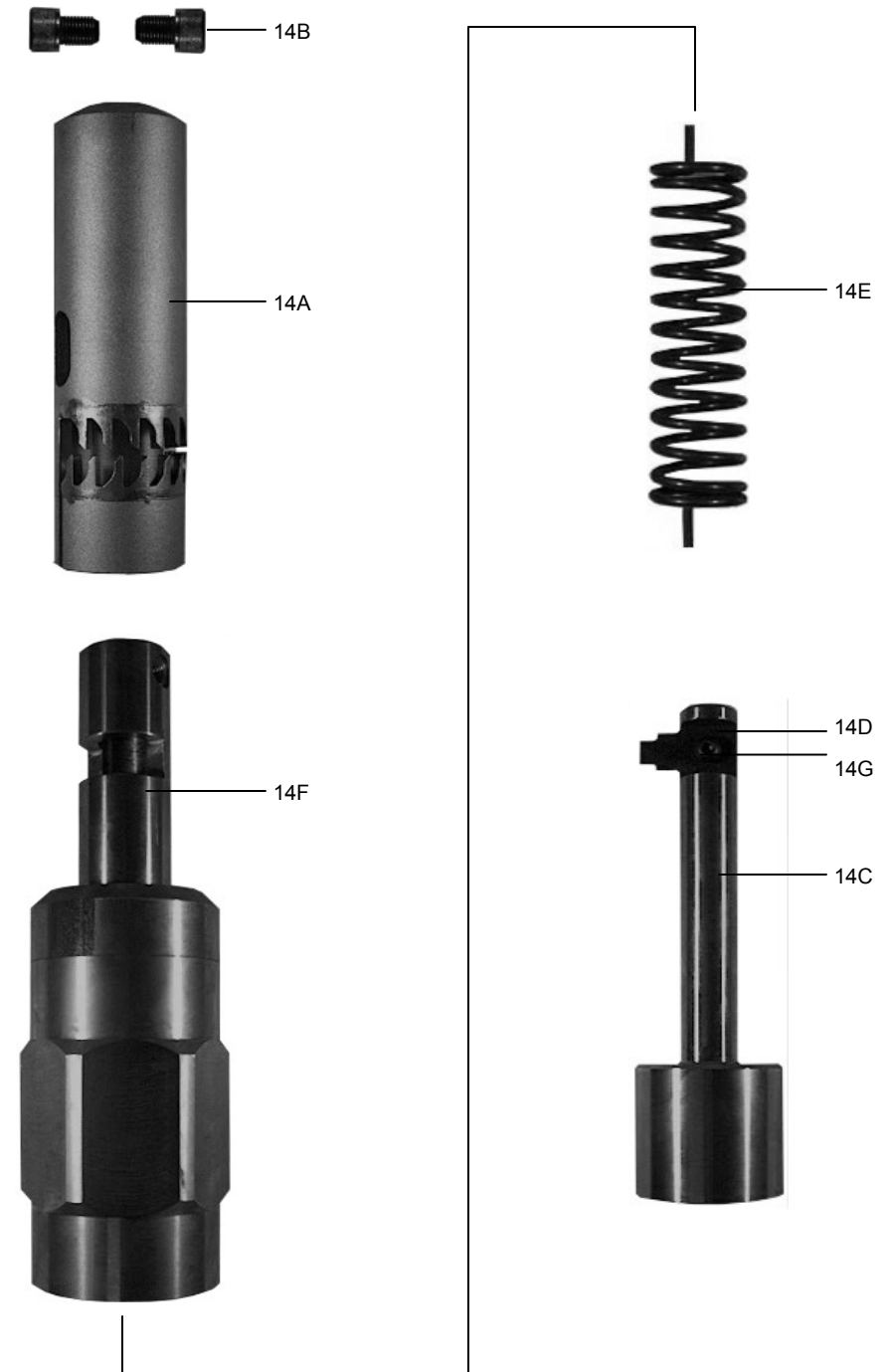


CP3 Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
14. Overshot Assembly	25-270-026	19.8	9.0
A. Sleeve	25-549-031	3.8	1.7
B. Socket Head Cap Screw (2 Req)	06-009-567	0.2	0.1
C. Plunger	25-270-042	2.0	0.9
D. Pawl	25-552-035	0.1	0.0
E. Spring	25-553-033	0.1	0.0
F. Retriever	25-270-034	13.8	6.3
G. Capscrew	06-029-045	0.1	0.1
H. Overshot Cocking Tool	06-033-740	1.2	0.5
Optional Equipment (Not Shown)			
15. Overshot Swivel Assembly	25-555-112	3.3	1.5
16. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
17. Positive Latch Lowering Tool	25-361-023	3.0	1.4
18. Loading Funnel PQWL Rod	25-364-035	6.0	2.7

CP3 Wireline Core Barrel

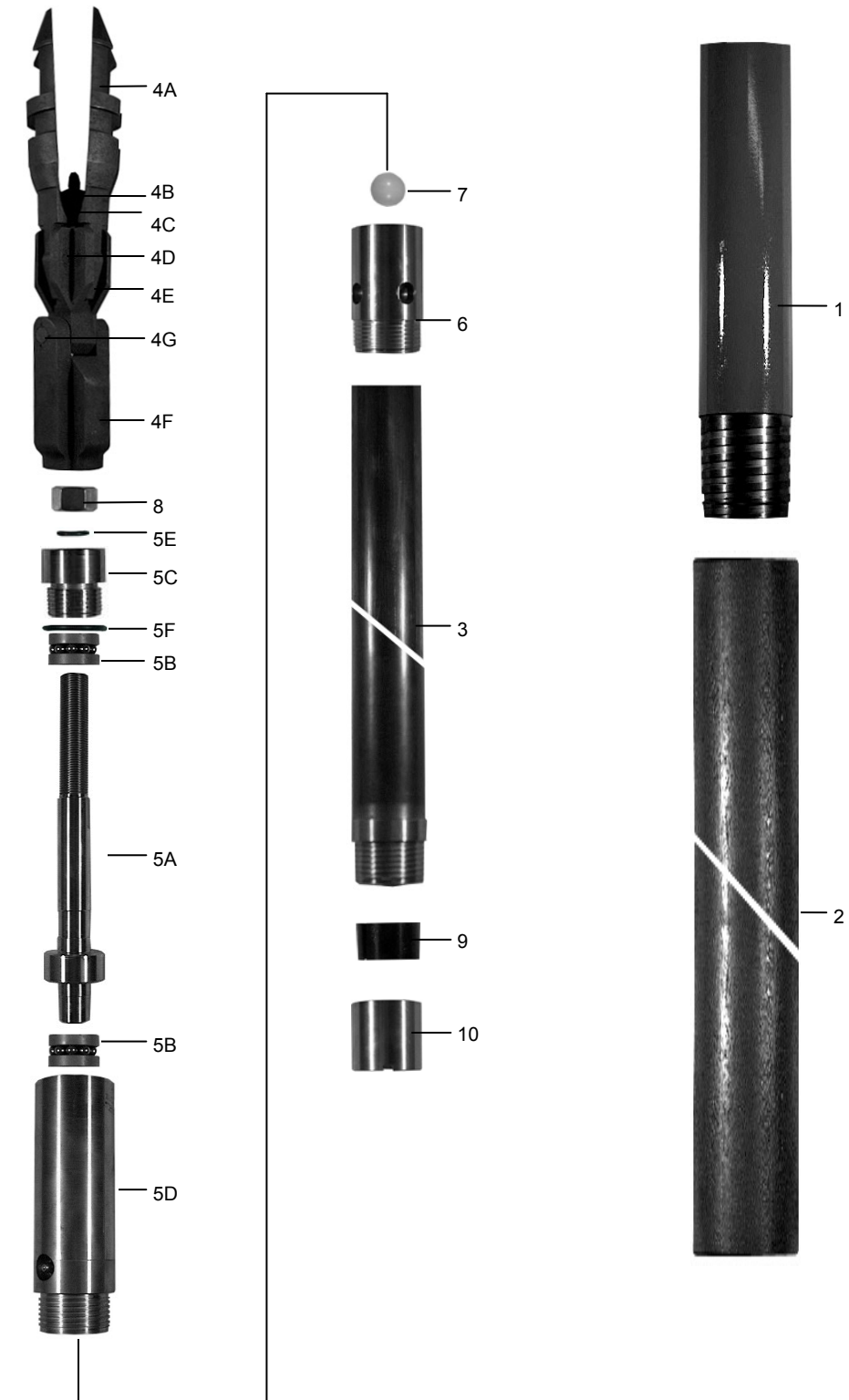
Overshot Assembly



NXB Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	1.875 in.	2.875 in.	2.391 in.	2.200 in.	1.969 in.
75.82 mm	47.63 mm	73.03 mm	60.73 mm	55.88 mm	50.01 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-412-016	78.0	35.4		
10 ft Complete (3.0m)	25-412-024	126.1	57.2		
5 ft Complete (1.5m) Split Inner Tube	25-412-057	78.0	35.4		
10 ft Complete (3.0m) Split Inner Tube	25-412-065	126.0	57.2		
Spare Parts For Assembly					
1. Locking Coupling NXBWL Thread	25-460-031	11.1	5.0		
Locking Coupling NQWL Thread	25-460-071	11.1	5.0		
2. Outer Tube 5 ft (1.5m)	25-541-012	35.0	15.9		
Outer Tube 10 ft (3.0m)	25-541-020	70.0	31.8		
3. Inner Tube 5 ft (1.5m)	25-548-017	13.0	5.9		
Inner Tube 10 ft (3.0m)	25-548-025	26.0	11.8		
Split Inner Tube 5 ft (1.5m)	25-245-010	13.0	5.9		
Split Inner Tube 10 ft (3.0m)	25-245-028	26.0	11.8		
4. Latch Head Assembly	25-237-124	8.3	3.8		
A. Quad Latch Finger (4 required)	25-356-098	0.6	0.3		
B. Spring, Blue (Top)	06-014-765	0.2	0.1		
C. Spring, Red (Bottom)	06-014-799	0.2	0.1		
D. Pins (4 Required)	06-019-103	0.2	0.1		
E. Headbase (Top)	25-385-113	5.1	2.3		
F. Headbase (Bottom)	25-385-063	2.8	1.3		
G. Pin	06-099-105	0.3	0.1		
5. Bearing Assembly	25-086-091	9.6	4.4		
A. Bearing Shaft	25-090-051	1.2	0.5		
B. Thrust Bearing (2 Required)	25-093-121	0.5	0.2		
C. Bearing Retainer	25-218-058	1.4	0.6		
D. Bearing Housing	25-161-068	4.1	1.9		
E. O-Ring (Upper)	06-227-277	1.5	0.7		
F. O-Ring (Lower)	06-230-015	0.1	0.0		
6. Inner Tube Connector	25-307-059	1.1	0.5		
Split Inner Tube Connector	25-277-013	1.1	0.5		
7. By-Pass Ball	06-043-426	0.1	0.0		
8. Adjustment Nut	06-015-200	0.1	0.0		
9. Core Lifter Skirtless	25-095-068	0.2	0.1		
10. Inner Tube Shoe	25-097-254	0.4	0.2		
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)	25-197-039	2.0	0.9		
Reaming Shell Sub (Hard Faced)	25-593-088	2.0	0.9		
Reaming Shell STD (RSG 2.980 in.)	20-248-308	2.5	1.1		
Reaming Shell Turbo (RSG 2.980 in.)	20-278-214	2.5	1.1		
12. Core Lifter Skirted Hard Face	27-012-270	0.2	0.1		
13. Inner Tube Shoe Pilot	25-100-223	0.4	0.2		
14. Inner Tube Assembly 5 ft (1.5m)	25-547-019	32.0	14.5		
Inner Tube Assembly 10 ft (3.0m)	25-547-027	45.0	20.4		
Split Inner Tube Assembly 5 ft (1.5m)	25-547-068	32.0	14.5		
Split Inner Tube Assembly 10 ft (1.5m)	25-547-076	45.0	20.4		

NXB Wireline Core Barrel

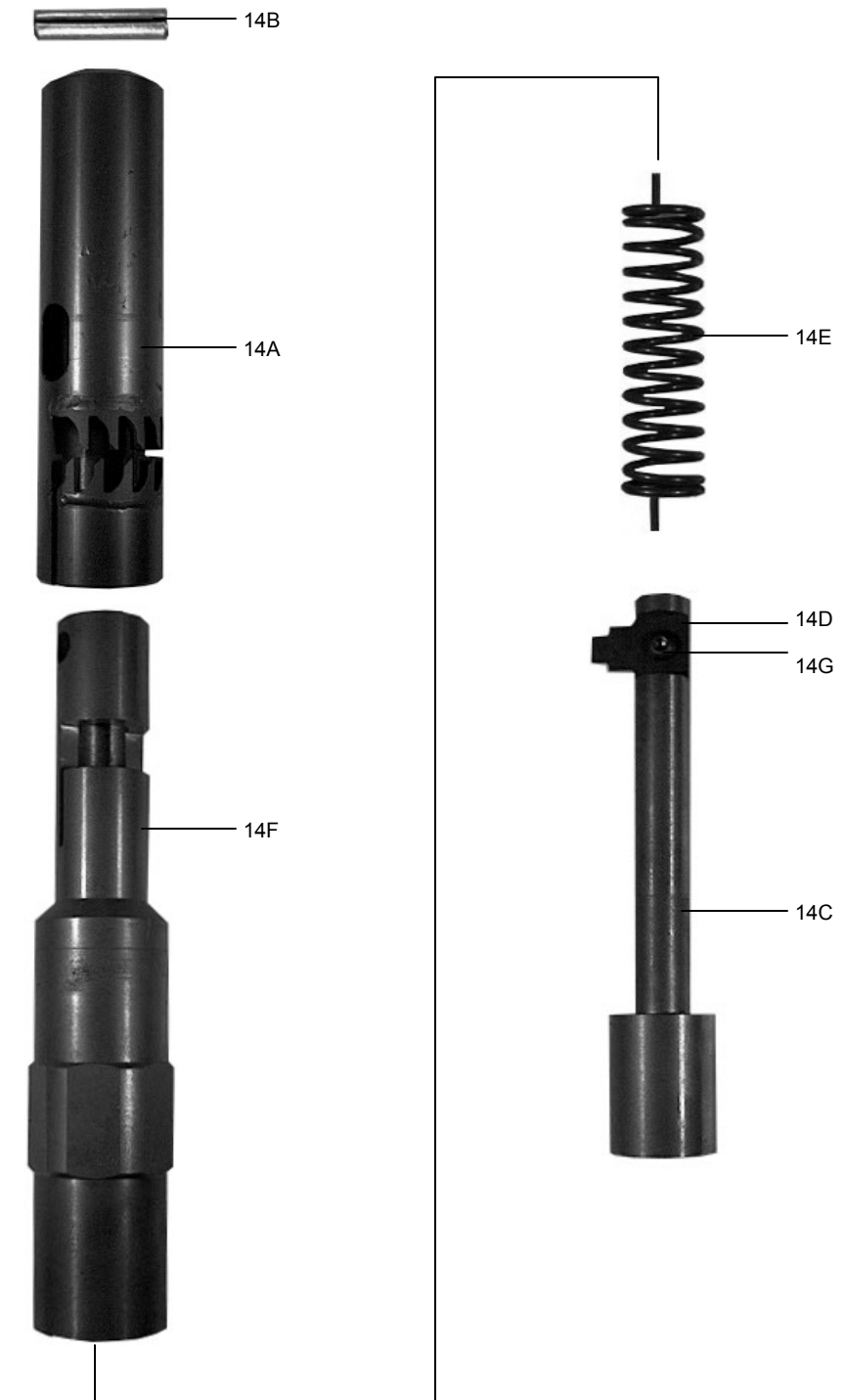


NXB Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
15. Overshot Assembly	25-469-032	8.8	4.0
A. Sleeve	25-549-023	2.9	1.3
B. Roll Pin	06-019-194	0.1	0.0
C. Plunger	25-551-029	1.2	0.5
D. Pawl	25-552-027	0.1	0.0
E. Spring	25-553-025	0.1	0.0
F. Retriever	25-554-023	4.5	2.0
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
16. Overshot Swivel Assembly	25-555-112	3.3	1.5
17. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
18. Positive Latch Lowering Tool	25-361-031	1.7	0.8
19. Loading Funnel NXBWL Rod	25-364-118	4.2	1.9
Loading Funnel NQWL Rod	25-364-027	4.2	1.9

NXB Wireline Core Barrel

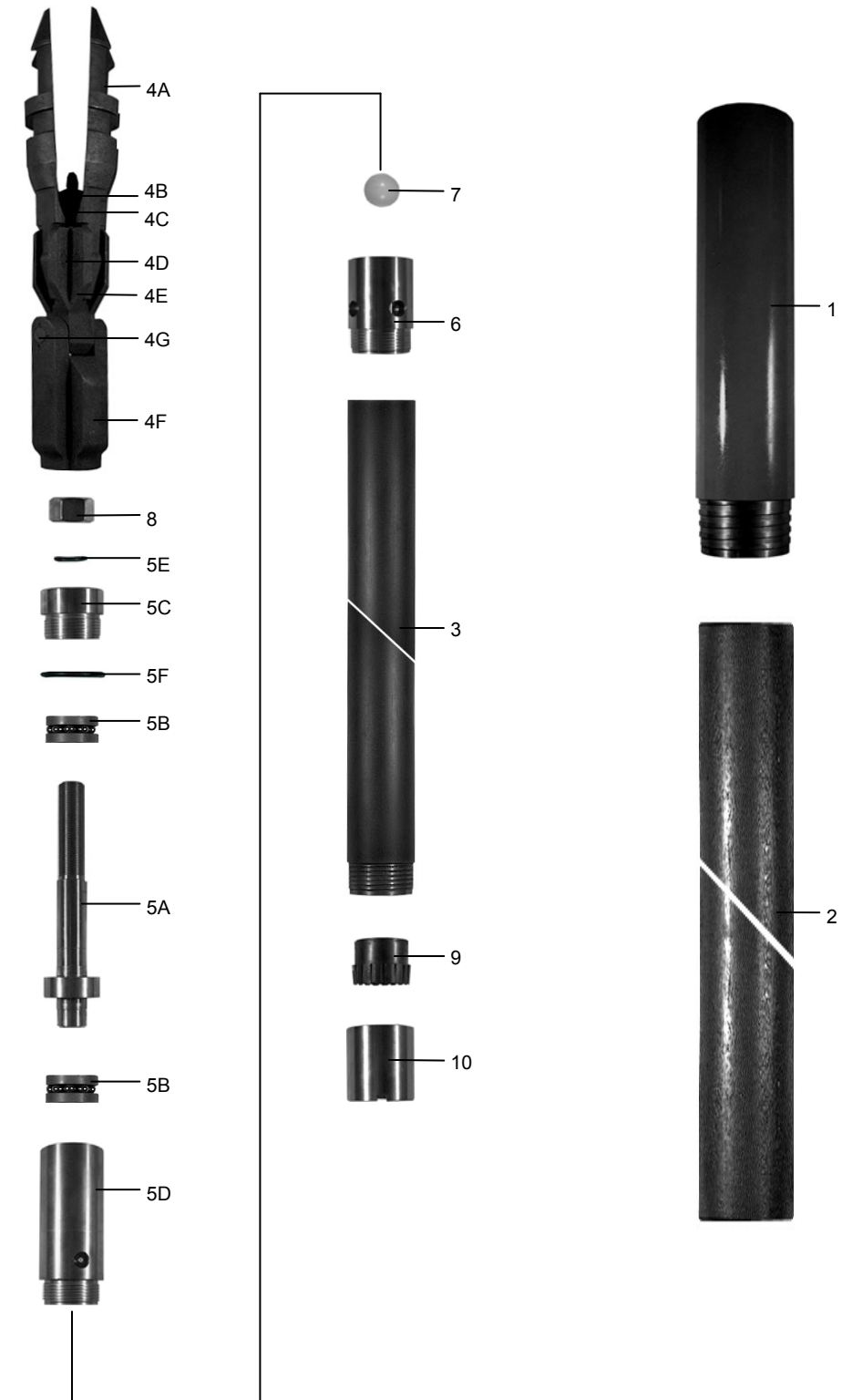
Overshot Assembly



HXB Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
3.655 in.	2.400 in.	3.500 in.	3.000 in.	2.810 in.	2.560 in.
92.84 mm	60.96 mm	88.90 mm	76.20 mm	71.37 mm	65.02 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-439-019	106.0	48.1	
10 ft Complete (3.0m)		25-439-027	171.0	77.6	
5 ft Complete (1.5m) Split Inner Tube		25-439-050	106.0	48.1	
10 ft Complete (3.0m) Split Inner Tube		25-439-068	171.0	77.6	
Spare Parts For Assembly					
1. Locking Coupling HXBWL Thread		25-460-049	47.0	21.3	
Locking Coupling HQWL Thread		25-465-063	47.0	21.3	
2. Outer Tube 5 ft (1.5m)		25-543-018	94.0	42.6	
Outer Tube 10 ft (3.0m)		25-543-026	141.0	64.0	
3. Inner Tube 5 ft (1.5m)		25-542-010	18.0	8.2	
Inner Tube 10 ft (3.0m)		25-542-028	36.0	16.3	
Split Inner Tube 5 ft (1.5m)		25-294-018	18.0	8.2	
Split Inner Tube 10 ft (3.0m)		25-294-026	36.0	16.3	
4. Latch Head Assembly		25-237-132	25.0	11.3	
A. Quad Latch Finger (4 required)		25-356-080	1.1	0.5	
B. Spring, Red (Top)		06-014-807	0.4	0.2	
C. Spring, Gold (Bottom)		06-014-831	0.4	0.2	
D. Pins (4 Required)		06-099-238	0.2	0.1	
E. Headbase (Top)		25-385-121	4.0	1.8	
F. Headbase (Bottom)		25-385-089	6.0	2.7	
G. Pin		06-019-863	0.5	0.2	
5. Bearing Assembly		25-086-083	12.2	5.5	
A. Bearing Shaft		25-090-044	2.6	1.2	
B. Thrust Bearing (2 Required)		25-093-139	2.5	1.1	
C. Bearing Retainer		25-218-033	2.1	0.9	
D. Bearing Housing		25-161-050	4.2	1.9	
E. O-Ring (Upper)		06-227-219	0.1	0.0	
F. O-Ring (Lower)		06-230-064	0.2	0.1	
6. Inner Tube Connector		25-307-042	3.4	1.5	
Split Inner Tube Connector		25-277-021	3.4	1.5	
7. By-Pass Ball		06-043-210	0.4	0.2	
8. Adjustment Nut		06-015-317	0.4	0.2	
9. Core Lifter Skirted Hard Face		25-096-140	0.2	0.1	
10. Inner Tube Shoe		25-097-247	1.2	0.5	
Optional Equipment (Not Shown)					
11. Reaming Shell Sub (Plain)		25-197-062	3.4	1.5	
Reaming Shell Sub (Hard Faced)		25-593-096	3.9	1.8	
Reaming Shell STD (RSG 3.655 in.)		20-248-233	4.5	2.0	
Reaming Shell Turbo (RSG 3.655 in.)		20-248-977	4.5	2.0	
12. Core Lifter Skirtless		25-095-175	0.2	0.1	
13. Inner Tube Shoe Pilot		25-100-231	4.2	1.9	
14. Inner Tube Assembly 5 ft (1.5m)		25-415-019	47.2	21.4	
Inner Tube Assembly 10 ft (3.0m)		25-415-027	65.2	29.6	
Split Inner Tube Assembly 5 ft (1.5m)			47.2	21.4	
Split Inner Tube Assembly 10 ft (1.5m)			65.2	29.6	

HXB Wireline Core Barrel

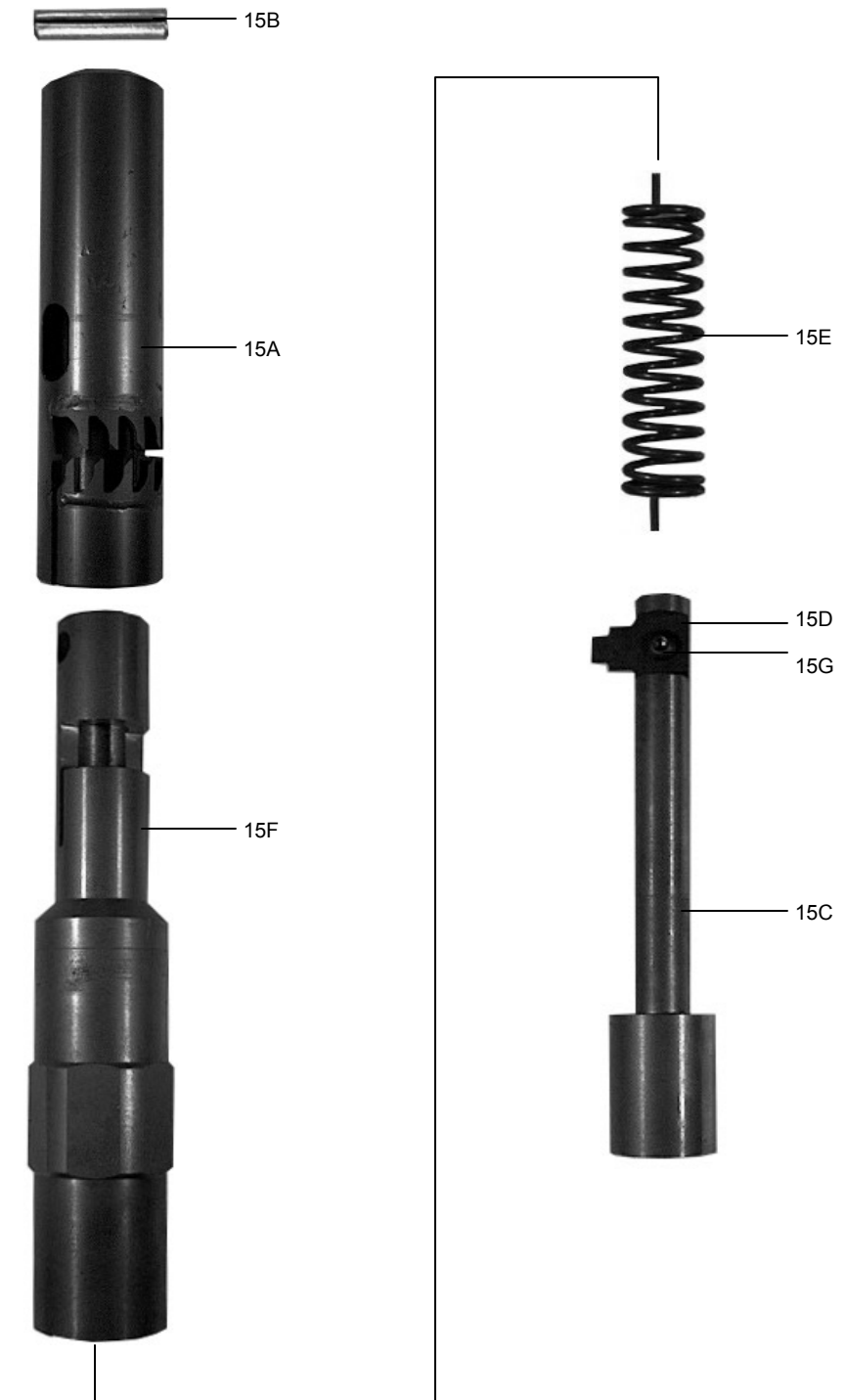


HXB Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
15. Overshot Assembly	25-469-040	8.8	4.0
A. Sleeve	25-549-031	2.9	1.3
B. Roll Pin	06-019-202	0.1	0.0
C. Plunger	25-551-037	1.2	0.5
D. Pawl	25-552-035	0.1	0.0
E. Spring	25-553-033	0.1	0.0
F. Retriever	25-554-031	4.5	2.0
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
16. Overshot Swivel Assembly	25-555-112	3.3	1.5
17. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
18. Positive Latch Lowering Tool	25-361-023	1.7	0.8
19. Loading Funnel HXBWL Rod	25-364-126	4.2	1.9
Loading Funnel HQWL Rod	25-364-035	4.2	1.9

HXB Wireline Core Barrel

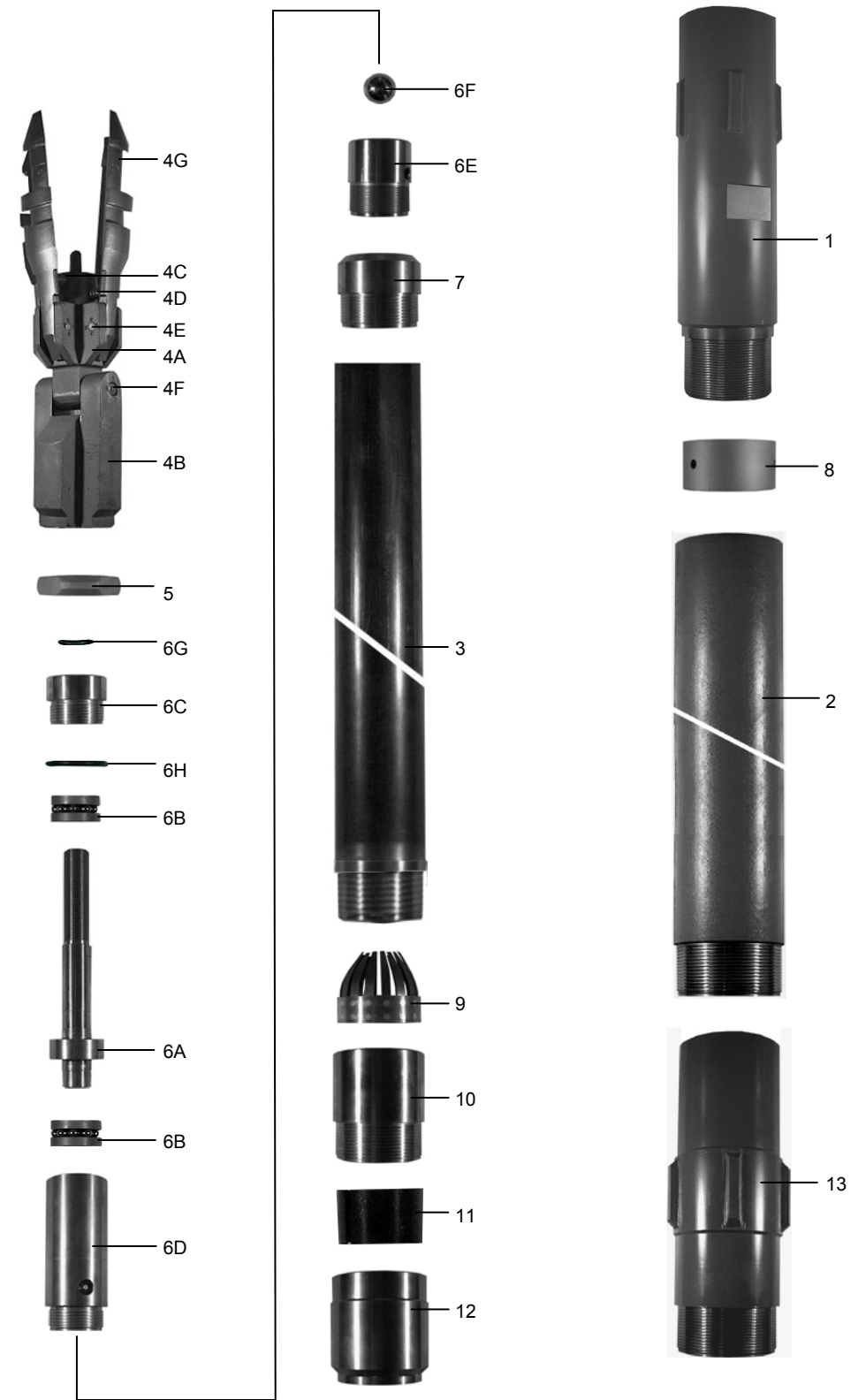
Overshot Assembly



4-5/8x3.00 Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
5.500 in.	3.000 in.	4.625 in.	3.875 in.	3.500 in.	3.125 in.
139.70 mm	76.20 mm	117.48 mm	98.43 mm	88.90 mm	79.38 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-637-299	191.0	86.6		
10 ft Complete (3.0m)	25-637-174	278.0	126.1		
5 ft Complete (1.5m) Split Inner Tube	25-637-300	191.0	86.6		
10 ft Complete (3.0m) Split Inner Tube	25-637-471	278.0	126.1		
Spare Parts For Assembly					
1. Locking Coupling Stabilized to 5.470	25-465-220	27.4	12.4		
2. Outer Tube 5 ft (1.5m)	25-637-307	64.0	29.0		
Outer Tube 10 ft (3.0m)	25-637-059	117.0	53.1		
3. Inner Tube 5 ft (1.5m)	25-058-017	33.0	15.0		
Inner Tube 10 ft (3.0m)	25-058-025	67.0	30.4		
Split Inner Tube 5 ft (1.5m)	25-207-044	33.0	15.0		
Split Inner Tube 10 ft (3.0m)	25-207-051	67.0	30.4		
4. Latch Head Assembly	25-237-116	22.6	10.3		
A. Headbase (Top)	25-385-105	5.9	2.7		
B. Headbase (Bottom)	25-385-097	11.1	5.0		
C. Spring, Red (Top)	06-014-906	0.4	0.2		
D. Spring, Gold (Bottom)	06-014-914	0.4	0.2		
E. Pins (4 required)	06-019-921	0.2	0.1		
F. Pin	06-099-196	0.5	0.2		
G. Quad Latch Fingers	25-356-148	5.0	2.3		
5. Landing Shoulder Nut	25-430-125	1.8	0.8		
6. Bearing Assembly	25-086-141	15.8	7.2		
A. Bearing Shaft	25-642-141	2.8	1.3		
B. Thrust Bearing (2 Required)	25-093-139	0.8	0.3		
C. Bearing Retainer	25-642-166	2.1	0.9		
D. Bearing Housing	25-161-050	4.2	1.9		
E. By-Pass Adapter	25-232-067	5.3	2.4		
F. By-Pass Ball	06-043-202	0.4	0.2		
G. O-Ring (Upper)	06-227-219	0.1	0.0		
H. O-Ring (Lower)	06-230-064	0.2	0.1		
7. Inner Tube Connector	25-637-158	2.0	0.9		
Split Inner Tube Connector (Not Shown)	25-637-067	2.0	0.9		
8. Landing Shoulder Ring	25-429-176	1.3	0.6		
9. Basket Catcher 3.00 Core	25-395-021	0.2	0.1		
10. Upper Inner Tube Shoe 3.00 Core	25-637-091	1.5	0.7		
11. Core Lifter Skirtless HF 3.00 Core	25-094-087	0.3	0.1		
12. Lower Pilot Inner Tube Shoe 3.00 Core	25-100-116	2.2	1.0		
13. Outer Tube Sub Stabilized to 5.470	25-637-075	18.4	8.3		
Optional Equipment (Not Shown)					
9. Basket Catcher 2.75 Core	25-395-013	0.2	0.1		
10. Upper Inner Tube Shoe 2.75 Core	25-560-160	1.5	0.7		
11. Core Lifter Skirtless HF 2.75 Core	29-707-179	0.3	0.1		
12. Lower Pilot Inner Tube Shoe 2.75 Core	25-560-178	2.2	1.0		
13. Inner Tube Assembly 5 ft (1.5m)	25-637-323	0.2	0.1		
Inner Tube Assembly 10ft (3.0m)	25-637-190	1.5	0.7		
14. Split Inner Tube Assembly 5 ft (1.5m)	25-637-324	0.3	0.1		
Split Inner Tube Assembly 10 ft (3.0m)	25-637-562	2.2	1.0		

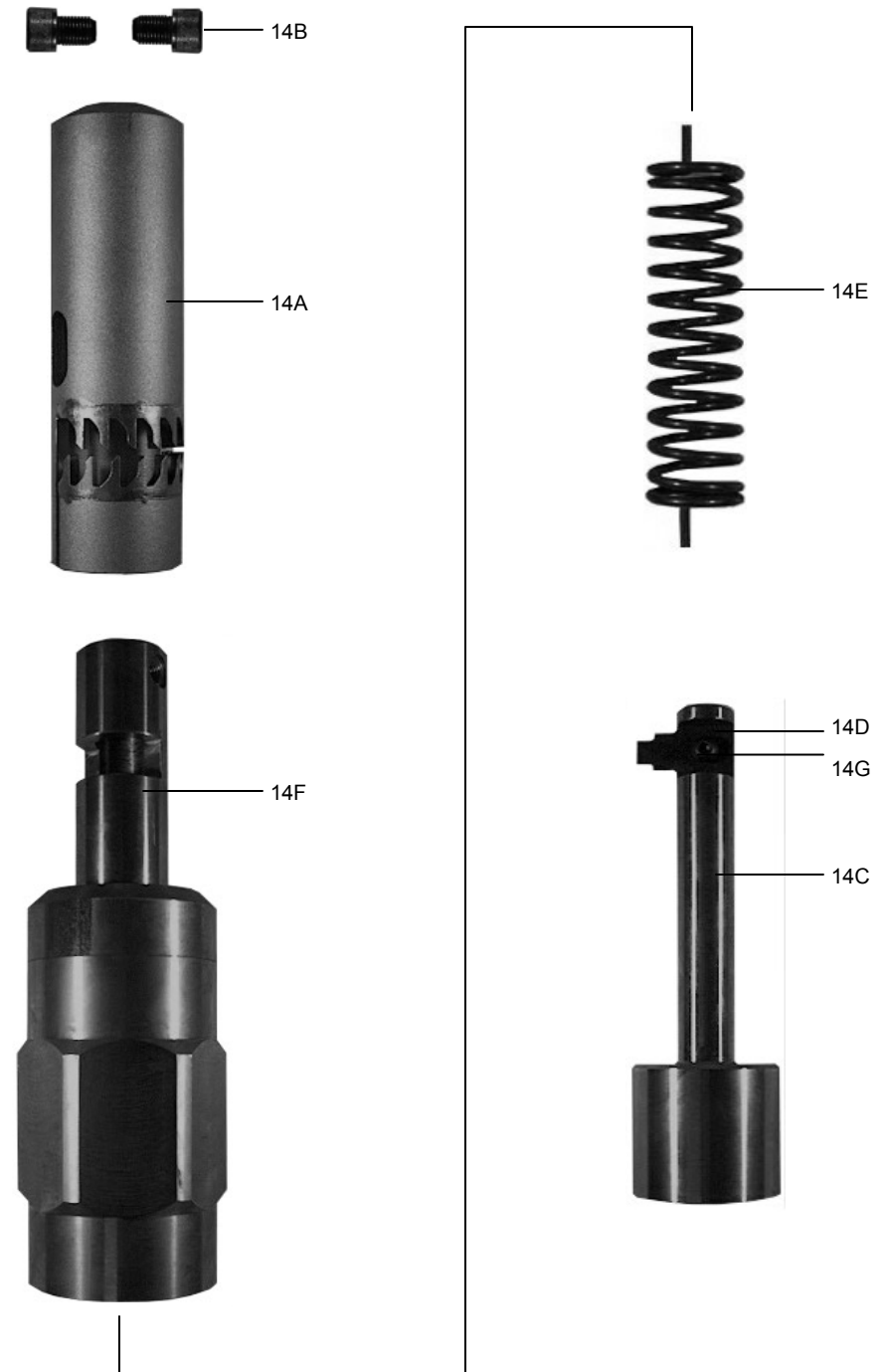
4-5/8x3.00 Wireline Core Barrel



4-5/8x3.00 Wireline Core Barrel

Overshot Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
14. Overshot Assembly	25-270-026	19.8	9.0
A. Sleeve	25-549-031	3.8	1.7
B. Socket Head Cap Screw (2 Req)	06-009-567	0.2	0.1
C. Plunger	25-270-042	2.0	0.0
D. Pawl	25-552-035	0.1	0.0
E. Spring	25-553-033	0.2	0.1
F. Retriever	25-270-034	13.8	6.3
G. Capscrew	06-029-045	0.1	0.1
H. Overshot Cocking Tool	06-033-740	1.2	0.5
Optional Equipment (Not Shown)			
15. Overshot Swivel Assembly	25-555-112	3.3	1.5
16. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
17. Positive Latch Lowering Tool	25-361-049	3.0	1.4
18. Loading Funnel	25-364-209	6.0	2.7

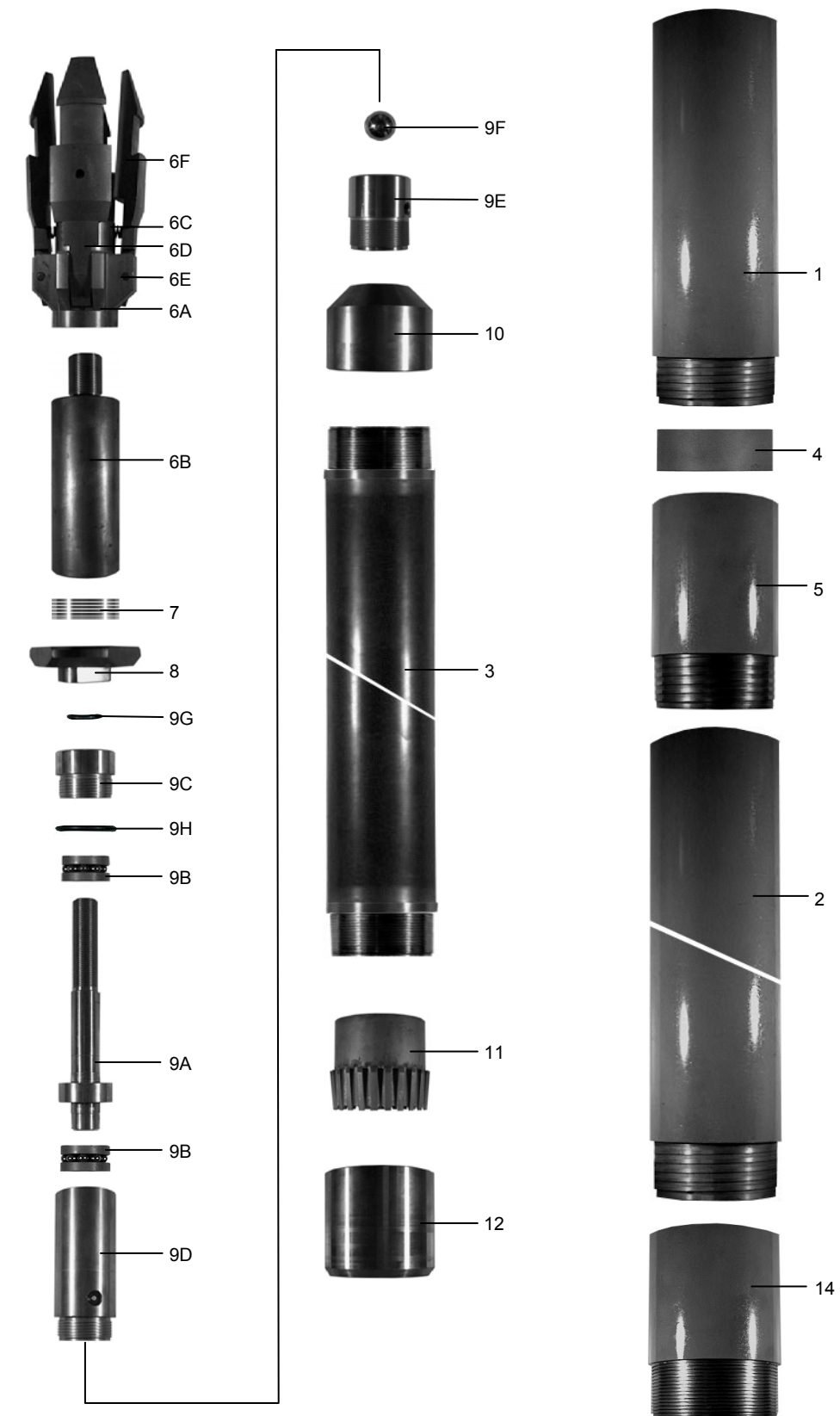
4-5/8x3.00 Wireline Core Barrel Overshot Assembly



5-3/4x4.00 Wireline Core Barrel

5-3/4x4.00 Wireline Core Barrel					
Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
6.000 in.	4.000 in.	5.750 in.	5.000 in.	4.625 in.	4.250 in.
152.40 mm	101.60 mm	146.05 mm	127.00 mm	120.65 mm	107.95 mm
Core Barrel Assembly					
Part Description	Part Number	Weight (lbs)	Weight (kg)		
5 ft Complete (1.5m)	25-650-533	306.0	139.1		
10 ft Complete (3.0m)	25-650-509	429.4	195.2		
5 ft Complete (1.5m) Split Inner Tube	N/A				
10 ft Complete (3.0m) Split Inner Tube	N/A				
Spare Parts For Assembly					
1. Locking Coupling PW Thread	25-650-170	32.4	14.7		
Locking Coupling 5.75x4.00 WL Rod	25-650-169	32.4	14.7		
2. Outer Tube 5 ft (1.5m)	25-650-193	110.9	50.4		
Outer Tube 10 ft (3.0m)	25-650-375	221.2	100.5		
3. Inner Tube 5 ft (1.5m)	25-650-557	49.5	22.5		
Inner Tube 10 ft (3.0m)	25-650-524	95.0	43.2		
Split Inner Tube 5 ft (1.5m)	N/A				
Split Inner Tube 10 ft (3.0m)	N/A				
4. Landing Shoulder Ring	25-650-177	1.7	0.8		
5. Landing Shoulder Sub	25-650-185	13.1	6.0		
6. Latch Head Assembly	25-650-565	40.3	18.3		
A. Headbase (Top)	25-650-573	10.1	4.6		
B. Headbase (Bottom)	25-650-581	15.5	7.0		
C. Spring, Red (Top)	06-116-015	0.1	0.0		
D. Spring, Gold (Bottom)	06-116-023	0.1	0.0		
E. Pins (4 required)	06-099-360	0.1	0.0		
F. Quad Latch Fingers	25-650-110	3.6	1.6		
7. Shim Set	25-115-056	0.5	0.2		
8. Landing Shoulder Nut	25-650-144	3.9	1.8		
9. Bearing Assembly	25-086-141	15.8	7.2		
A. Bearing Shaft	25-642-141	2.8	1.3		
B. Thrust Bearing (2 Required)	25-093-139	0.8	0.4		
C. Bearing Retainer	25-642-166	2.4	1.1		
D. Bearing Housing	25-161-050	4.2	1.9		
E. By-Pass Adapter	25-232-067	5.3	2.4		
F. By-Pass Ball	06-043-202	0.4	0.2		
G. O-Ring (Upper)	06-227-219	0.1	0.0		
H. O-Ring (Lower)	06-230-064	0.1	0.0		
10. Inner Tube Connector	25-650-599	4.7	2.1		
11. Core Lifter Skirted Hard Faced	25-096-074	1.4	0.6		
12. Inner Tube Shoe	25-650-607	2.7	1.2		
13. Thread Protector Sub	25-107-038	15.6	7.1		
14. Outer Tube Sub	25-650-201	13.5	6.1		
Optional Equipment (Not Shown)					
15. Core Lifter Skirtless Hard Faced	25-094-095	1.0	0.5		
16. Inner Tube Assembly 5 ft (1.5m)	25-650-540	118.8	54.0		
Inner Tube Assembly 10 ft (3.0m)	25-650-516	164.3	74.7		
17. Split Inner Tube Assembly 5 ft (1.5m)	N/A				
Split Inner Tube Assembly 10 ft (3.0m)	N/A				

5-3/4x4.00 Wireline Core Barrel



5-3/4x4.00 Wireline Core Barrel

Optional Equipment			
Part Description	Part Number	Weight (lbs)	Weight (kg)
18. NW Hoist Plug	25-270-182	34.0	15.5
19. Positive Latch Lowering Tool	25-650-391	10.4	4.7
20. Loading Funnel	25-650-250	19.6	8.9
21. Simple Overshot	25-650-417	19.2	8.7
22. Stabilized Sinker Bar	N/A		

5-3/4x4.00 Wireline Core Barrel

Optional Equipment



8 x 5-7/8 Wireline Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
8.250 in.	5.875 in.	8.000 in.	7.000 in.	6.500 in.	6.125 in.
203.20 mm	149.23 mm	190.50 mm	177.80 mm	165.10 mm	155.58 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	25-022-609	630.3	286.5
10 ft Complete (3.0m)	25-022-625	881.3	400.6
5 ft Complete (1.5m) Split Inner Tube	25-022-610	625.3	284.2
10 ft Complete (3.0m) Split Inner Tube	N/A	880.3	400.2

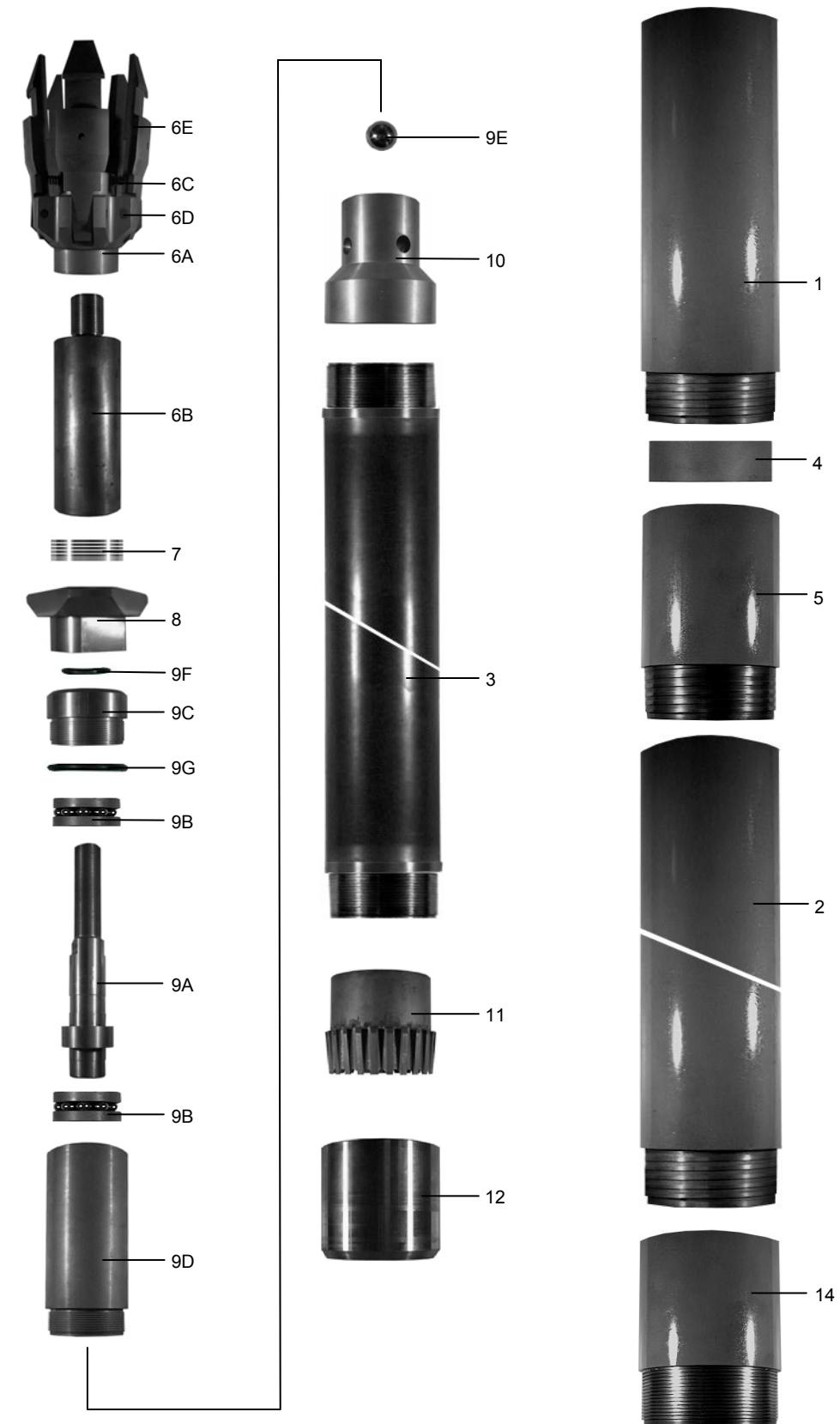
Spare Parts For Assembly

1. Locking Coupling 8.00x7.00 WL Rod Thread	25-465-295	89.1	40.5
2. Outer Tube 5 ft (1.5m)	25-040-502	205.0	93.2
Outer Tube 10 ft (3.0m)	25-040-510	398.0	180.9
3. Inner Tube 5 ft (1.5m)	25-060-500	71	32.3
Inner Tube 10 ft (3.0m)	25-060-518	129	58.6
Split Inner Tube 5 ft (1.5m)	25-222-020	66	30.0
Split Inner Tube 10 ft (3.0m)	25-222-028	130	59.1
4. Landing Shoulder Ring	25-429-200	2.7	1.2
5. Landing Shoulder Sub	25-429-192	56.5	25.7
6. Latch Head Assembly	25-237-272	62.4	28.4
A. Headbase (Top)	25-385-303	26.3	12.0
B. Headbase (Bottom)	25-385-311	31.2	14.2
C. Spring, Gold	06-116-064	0.1	0.0
D. Pins (4 required)	06-019-350	0.1	0.0
E. Quad Latch Fingers	25-356-171	4.7	2.1
7. Shim Set	25-115-163	0.9	0.4
8. Landing Shoulder Nut	25-430-158	12.4	5.6
9. Bearing Assembly	25-086-125	57.4	26.1
A. Bearing Shaft	25-090-143	23.6	10.7
B. Thrust Bearing (2 Required)	25-093-097	3.5	1.6
C. Bearing Retainer	25-218-090	9.0	4.1
D. Bearing Housing	25-161-100	20.9	9.5
E. By-Pass Ball	06-043-160	0.2	0.1
F. O-Ring (Upper)	06-211-304	0.1	0.0
G. O-Ring (Lower)	06-210-107	0.1	0.0
10. Inner Tube Connector	25-232-059	17.4	7.9
11. Core Lifter Skirted Hard Faced	25-096-082	2.4	1.1
12. Inner Tube Shoe	25-243-031	6.3	2.9
13. Thread Protector Sub	25-107-046	14.1	6.4
14. Outer Tube Sub	25-117-110	48.4	22.0

Optional Equipment (Not Shown)

15. Core Lifter Skirtless Hard Faced	25-094-103	2.1	1.0
16. Inner Tube Assembly 5 ft (1.5m)	25-022-617	214.5	97.5
Inner Tube Assembly 10 ft (3.0m)	25-022-633	272.5	123.9
17. Split Inner Tube Assembly 5 ft (1.5m)	25-022-618	209.5	95.2
Split Inner Tube Assembly 10 ft (3.0m)	N/A	273.5	124.3

8 x 5-7/8 Wireline Core Barrel



8 x 5-7/8 Wireline Core Barrel

Optional Equipment			
Part Description	Part Number	Weight (lbs)	Weight (kg)
18. NW Hoist Plug	25-270-182	34.0	15.5
19. Positive Latch Lowering Tool	25-361-134	14.0	6.4
20. Loading Funnel	25-364-211	22.7	10.3
21. Simple Overshot	25-364-159	34.7	15.8
22. Stabilized Sinker Bar	25-182-924	109.0	49.5

8 x 5-7/8 Wireline Core Barrel

Optional Equipment



Conventional Core Barrels

American Diamond Tool conventional core barrels are a double tube system with heavy duty bearing supported shaft allowing for smooth trouble free operation. The conventional barrel requires that the drill string be pulled to recover the cut core from the inner tube barrel. The conventional core barrel is ideal for shallow holes or spot coring.

Conventional Core Barrel Dimensions

Description	Hole Size		Core Size	
	Inch	MM	Inch	MM
AW34	1.895	48.13	1.320	33.53
BW44	2.365	60.07	1.755	44.58
NWD4	2.985	75.82	2.060	52.32
HWD4	3.655	92.84	2.400	60.96
4-5/8x3.00	4.875	123.83	3.000	76.20
5-3/4x4.00	6.000	152.40	4.000	101.60
7-3/4x5-7/8	8.000	203.20	5.875	149.23

Narrow Kerf

The AW34 and BW44 conventional core barrels are well suited for underground conditions on small light weight drills where tight conditions are the norm. These barrels are a narrow kerf double tube system with a double race bearing for smooth trouble free operation. The bearing system is equipped with an external grease fitting which allows for easy lubrication of bearing and extended life. The core barrel head is equipped with hard faced wear strips for long life.



D Series

The D Series conventional core barrels, NWD4 and HWD4, are commonly used in geotechnical drilling applications. These barrels are a double tube system with a double race bearing for smooth trouble free operation. The bearing system is equipped with an external grease fitting which allows for easy lubrication of bearing and extended life. The core barrel head has hard face wear strips for long life.



Large Diameter

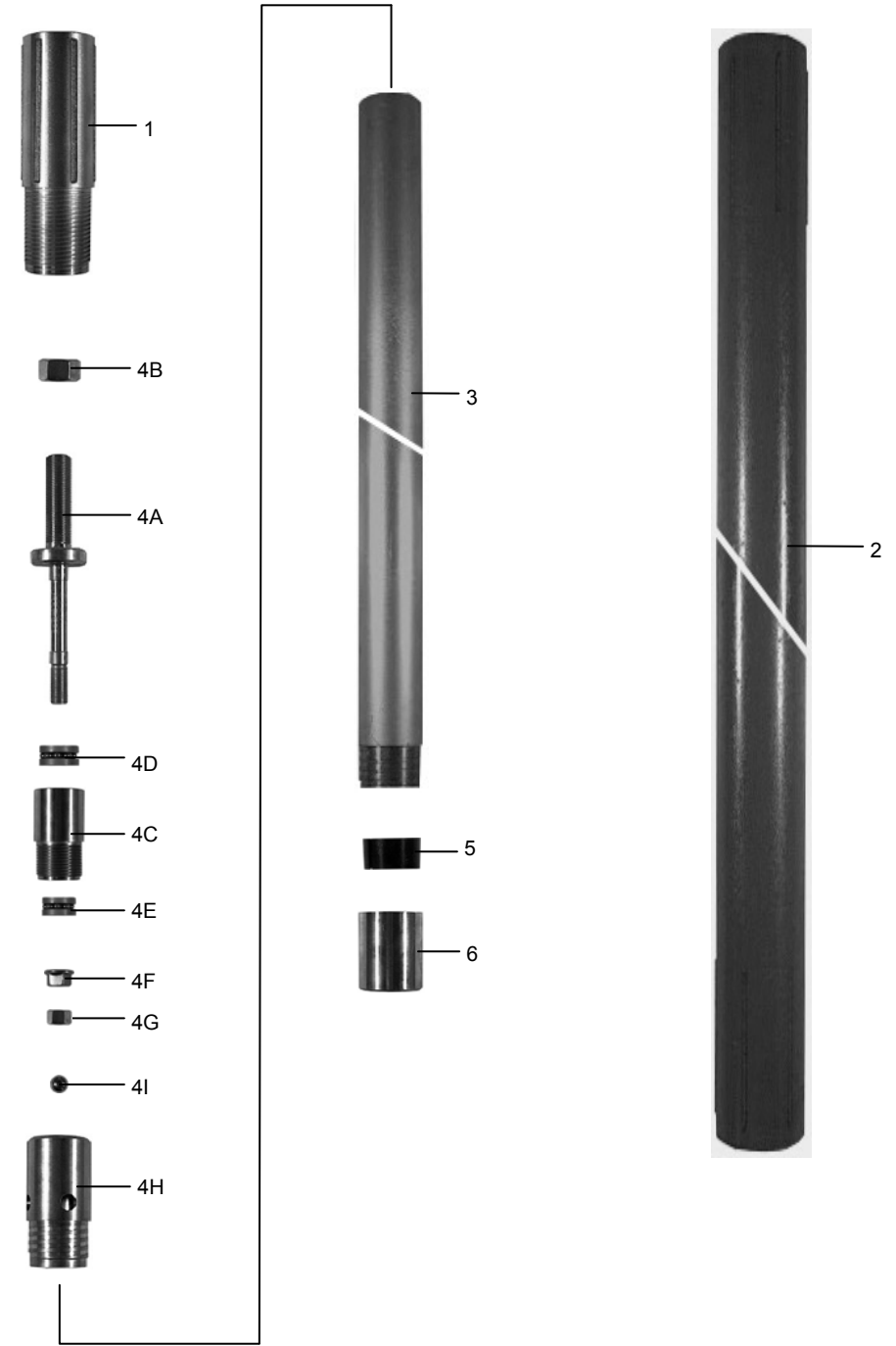
American Diamond Tool's large diameter conventional core barrels are state of the art for high volume sampling. They are particularly well suited for spot coring with rotary rigs. The barrels are a double tube system with a single race heavy duty bearing. The head is hard faced for long life. The annulus between the outer and inter tube is design to allow for high volume circulation of air, water or high viscosity muds.



AW34 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
1.895 in.	1.320 in.	1.850 in.	1.622 in.	1.562 in.	1.372 in.
48.13 mm	33.53 mm	46.99 mm	41.20 mm	39.67 mm	34.85 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
2 ft Complete (.61m)		25-316-084	12.4	5.6	
5 ft Complete (1.5m)		25-316-011	23.0	10.4	
10 ft Complete (3.0m)		25-316-029	38.5	17.5	
Spare Parts For Assembly					
1. Core Barrel Head AW Rod		25-192-089	2.1	1.0	
Core Barrel Head AWJ Rod		25-192-220	2.1	1.0	
A. Grease Fitting		06-041-016	0.1	0.0	
2. Outer Tube 2 ft (.61m)		25-309-089	3.2	1.5	
Outer Tube 5 ft (1.5m)		25-309-016	9.1	4.1	
Outer Tube 10 ft (3.0m)		25-309-024	17.9	8.1	
3. Inner Tube 2 ft (.61m)		25-241-084	2.8	1.3	
Inner Tube 5 ft (1.5m)		25-241-019	7.4	3.4	
Inner Tube 10 ft(3.0m)		25-241-027	14.6	6.6	
4. Bearing Assembly		25-085-093	2.3	1.0	
A. Bearing Shaft		25-089-012	0.4	0.2	
B. Adjusting Locking Nut		06-015-192	0.1	0.0	
C. Bearing Retainer		25-092-016	0.4	0.2	
D. Thrust Ball Bearing, Upper		25-093-014	0.2	0.1	
E. Thrust Ball Bearing, Lower		25-093-022	0.1	0.0	
F. Hex Nut, Flanged		06-042-139	0.1	0.0	
G. Hex Nut, Regular		06-015-176	0.1	0.0	
H. Inner Tube Connector		25-081-092	0.9	0.4	
I. By-Pass Ball, Stainless Steel		06-043-111	0.1	0.0	
5. Core Lifter, Skirtless		25-095-156	0.1	0.0	
6. Inner Tube Shoe		25-097-122	0.1	0.0	
7. Thread Protector (Not Shown)		25-105-156	1.1	0.5	
Optional Equipment (Not Shown)					
8. Reaming Shell Sub (Plain)		25-197-138	0.3	0.1	
Reaming Shell Sub (Hard Faced)		25-195-116	0.4	0.2	
Reaming Shell STD (RSG 1.895 in)		20-248-431	0.8	0.3	
Reaming Shell Turbo (RSG 1.895 in)		20-278-289	0.8	0.3	
9. Outer Tube Extension 5 ft (1.5m)		25-372-012	9.1	4.1	
Outer Tube Extension 10 ft (3.0m)		25-372-020	17.9	8.1	
10. Inner Tube Extension 5 ft (1.5m)		25-371-014	7.4	3.4	
Inner Tube Extension 10 ft (3.0m)		25-371-022	14.6	6.6	

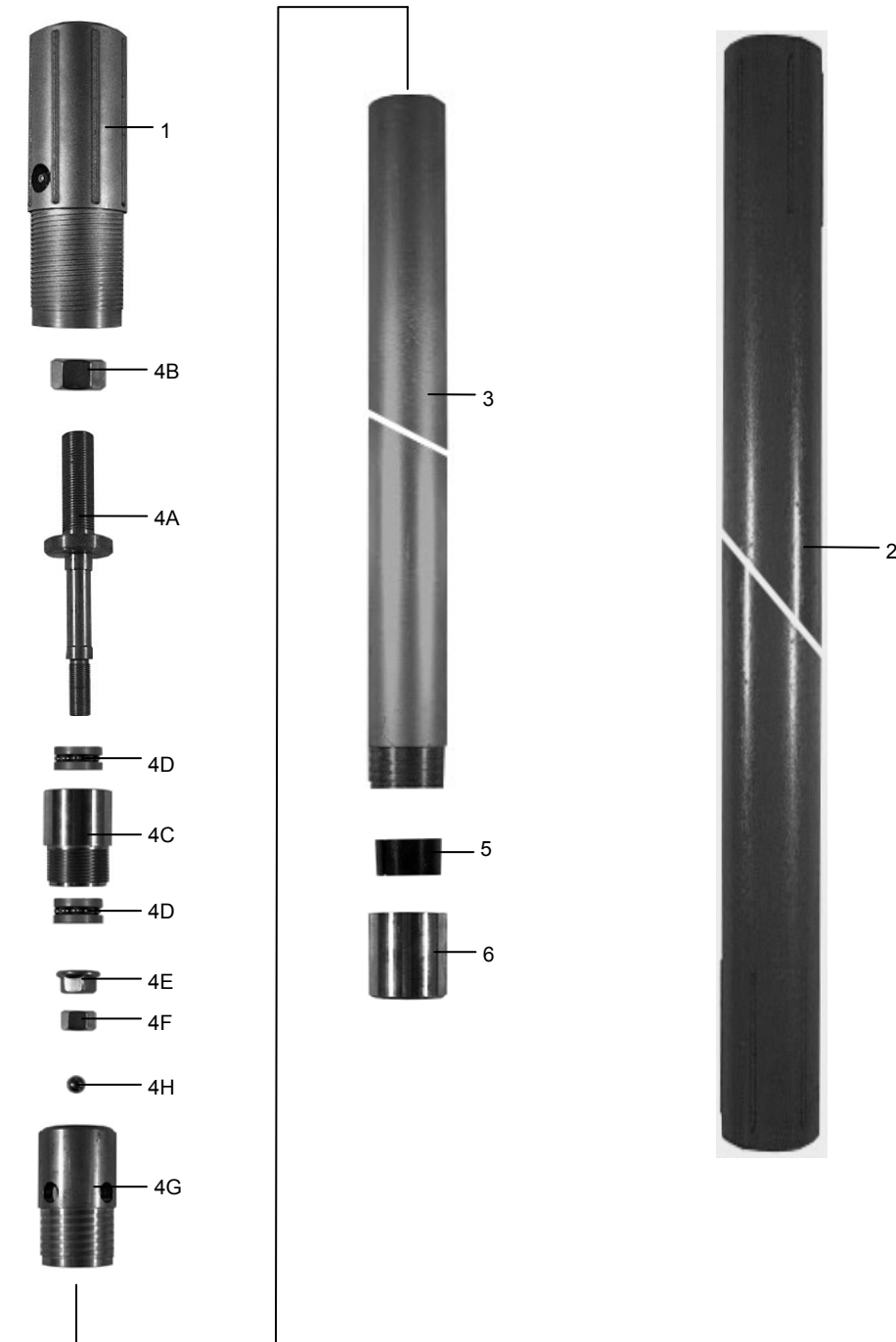
AW34 Conventional Core Barrel



BW44 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.365 in.	1.755 in.	2.312 in.	2.061 in.	2.000 in.	1.810 in.
60.07 mm	44.58 mm	58.72 mm	52.35 mm	50.80 mm	45.97 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-015-017	32.2	14.6	
10 ft Complete (3.0m)		25-015-025	56.2	25.5	
Spare Parts For Assembly					
1. Core Barrel Head BW Rod		25-192-097	3.9	1.8	
Core Barrel Head BWJ Rod		25-192-238	3.9	1.8	
A. Grease Fitting		06-041-016	0.1	0.0	
2. Outer Tube 5 ft (1.5m)		25-366-014	12.0	5.4	
Outer Tube 10 ft (3.0m)		25-366-022	24.0	10.9	
3. Inner Tube 5 ft (1.5m)		25-360-017	10.0	4.5	
Inner Tube 10 ft(3.0m)		25-360-025	20.0	9.1	
4. Bearing Assembly		25-085-199	3.8	1.7	
A. Bearing Shaft		25-089-020	0.9	0.4	
B. Adjusting Locking Nut		06-015-600	0.3	0.1	
C. Bearing Retainer		25-092-024	0.9	0.4	
D. Thrust Ball Bearing 2 Required		25-093-030	0.3	0.1	
E. Hex Nut, Flanged		06-042-147	0.1	0.1	
F. Hex Nut, Regular		06-015-184	0.1	0.0	
G. Inner Tube Connector		25-081-100	0.8	0.4	
H. By-Pass Ball, Stainless Steel		06-043-111	0.1	0.0	
5. Core Lifter, Skirtless		25-095-191	0.3	0.1	
6. Inner Tube Shoe		25-097-213	0.6	0.3	
7. Thread Protector (Not Shown)		25-105-164	1.6	0.7	
Optional Equipment (Not Shown)					
8. Reaming Shell Sub (Plain)		25-197-146	0.9	0.4	
Reaming Shell Sub (Hard Faced)		25-593-054	0.9	0.4	
Reaming Shell STD (RSG 2.365 in)		20-248-555	2.0	0.9	
Reaming Shell Turbo (RSG 2.365 in)		20-278-255	2.0	0.9	
9. Outer Tube Extension 5 ft (1.5m)		25-399-072	12.0	5.4	
Outer Tube Extension 10 ft (3.0m)		25-399-031	24.0	10.9	
10. Inner Tube Extension 5 ft (1.5m)		25-399-064	10.0	4.5	
Inner Tube Extension 10 ft (3.0m)		25-399-015	20.0	9.1	
11. Outer Tube Extension Sub		25-399-023	4.2	1.9	

BW44 Conventional Core Barrel



NWD4 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
2.985 in.	2.060 in.	2.906 in.	2.562 in.	2.375 in.	2.135 in.
75.82 mm	52.32 mm	73.81 mm	65.07 mm	60.33 mm	54.23 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
2 ft Complete (.61m)	25-191-081	32.5	14.7
5 ft Complete (1.5m)	25-191-016	57.8	26.2
10 ft Complete (3.0m)	25-191-024	98.4	44.6
5 ft Complete (1.5m) Split Inner Tube	25-191-057	140.4	63.7
10 ft Complete (3.0m) Split Inner Tube	25-191-065	184.8	83.8

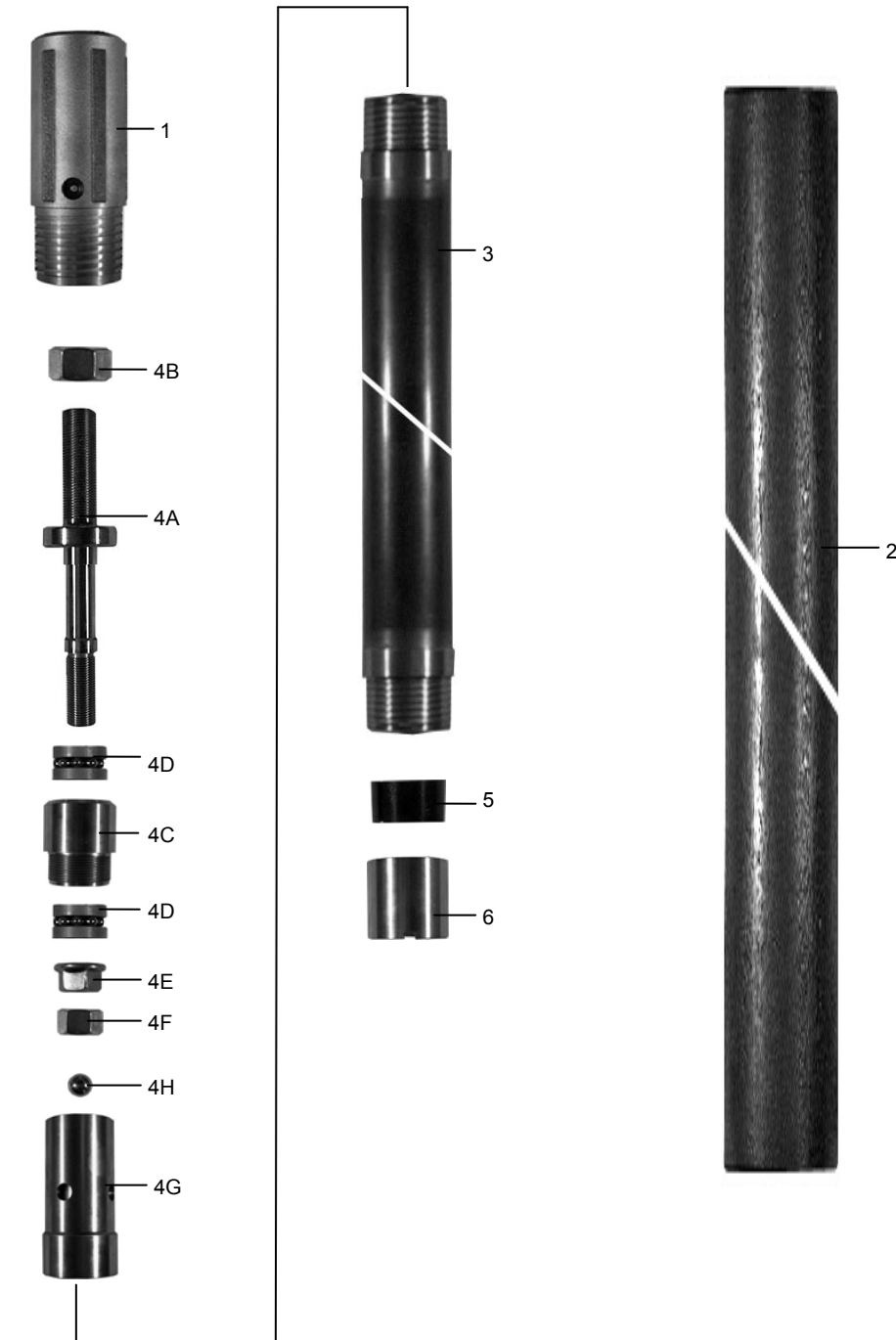
Spare Parts For Assembly

1. Core Barrel Head NW Rod	25-192-030	8.0	3.6
Core Barrel Head NWJ Rod	25-192-212	8.0	3.6
A. Grease Fitting	06-041-016	0.1	0.0
2. Outer Tube 2 ft (.61m)	25-272-055	10.8	4.9
Outer Tube 5 ft (1.5m)	25-272-014	27.8	12.6
Outer Tube 10 ft (3.0m)	25-272-022	53.6	24.3
3. Inner Tube 2 ft (.61m)	25-273-053	5.8	2.6
Inner Tube 5 ft (1.5m)	25-273-012	14.2	6.4
Inner Tube 10 ft(3.0m)	25-273-020	29.0	13.1
4. Bearing Assembly	25-271-032	5.2	2.4
A. Bearing Shaft	25-089-053	1.4	0.6
B. Adjusting Locking Nut	06-015-218	0.3	0.1
C. Bearing Retainer	25-092-057	0.3	0.1
D. Thrust Ball Bearing, 2 Required	25-093-121	0.4	0.2
E. Hex Nut, Flanged	06-042-162	0.3	0.1
F. Hex Nut, Regular	06-015-200	0.1	0.0
G. Inner Tube Connector	25-274-036	2.1	1.0
H. By-Pass Ball, Stainless Steel	06-043-111	0.1	0.0
5. Core Lifter, Skirtless	25-095-076	0.1	0.0
6. Inner Tube Shoe	25-097-171	0.6	0.3
7. Thread Protector (Not Shown)	25-105-156	1.9	0.9

Optional Equipment (Not Shown)

8. Reaming Shell Sub (Plain)	25-197-112	2.0	0.9
Reaming Shell Sub (Hard Faced)	25-593-070	2.2	1.0
Reaming Shell STD (RSG 2.985 in)	20-248-340	3.0	1.4
Reaming Shell Turbo (RSG 2.895 in)	20-278-222	3.0	1.4
9. Split Inner Tube 5 ft (1.5m)	25-281-015	14.2	6.4
Split Inner Tube 10 ft (3.0m)	25-281-023	29.0	13.2
10. Inner Tube Shoe Pilot	25-100-165	0.6	0.3
11. Core Lifter Skirtless Hard Face	25-094-053	0.1	0.0

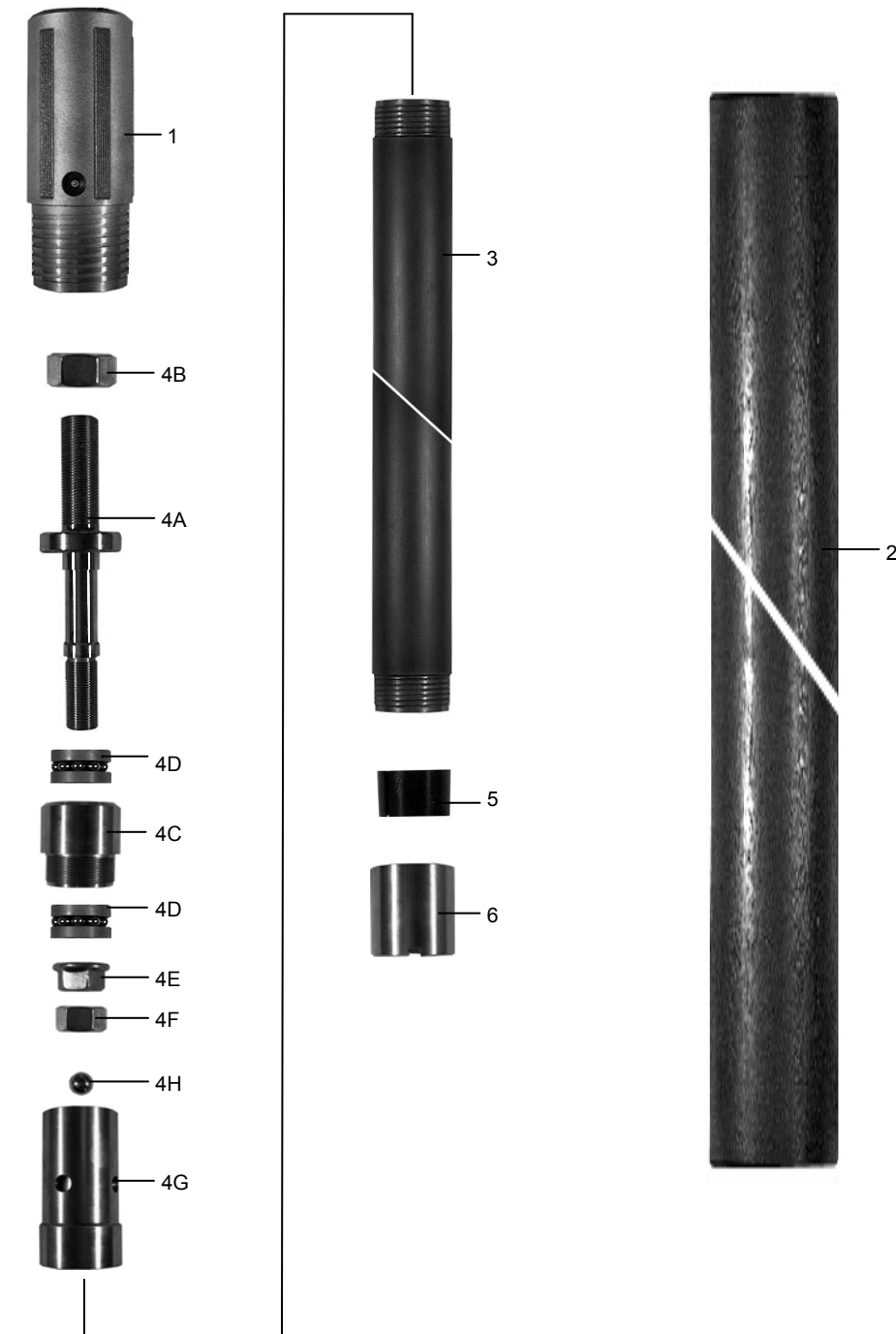
NWD4 Conventional Core Barrel



HWD4 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
3.655 in.	2.400 in.	3.500 in.	3.062 in.	2.875 in.	2.562 in.
92.84 mm	60.96 mm	88.90 mm	77.77 mm	73.03 mm	65.07 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-288-010	93.1	42.2	
10 ft Complete (3.0m)		25-288-028	155.5	70.5	
5 ft Complete (1.5m) Split Inner Tube		25-288-051	93.1	42.2	
10 ft Complete (3.0m) Split Inner Tube		25-288-069	155.5	70.5	
Spare Parts For Assembly					
1. Core Barrel Head NW Rod		25-192-055	12.0	5.4	
Core Barrel Head NWJ Rod		25-192-289	12.0	5.4	
A. Grease Fitting		06-041-016	0.1	0.0	
2. Outer Tube 5 ft (1.5m)		25-287-012	40.4	18.3	
Outer Tube 10 ft (3.0m)		25-287-020	79.5	36.1	
3. Inner Tube 5 ft (1.5m)		25-286-014	22.2	10.1	
Inner Tube 10 ft(3.0m)		25-286-022	45.5	20.6	
4. Bearing Assembly		25-271-040	10.9	4.9	
A. Bearing Shaft		25-089-046	3.0	1.4	
B. Adjusting Locking Nut		06-015-077	0.6	0.3	
C. Bearing Retainer		25-092-040	2.1	1.0	
D. Thrust Ball Bearing, 2 Required		25-093-063	0.6	0.3	
E. Hex Nut, Flanged		06-042-188	0.5	0.2	
F. Hex Nut, Regular		06-015-226	0.3	0.1	
G. Inner Tube Connector		25-274-044	3.1	1.4	
H. By-Pass Ball, Stainless Steel		06-043-038	0.1	0.0	
5. Core Lifter, Skirtless		25-095-175	0.3	0.1	
6. Inner Tube Shoe		25-097-189	0.6	0.3	
7. Thread Protector (Not Shown)		25-105-149	6.6	3.0	
Optional Equipment (Not Shown)					
8. Reaming Shell Sub (Plain)		25-197-120	3.3	1.5	
Reaming Shell Sub (Hard Faced)		25-593-104	3.3	1.5	
Reaming Shell STD (RSG 3.655 in)		20-248-241	4.0	1.8	
Reaming Shell Turbo (RSG 3.655 in)		20-278-198	4.0	1.8	
9. Split Inner Tube 5 ft (1.5m)		25-289-018	22.2	10.1	
Split Inner Tube 10 ft (3.0m)		25-289-026	45.5	20.6	
10. Inner Tube Shoe Pilot		25-100-173	0.7	0.3	
11. Core Lifter Skirtless Hard Face		25-094-046	0.3	0.1	
Core Lifter Skirted Hard Face		25-094-046	0.3	0.1	

HWD4 Conventional Core Barrel



4-5/8x3.00 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
4.875 in.	3.000 in.	4.625 in.	4.000 in.	3.500 in.	3.125 in.
123.83 mm	76.20 mm	117.48 mm	101.60 mm	88.90 mm	79.38 mm

Core Barrel Assembly

Part Description	Part Number	Weight (lbs)	Weight (kg)
5 ft Complete (1.5m)	25-020-017	173.0	78.6
10 ft Complete (3.0m)	25-020-025	261.0	118.6
15 ft Complete (4.6m)	25-020-033	352.0	160.0
20 ft Complete (6.1m)	25-020-041	444.0	201.8
5 ft Complete (1.5m) Split Inner Tube	25-020-066	173.0	78.6
10 ft Complete (3.0m) Split Inner Tube	25-020-074	261.0	118.6
15 ft Complete (4.6m) Split Inner Tube	25-020-082	352.0	160.0
20 ft Complete (6.1m) Split Inner Tube	25-020-090	444.0	201.8

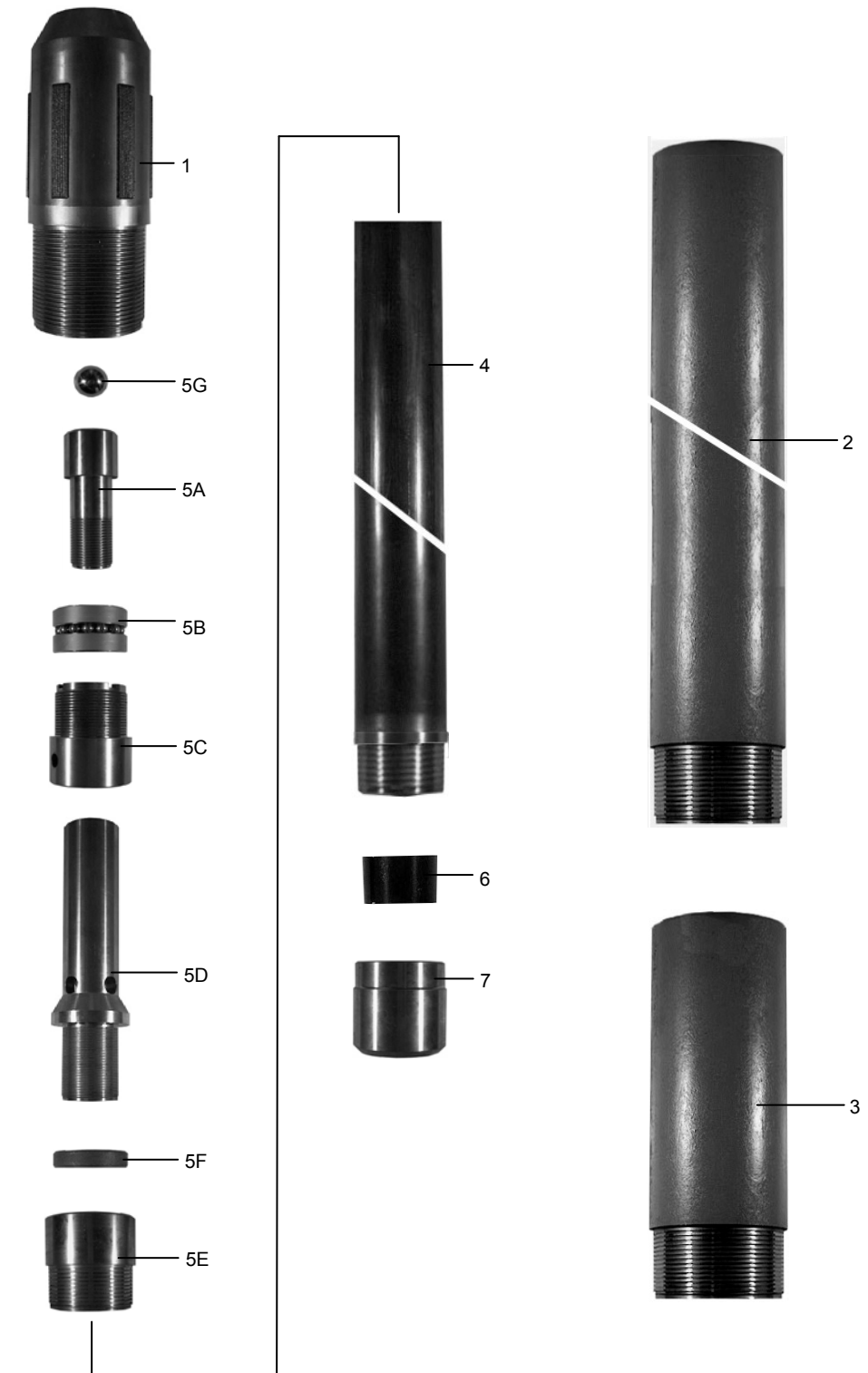
Spare Parts For Assembly

1. Core Barrel Head 2.38 API-R	25-077-017	33.0	15.0
Core Barrel Head 2.38 API-IF	25-077-058	33.0	15.0
2. Outer Tube 5 ft (1.5m)	25-038-050	64.0	29.1
Outer Tube 10 ft (3.0m)	25-038-068	117.0	53.2
Outer Tube 15 ft (4.6m)	25-038-076	175.0	79.5
Outer Tube 20 ft (6.1m)	25-038-084	233.0	105.9
3. Outer Tube Sub	25-117-045	10.5	4.8
4. Inner Tube 5 ft (1.5m)	25-058-017	33.0	15.0
Inner Tube 10 ft(3.0m)	25-058-025	67.0	30.5
Inner Tube 15 ft (4.6m)	25-058-033	100.0	45.5
Inner Tube 20 ft (6.1m)	25-058-041	134.0	60.9
Split Inner Tube 5 ft (1.5m)	25-207-044	33.0	15.0
Split Inner Tube 10 ft (3.0m)	25-207-051	67.0	30.5
Split Inner Tube 15 ft (4.6m)	25-207-069	100.0	45.5
Split Inner Tube 20 ft (6.1m)	25-207-077	134.0	60.9
5. Bearing Assembly	25-108-010	25.0	11.4
A. Bearing Retainer	25-110-016	3.0	1.4
B. Thrust Ball Bearing	25-093-089	2.0	0.9
C. Cartridge Plug	25-111-014	4.6	2.1
D. Inner Tube Plug	25-112-012	10.2	4.6
E. Inner Tube Connector	25-180-019	3.9	1.8
Split Inner Tube Connector (Not Shown)	25-260-019	4.9	2.2
F. Lock Nut	06-091-067	1.2	0.5
G. By-Pass Ball	06-043-152	0.2	0.1
6. Core Lifter, Skirtless Hard Faced	25-094-087	0.4	0.2
7. Inner Tube Shoe	25-242-017	2.1	1.0
8. Thread Protector (Not Shown)	25-107-020	6.3	2.9

Optional Equipment (Not Shown)

9. Outer Tube Clamp (4.50 in.)	25-118-027	10.5	4.8
10. Core Lifter, Skirted Hard Faced	25-096-066	0.4	0.2
11. Inner Tube Shoe Pilot	25-100-116	2.2	1.0

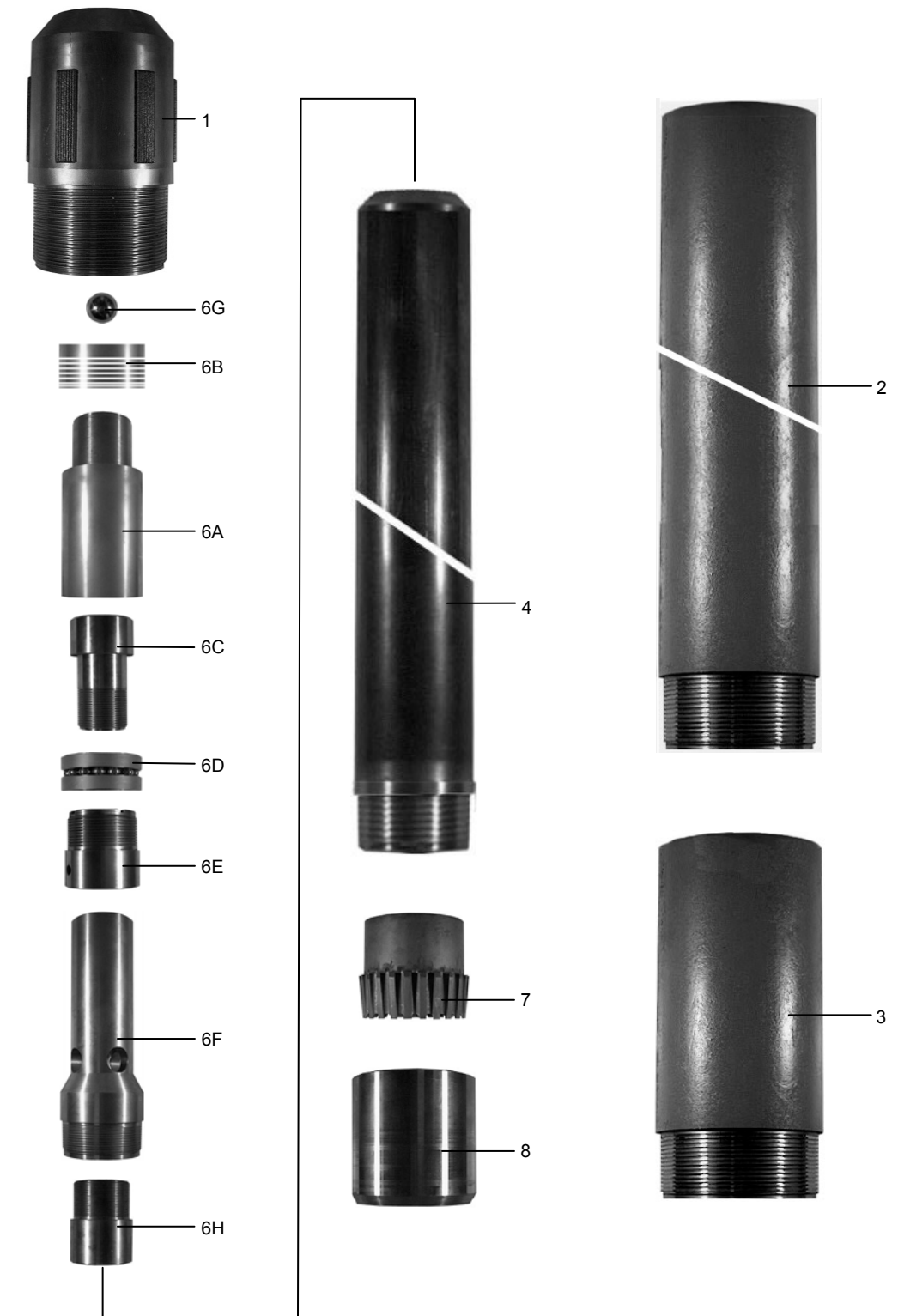
4-5/8x3.00 Conventional Core Barrel



5-3/4x4.00 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
6.000 in.	4.000 in.	5.750 in.	5.000 in.	4.625 in.	4.250 in.
152.40 mm	101.60 mm	146.05 mm	127.00 mm	117.48 mm	107.95 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-021-015	337.0	153.2	
10 ft Complete (3.0m)		25-021-023	450.0	204.5	
5 ft Complete (1.5m) Split Inner Tube		25-021-056	337.0	153.2	
10 ft Complete (3.0m) Split Inner Tube		25-021-064	450.0	204.5	
Spare Parts For Assembly					
1. Core Barrel Head 3.50 API Reg	25-078-064	55.0	25.0		
2. Outer Tube 5 ft (1.5m)	25-039-017	121.0	55.0		
Outer Tube 10 ft (3.0m)	25-039-025	238.0	108.2		
3. Outer Tube Sub	25-117-011	19.3	8.8		
4. Inner Tube 5 ft (1.5m)	25-059-015	51.0	23.2		
Inner Tube 10 ft(3.0m)	25-059-023	98.0	44.5		
Split Inner Tube 5 ft (1.5m)	25-224-015	51.0	23.2		
Split Inner Tube 10 ft (3.0m)	25-224-023	98.0	44.5		
5. Split Inner Tube Connector (Not Shown)	25-232-018	6.7	3.0		
6. Bearing Assembly	25-109-018	59.0	26.8		
A. Cartridge Cap	25-114-018	11.8	5.4		
B. Shim Set	25-115-015	2.9	1.3		
C. Bearing Retainer	25-110-024	5.1	2.3		
D. Thrust Ball Bearing	25-093-097	3.5	1.6		
E. Cartridge Plug	25-111-022	7.1	3.2		
F. Inner Tube Plug	25-112-020	18.2	8.3		
G. By-Pass Ball	06-043-160	0.3	0.1		
H. Pressure Relief Plug	25-116-013	4.9	2.2		
7. Core Lifter Skirted Hard Face	25-096-074	1.4	0.6		
8. Inner Tube Shoe	25-097-130	3.3	1.5		
9. Thread Protector (Not Shown)	25-107-038	15.8	7.2		
Optional Equipment (Not Shown)					
10. Outer Tube Clamp (5.75 in.)	25-118-035	11.0	5.0		
11. Core Lifter Skirtless Hard Faced	25-094-095	1.0	0.5		
12. Inner Tube Shoe Pilot	25-100-124	4.2	1.9		

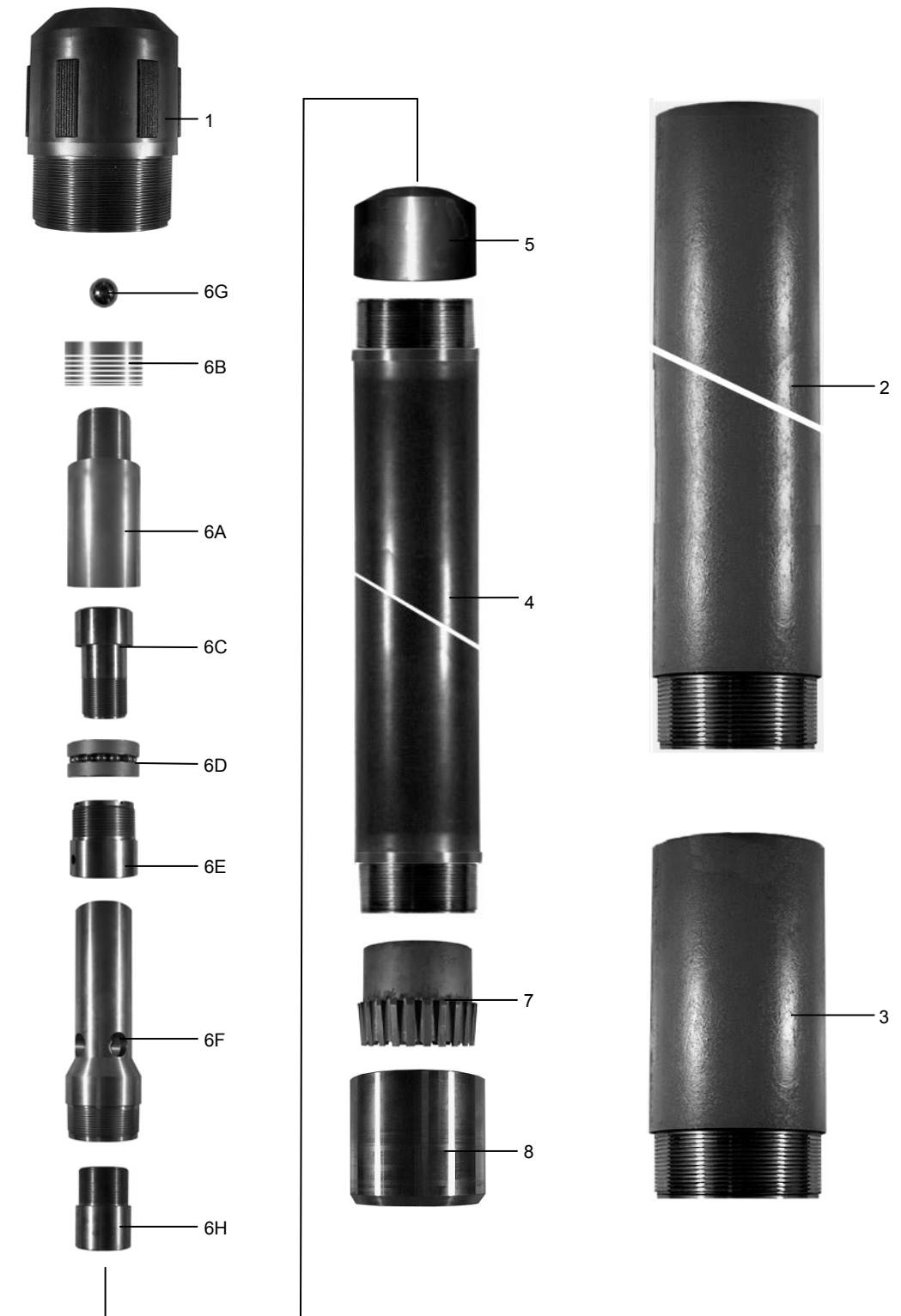
5-3/4x4.00 Conventional Core Barrel



7-3/4x5-7/8 Conventional Core Barrel

Hole Size	Core Size	Outer Tube Size		Inner Tube Size	
		OD	ID	OD	ID
8.000 in.	5.875 in.	7.750 in.	7.000 in.	6.500 in.	6.125 in.
203.20 mm	149.23 mm	190.50 mm	177.80 mm	165.10 mm	155.58 mm
Core Barrel Assembly					
Part Description		Part Number	Weight (lbs)	Weight (kg)	
5 ft Complete (1.5m)		25-022-013	421.0	191.4	
10 ft Complete (3.0m)		25-022-021	574.0	260.9	
5 ft Complete (1.5m) Split Inner Tube		25-022-054	421.0	191.4	
10 ft Complete (3.0m) Split Inner Tube		25-022-062	574.0	260.9	
Spare Parts For Assembly					
1. Core Barrel Head 4.50 API Reg	25-079-013	111	50.5		
2. Outer Tube 5 ft (1.5m)	25-040-015	114	51.8		
Outer Tube 10 ft (3.0m)	25-040-023	205	93.2		
3. Outer Tube Sub	25-117-029	21	9.5		
4. Inner Tube 5 ft (1.5m)	25-060-013	75	34.1		
Inner Tube 10 ft(3.0m)	25-060-021	137	62.3		
Split Inner Tube 5 ft (1.5m)	25-222-019	75	34.1		
Split Inner Tube 10 ft (3.0m)	25-222-027	137	62.3		
5. Inner Tube Connector	25-211-012	12.9	5.9		
6. Bearing Assembly	25-109-018	59	26.8		
A. Cartridge Cap	25-114-018	11.8	5.4		
B. Shim Set	25-115-015	2.9	1.3		
C. Bearing Retainer	25-110-024	5.1	2.3		
D. Thrust Ball Bearing	25-093-097	3.5	1.6		
E. Cartridge Plug	25-111-022	7.1	3.2		
F. Inner Tube Plug	25-112-020	18.2	8.3		
G. By-Pass Ball	06-043-160	0.3	0.1		
H. Pressure Relief Plug	25-116-013	4.9	2.2		
7. Core Lifter Skirted Hard Face	25-096-082	2.2	1.0		
8. Inner Tube Shoe	25-243-015	6.3	2.9		
9. Thread Protector (Not Shown)	25-107-046	21.6	9.8		
Optional Equipment (Not Shown)					
10. Outer Tube Clamp (7.50 in.)	25-118-043	14	6.3		
11. Core Lifter Skirtless Hard Faced	25-094-103	1.8	0.8		
12. Inner Tube Shoe Pilot	25-100-132	3.3	1.5		

7-3/4x5-7/8 Conventional Core Barrel



Casing Advancers and Overshot

American Diamond Tool's casing advancer allows for the casing to be advanced through soft overburden and broken ground. The advantage of this system lies in its ability to retrieve the advancer leaving the casing clear for drill string, core barrel, etc. If additional casing is needed to be advanced, the casing advancer is once again placed back down hole allowing for full hole drilling to resume.

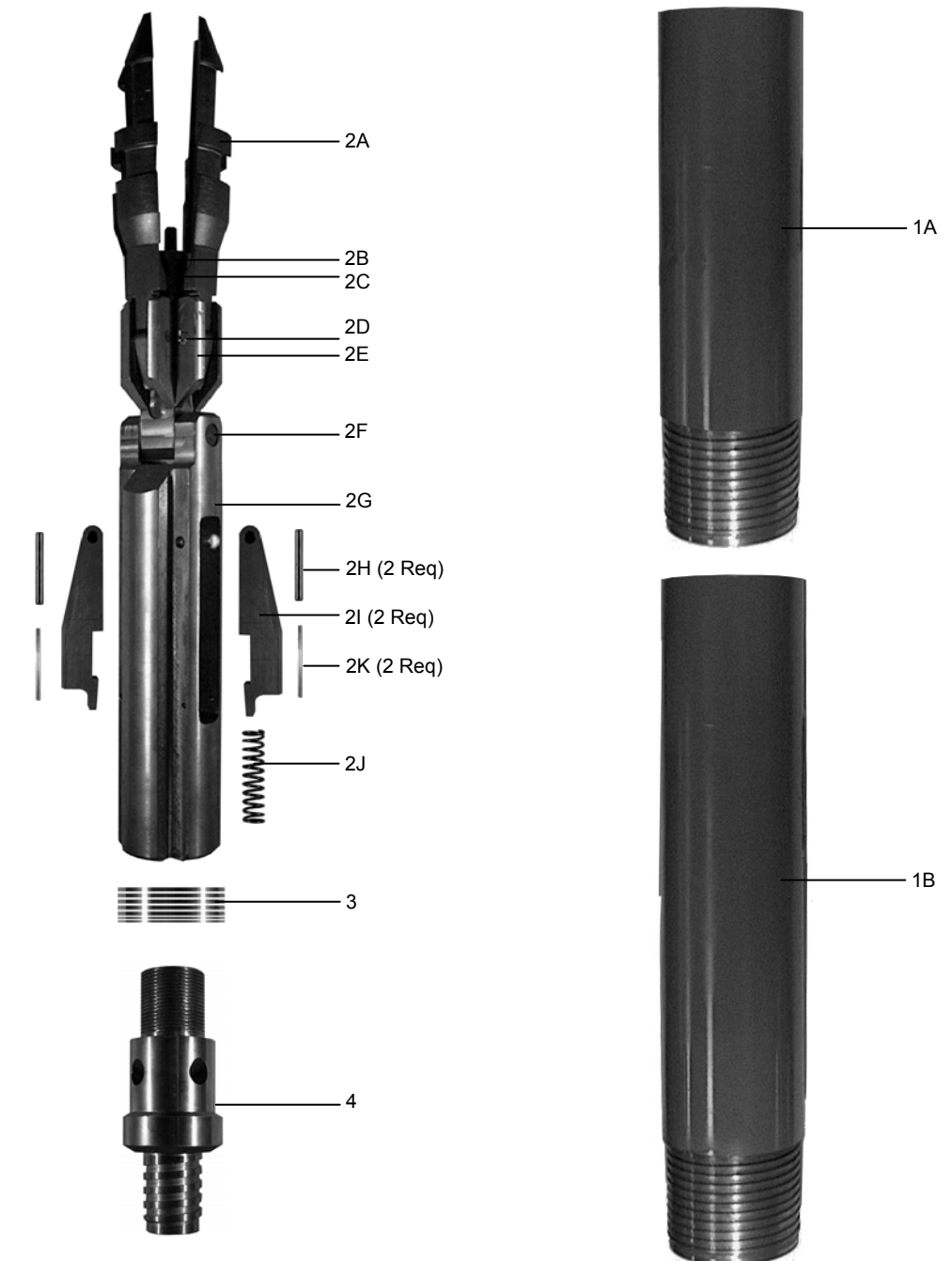
The operation of the system consists of a drive latch coupling with a casing shoe attached to bottom of casing. A gauged rock bit is connected to the casing advancer/bit adapter body. The casing advancer with rock bit are inserted into the top of the casing and lowered into drive latch coupling. The casing is rotated which intern rotates the inner body turning the rock bit. Down hole pressure on the rock bit is achieved through quadlatch fingers snapping into the latch coupling. When casing has reached required depth, the casing advancer with rock bit is then wirelined out using the quadlatch overshot. At which time coring can proceed. If required, the casing advancer can be placed back down hole for additional casing advancement.



BW Casing Advancer

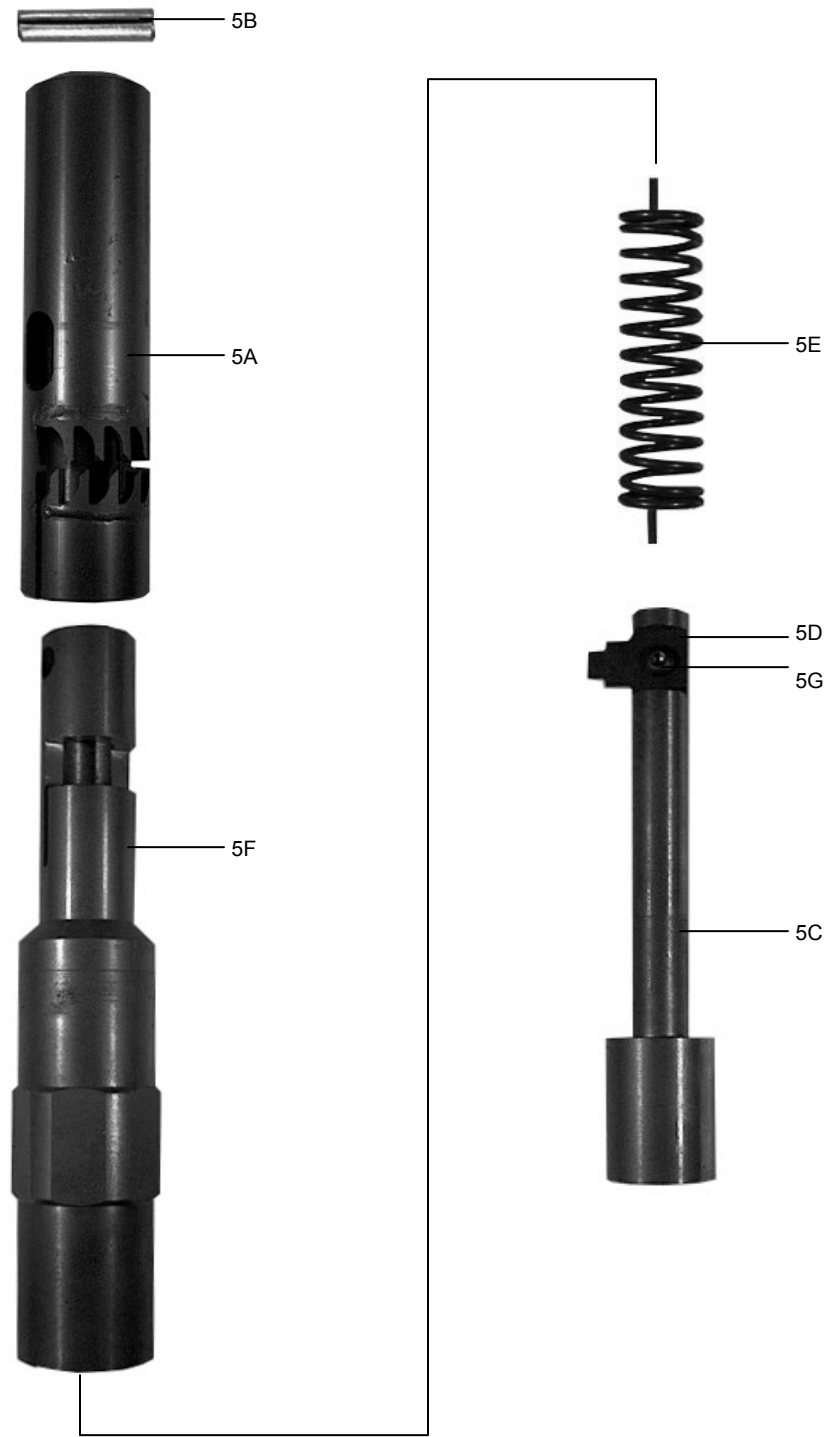
Casing Advancer Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
Casing Advancer Complete BW	25-219-098	29.0	13.2
1. Latch/Drive Coupling Assembly	25-137-217	9.5	4.3
A. Latch Coupling	25-206-052	4.0	1.8
B. Drive Coupling	25-206-053	5.5	2.5
2. Latch/Drive Assembly	25-326-075	16.0	7.3
A. Quad Latch Fingers (4 Required)	25-356-098	0.6	0.3
B. Spring, Blue (Top)	06-014-765	0.1	0.0
C. Spring, Red (Bottom)	06-014-799	0.1	0.0
D. Dowel Pin (4 Required)	06-019-103	0.1	0.0
E. Head Base	25-385-113	4.0	1.8
F. Dowell Pin	06-019-343	0.4	0.2
G. Drive Body	25-324-070	24.8	11.3
H. Dowel Pin (2 Required)	06-099-238	0.1	0.0
I. Drive Key (2 Required)	25-322-066	0.5	0.2
J. Compression Spring	06-014-971	0.1	0.0
K. Roll Pin (2 Required)	06-099-287	0.2	0.1
3. Shim Set	25-115-130	0.2	0.1
4. Rock Bit Adapter	25-076-175	3.3	1.5
Overshot Assembly			
5. Overshot Assembly	25-469-032	8.8	4.0
A. Sleeve	25-549-023	2.9	1.3
B. Roll Pin	06-019-194	0.1	0.0
C. Plunger	25-551-029	1.2	0.5
D. Pawl	25-552-027	0.1	0.0
E. Spring	25-553-025	0.1	0.0
F. Retriever	25-554-023	4.5	2.0
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
6. Overshot Swivel Assembly	25-555-112	3.3	1.5
7. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
8. Positive Latch Lowering Tool	25-361-031	11.1	5.0
9. Loading Funnel	25-364-068	4.2	1.9

BW Casing Advancer



BW Casing Advancer

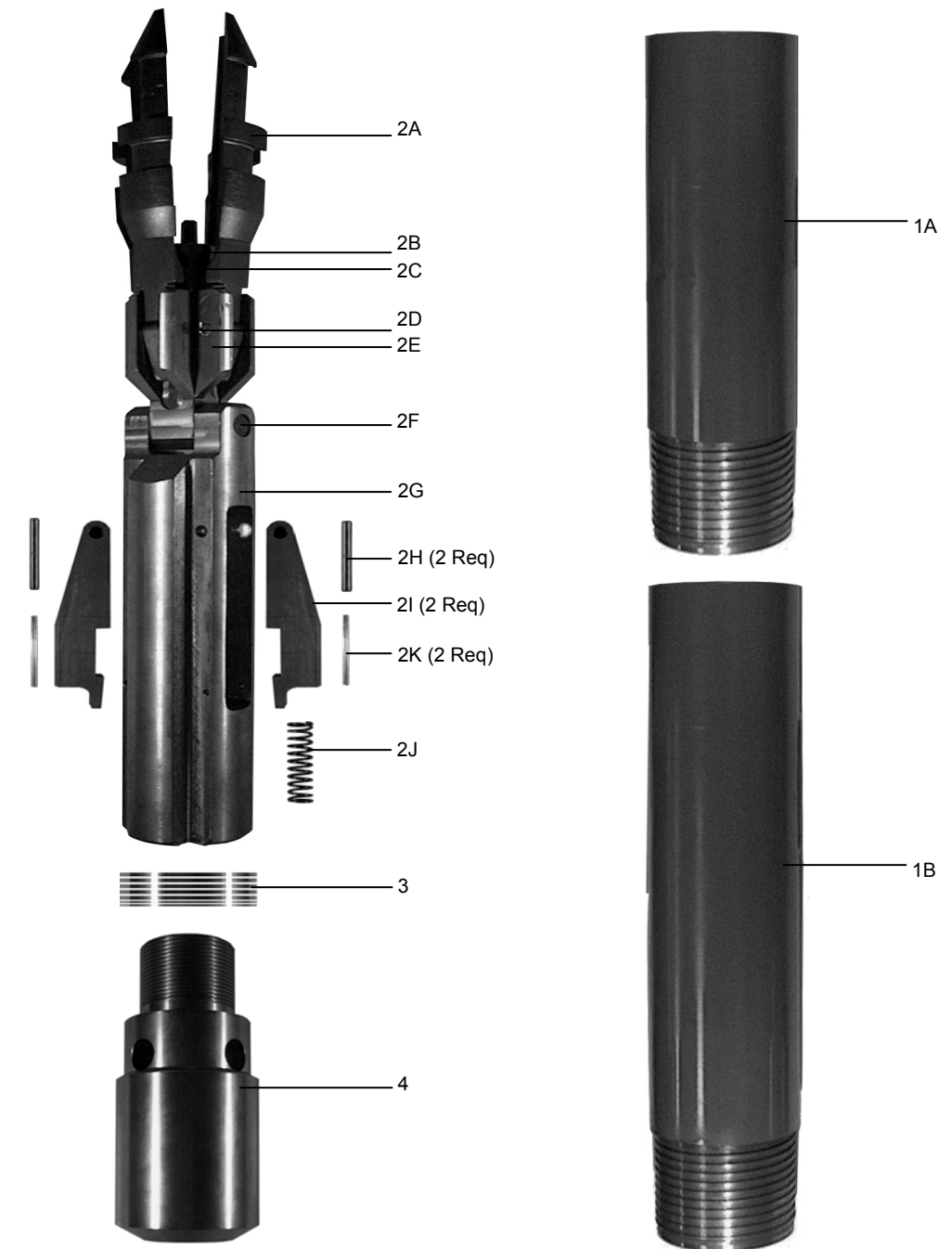
Overshot Assembly



NW Casing Advancer

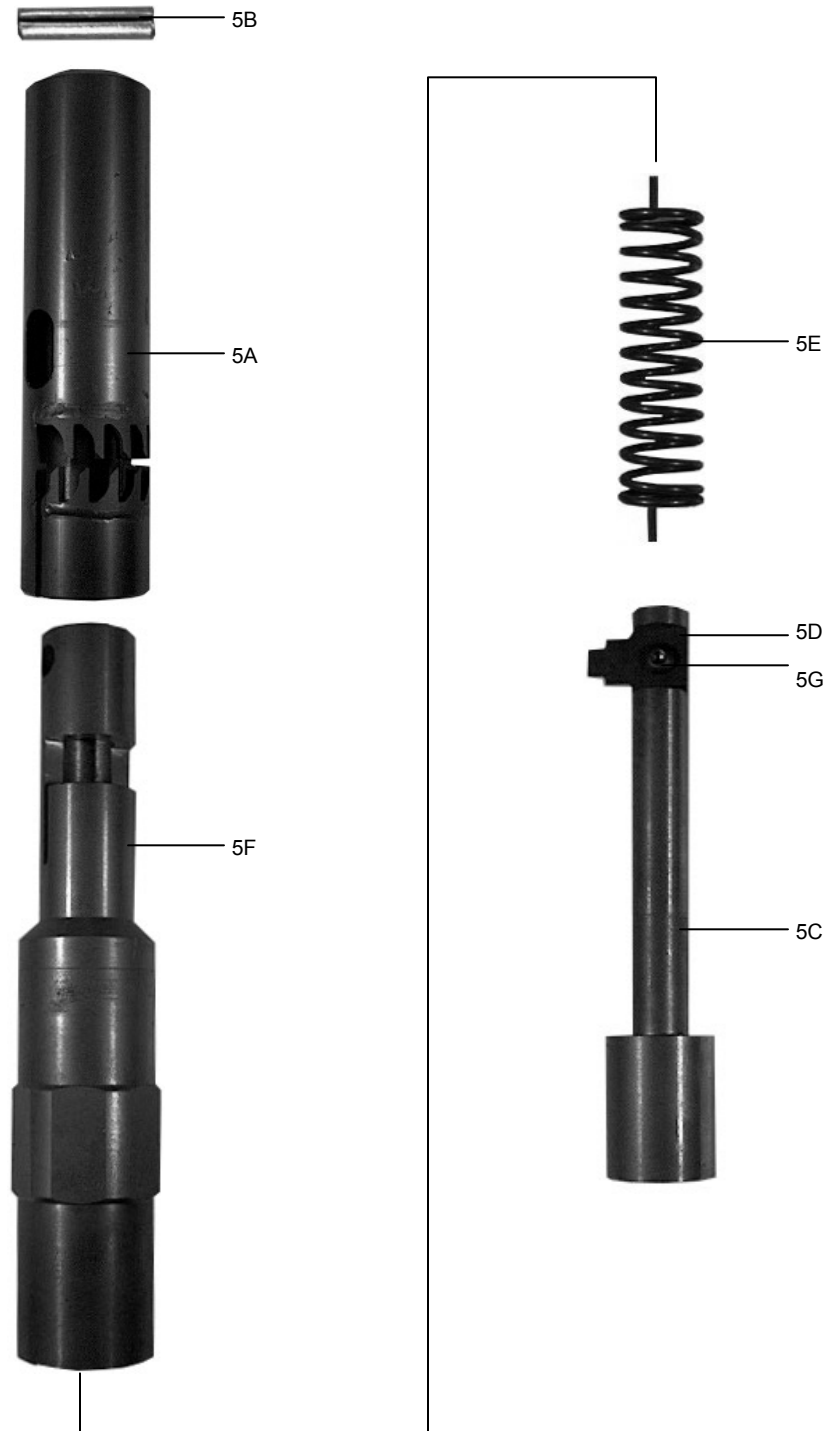
Casing Advancer Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
Casing Advancer Complete NW	25-219-080	45.0	20.5
1. Latch/Drive Coupling Assembly	25-137-209	16.4	7.4
A. Latch Coupling	24-206-050	7.0	3.2
B. Drive Coupling	24-206-051	9.4	4.3
2. Latch/Drive Assembly	25-326-067	22.3	10.1
A. Quad Latch Fingers (4 Required)	25-356-080	1.1	0.5
B. Spring, Red (Top)	06-014-807	0.1	0.0
C. Spring, Gold (Bottom)	06-014-831	0.1	0.0
D. Dowel Pin (4 Required)	06-099-238	0.1	0.0
E. Head Base	25-385-121	4.0	1.8
F. Dowell Pin	06-019-863	0.2	0.1
G. Drive Body	25-324-062	11.2	5.1
H. Dowel Pin (2 Required)	06-099-253	0.1	0.0
I. Drive Key (2 Required)	25-322-058	0.6	0.3
J. Compression Spring	06-014-203	0.1	0.0
K. Roll Pin (2 Required)	06-099-261	0.1	0.0
3. Shim Set	25-115-148	0.3	0.1
4. Rock Bit Adapter	25-076-167	5.9	2.7
Overshot Assembly			
5. Overshot Assembly	25-469-040	12.0	5.4
A. Sleeve	25-549-031	3.4	1.5
B. Roll Pin	06-019-202	0.6	0.3
C. Plunger	25-551-037	2.0	0.9
D. Pawl	25-552-035	0.3	0.1
E. Spring	25-553-033	0.6	0.3
F. Retriever	25-554-031	6.2	2.8
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	25-551-110	0.4	0.2
Optional Equipment (Not Shown)			
6. Overshot Swivel Assembly	25-555-112	3.3	1.5
7. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
8. Positive Latch Lowering Tool	25-361-023	3.0	1.4
9. Loading Funnel	25-364-050	6.0	2.7

NW Casing Advancer



NW Casing Advancer

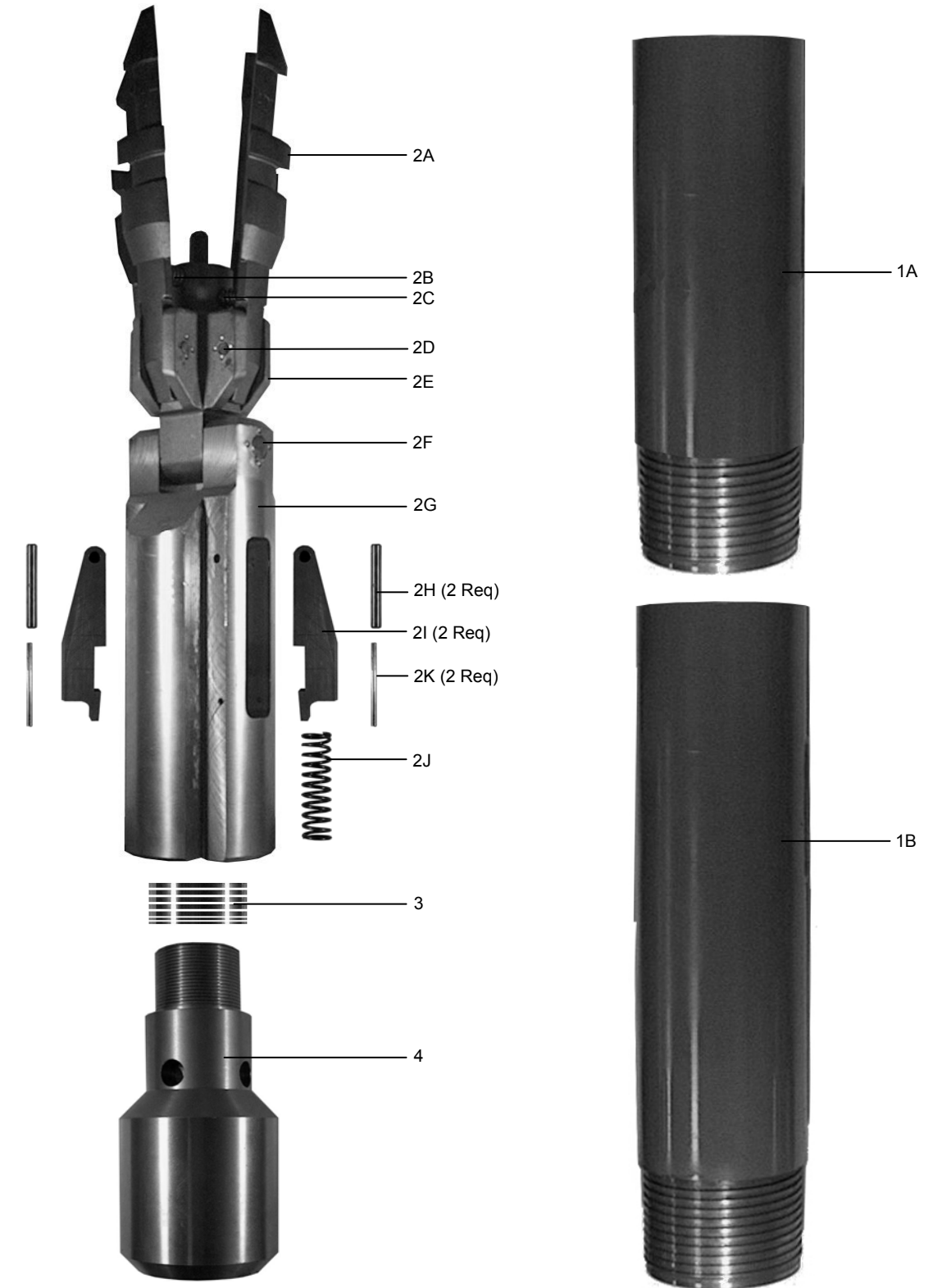
Overshot Assembly



HW Casing Advancer

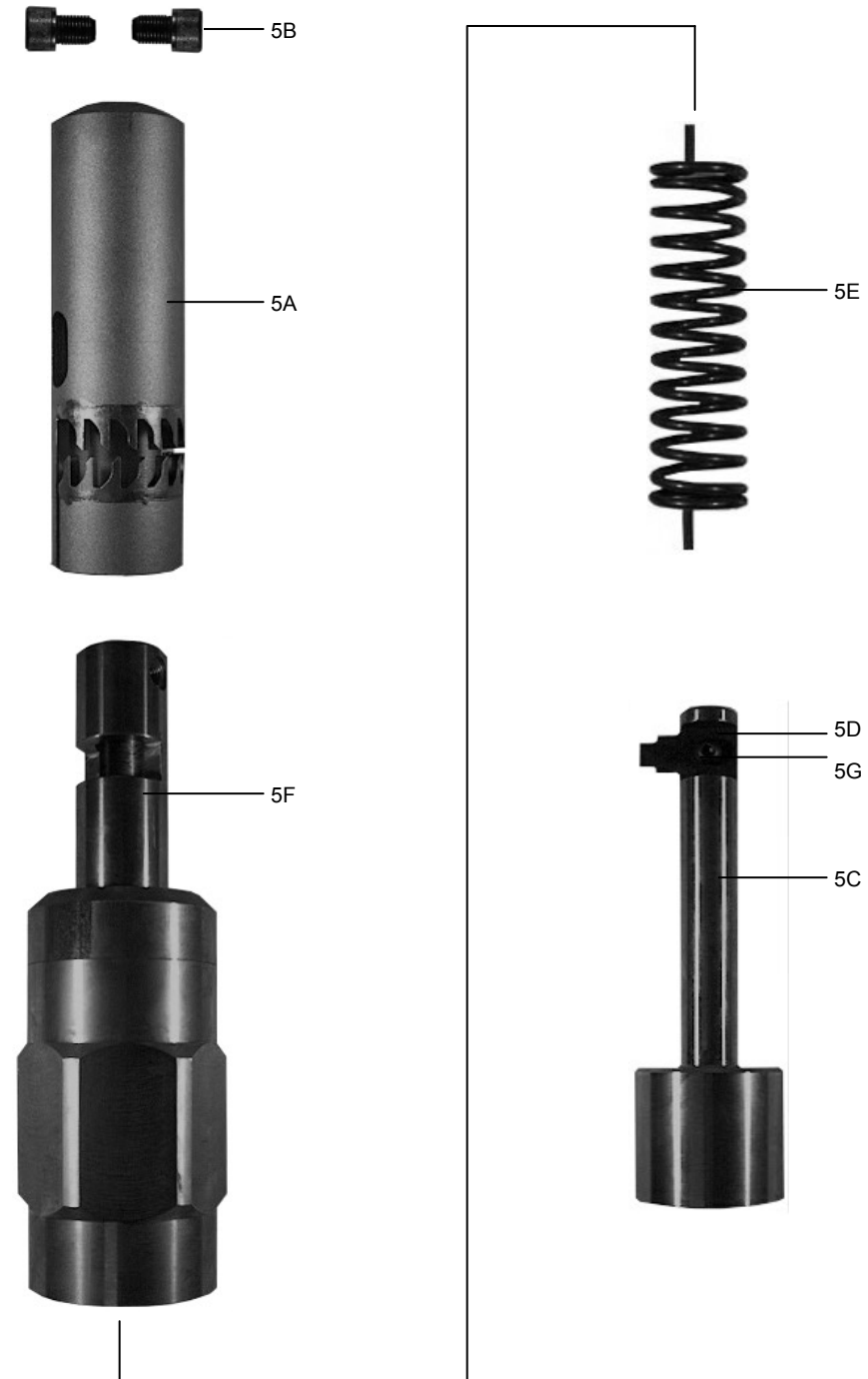
Casing Advancer Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
Casing Advancer Complete HW	25-219-072	79.1	36.0
1. Latch/Drive Coupling Assembly	25-137-191	26.1	11.9
A. Latch Coupling	24-206-054	11.0	5.0
B. Drive Coupling	24-206-055	15.1	6.9
2. Latch/Drive Assembly	25-326-059	53.2	24.2
A. Quad Latch Fingers (4 Required)	25-356-148	1.4	0.6
B. Spring, Red (Top)	06-014-906	0.1	0.0
C. Spring, Gold (Bottom)	06-014-914	0.1	0.0
D. Dowel Pin (4 Required)	06-019-921	0.1	0.0
E. Head Base	25-385-105	4.0	1.8
F. Dowell Pin	06-099-196	0.4	0.2
G. Drive Body	25-324-054	24.8	11.3
H. Dowel Pin (2 Required)	06-099-246	0.1	0.0
I. Drive Key (2 Required)	25-322-041	0.7	0.3
J. Compression Spring	06-014-963	0.1	0.0
K. Roll Pin (2 Required)	06-099-212	0.1	0.0
3. Shim Set	25-115-049	0.4	0.2
4. Rock Bit Adapter	25-259-052	13.8	6.3
Overshot Assembly			
5. Overshot Assembly	25-270-026	19.8	9.0
A. Sleeve	25-549-031	3.8	1.7
B. Socket Head Cap Screw (2 Req.)	06-009-567	0.2	0.1
C. Plunger	25-270-042	2.0	0.9
D. Pawl	25-552-035	0.1	0.0
E. Spring	25-553-033	0.2	0.1
F. Retriever	25-270-034	13.8	6.3
G. Capscrew	06-029-045	0.1	0.0
H. Overshot Cocking Tool	06-033-740	0.7	0.3
Optional Equipment (Not Shown)			
6. Overshot Swivel Assembly	25-555-112	3.3	1.5
7. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
8. Positive Latch Lowering Tool	25-361-049	5.0	2.3
9. Loading Funnel	25-364-043	15.5	7.0

HW Casing Advancer



HW Casing Advancer

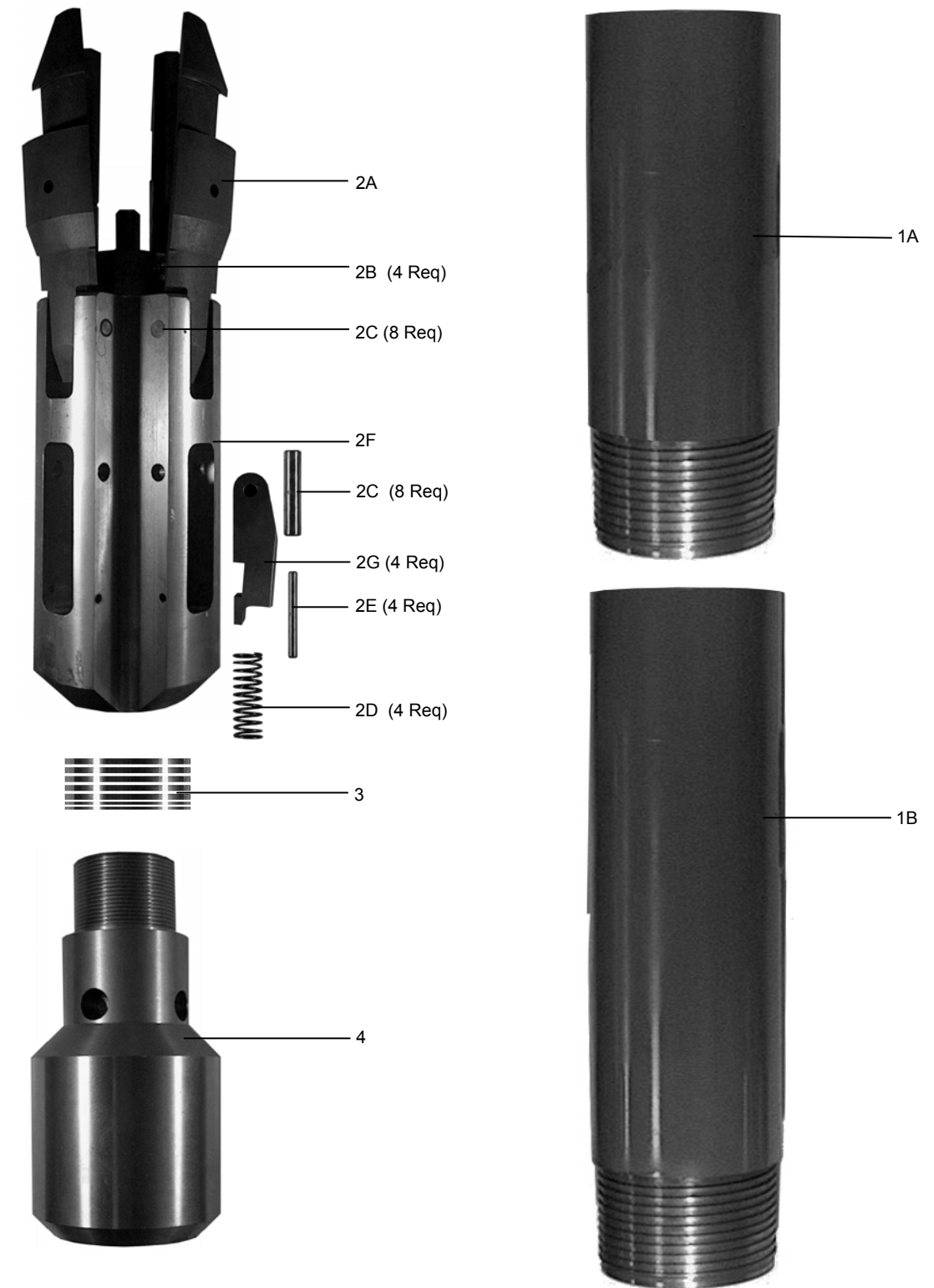
Overshot Assembly



PW Casing Advancer

Casing Advancer Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
Casing Advancer Complete PW	25-219-163	116.1	52.8
1. Latch/Drive Coupling Assembly			
A. Latch Coupling	25-137-308	10.6	4.8
B. Drive Coupling	25-137-290	20.2	9.2
2. Latch/Drive Assembly			
A. Quad Latch Fingers (4 Required)	25-356-189	3.6	1.6
B. Compression Spring, Red (4 Required)	06-116-122	0.1	0.0
C. Dowel Pin (8 Required)	06-099-360	0.1	0.0
D. Compression Spring (4 Required)	06-116-205	0.1	0.0
E. Dowell Pin (4 Required)	06-099-246	0.1	0.0
F. Drive Body	25-324-104	36.6	16.6
G. Drive Blade (4 Required)	25-322-090	1.3	0.6
3. Shim Set			
4. Rock Bit Adapter	25-259-078	26.2	11.9
Optional Equipment (Not Shown)			
5. Simple Overshot	25-364-167	14.8	6.7
6. Overshot Swivel Assembly	25-555-112	3.3	1.5
7. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
8. Positive Latch Lowering Tool	25-650-243	6.2	2.8
9. Loading Funnel	25-364-175	23.5	10.7

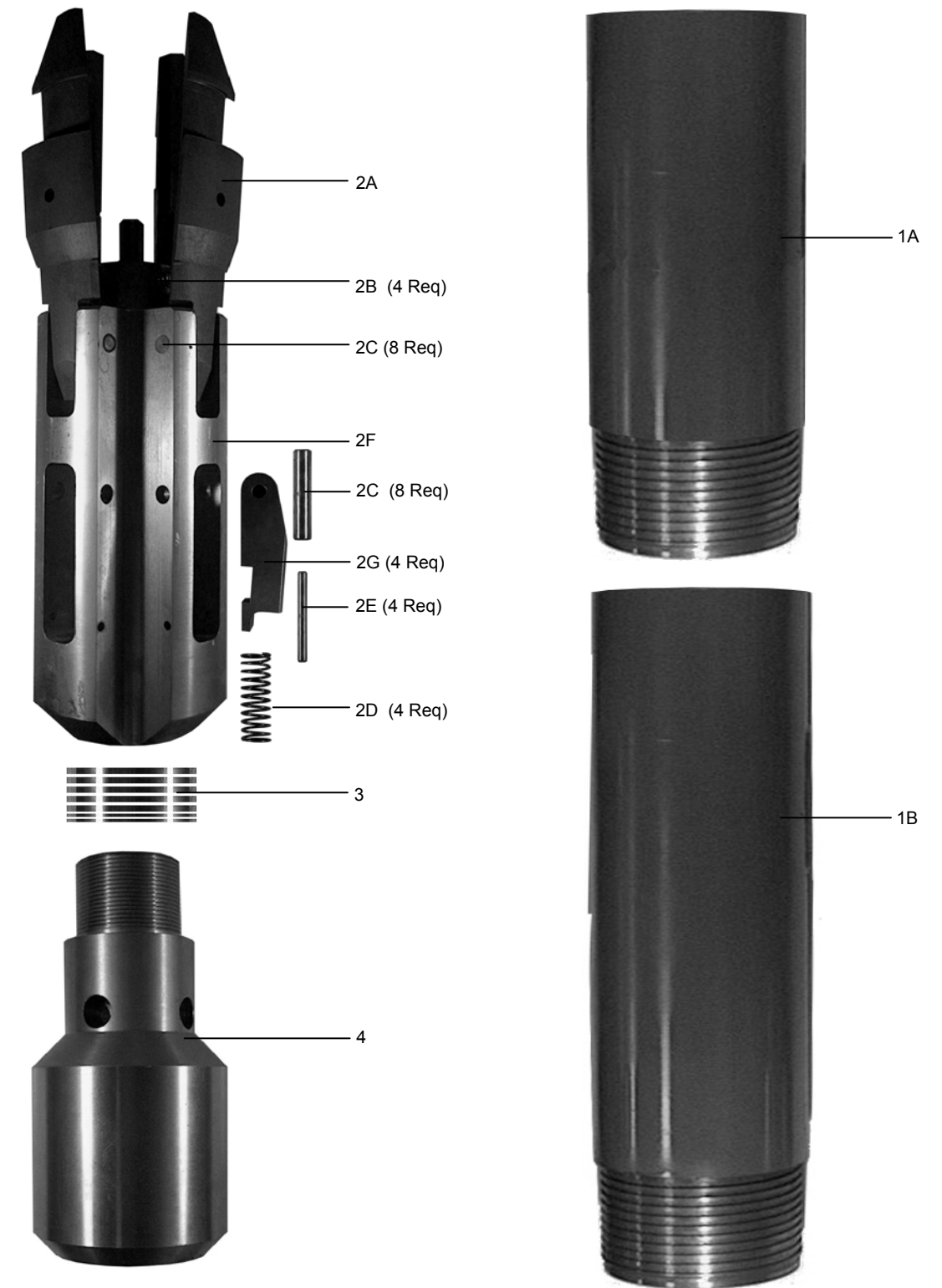
PW Casing Advancer



SW Casing Advancer

Casing Advancer Assembly			
Part Description	Part Number	Weight (lbs)	Weight (kg)
Casing Advancer Complete SW	25-219-130	152.6	69.4
1. Latch/Drive Coupling Assembly	NA	50.5	23.0
A. Latch Coupling	25-137-266	17.5	8.0
B. Drive Coupling	25-137-258	33.1	15.0
2. Latch/Drive Assembly	NA	102.1	46.4
A. Quad Latch Fingers (4 Required)	25-356-163	5.4	2.5
B. Compression Spring, Red (4 Required)	06-116-064	0.1	0.0
C. Dowel Pin (8 Required)	06-019-350	0.1	0.0
D. Compression Spring (4 Required)	06-014-203	0.1	0.0
E. Dowell Pin (4 Required)	06-099-394	0.1	0.0
F. Drive Body	25-324-096	55.1	25.0
G. Drive Blade (4 Required)	25-322-082	1.4	0.6
3. Shim Set	25-115-064	2.7	1.2
4. Rock Bit Adapter	25-259-060	37.1	16.9
Optional Equipment (Not Shown)			
5. Simple Overshot	25-364-142	28.2	12.8
6. Overshot Swivel Assembly	25-555-112	3.3	1.5
7. Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.6
Wireline Extension Rod 46 in. (1.17m)	25-555-079	26.0	11.8
8. Positive Latch Lowering Tool	25-361-126	9.2	4.2
9. Loading Funnel	25-364-134	33.2	15.1

SW Casing Advancer



Heavy Duty Water Swivel

This Heavy Duty Water Swivel is designed for maximum loads of 11,000 lbs (5000 kg) rotating capacity and 25,000 lbs (11,400 kg) static capacity.



Heavy Duty Water Swivel			
Part Description	Part Number	Weight (lbs)	Weight (kg)
Heavy Duty Water Swivel Assembly (BW Rod Box)	70-15-100	31.5	14.3
Cap (1-1/4 NPT Connection)	70-15-115	14.4	6.6
Compression Spring	70-15-114	0.1	0.0
V Packing Set	70-15-117B	0.1	0.0
O-Ring	70-15-113	0.1	0.0
Packing Housing	70-15-118	2.6	1.2
Spindle Nut	70-15-119	0.5	0.2
Lock Washer	70-15-120	0.1	0.0
Spacer	70-15-121	0.1	0.0
Retaining Ring	70-15-112	0.1	0.0
Ball Bearing	70-15-111	1.5	0.7
Spindle Extension	70-15-116	0.7	0.3
Spindle	70-15-123	3.9	1.8
Thrust Bearing	70-15-124	1.2	0.5
Body	70-15-122	6.2	2.8
Grease Fitting	12-21-220	0.1	0.0
Rebuild Kit (Ball Bearing, Retaining Ring, O-Ring, Spindle Extension, V Packing Set, Locking Washer & Thrust Bearing)	70-15-100	3.8	1.7

High Speed Water Swivel



High Speed Water Swivel			
Part Description	Part Number	Weight (lbs)	Weight (kg)
High Speed Water Swivel Assembly (NQ Rod Pin)	70-09-000-B	8.0	3.6
Cap	70-07-001	0.8	0.4
Top Ball Bearing	70-07-002	0.3	0.1
Swivel Stem	70-08-003	0.5	0.2
Bottom Ball Bearing	70-08-004	0.3	0.1
Swivel Body	70-09-005	5.7	2.6
Swivel Seal	70-08-006-B	0.1	0.0
Seal Retainer	70-08-007-B	0.2	0.1
Grease Fitting	12-21-220	0.1	0.0
Rebuild Kit (Top Ball Bearing, Bottom Ball Bearing & Swivel Seal)	70-69-025	0.7	0.3

Full Circle Wrenches

These wrenches allow for excellent gripping power while preventing distortion of inner tubes, outer tubes, core bits and other thin wall joints.



Outer Tube Wrenches

Core Barrel Size	Wrench Diameter		Weight		Part Number
	Inch	MM	lbs	kg	
AW34, AQWL	1.812 - 1.869	46.0 - 47.5	4.0	1.8	026-032-037
BW44, CBWL, BQWL, BXWL	2.250 - 2.291	57.2 - 58.2	4.8	2.2	026-032-078
NWD4, CNWL, NQWL, NXWL	2.875 - 2.916	73.0 - 74.1	7.8	3.5	026-032-128
HWD4, HXWL	3.470 - 3.510	88.1 - 89.2	8.4	3.8	026-032-144
CHWL, HQWL	3.625 - 3.760	92.1 - 94.2	8.4	3.8	026-032-359

Inner Tube and Shoe Wrenches

Core Barrel Size	Wrench Diameter		Weight		Part Number
	Inch	MM	lbs	kg	
AQWL	1.251 - 1.291	31.8 - 32.8	3.1	1.4	026-032-151
AW34	1.550 - 1.590	39.4 - 40.4	3.2	1.5	026-032-219
BXWL	1.720 - 1.760	43.7 - 44.7	3.2	1.5	026-032-235
CBWL, BQWL	1.613 - 1.697	41.0 - 43.1	3.5	1.6	026-032-227
BWD4	1.875 - 1.916	47.6 - 48.7	3.5	1.6	026-032-250
BW44	1.970 - 2.010	50.0 - 51.1	3.5	1.6	026-032-268
NXWL, CNWL, NQWL	2.157 - 2.220	54.8 - 56.4	4.8	2.2	026-032-276
NWD4	2.345 - 2.385	59.6 - 60.6	4.8	2.2	026-032-292
3-1/2X2-1/8	2.595 - 2.635	65.9 - 66.9	6.5	2.9	026-032-318
HWD4, HXWL, CHWL, HQWL	2.810 - 2.916	71.4 - 74.1	7.8	3.5	026-032-128
4-5/8X3	3.470 - 3.510	88.1 - 89.2	8.4	3.8	026-032-144
CPWL, PQWL	3.720 - 3.760	94.5 - 95.5	8.4	3.8	026-032-359

Inner Tube Shoe Wrenches (For Shoes with Different OD than Inner Tube)

Core Barrel Size	Wrench Diameter		Weight		Part Number
	Inch	MM	lbs	kg	
BXWL	1.782 - 1.822	45.3 - 46.3	3.2	1.5	026-032-243
NXWL	2.282 - 2.322	58.0 - 59.0	4.8	2.2	026-032-284
NWD4	2.470 - 2.510	62.7 - 63.8	4.8	2.2	026-032-300
3-1/2X2-1/8	2.720 - 2.760	69.1 - 70.1	6.5	2.9	026-032-110
HWD4, HXWL	2.907 - 2.947	73.8 - 74.9	7.8	3.5	026-032-334
4-5/8X3	3.720 - 3.760	94.5 - 95.5	8.4	3.8	026-032-359

Rigid Brand Tools

American Diamond Tool stocks 18 through 48 inch Rigid Straight Heavy Duty Wrenches along with replacement parts. Please consult your American Diamond Tool representative for any other Rigid Brand Tools.



Straight Heavy Duty Wrenches			
Part Description	Part Number	Weight (lbs)	Weight (kg)
18 inch Straight Heavy Duty Wrench (457mm)	31025	6.0	2.7
Heel and Jaw Pin	31675	0.3	0.1
Hook Jaw	31670	1.5	0.7
Coil and Flat Spring	31680	0.1	0.0
24 inch Straight Heavy Duty Wrench (610mm)	31030	10.0	4.5
Heel and Jaw Pin	31700	0.4	0.2
Hook Jaw	31695	2.2	1.0
Coil and Flat Spring	31705	0.1	0.0
36 inch Straight Heavy Duty Wrench (914mm)	31035	20.0	9.1
Heel and Jaw Pin	31725	0.6	0.3
Hook Jaw	31720	4.3	1.9
Coil and Flat Spring	31730	0.1	0.0
48 inch Straight Heavy Duty Wrench (1219mm)	31040	35.0	15.9
Heel and Jaw Pin	31750	0.8	0.4
Hook Jaw	31745	7.3	3.3
Coil and Flat Spring	31755	0.1	0.0

Wireline Swivel, Road Runner and Accessories



Wireline Swivel and Road Runner			
Part Description	Part Number	Weight (lbs)	Weight (kg)
1. Wireline Swivel Assembly	25-555-012	3.50	1.59
A. Thimble Clamp 3/16 in Cable	27-017-220	0.30	0.14
B. Eyebolt Assembly	25-555-061	0.45	0.20
C. O-Ring - Upper	06-200-141	0.02	0.01
D. O-Ring - Lower	06-200-644	0.02	0.01
E. Head	25-555-020	0.60	0.27
F. Bearing	06-079-545	0.20	0.09
G. Housing	25-555-053	1.90	0.86
2. Wireline Extension Rod 18 in. (.46m)	27-012-485	11.15	5.06
Wireline Extension Rod 48 in. (1.17m)	25-555-079	26.00	11.79
3. Road Runner Assembly (Wheels not included)	27-012-486	9.95	4.51
A. Bolt - Socket	06-029-409	0.25	0.11
B. Lock Washer	06-006-225	0.05	0.02
4. Steel Road Runner Wheel (3 per set)			
BXWL	25-527-078	0.10	0.05
NXWL	25-527-086	0.25	0.11
HXWL	25-527-094	0.50	0.23
BCWL/BQWL	25-527-102	0.10	0.05
NCWL/NQWL	25-527-110	0.25	0.11
HCWL/HQWL	25-527-128	0.50	0.23
HW Casing	25-527-170	1.00	0.45
CPWL/PQWL	25-527-171	1.00	0.45
5. Nylon Road Runner Wheel (3 per set)			
BXWL	25-527-011	0.01	0.00
NXWL	25-527-029	0.02	0.01
HXWL	25-527-037	0.05	0.02
BCWL/BQWL	25-527-045	0.01	0.00
NCWL/NQWL	25-527-052	0.02	0.01
HCWL/HQWL	25-527-060	0.05	0.02
HW Casing	25-527-172	0.10	0.05
CPWL/PQWL	25-527-173	0.10	0.05

Piston Mud Pumps

American Diamond Tool offers a selection of horizontal triplex piston mud pumps and spare parts. These pumps are manufactured by American Manufacturing which is a ISO 9001:2008 Certified Company. All spare parts are 100% interchangeable with FMC pump parts.



Model	AL0918B	AW1122BCD	AL1122BCD
Weight	200 lbs (90.7 kg)	425 lbs (197 kg)	460 lbs (209 kg)
Standard Suction Size	1.50 in. NPT (38.1 mm)	2.00 in. NPT (50.8 mm)	2.50 in. NPT (50.8 mm)
Standard Discharge Size	1.00 in. NPT (25.4 mm)	1.25 in. NPT (38.1 mm)	1.25 in. NPT (38.1 mm)
Hydraulic Motor Mount	SAE C - 4 Bolt 1.25"-14T	SAE C - 4 Bolt 1.25"-14T	SAE C - 4 Bolt 1.25"-14T
Maximum Fluid Temperature	140°F (250°F Capability)	140°F (250°F Capability)	140°F (250°F Capability)
Intermittent Duty Speed Rating	890 rpm (Jackshaft)	900 rpm (Jackshaft)	1275 rpm (Jackshaft)
Continuous Duty Speed Rating	750 rpm (Jackshaft)	750 rpm (Jackshaft)	900 rpm (Jackshaft)
Ball Valve Max Speed Rating	625 rpm	635 rpm	690 rpm
Minimum Speed	360 rpm	360 rpm	360 rpm
Maximum Pressure	700 psi (49.2 kg/cm ²)	1000 psi (70.3 kg/cm ²)	1000 psi (70.3 kg/cm ²)
Pump Capacity @			
Minimum Speed	11.3 gpm @ 350 rpm	20.6 gpm @ 350 rpm	20.6 gpm @ 350 rpm
Continuous Duty Speed Rating	24.2 gpm @ 750 rpm	44.2 gpm @ 750 rpm	53.0 gpm @ 900 rpm
Intermittent Duty Speed Rating	28.7 gpm @ 890 rpm	53.0 gpm @ 900 rpm	75.1 gpm @ 1275 rpm

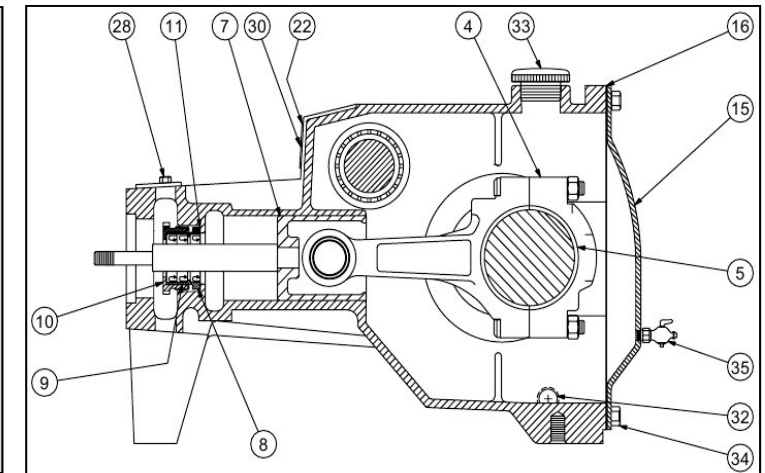
AL1122BCD Piston Pump

Part Description	Part Number
1. Power Frame	PPFMC 5257698
2. Crankshaft	PPFMC 1285094
3. Pinion Shaft	PPFMC P511596
4. Connecting Rod Assembly	PPFMC 5266814
5. Rod Bearing	PPFMC P514965
6. Wrist Pin	PPFMC A91014
7. Crosshead Assembly	PPFMC 1252939
8. Seal Holder	PPFMC 3268369
9. Oil Seal, Piston Rod	PPFMC 1177489
10. Seal Retainer Nut	PPFMC 1266323
11. Gasket, Seal Retainer	PPFMC 3268418
12. Bearing Housing, Blind	PPFMC 1248369
13. Shim, Bearing Housing	PPFMC 1252595
14. Gasket, Bearing Housing	PPFMC A91675
15. Back Cover	PPFMC P508969
16. Gasket, Back Cover	PPFMC P508966
17. Pinion Housing, Drive	PPFMC 5257338
18. Pinion Housing, Blind	PPFMC P508916
19. Oil Seal, Rotating	PPFMC 5257339
20. Gasket, Pinion	PPFMC A91674
21. Screw Set	PPFMC 1182554
22. Name Plate	PPFMC 5277981
23. Bearing Cone, Crank	PPFMC 1177473
24. Bearing Cup, Crank	PPFMC 1177474
25. Bearing, Pinion	PPFMC P511746
26. Key	PPFMC 1104349
27. Cap Screw, Pinion Bearing	PPFMC 1100054
28. Cap Screw	PPFMC 1100804
29. O-Ring	PPFMC 3226710
30. Screw Self Tapping	PPFMC 1187413

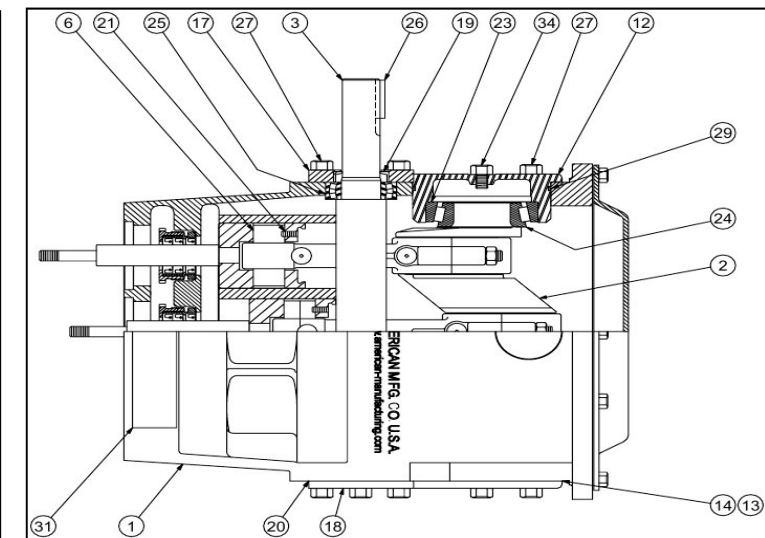
Part Description	Part Number
31. Plate, Inspection	PPFMC 5260567
32. Pipe Plug, Power End	PPFMC 1187048
33. Filler Cap or Vent	PPFMC A5054
34. Screw	PPFMC 1106980
35. Petcock	PPFMC 1187039
36. Pipe Plug	PPFMC P501267
37. Fluid Chamber	PPFMC 5257262
38. Valve Seat	PPFMC 1284740
39. Cylinder	PPFMC 1267586
40. Piston Cup	PPFMC A268N
41. Piston Holder	PPFMC A91663
42. Hex Nut	PPFMC 8309
43. Nut Retainer	PPFMC A5016
44. Piston Retainer	PPFMC 1216753
45. O-Ring, Rod Seal	PPFMC 1101176
46. Gasket, Fluid Cylinder	PPFMC 1279676
47. Plug, Suction	PPFMC 1105121
48. Hex Nut	PPFMC 1121513
49. Valve Cover	PPFMC 1283530
50. O-Ring Valve Cover	PPFMC 1181154
51. Clamp, Valve Cover	PPFMC 1247716
52. Stud, Valve Cover	PPFMC 1248372
53. Hex Nut, Valve Cover	PPFMC 1121511
54. Cylinder Cover	PPFMC 1283531
55. O-Ring Cylinder Cover	PPFMC 1177476
56. Stud, Fluid Cylinder	PPFMC 1248349
57. Clamp, Cylinder	PPFMC A80392
58. Stud, Cylinder Cover	PPFMC 5251859
59. Ball, Valve	PPFMC 1101419

AL1122BCD Piston Pump

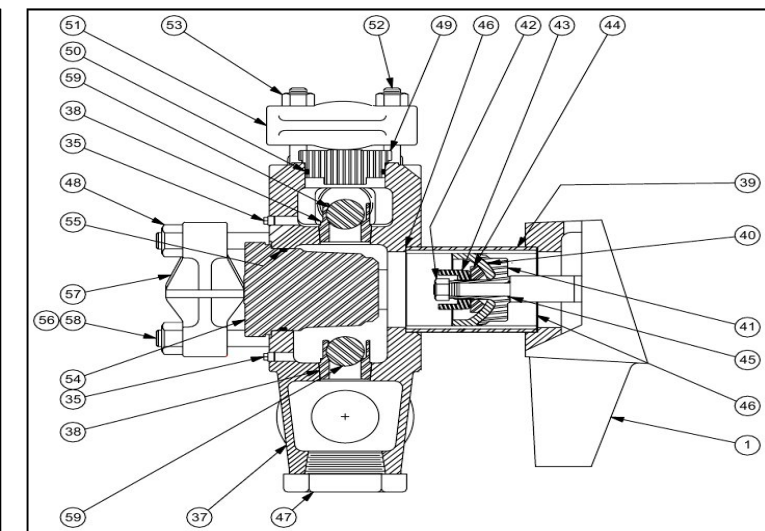
Power End Components



Power End Components



Fluid End Components

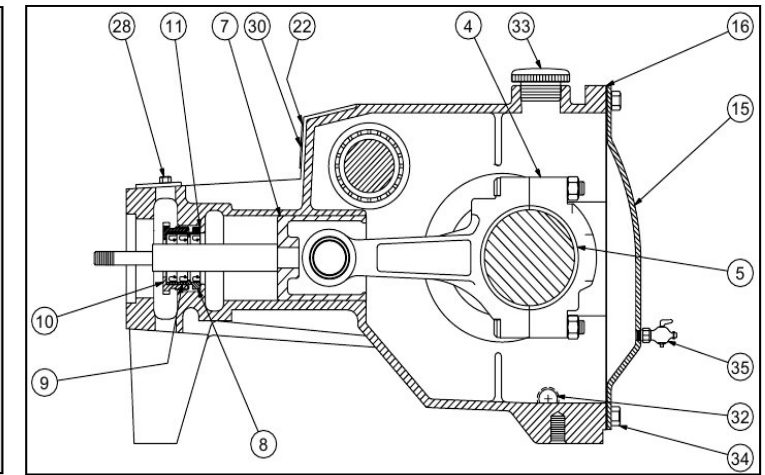


AW1122BCD Piston Pump

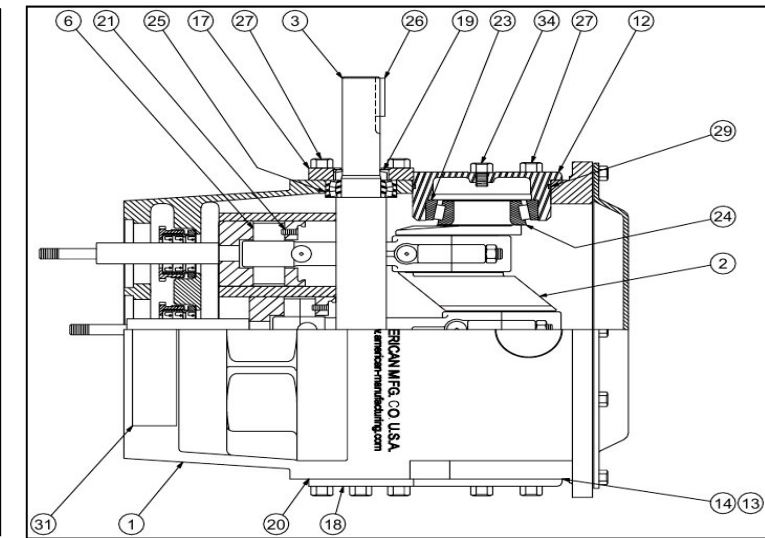
Part Description	Part Number	Part Description	Part Number
1. Power Frame	PPFMC 5257698	30. Screw Self Tapping	PPFMC 1187413
2. Crankshaft	PPFMC 1285094	31. Plate, Inspection	PPFMC 5260567
3. Pinion Shaft	PPFMC P511596	32. Pipe Plug, Power End	PPFMC 1187048
4. Connecting Rod Assembly	PPFMC 5266814	33. Filler Cap or Vent	PPFMC A5054
5. Rod Bearing	PPFMC P514965	34. Screw	PPFMC 1106980
6. Wrist Pin	PPFMC A91014	35. Petcock	PPFMC 1187039
7. Crosshead Assembly	PPFMC 1252939	37. Fluid Chamber	PPFMC 1284777
8. Seal Holder	PPFMC 3268369	38. Valve Seat	PPFMC 1284740
9. Oil Seal, Piston Rod	PPFMC 1177489	39. Cylinder	PPFMC 1267586
10. Seal Retainer Nut	PPFMC 1266323	40. Piston Cup	PPFMC A268N
11. Gasket, Seal Retainer	PPFMC 3268418	41. Piston Holder	PPFMC A91663
12. Bearing Housing, Blind	PPFMC 1248369	42. Hex Nut	PPFMC 8309
13. Shim, Bearing Housing	PPFMC 1252595	43. Plunger Nut	PPFMC A5016
14. Gasket, Bearing Housing	PPFMC A91675	44. Piston Retainer	PPFMC 1216753
15. Back Cover	PPFMC P508969	45. O-Ring, Rod Seal	PPFMC 1101176
16. Gasket, Back Cover	PPFMC P508966	46. Gasket, Fluid Cylinder	PPFMC 1279676
17. Pinion Housing, Drive	PPFMC 5257338	47. Stud, Fluid Cylinder	PPFMC A91672
18. Pinion Housing, Blind	PPFMC P508916	48. Hex Nut	PPFMC 1121513
19. Oil Seal, Rotating	PPFMC 5257339	49. Valve Cover	PPFMC 1285113
20. Gasket, Pinion	PPFMC A91674	50. Gasket, Valve Cover	PPFMC 1279675
21. Screw Set	PPFMC 1182554	51. Clamp, Valve Cover	PPFMC A80391
22. Name Plate	PPFMC 5277981	52. Stud, Valve Cover	PPFMC A5076
23. Bearing Cone, Crank	PPFMC 1177473	53. Hex Nut, Valve Cover	PPFMC 1121511
24. Bearing Cup, Crank	PPFMC 1177474	54. Cylinder Cover	PPFMC 1285112
25. Bearing, Pinion	PPFMC P511746	55. Gasket, Cylinder Cover	PPFMC 1279674
26. Key	PPFMC 1104349	56. Suction Plug	PPFMC 1105121
27. Cap Screw, Pinion Bearing	PPFMC 1100054	57. Clamp, Cylinder	PPFMC A80392
28. Cap Screw, Bearing	PPFMC 1100804	58. Stud, Cylinder Cover	PPFMC 1279602
29. O-Ring, Bearing	PPFMC 3226710	59. Ball, Valve	PPFMC 1101419

AW1122BCD Piston Pump

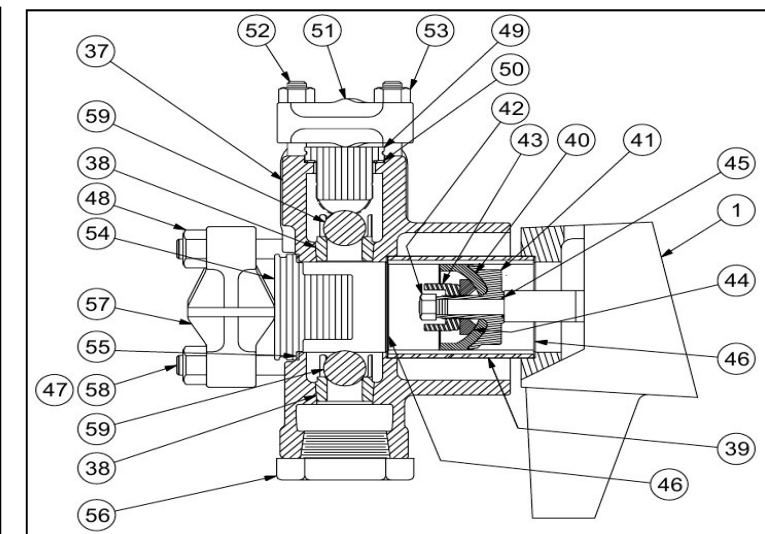
Power End Components



Power End Components



Fluid End Components



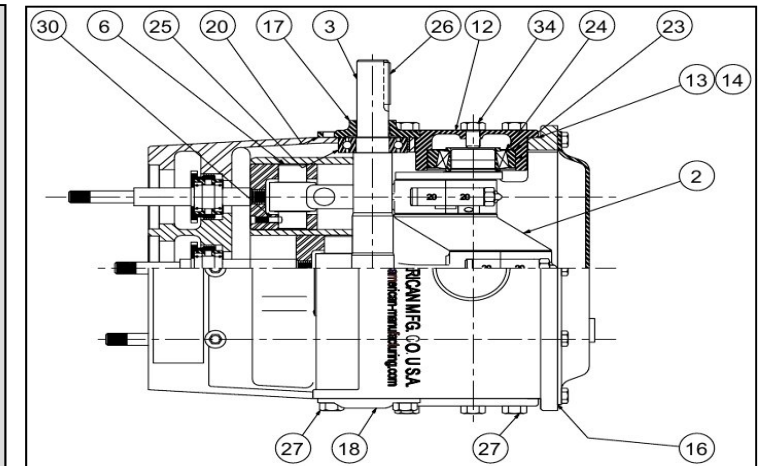
AL0918B Piston Pump

Part Description	Part Number
1. Power Frame	PPFMC 5260537
2. Crankshaft	PPFMC 1279071
3. Pinion Shaft	PPFMC 1265098
4. Connecting Rod Assembly	PPFMC 18710
5. Rod Bearing	PPFMC P506697
6. Wrist Pin	PPFMC A5006
7. Crosshead Assembly	PPFMC 1250876
8. Seal Holder	PPFMC 1283601
9. Oil Seal, Piston Rod	PPFMC 1283603
10. Seal Retainer Nut	PPFMC 1283600
11. Gasket, Seal Retainer	PPFMC 1283602
12. Bearing Housing, Blind	PPFMC 1279064
13. Shim, Bearing Housing	PPFMC 1257594
14. Gasket, Bearing Housing	PPFMC A5025
15. Back Cover	PPFMC 1279063
16. Gasket, Back Cover	PPFMC 1279065
17. Pinion Housing, Drive	PPFMC A5005
18. Pinion Housing, Blind	PPFMC 1225769
19. Petcock	PPFMC 1187039
20. Gasket, Pinion	PPFMC A5026
21. Name Plate	PPFMC 5277981
22. Lube Fitting	PPFMC 1100759
23. Bearing Cone, Crank	PPFMC 1101242
24. Bearing Cup, Crank	PPFMC 1177287
25. Bearing, Pinion	PPFMC 1104444
26. Key	PPFMC 1187577
27. Cap Screw, Pinion Bearing	PPFMC 1100068
28. Screw	PPFMC 1187413
29. Cap Screw, Back Cover	PPFMC 1106910
30. Set Screw	PPFMC 1103470

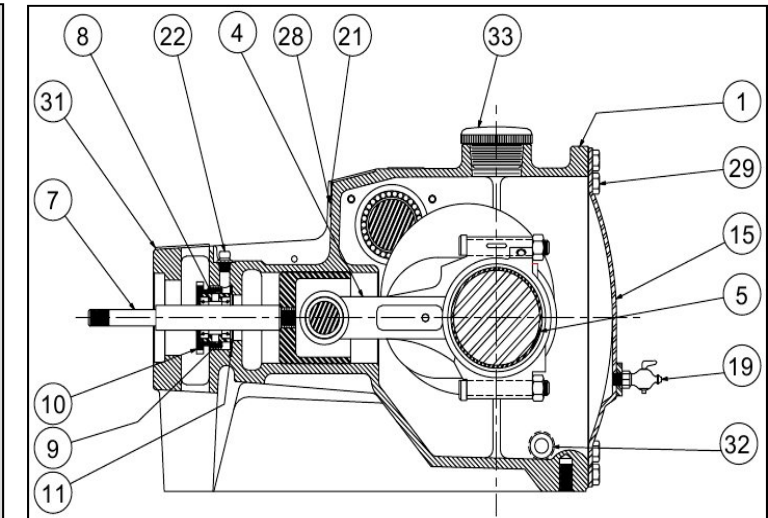
Part Description	Part Number
31. Plate, Inspection	PPFMC 1214260
32. Pipe Plug, Power End	PPFMC 1187048
33. Filler Cap or Vent	PPFMC A5054
34. Screw	PPFMC 1106980
38. Fluid Chamber	PPFMC 1255266
39. Valve Seat	PPFMC 1225327
40. Piston Cup	PPFMC A3434N
41. Piston Holder	PPFMC 8495
42. Hex Nut	PPFMC 8309
43. Nut Retainer	PPFMC A5016
44. Piston Retainer	PPFMC 1207289
45. O-Ring, Rod Seal	PPFMC 1101176
46. Gasket, Fluid Cyliner	PPFMC 1280024
47. Plug, Pipe	PPFMC P501267
48. Plug, Suction	PPFMC 1105105
49. Valve Cover	PPFMC A5003
50. Gasket, Valve Cover	PPFMC 1280026
51. Clamp, Valve Cover	PPFMC 1271716
52. Stud, Valve Cover	PPFMC A5012
53. Hex Nut, Valve Cover	PPFMC 1121511
54. Cylinder Cover	PPFMC A5002
55. Gasket, Cylinder Cover	PPFMC 1280025
56. Cylinder	PPFMC 1272060
57. Clamp, Cylinder	PPFMC 1271415
58. Stud, Cylinder Cover	PPFMC A5011
59. Stud	PPFMC A5009
60. Seal Holder	PPFMC 1281655
61. Hex Nut, Cylinder	PPFMC 1121511
62. Ball	PPFMC 1187738

AL0918B Piston Pump

Power End Components



Power End Components



Fluid End Components

