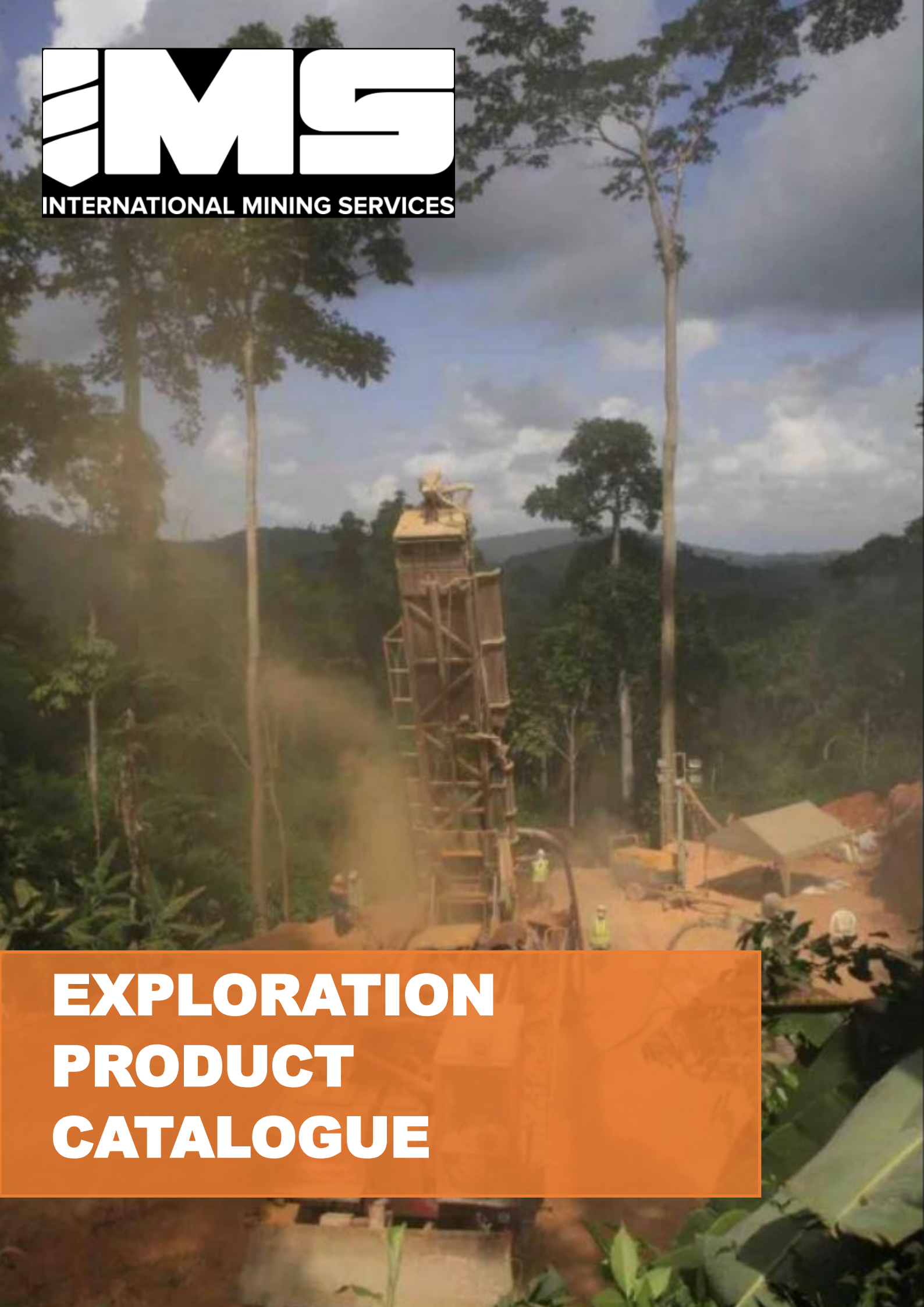


The background of the entire page is a photograph of a mining operation in a tropical setting. A large, yellow drilling rig is the central focus, with a significant amount of dust or smoke being kicked up from its base. Several workers in high-visibility vests are visible around the rig. The site is surrounded by lush green trees and vegetation, with hills visible in the distance under a cloudy sky.

EXPLORATION PRODUCT CATALOGUE

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VAN RUTH PRODUCTS

CUTTERS & ADVANCERS

International Mining Services in conjunction with manufactures have developed core lifters and core lifter cases to suit various formations that are drilled globally to achieve the best possible results for our customers.

IMS Fine Case



- Matched to fine core lifter
- Hardened to resist swelling
- Suited to hard abrasive ground

IMS Course Case



- Matched to coarse lifter
- Suited to poor formation

IMS Built in Stop Ring



- Suited to poor wedge group where stop rings are fused up
 - Compatible with fine and coarse core lifter
-

IMS Fine Core Lifter



- Compatible with fine core lifter case
- Hardened to resist abrasion
- Smaller thread for more contact area in hard competent ground

IMS Chrome Core Lifter



- Used in abrasive ground. Chrome has been added to extend the life of the core lifter

IMS Diamond Coated Core Lifter



- Compatible with both core lifter cases
- Diamond coated for extra life in extremely abrasive formation

IMS Basket Core Lifter



- Used in poor formation
- Also known as finger lifter
- Used to recover dropped core

IMS Spec Domed Core Lifter



- Generally used as a last resort for extremely poor formation
- Used to recover dropped core

IMS Course Core Lifter

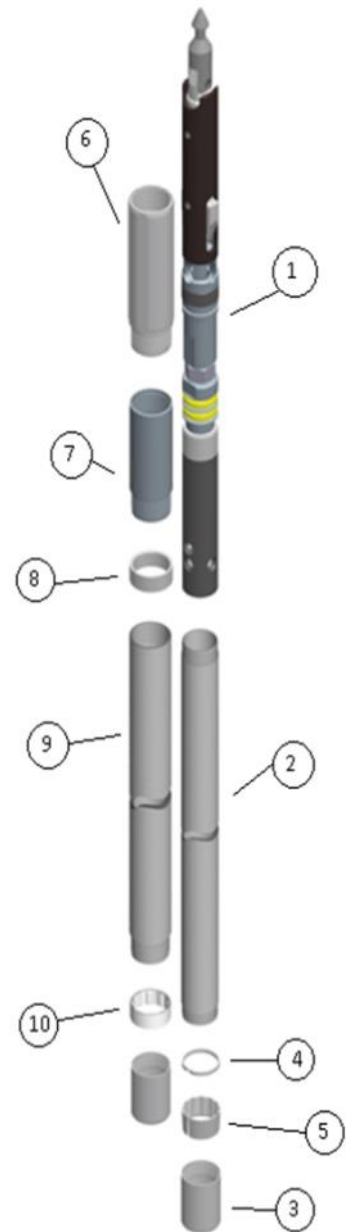


- Used in poor formation. Substitute for a fine core lifter if the gripping face is clogging in soft formation

CORE BARREL ASSEMBLY

BWL CORE BARREL ASSEMBLY

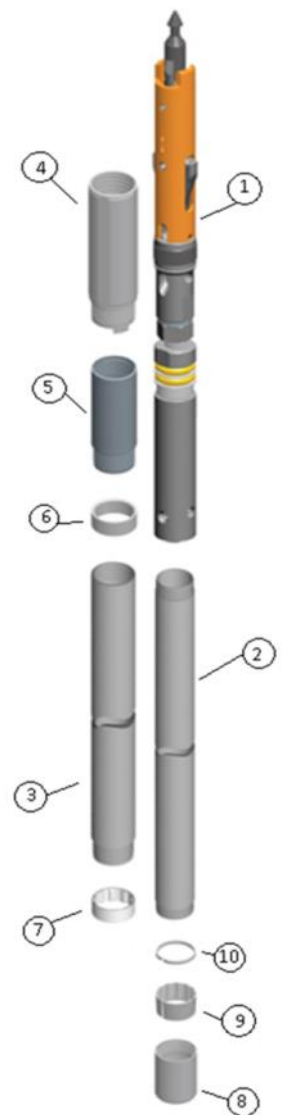
ID #	DESCRIPTION	PART #	QTY
	BWL Core Barrel Assembly 1.5MTR	IMS306411	
	BWL Core Barrel Assembly 3MTR	IMS306412	
-	BWLU Pump Down Head Assembly	IMS3544012	optional
1	BWL Head Assembly	IMS3542292	1
2	BWL Inner Tube 1.5MTR	IMS24356	1
2	BWL Inner Tube 3MTR	IMS24339	1
3	BWL Core Lifter Case	IMS24830	1
4	BWL Stop Ring	IMS24831	1
5	BWL Core Lifter Coarse	IMS24342	1
5	BWL Core Lifter Fine	IMS100732DE	1
5	BWL Core Lifter Diamond Coated	IMS101624DE	1
5	BWL Core Lifter Slotted	IMS24342SLOT	1
6	BWL Locking Coupling	IMS100763DE	1
7	BWL Adaptor Coupling	IMS24833	1
8	BWL Landing Ring	IMS24345	1
9	BWL Outer Tube 1.5MTR	IMS24357	1
9	BWL Outer Tube HEX 3MTR	IMS3545387	optional
9	BWL Outer Tube 3MTR	IMS24346	1
10	BWL Inner Tube Stabilizer	IMS44406	1



CORE BARREL ASSEMBLY

NWL CORE BARREL ASSEMBLY

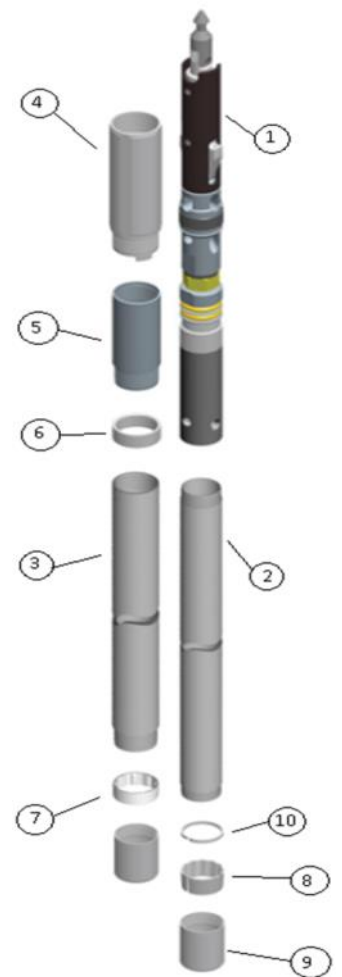
ID #	DESCRIPTION	PART #	QTY
	NWL CORE BARREL 1.5MTR ASSEMBLY	IMS306001	
	NWL CORE BARREL 3MTR ASSEMBLY	IMS306002	
1	NWL Head Assembly	IMS3542751	1
2	NWL Inner Tube 6MTR	IMS66712	
2	NWL Inner Tube 3MTR	IMS24891	1
2	NWL Inner Tube 1.5MTR	IMS24909	1
3	NWL Outer Tube 6MTR	IMS66713	1
3	NWL Outer Tube 3MTR	IMS24898	1
3	NWL Outer Tube 1.5MTR	IMS24910	1
3	NWL Outer Tube Chrome Hex 3MTR	IMS85294	1
4	NWL Locking Coupling	IMS100373	1
5	NWL Adaptor Coupling	IMS24896	1
6	NWL Landing Ring	IMS24897	1
7	NWL Inner Tube Stabilizer	IMS44407	1
8	NWL Core Lifter Case	IMS24892	1
9	NWL Core Lifter	IMS24894	1
10	NWL Stop Ring	IMS24893	1



CORE BARREL ASSEMBLY

NWL2 CORE BARREL ASSEMBLY

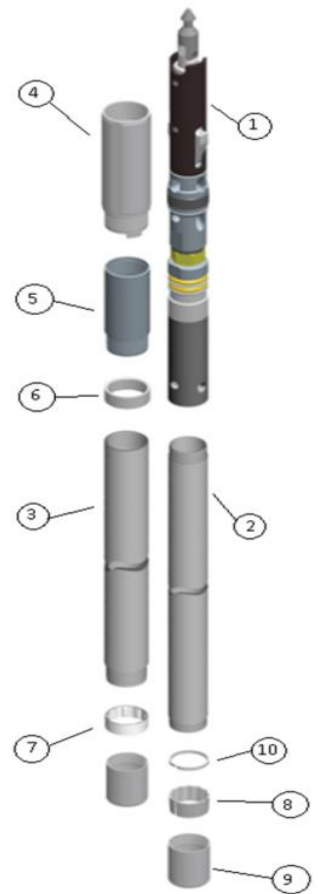
ID #	DESCRIPTION	PART #	QTY
	NWL2 CORE BARREL 1.5MTR ASSEMBLY	IMS306012	
	NWL2 CORE BARREL 3MTR ASSEMBLY	IMS306013	
1	NWL2 HEAD ASSEMBLY	IMS3542752	1
2	NWL2 Inner Tube 6MTR	IMS82294	1
2	NWL2 Inner Tube 3MTR	IMS43601	1
2	NWL2 Inner Tube 1.5MTR	IMS44366	1
2	NWL2 Ext Tube 3.4MTR	IMS102023	1
3	NWL Outer Tube 6MTR	IMS66713	1
3	NWL Outer Tube 3MTR	IMS24898	1
3	NWL Outer Tube 1.5MTR	IMS24910	1
3	NWL Outer tube Chrome HEX Full Hole	IMS85294CP	1
4	NWL Locking Coupling	IMS100373	1
5	NWL Adaptor Coupling	IMS24896	1
6	NWL2 Landing Ring	IMS29214	1
7	NWL2 Inner Tube Stabilizer	IMS43812	1



CORE BARREL ASSEMBLY

NWL2 CORE BARREL ASSEMBLY

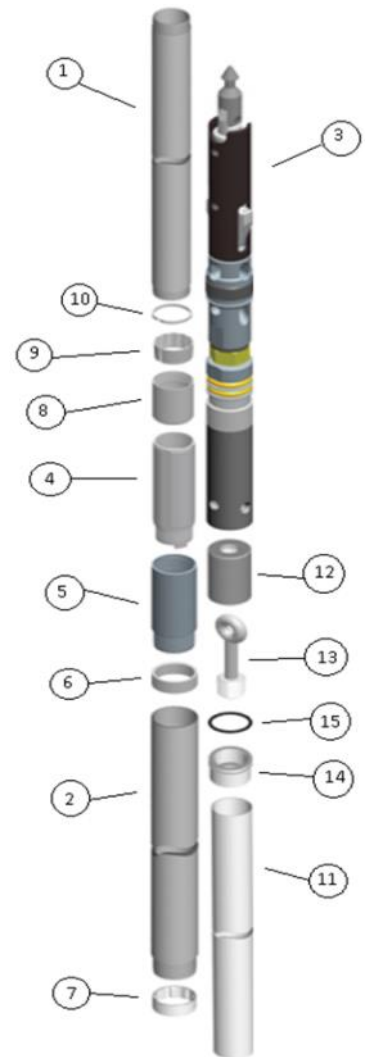
ID #	DESCRIPTION	PART #	QTY
	NWL2 CORE BARREL 1.5MTR ASSEMBLY	IMS306012	
	NWL2 CORE BARREL 3MTR ASSEMBLY	IMS306013	
8	NWL2 Core Lifter Coarse	IMS29211	1
8	NWL2 Core Lifter Fluted Fine	IMS100425DE	1
8	NWL2 Core Lifter Diamond Coated Fine	IMS100849DE	1
8	NWL2 Core Lifter Slotted	IMS29211SLOTTED	1
8	NWL 2 Core Lifter Basket	IMS29211BASKET	1
8	NWL2 Core Lifter Chrome	IMS29211CP	1
9	NWL2 Core Lifter Case Coarse	IMS29209	1
9	NWL2 Core Lifter Case Fine	IMS100429DE	1
9	NWL2 Core Lifter Case - Built in Stop Ring	IMS29209SPEC	1
10	NWL2 Stop Ring	IMS29210	1



CORE BARREL ASSEMBLY

NWL3 CORE BARREL ASSEMBLY

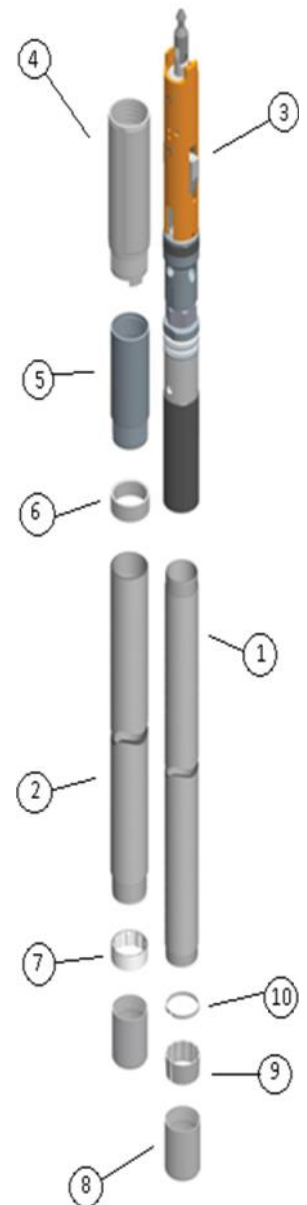
ID #	DESCRIPTION	PART #	QTY
	NWL3 CORE BARREL 1.5MTR ASSEMBLY	IMS3540572	
1	NWL3 Head Assembly	IMS3542751	1
2	NWL Inner Tube 6MTR	IMS66712	
2	NWL Inner Tube 3MTR	IMS24891	1
2	NWL Inner Tube 1.5MTR	IMS24909	1
3	NWL Outer Tube 6MTR	IMS66713	1
3	NWL Outer Tube 3MTR	IMS24898	1
3	NWL Outer Tube 1.5MTR	IMS24910	1
3	NWL Outer Tube Chrome Hex 3MTR	IMS85294	1
4	NWL Locking Coupling	IMS100373	1
5	NWL Adaptor Coupling	IMS24896	1
6	NWL Landing Ring	IMS24897	1
7	NWL Inner Tube Stabilizer	IMS44407	1
8	NWL3 Core Lifter Case	IMS26529	1
9	NWL3 Fluted Core Lifter	IMS26531	1
10	NWL3 Stop Ring	IMS26530	1
11	NWL3 HD Split Tube 3MTR	IMS265285	2
12	NWL3 Pump Out Adapter	IMS26532	1
13	NWL3 Piston Plug	IMS26662	1
14	NWL3 Ejection Piston	IMS26526	1
15	NWL3 O Ring	IMS26134	1



CORE BARREL ASSEMBLY

HWL CORE BARREL ASSEMBLY

ID #	DESCRIPTION	PART #	QTY
	HWL Core Barrel Assembly 1.5MTR	IMS3542946	
	HWL Core Barrel Assembly 3MTR	IMS3652947	
1	HWL Inner Tube 6MTR	IMS41401	1
1	HWL Inner Tube 3MTR	IMS25236	1
1	HWL Inner Tube 1.5MTR	IMS25258	1
2	HWL Outer Tube 6MTR	IMS56119	1
2	HWL Outer Tube 3MTR	IMS25243	1
2	HWL Outer Tube 1.5MTR	IMS25259	1
2	HWL Outer Tube Chrome Hex O/Size 3MTR	IMS85292CP	1
3	HWL - HWL3 Head Assembly	IMS3542941	1
4	HWL Locking Coupling	IMS100367	1
5	HWL Adaptor Coupling	IMS25241	1
6	HWL Landing Ring	IMS25242	1
7	HWL Inner Tube Stabilizer	IMS44408	1
8	HWL Core Lifter Case Coarse	IMS25237	1
8	HWL Core Lifter Case Fine	IMS100430DE	1
9	HWL Core Lifter Coarse	IMS25239	1
9	HWL Core Lifter Fine	IMS10426DE	1
9	HWL Core Lifter Diamond Spray	IMS10080DE	1
9	HWL Core Lifter Chrome	IMS25239CP	1
10	HWL Stop Ring	IMS25238	1





INTERNATIONAL MINING SERVICES



CORE BARREL ASSEMBLY

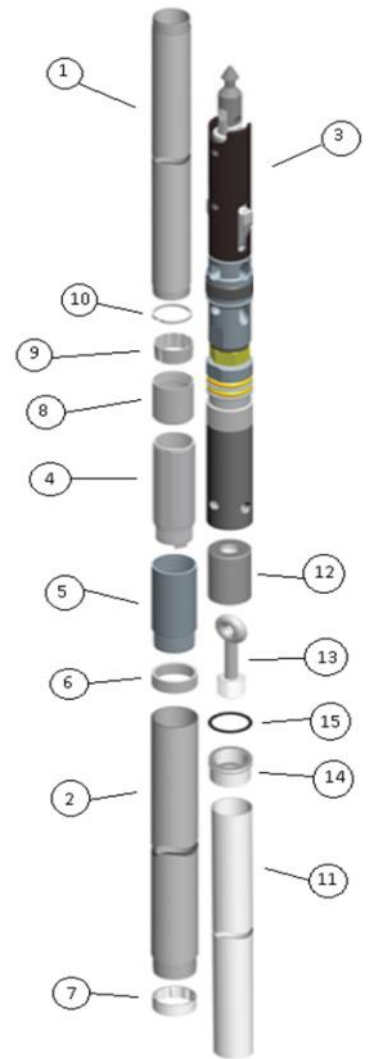
HWL3 CORE BARREL ASSEMBLY

ID #	DESCRIPTION	PART #	QTY
	HWL3 Core Barrel Assembly 1.5MTR	IMS3542948	
	HWL3 Core Barrel Assembly 3MTR	IMS365294	
1	HWL Inner Tube 6MTR	IMS41401	1
1	HWL Inner Tube 3MTR	IMS25236	1
1	HWL Inner Tube 1.5MTR	IMS25258	1
2	HWL Outer Tube 6MTR	IMS56119	1
2	HWL Outer Tube 3MTR	IMS25243	1
2	HWL Outer Tube 1.5MTR	IMS25259	1
2	HWL Outer Tube Chrome Hex O/Size 3MTR	IMS85292CP	1
3	HWL - HWL3 Head Assembly	IMS3542941	1
4	HWL Locking Coupling	IMS100367	1
5	HWL Adaptor Coupling	IMS25241	1
6	HWL Landing Ring	IMS25242	1
7	HWL Inner tube Stabilizer	IMS44408	1
8	HWL3 Core Lifter Case Coarse	IMS26514	1
8	HWL3 Core Lifter Case Fine	IMS100431DE	

CORE BARREL ASSEMBLY

HWL3 CORE BARREL ASSEMBLY

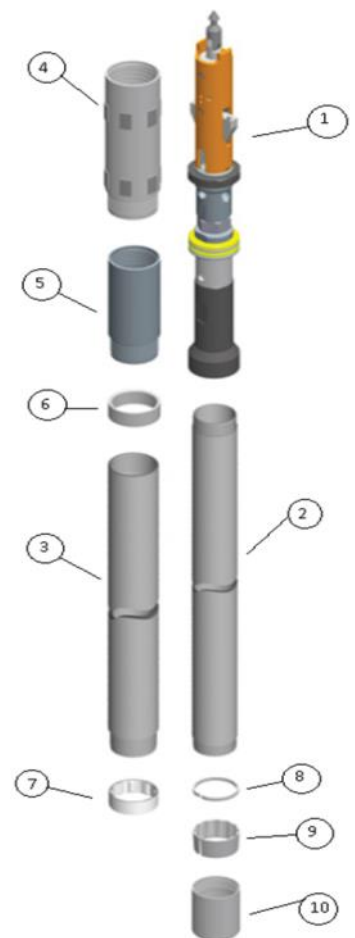
ID #	DESCRIPTION	PART #	QTY
	HWL3 Core Barrel Assembly 1.5MTR	IMS3542948	
	HWL3 Core Barrel Assembly 3MTR	IMS3652949	
9	HWL3 Core Lifter Coarse	IMS26516	1
9	HWL3 Core Lifter Basket	IMS26516-BASKET	1
9	HWL3 Core Lifter Chrome	IMS26516CP	1
9	HWL3 Core Lifter Basket Dome	IMS26516SPEC	1
9	HWL3 Core Lifter Fine	IMS100427DE	1
9	HWL3 Core Lifter Diamond Spray	IMS100619DE	1
10	HWL3 Stop Ring	IMS26515	1
11	HWL3 HD Split Tube 1.5MTR	IMS26512S	1 PAIR
11	HWL3 HD Split Tube 3MTR	IMS26513S	1 PAIR
11	HWL3 HD Split Tube 6MTR	IMS3070921S	1 PAIR
12	HWL3 Pump Out Adaptor	IMS26517	1
13	HWL3 Piston Plug	IMS26662	1
14	HWL3 Brass Piston	IMS26510	1
15	HWL3 O Ring	IMS20651	1



CORE BARREL ASSEMBLY

PWL CORE BARREL ASSEMBLY

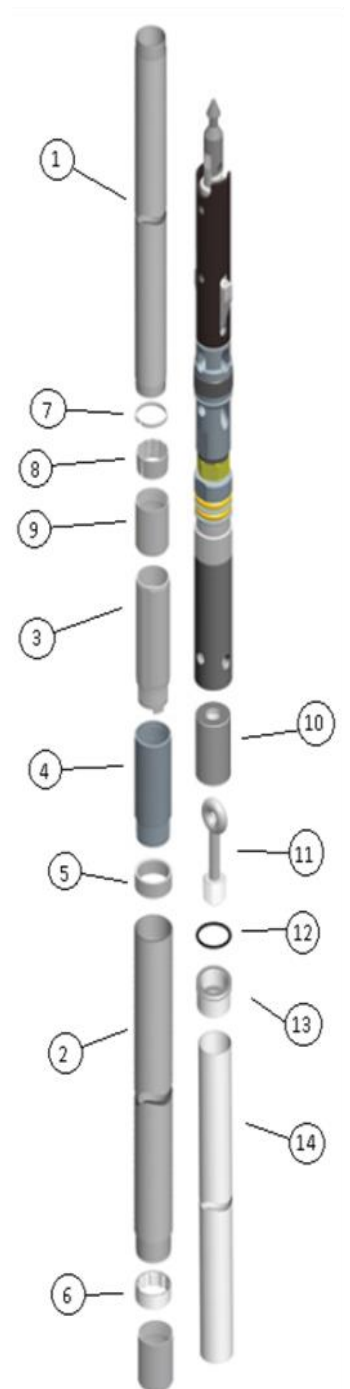
ID #	DESCRIPTION	PART #	QTY
	PWL Core Barrel Assembly 1.5MTR	IMS3002605	
1	PWL Head Assembly	IMS3546500	1
2	PWL Inner Tube 1.5MTR	IMS26159	1
2	PWL Inner Tube 3MTR	IMS26534	1
3	PWL Outer Tube 1.5MTR	IMS3543802	1
3	PWL Outer Tube 3MTR	IMS3543801	1
4	PWL Locking Coupling	IMS3000394	1
5	PWL Adaptor Coupling	IMS3002506	1
6	PWL Landing Ring	IMS3543814	1
7	PWL Inner Tube Stabilizer	IMS44923	1
8	PWL Stop Ring	IMS26161	1
9	PWL Core Lifter Coarse	IMS26162	1
10	PWL Core Lifter Case Coarse	IMS52172	1



CORE BARREL ASSEMBLY

PWL3 CORE BARREL ASSEMBLY

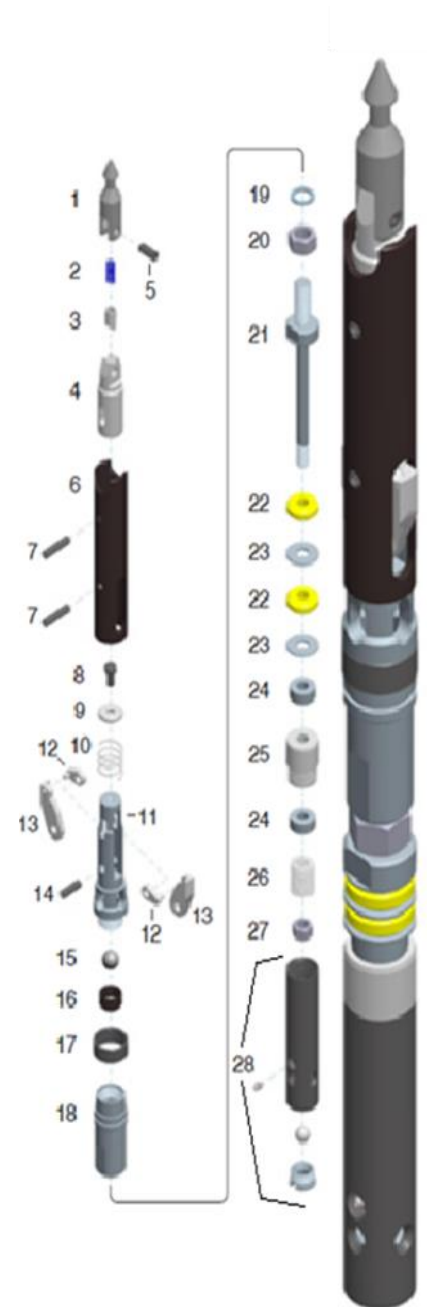
ID #	DESCRIPTION	PART #	QTY
	PWL3 Core Barrel Assembly 3.0MTR	IMS3002606	
1	PWL Inner Tube 1.5MTR	IMS26159	1
1	PWL Inner Tube 3MTR	IMS26534	1
2	PWL Outer Tube 1.5MTR	IMS3543802	1
2	PWL Outer Tube 3MTR	IMS3543801	1
3	PWL Locking Coupling	IMS3000394	1
4	PWL Adaptor Coupling	IMS3002506	1
5	PWL Landing Ring	IMS3543814	1
6	PWL Inner Tube Stabilizer	IMS44923	1
7	PWL3 Stop Ring	IMS26176	1
8	PWL3 Core Lifter Coarse	IMS26177	1
8	PWL3 Core Lifter Fine	IMS100428DE	1
8	PWL3 Core Lifter Diamond Spray	IMS104872DE	1
8	PWL3 Core Lifter Basket	IMS26177BASKET	1
8	PWL3 Core Lifter Chrome	IMS26177CP	1
9	PWL3 Core Lifter Case	IMS26160	1
9	PWL3 Core Lifter Case Fine	IMS100433DE	1
10	PWL3 Pump Out Adaptor	IMS26182	1
11	HWL3/ PWL3 Piston Plug	IMS26662	1
12	PWL3 Pump Out Adaptor 1/2 NPT	IMS26182	1
13	PWL3 Brass Piston	IMS26179	1
14	PWL3 HD Split Tube 1.5MTR - Pair	IMS26180	1
14	PWL3 HD Split Tube 3MTR - Pair	IMS26710	1



HEAD ASSEMBLY

BWL HEAD ASSEMBLY LINK

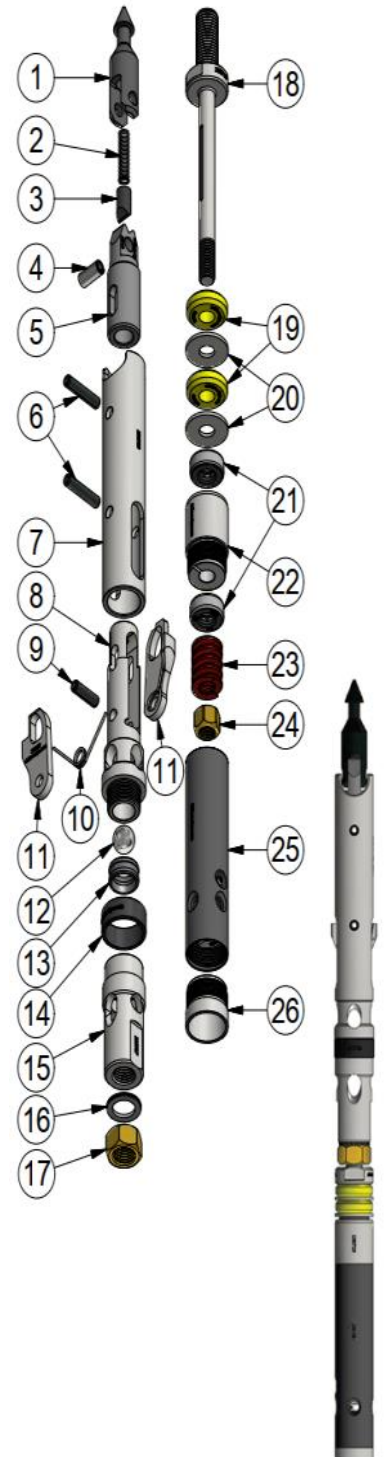
ID #	DESCRIPTION	PART #	QTY
	BWL HEAD ASSEMBLY	IMS3542292	
1	BWL Spearhead Point	IMS100462DE	1
2	B/N/HWL Compression Spring	IMS100447DE	1
3	B/N/HWL Detent Plunger	IMS100463DE	1
4	BWL Spearhead Base	IMS3544135	1
5	B/N/HWL Spiral Pin 7/16" X 1"	IMS42905	1
6	BWL Latch Retracting Case	IMS3541647	1
7	BWL Spring Pin 3/8" X 1-3/4"	IMS100701DE	2
8	B/N/HWL Nyloc Bolt 3/8" UNC	IMS3541932	1
9	BWL Washer	IMS306427	1
10	BWL Latch Compression Spring	IMS3543180	1
11	BWL Upper Latch Body	IMS3541621	1
12	BWL Link	IMS306418	2
13	BWL Latch	IMS306417	2
14	BWL Spring Pin 3/8" X 1-1/4"	IMS23944	1
15	BWL Stainless Steel Ball 22MM	IMS62374	1
16	BWL Bushing Landing Indicator	IMS62380	1
17	BWL Landing Shoulder	IMS306421	1
18	BWL Lower Latch Body	IMS306578	1
19	BWL Washer Nord Lock	IMS3548183	
20	BWL Hex Nut	IMS44601	1
21	BWL Spindle Assembly	IMS24331	1
22	BWL Shut Off Valve Hard	IMS44208	2
23	BWL Valve Adjusting Washer	IMS24335	2
24	BWL Thrust - Hanger Bearing	IMS24030	2
25	BWL Spindle Bearing	IMS24336	1
26	BWL Compression Spring	IMS24031	1
27	BWL Lock Nut Nyloc	IMS103144	1
28	BWL Inner Tube Cap Assembly	IMS40655	1



HEAD ASSEMBLY

BWL HEAD ASSEMBLY INDEPENDENT LATCH

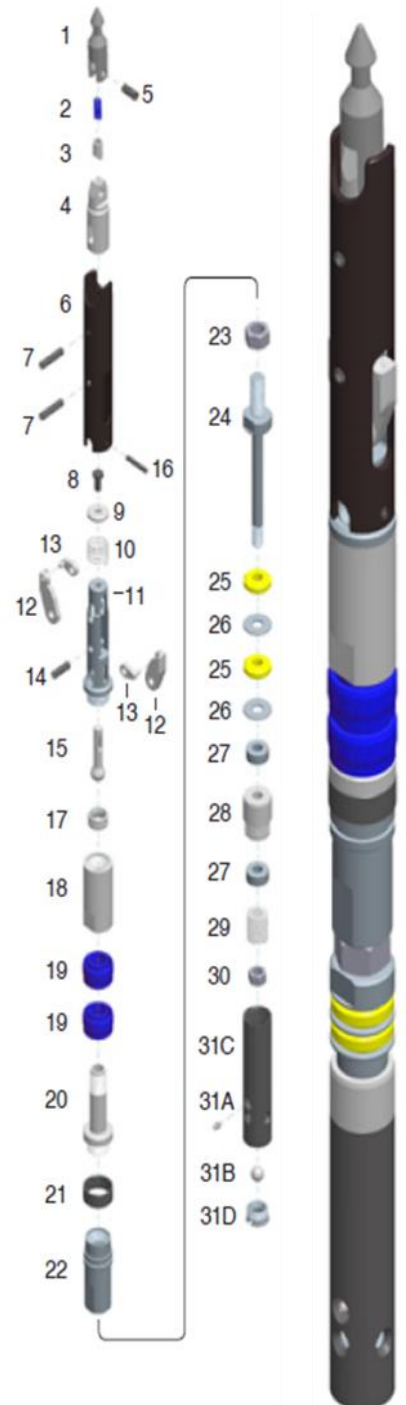
ID #	DESCRIPTION	PART #	QTY
	BWL HEAD ASSEMBLY	IMS100700DE	
1	BWL Spearhead Point	IMS100462DE	1
2	B/N/HWL Compression Spring	IMS100447DE	1
3	B/N/HWL Detent Plunger	IMS100463DE	1
4	B/N/HWL Spiral Pin 7/16" X 1	IMS42905	1
5	BWL Spearhead Base	IMS3544135	1
6	BWL Spring Pin 3/8" X 1-3/4"	IMS100701DE	2
7	BWL Latch Retracting Case	IMS3541647	1
8	BWL Upper Latch Body	IMS3541621	1
9	BWL Spring Pin 3/8" X 1-1/4"	IMS23944	1
10	BWL Latch Spring DE	IMS100722DE	1
11	BWL Latch DE	IMS100715DE	2
12	Stainless Steel Ball 22MM	IMS100452DE	1
13	Landing Indicator Bushing	IMS62380	1
14	BWL Landing Shoulder	IMS306421	1
15	BWL Lower Latch Body	IMS306578	1
16	BWL Washer Nord Lock	IMS3548183	1
17	BWL Hex Nut	IMS44601	1
18	BWL Spindle Assembly	IMS24331	1
19	BWL Shut Off Valve Hard	IMS44208	2
20	BWL Valve Adjusting Washer	IMS24335	2
21	BWL Thrust - Hanger Bearing	IMS24030	2
22	BWL Spindle Bushing Shielded DE	IMS100719DE	1
23	BWL Compression Spring	IMS24031	1
24	BWL Lock Nut Nyloc	IMS103144	1
25	BWL Inner Tube Cap Assembly	IMS40655	1



HEAD ASSEMBLY

BWLU HEAD ASSEMBLY LINK LATCH

ID #	DESCRIPTION	PART #	QTY
	BWLU HEAD ASSEMBLY	IMS3544012	
1	B/N/HWL Spearhead Point	IMS100462DE	1
2	B/N/HWL Compression Spring	IMS100447DE	1
3	B/N/HWL Detent Plunger	IMS100463DE	1
4	BWL Spearhead Base	IMS3544135	1
5	B/N/HWL Spiral Pin 7/16" X 1"	IMS42905	1
6	BWLU Latch Retracting Case	IMS3547671	1
7	BWL Spring Pin 3/8" X 1-3/4"	IMS100701DE	2
8	B/N/HWL Nyloc Bolt	IMS3541932	1
9	BWL Washer	IMS306427	1
10	BWLU Latch Compression Spring	IMS3541836	1
11	BWLU Upper Latch Body	IMS3547725	1
12	BWL Latch	IMS306417	2
13	BWL Link	IMS306418	2
14	BWL Spring Pin 3/8" X 1-1/4"	IMS23944	1
15	BWLU Piston Ball	IMS3547672	1
16	BWLU Spring Pin 1/4" x 1-5/8"	IMS23946	1
17	BWLU Landing Indicator Bushing	IMS3543904	1
18	BWLU Adaptor	IMS3543905	1
19	BWLU Pump In Seal	IMS100690	2
20	BWLU Seal Seat	IMS3543906	1
21	BWL Landing Shoulder	IMS306421	1
22	BWL Lower Latch Body	IMS306578	1
23	BWL Hex Nut	IMS44601	1
24	BWL Spindle Assembly	IMS24331	1
25	BWL Shut Off Valve Hard	IMS44208	2
26	BWL Valve Adjusting Washer	IMS24335	2
27	BWL Thrust - Hanger Bearing	IMS24030	2
28	BWL Spindle Bearing	IMS24336	1
29	BWL Compression Spring	IMS24031	1
30	BWL Lock Nut Nyloc	IMS103144	1
31	BWL Inner Tube Grease Cap Assembly	IMS40655	1

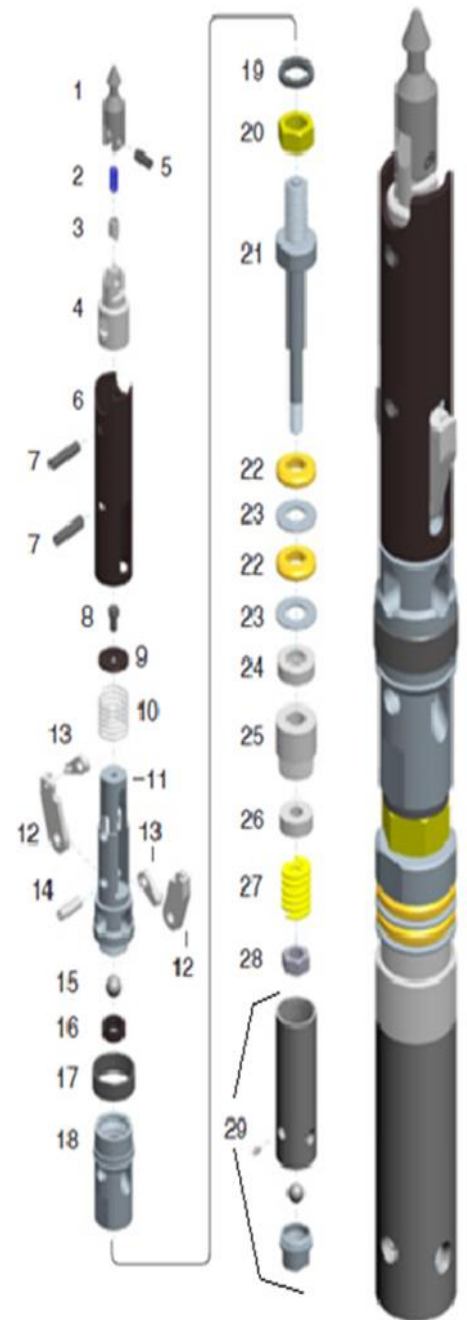




HEAD ASSEMBLY

NWL HEAD ASSEMBLY LINK LATCH

ID #	DESCRIPTION	PART #	QTY
	NWL HEAD ASSEMBLY	IMS3542751	
1	B/N/HWL Spearhead Point	IMS100462DE	1
2	B/N/HWL Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	NWL Spearhead Base	IMS3540329	1
5	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
6	NWL Latch Retracting Case	IMS100465DE	1
7	NWL/HWL Spring Pin 1/2" X 2"	IMS100449DE	2
8	B/N/H Bolt 3/8" UNC	IMS3541932	1
9	NWL Washer	IMS306022	1
10	NWL Compression Spring	IMS3543812	1
11	NWL Upper Latch Body	IMS3541778	1
12	NWL Latch	IMS104816	2
13	NWL Link	IMS306454	2
14	NWL Spring Pin 1/2" X 1-1/2"	IMS24548	1
15	B/N/H/ Stainless Steel Ball 22MM	IMS62374	1
16	B/N/H Landing Indicator Bushing	IMS62380	1
17	NWL Landing Shoulder	IMS306009	1
18	NWL Lower Latch Body	IMS100470DE	1
19	Washer Nord Lock	IMS3548161	2
20	NWL Nut	IMS24885	1
21	NWL Spindle	IMS24886	1
22	NWL Shut Off Valve Hard	IMS100455DE	2
22	NWL Shut Off Valve Soft	IMS100583DE	1
23	NWL Valve Adjusting Washer	IMS24888	2
24	NWL Thrust Bearing	IMS100457DE	1
26	NWL Hanger Bearing	IMS100458DE	1
25	NWL Spindle Bearing	IMS24889	1
27	NWL Compression Spring	IMS100459DE	1
28	NWL Nut Lock	IMS22918	1
29	NWL Inner Tube Cap Assembly	IMS40664	1



HEAD ASSEMBLY

NWL HEAD ASSEMBLY INDEPENDENT LATCH

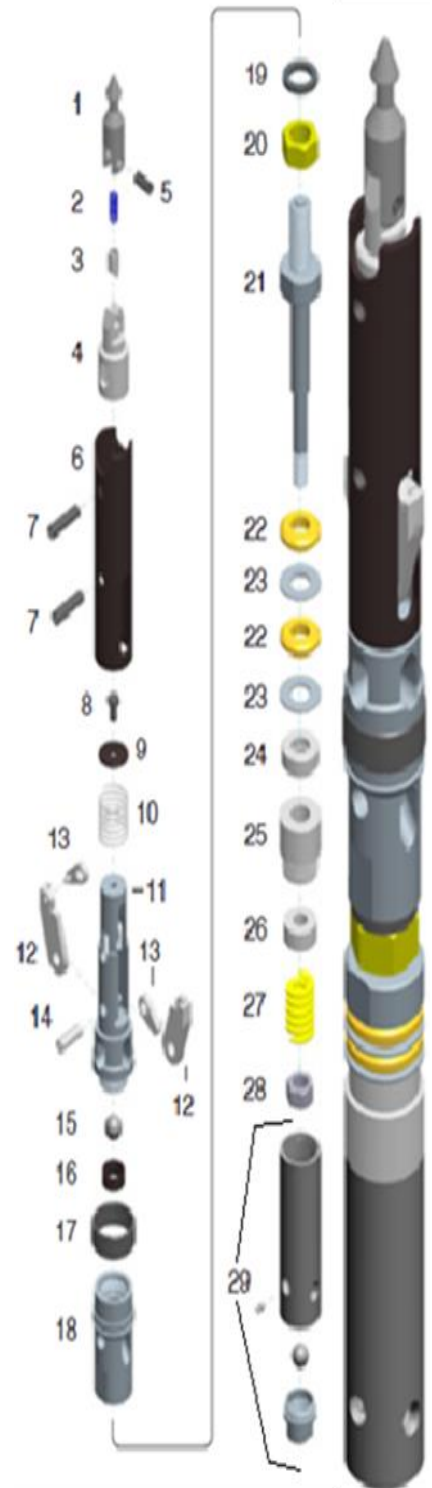
ID #	DESCRIPTION	PART #	QTY
	NWL HEAD ASSEMBLY DE	IMS100476DE	
1	B/N/HWL Spearhead Point	IMS100462DE	1
2	B/N/HWL Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
5	NWL Spearhead Base	IMS3540329	1
6	NWL/HWL Spring Pin 1/2" X 2"	IMS100449DE	2
7	NWL Latch Retracting Case	IMS100465DE	1
8	NWL Upper Latch Body	IMS3541778	1
9	NWL2 Spring Pin 1/2" X 1-1/2"	IMS24548	1
10	NWL/HWL Latch Spring Independent	IMS100450DE	1
11	NWL/NWLU/NWL2U Latch	IMS100808DE	2
12	NWL Landing Shoulder	IMS306009	1
13	B/N/HWL Stainless Steel Ball 22MM	IMS62374	1
14	B/N/HWL Landing Indicator Bushing	IMS62380	1
15	NWL Lower Latch Body	IMS100470DE	1
16	Washer Nord Lock	IMS3548161	1
17	NWL Nut	IMS24885	1
18	NWL2 Spindle	IMS24886	1
19	NWL2 Shut Off Valve Hard	IMS100455DE	2
19	NWL2 Shut Off Valve Soft - Optional	IMS100583DE	2
20	NWL2 Valve Adjusting Washer	IMS24888	2
21	NWL Thrust Bearing	IMS100457DE	1
22	NWL Spindle Bearing Shielded	IMS100472DE	1
23	NWL Hanger Bearing	IMS100458DE	1
24	NWL Compression Spring	IMS100459DE	1
25	NWL2 Nut Lock	IMS22918	1
26	NWL Inner Tube Cap Assembly	IMS40664	1



HEAD ASSEMBLY

NWL2 HEAD ASSEMBLY LINK LATCH

ID #	DESCRIPTION	PART #	QTY
	NWL2 HEAD ASSEMBLY	IMS3542752	
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	NWL Spearhead Base	IMS3540329	1
5	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
6	NWL Latch Retracting Case	IMS100465DE	1
7	NWL/HWL Spring Pin 1/2" X 2"	IMS100449DE	2
8	B/N/HWL Bolt 3/8" UNC	IMS3541932	1
9	NWL Washer	IMS306022	1
10	NWL2 Compression Spring	IMS3543812	1
11	NWL2 Upper Latch Body	IMS3541778	1
12	NWL2 Latch	IMS104816	2
13	NWL2 Link	IMS306454	2
14	NWL2 Spring Pin 1/2" X 1-1/2"	IMS24548	1
15	B/N/HWL Stainless Steel Ball 22MM	IMS62374	1
16	B/N/HWL Landing Indicator Bushing	IMS62380	1
17	NWL2 Landing Shoulder	IMS306026	1
18	NWL2 Lower Latch Body	IMS100470DE	1
19	Washer Nord Lock	IMS3548161	2
20	NWL2 Nut	IMS24885	1
21	NWL2 Spindle	IMS24886	1
22	NWL2 Shut off Valve Hard	IMS100455DE	2
22	NWL2 Shut Off Valve Soft - Optional	IMS100583DE	2
23	NWL2 Valve Adjusting Washer	IMS24888	2
24	NWL Thrust Bearing	IMS100457DE	1
25	NWL2 Spindle Bearing	IMS24889	1
26	NWL2 Hanger Bearing	IMS100458DE	1
27	NWL Compression Spring	IMS100459DE	1
28	NWL2 Nut Lock	IMS22918	1
29	NWL2 Inner Tube Cap Assembly	IMS43604	1



HEAD ASSEMBLY

NWL2 HEAD ASSEMBLY INDEPENDENT LATCH

ID #	DESCRIPTION	PART #	QTY
	NWL2 HEAD ASSEMBLY	IMS100555DE	1
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
5	NWL Spearhead Base	IMS3540329	1
6	NWL/HWL Spring Pin 1/2" X 2"	IMS100449DE	2
7	NWL Latch Retracting Case	IMS100465DE	1
8	NWL2 Upper Latch Body	IMS3541778	1
9	NWL2 Spring Pin 1/2" X 1-1/2"	IMS24548	1
10	NWL/HWL Latch Spring Independent	IMS100450DE	1
11	NWL/NWLU/NWL2U Latch	IMS100808DE	2
12	NWL2 Landing Shoulder	IMS306026	1
13	B/N/HWL Stainless Steel Ball 22MM	IMS62374	1
14	B/N/HWL Landing Indicator Bushing	IMS62380	1
15	NWL2 Lower Latch Body	IMS100470DE	1
16	Washer Nord Lock	IMS3548161	2
17	NWL2 Nut	IMS24885	1
18	NWL2 Spindle	IMS24886	1
19	NWL2 Shut off Valve Hard	IMS100455DE	2
19	NWL2 Shut Off Valve Soft - Optional	IMS100583DE	2
20	NWL2 Valve Adjusting Washer	IMS24888	2
21	NWL Thrust Bearing	IMS100457DE	1
22	NWL Spindle Bearing Shielded	IMS100472DE	1
23	NWL Hanger Bearing	IMS100458DE	1
24	NWL Compression Spring	IMS100459DE	1
25	NWL2 Nut Lock	IMS22918	1
26	NWL2 Inner Tube Cap Assembly	IMS100556DE	1



HEAD ASSEMBLY

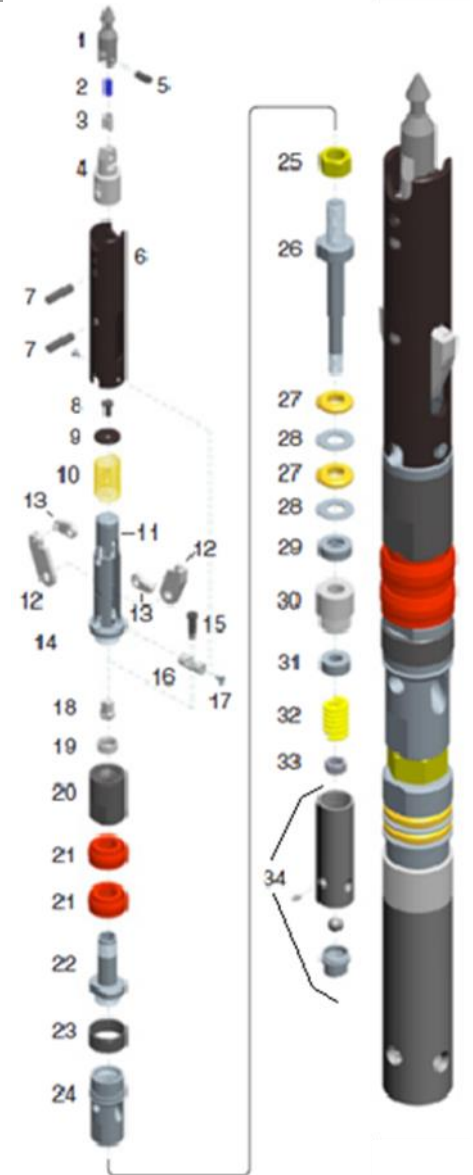
NWL2U HEAD ASSEMBLY

ID #	DESCRIPTION	PART #	QTY
	NWL2U HEAD ASSEMBLY	IMS3544015	
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	NWL2U Spearhead Base	IMS3544136	1
5	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
6	NWL2U Latch Retracting Case	IMS3543942	1
7	NWL Spring Pin 1/2" X 2"	IMS100449DE	3
8	NWL/HWL Bolt Nyloc 3/8" UNC	IMS3541932	1
9	NWL Washer	IMS306022	1
10	NWL2U Compression Spring Latch	IMS3543136	1
11	NWL2U Upper Latch Body	IMS3543943	1
12	NWL Latch	IMS104816	2
13	NWL2U Link	IMS104817	2
14	NWL Pin Spring 1/2" X 1-1/2"	IMS24548	1
15	NWL2U Bolt Shoulder Nyloc	IMS3543944	1
16	NWL2U Valve Holder	IMS3543945	1
17	NWL2U Screw Nyloc Machine Screw	IMS3543902	1
18	NWL2U Threaded Ball	IMS3543947	1
19	B/N/HWL Landing Indicator Bushing	IMS62380	1
20	NWL2U Adaptor	IMS3543948	1

HEAD ASSEMBLY

NWL2U HEAD ASSEMBLY

ID #	DESCRIPTION	PART #	QTY
	NWL2U HEAD ASSEMBLY	IMS3544015	
21	NWL2U Pump in Seal	IMS100764DE	2
22	NWLU Seal Seat	IMS3543949	1
23	NWL2 Landing Shoulder	IMS306026	1
24	NWL Lower Latch Body	IMS100470DE	1
25	NWL Nut	IMS24885	1
26	NWL Spindle	IMS24886	1
27	NWL Shut off Valve Hard	IMS100455DE	2
27	NWL2 Shut Off Valve Soft	IMS100583DE	2
28	NWL Valve Adjusting Washer	IMS24888	2
29	NWL Thrust Bearing	IMS100457DE	1
30	NWL Spindle Bearing	IMS24889	1
31	NWL Hanger Bearing	IMS100458DE	1
32	NWL Compression Spring	IMS100459DE	1
33	NWL Nut Lock	IMS22918	1
34	NWL2 Inner Tube Cap Assembly	IMS43604	1



HEAD ASSEMBLY

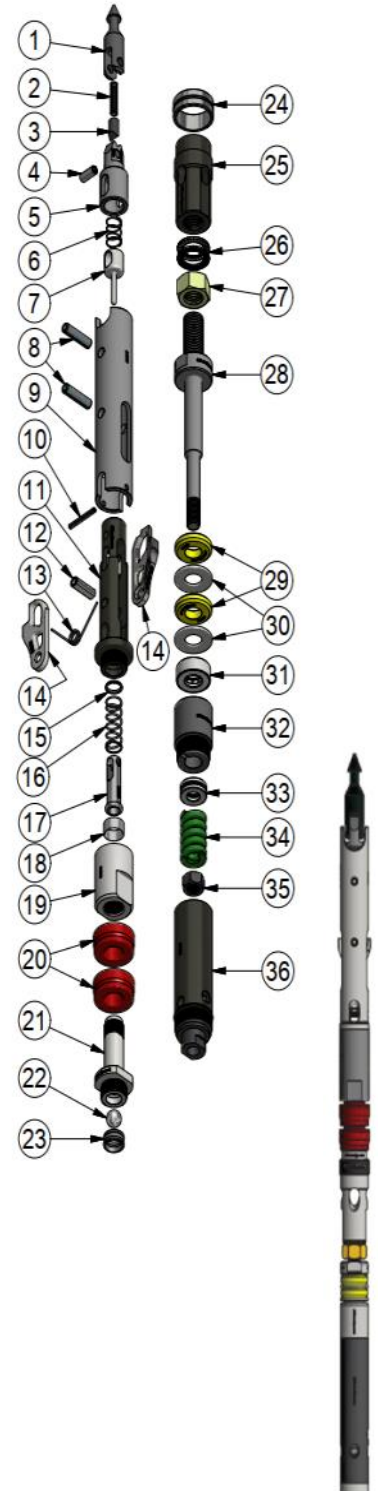
NWL2U HEAD ASSEMBLY INDEPENDENT LATCH

ID #	DESCRIPTION	PART #	QTY
	NWL2U HEAD ASSEMBLY DE	IMS100932DE	1
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
5	NWL Spearhead Base	IMS3540329	1
6	NWL2U Latch Locking Spring	IMS100798DE	1
7	NWLU/NWL2U Latch Locking Pin	IMS100805DE	1
8	NWL/HWL Spring Pin 1/2" X 2"	IMS100449DE	2
9	NWL2U Latch Retracting Case	IMS100797DE	1
10	NWL2U Latch Retracting Case Pin 1/4" X 2"	IMS100807DE	1
11	NWL2U Upper Latch Body	IMS100804DE	1
12	NWL Latch Pivot Pin 1/2" X 1-1/2"	IMS100451DE	1
13	NWL/HWL Latch Spring Independent	IMS100450DE	1
14	NWL/NWLU/NWL2U Latch	IMS100808DE	2
15	NWL2U Spring Seat	IMS100827DE	1
16	NWL2U Latch Case Spring	IMS100801DE	1
17	NWL2U Latch Case Spring Sleeve	IMS100826DE	1
18	NWL2U Spring Cavity Bushing	IMS100828DE	1
19	NWL2U Adaptor	IMS3543948	1

HEAD ASSEMBLY

NWL2U HEAD ASSEMBLY INDEPENDENT LATCH

ID #	DESCRIPTION	PART #	QTY
20	NWL2U Pump in Seal	IMS100764DE	2
21	NWLU Seal Seat	IMS3543949	1
22	Stainless Steel Ball 22MM	IMS100452DE	1
23	B/N/HWL Bushing Landing Indicator	IMS62380	1
24	NWL2 Landing Shoulder	IMS306026	1
25	NWL Lower Latch Body	IMS100470DE	1
26	Washer Nord Lock	IMS3548161	2
27	NWL Nut	IMS24885	1
28	NWL Spindle	IMS24886	1
29	NWL Shut off Valve Hard	IMS100455DE	2
29	NWL2 Shut Off Valve Soft - Optional	IMS100583DE	2
30	NWL Valve Adjusting Washer	IMS24888	2
31	NWL Thrust Bearing	IMS100457DE	1
32	NWL Spindle Bearing Shielded	IMS100472DE	1
33	NWL Hanger Bearing	IMS100458DE	1
34	NWL Compression Spring	IMS100459DE	1
35	NWL Nut Lock	IMS22918	1
36	NWL2 Inner Tube Cap Assembly	IMS100556DE	1



HEAD ASSEMBLY

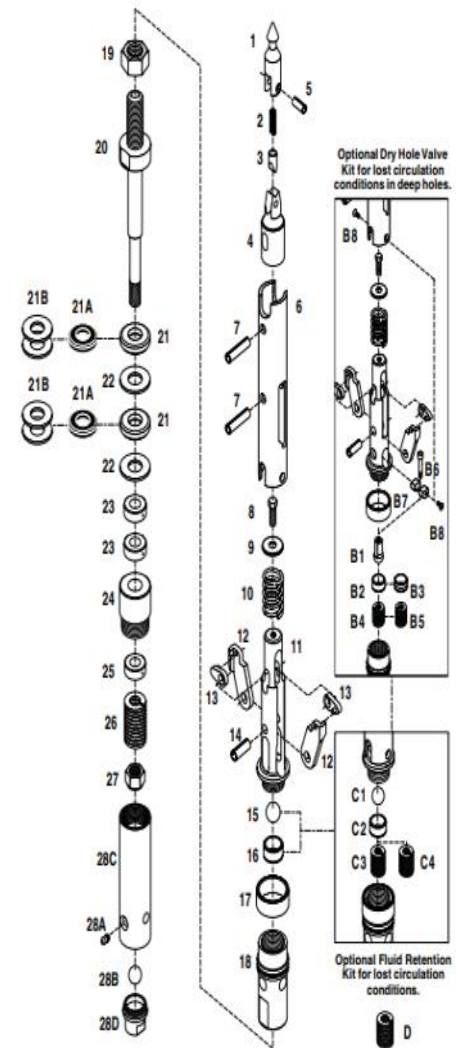
HWL—HWL3 HEAD ASSEMBLY LINK LATCH

ID #	DESCRIPTION	PART #	QTY
	HWL - HWL3 HEAD ASSEMBLY	IMS3542941	
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	HWL Spearhead Base	IMS3540330	1
5	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
6	HWL Latch Retracting Case	IMS3540151	1
7	HWL/PWL Latch Retracting Pin 1/2" X 2 3/4"	IMS100483DE	2
8	HWL Bolt 3/8" UNC	IMS3541932	1
9	HWL Washer	IMS104953	1
10	HWL Compression Spring	IMS3543619	1
11	HWL Upper Latch Body	IMS3540156	1
12	HWL Latch	IMS104818	2
13	HWL/PWL Link	IMS306216	2
14	HWL Spring Pin 1/2" X 2"	IMS100449DE	1
15	B/N/HWL Stainless Steel Ball 22MM	IMS62374	1
16	B/N/HWL Landing Indicator Bushing	IMS62380	1
17	HWL Landing Shoulder	IMS104958	1
18	HWL Lower Latch Body	IMS104957	1
19	HWL Nut	IMS44574	1
20	HWL Spindle	IMS25231	1
21	HWL Shut off Valve Hard Yellow	IMS43513HY	2
21	HWL Shut Off Rubber Hard Green	IMS100487DE	2
21	HWL Shut Off Valve Soft Black	IMS100584DE	2
22	HWL Valve Adjusting Washer	IMS25233	2
23	HWL Thrust Bearing	IMS100489DE	2
24	HWL Spindle Bearing	IMS25234	1
25	NWL Thrust - HWL Hanger Bearing	IMS100457DE	1

HEAD ASSEMBLY

HWL—HWL3 HEAD ASSEMBLY LINK LATCH

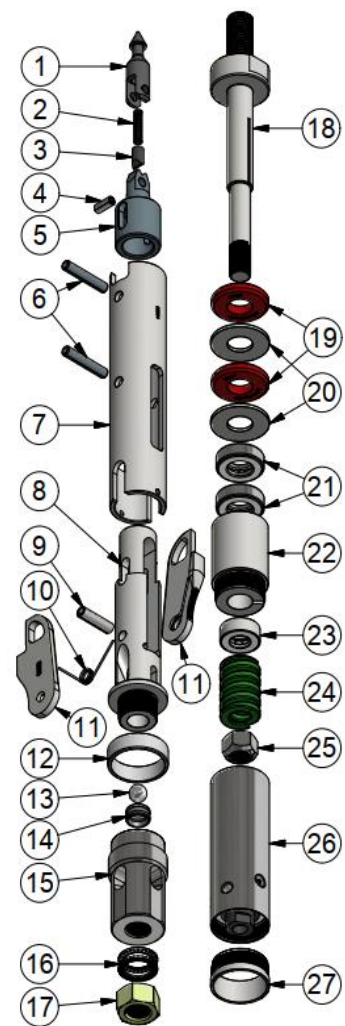
ID #	DESCRIPTION	PART #	QTY
26	HWL Compression Spring	IMS24529	1
27	HWL Nut Lock	IMS103465	1
28	HWL Inner Tube Cap Assembly	MS40678	1
28A	Grease Fitting	IMS17447	1
28B	Stainless Steel Ball 22MM	IMS100452DE	1
28C	HWL/NWL2 Check Valve Body	IMS37382	1
	Head Assembly Options		
16A	Bushing Indicator, Deep Hole	IMS3542834	1
B	HWL/PWL Dry Hole Valve Kit	IMS3541210	
B1	Threaded Ball 22MM	IMS3540152	1
B2	Bushing Fluid Retention	IMS306131	1
B3	Bushing Fluid Retention Heavy - Red	IMS3543378	1
B4	Fluid Retention Spring Light - Green	IMS100608DE	1
B5	Fluid Retention Spring Medium - Blue	IMS100609DE	1
B6	PWL/HWL Shoulder Bolt	IMS3543388	1
B7	PWL/HWL Valve Holder	IMS3540153	1
B8	PWL/HWL Screw, Nylon Insert	IMS3541117	2
	Optional Fluid Retention		
C	Fluid Retention Kit	IMS3542610	
C1	Stainless Steel Ball 22MM	IMS100452DE	1
C2	Bushing Fluid Retention	IMS306131	1
C3	Fluid Retention Spring Light - Green	IMS100608DE	1
C4	Fluid Retention Spring Medium - Blue	IMS100609DE	1
D	Fluid Retention Spring Heavy - Red	IMS100610DE	1



HEAD ASSEMBLY

HWL—HWL3 HEAD ASSEMBLY INDEPENDENT LATCH

ID #	DESCRIPTION	PART #	QTY
	HWL/HWL3 HEAD ASSEMBLY I	IMS101470DE	
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
5	HWL Spearhead Base	IMS3540330	1
6	HWL Latch Retracting Pin 1/2" X 2-3/4"	IMS100483DE	2
7	HWL Latch Retracting Case	IMS3540151	1
8	HWL Upper Latch Body	IMS3540156	1
9	HWL Latch Pivot Pin	IMS100484DE	1
10	NWL/HWL Latch Spring	IMS100450DE	1
11	HWL Latch	IMS100496DE	2
12	HWL Landing Shoulder	IMS104958	1
13	B/N/HWL Stainless Steel Ball 22MM	IMS62374	1
14	B/N/HWL Landing Indicator Bushing	IMS62380	1
15	HWL Lower Latch Body	IMS104957	1
16	HWL Washer Nord Lock 1-1/4"	IMS3548105	1
17	HWL Nut	IMS44574	1
18	HWL Spindle	IMS25231	1
19	HWL Shut Off Valve Hard - Green	IMS100487DE	2
19	HWL Shut Off Valve Soft - Black	IMS100584DE	2
20	HWL Valve Adjusting Washer	IMS25233	2
21	HWL Thrust Bearing	IMS100489DE	2
22	HWL Shielded Bearing	IMS3540794	1
23	NWL Thrust - HWL Hanger Bearing	IMS100457DE	1
24	HWL Compression Spring	IMS24529	1
25	HWL Nut Lock	IMS103465	1
26	HWL Inner Tube Cap Assembly	IMS40678	1

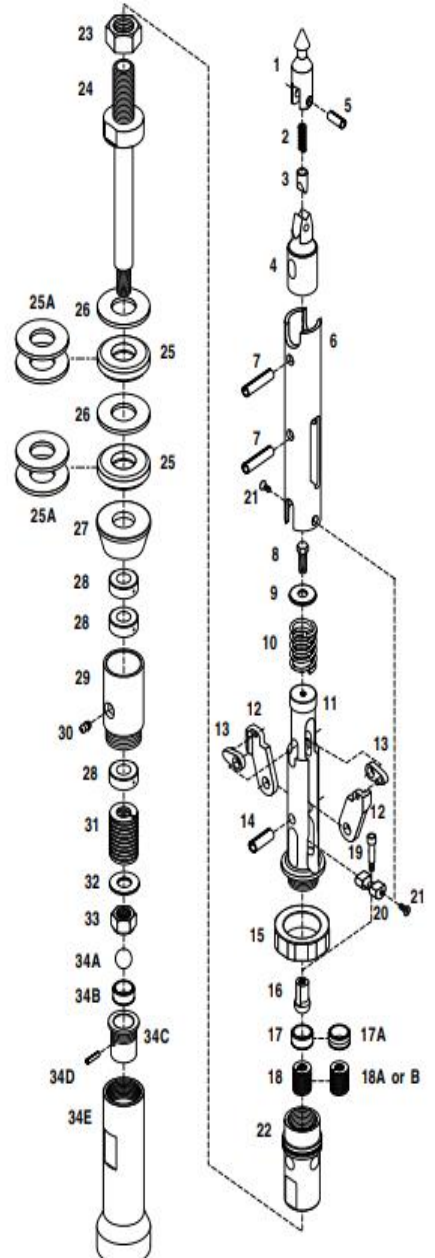




HEAD ASSEMBLY

PWL HEAD ASSEMBLY LINK LATCH

ID #	DESCRIPTION	PART #	QTY
	PWL HEAD ASSEMBLY	IMS3546500	
1	B/N/H/P Spearhead Point	IMS100462DE	1
2	B/N/H/P Compression Spring	IMS100447DE	1
3	B/N/H/P Detent Plunger	IMS100463DE	1
4	HWL/PWL Spearhead Base	IMS3540330	1
5	B/N/H/P Spiral Pin 7/16" X 1"	IMS42905	1
6	HWL/PWL Latch Retracting Case	IMS3540151	1
7	HWL/PWL Latch Retracting Pin	IMS100483DE	2
8	B/N/H/P Nyloc Bolt 3/8" UNC	IMS3541932	1
9	HWL/PWL Washer	IMS104953	1
10	HWL/PWL Latch Compression Spring	IMS3543619	1
11	HWL/PWL Upper Latch Body	IMS3540156	1
12	PWL Latch	IMS3543796	1
13	HWL/PWL Link	IMS306216	2
14	PWL Spring Pin 1/2" x 2"	IMS100449DE	2
15	PWL Landing Shoulder	IMS3543797	1
16	PWL Threaded Ball	IMS3540152	1
17	Fluid Retention Bushing - Optional	IMS306131	
18	Fluid Retention Spring - Green	IMS100608DE	1
19	PWL/HWL Shoulder Bolt	IMS3543388	1
20	PWL/HWL Dry Hole Valve Holder	IMS3540153	1
21	PWL/HWL Screw, Nylon Insert	IMS3541777	2
22	HWL/PWL Lower Latch Body	IMS104957	1
23	HWL/PWL Hex Nut	IMS44574	1
24	PWL Hollow Spindle	IMS3548073	1
25	PWL Shut Off Valve - Hard	IMS3540308	2
25	PWL Shut Off Valve - Soft Optional	IMS5002347	2



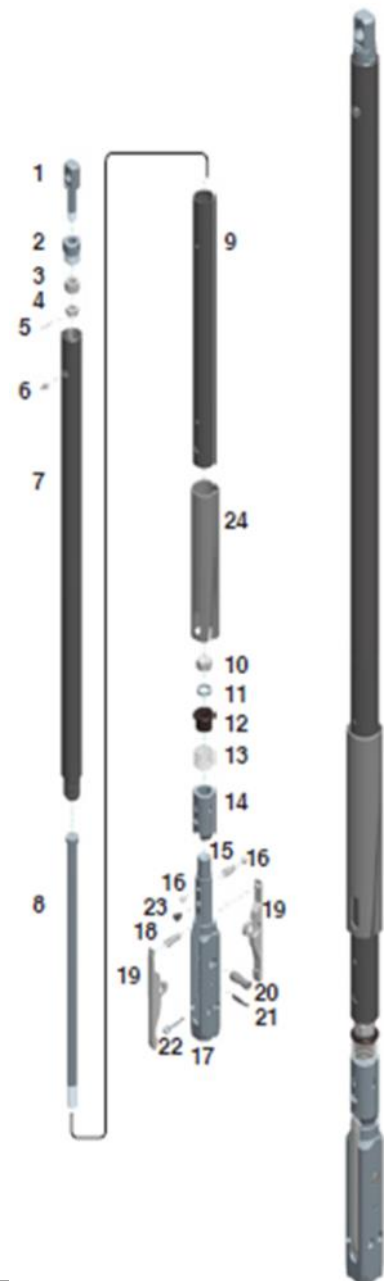
HEAD ASSEMBLY

PWL HEAD ASSEMBLY LINK LATCH

ID #	DESCRIPTION	PART #	QTY
	PWL HEAD ASSEMBLY	IMS3546500	
26	PWL Valve Adjusting Washer	IMS3540300	2
27	PWL Tapered Washer	IMS3540299	1
28	HWL/PWL Thrust Bearing	IMS100489DE	3
29	PWL Spindle Bearing	IMS3540794	1
30	Grease Fitting	IMS17447	1
31	PWL Compression Spring	IMS3540755	1
32	PWL Washer 1-1/4" Narrow	IMS3544324	1
33	PWL Stover Lock Nut	IMS103062	1
34	PWL Inner Tube Cap Assembly A-E	IMS3543805	1
34A	Stainless Steel Ball 22MM	IMS100452DE	1
34B	PWL - HWL Bushing	IMS3540737	1
34C	Check Valve Body	IMS3540745	1
34D	PWL Spring Pin 3/16" x 1-3/4"	IMS100865	1
34E	PWL Inner Tube Cap	IMS3543804	1
	Head Assembly Options		
17A	Fluid Retention Bushing - Steel	IMS306131	
18A	Fluid Retention Spring Medium - Blue	IMS100609DE	
18B	Fluid Retention Spring Heavy - Red	IMS100610DE	

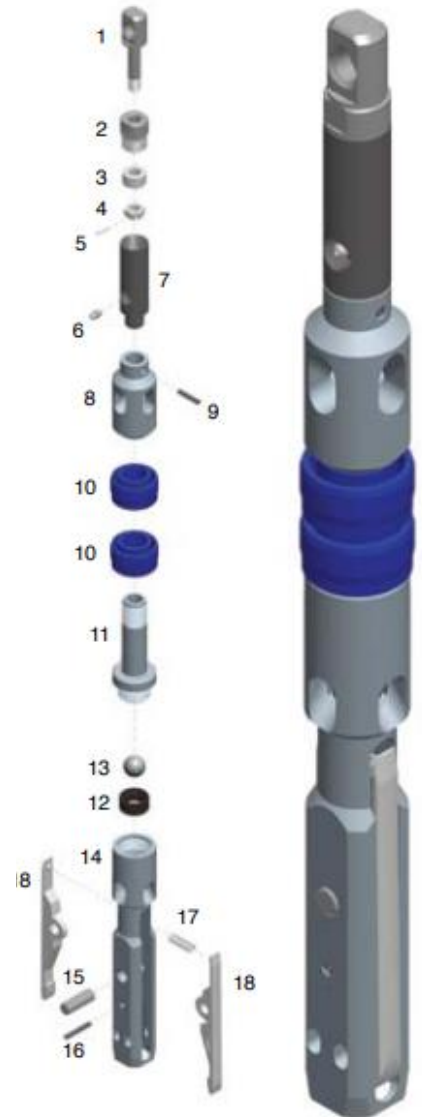
BWL EZI LOCK OVERSHOT

ID #	DESCRIPTION	PART #	QTY
	BWL EZI LOCK OVERSHOT ASSEMBLY	IMS3546822	
1	BWL Cable Swivel Eye Bolt	IMS25991	1
2	BWL Cable Swivel Collar	IMS25990	1
3	BWL Needle Thrust Bearing	IMS25986	1
4	BWL Castle Nut	IMS25985	1
5	BWL Cotter Pin	IMS44615	1
6	BWL Grease Fitting	IMS17447	1
7	BWL Cable Swivel Body	IMS44434	1
8	BWL Jar Staff	IMS3546821	1
9	BWL Jar Tube	IMS44435	1
10	BWL Hex Nut 9/16" UNC	IMS62904	1
11	BWL Washer, Nord-Lock	IMS3548184	1
12	BWL EZI Lock Overshot Cap	IMS3546823	1
13	BWL EZI Lock Overshot Spring	IMS3544104	1
14	BWL EZI Lock Overshot Sleeve	IMS3546883	1
15	BWL Compression Spring	IMS3545053	1
16	BWL Ball 11/32"	IMS3543772	2
17	BWL EZI Lock Overshot Head	IMS3546825	1
18	BWL Compression Spring	IMS06951	1
19	BWL Lifting Dog	IMS100889DE	2
20	BWL Plain Pin 1/2" X 1-1/2"	IMS42941	1
21	BWL Spring Pin 3/16" X 1-3/8"	IMS29073	1
22	BWL Locking Pin	IMS3546747	1
23	BWL Set Screw 3/8" UNF X 3/4" Nyloc	IMS3545073	1
24	BWL Locking Sleeve	IMS15575	1



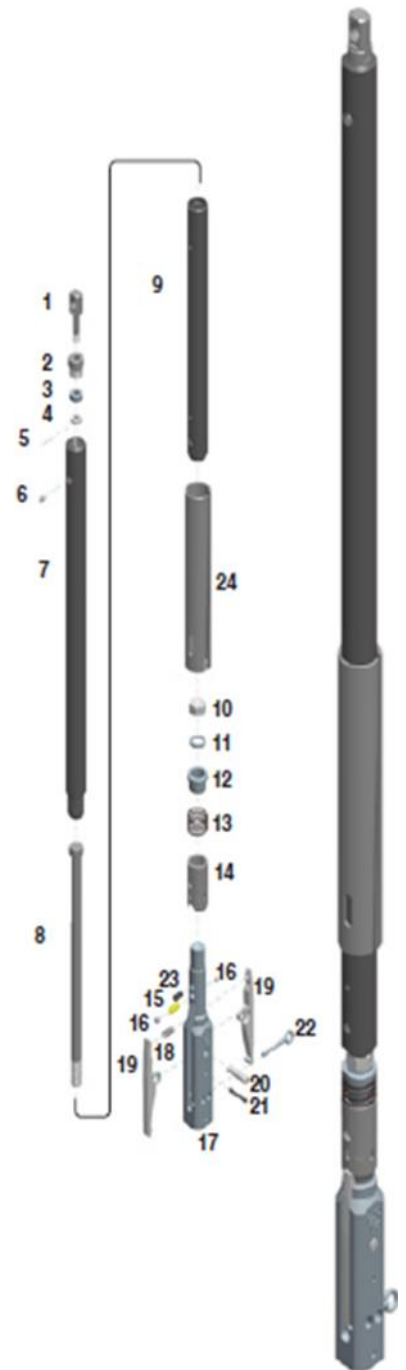
BWLU QUICK PUMP IN OVERSHOT

ID #	DESCRIPTION	PART #	QTY
	BWLU QUICK PUMP IN OVERSHOT	IMS3547700	
1	BWL Cable Swivel Eye Bolt	IMS25991	1
2	BWL Cable Swivel Collar	IMS25990	1
3	BWL Needle Thrust Bearing	IMS25986	1
4	BWL Castle Hex Nut 1/2" UNF G2	IMS25985	1
5	BWL Cotter Pin 3/32" X 3/4"	IMS44615	1
6	BWL Grease Fitting	IMS17447	1
7	BWLU Cable Swivel Overshot Body	IMS30183	1
8	BWLU Body Upper Overshot	IMS3547807	1
9	BWLU Shear Pin 3/16" X 1-1/8" LG	IMS3545136	1
10	BWLU Pump in Seal	IMS100750DE	2
11	BWLU Seal Seat	IMS3543906	1
12	BWL Landing Indicator Bushing	IMS62380	1
13	BWL Ball 22MM	IMS62374	2
14	BWLU Overshot Quick Pump Head	IMS3547848	1
15	BWLU Plain Pin 1/2" X 1-1/2"	IMS42941	1
16	BWLU Spring Pin 3/16" X 1-3/8"	IMS29073	1
17	BWL Compression Spring Lifting Dog	IMS06951	1
18	BWL Lifting Dog	IMS100889DE	2



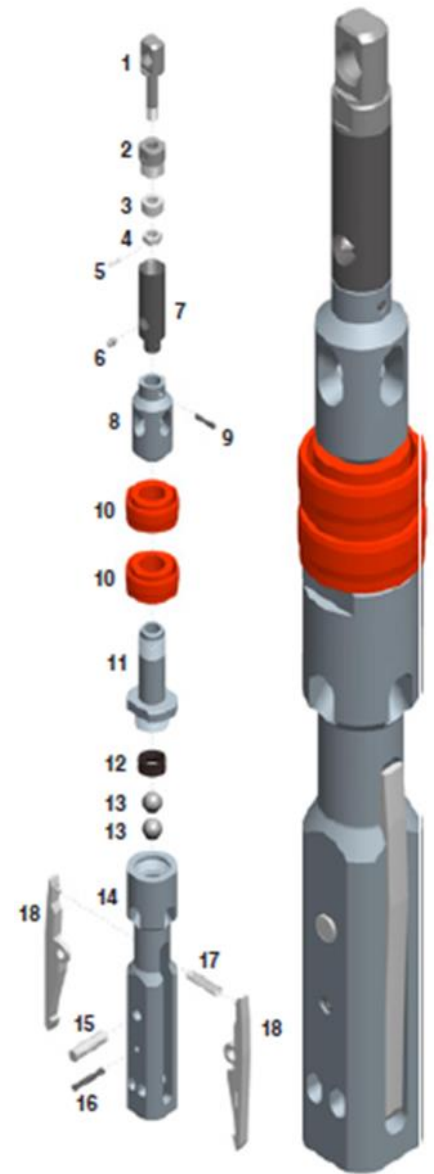
NWL EZI LOCK OVERSHOT

ID #	DESCRIPTION	PART #	QTY
	NWL EZI LOCK OVERSHOT ASSEMBLY	IMS3546744	
1	NWL Cable Swivel Eye Bolt	IMS25991	1
2	NWL Cable Swivel Collar	IMS25990	1
3	NWL Needle Thrust Bearing	IMS25986	1
4	NWL Castle Nut	IMS25985	1
5	NWL Cotter Pin	IMS44615	1
6	NWL Grease Fitting	IMS17447	1
7	NWL Cable Swivel Body	IMS44444	1
8	NWL Jar Staff	IMS3540516	1
9	NWL Jar Tube	IMS3540515	1
10	NWL Hex Nut 3/4" UNC	IMS82847	1
11	NWL Washer Nord-Lock	IMS3548178	1
12	NWL EZI Lock Overshot Cap	IMS3544103	1
13	NWL EZI Lock Overshot Spring	IMS3544105	1
14	NWL EZI Lock Overshot Sleeve	IMS3546745	1
15	NWL Compression Spring	IMS6951	1
16	NWL Ball 11/32"	IMS3543772	2
17	NWL EZI Lock Overshot Head	IMS3546746	1
18	NWL Lifting Dog Compression Spring	IMS100529DE	1
19	NWL Lifting Dog	IMS100530DE	2
20	NWL Plain Pin 1/2' X 1-15/16"	IMS100840DE	1
21	NWL Spring Pin 1/4" X 1-3/4"	IMS37394	1
22	NWL Locking Pin	IMS3546747	1
23	NWL Set Screw 3/8" UNF X 3/4" Nyloc	IMS44442	1
24	NWL Locking Sleeve Slotted	IMS15965	1



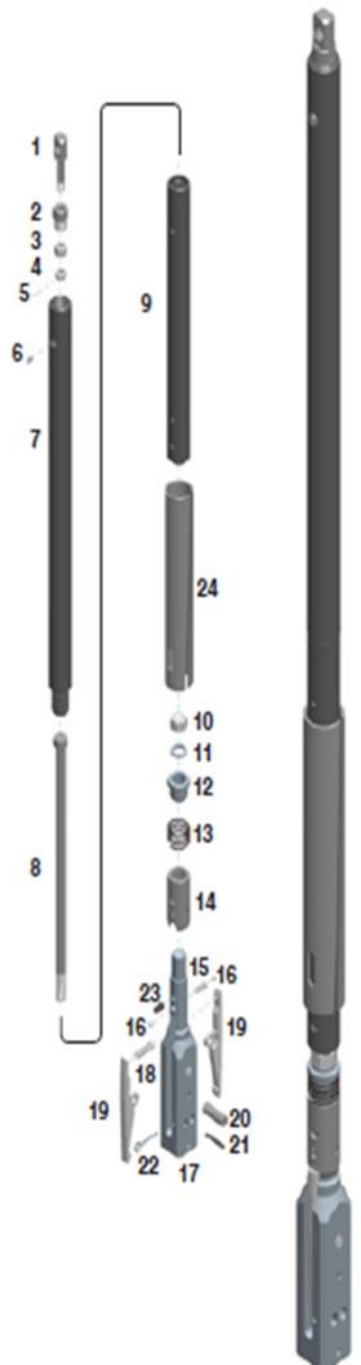
NWLU QUICK PUMP IN OVERSHOT

ID #	DESCRIPTION	PART #	QTY
	NWLU - QUICK PUMP IN OVERSHOT	IMS3547850	
1	NWL Cable Swivel Eye Bolt	IMS25991	1
2	NWL Cable Swivel Collar	IMS25990	1
3	NWL Needle Thrust Bearing	IMS25986	1
4	NWL Castle Hex Nut 1/2" UNF G2	IMS25985	1
5	NWL Cotter Pin 3/32" X 3/4"	IMS44615	1
6	NWL Grease Fitting	IMS17447	1
7	NWLU Overshot Cable Swivel Body	IMS30183	1
8	NWLU Overshot Body Upper	IMS100837DE	1
9	NWLU Shear Pin 3/16" X 1-1/8" LG	IMS3545136	1
10	NWLU Pump in Seal	IMS100764DE	2
11	NWLU Seal Seat	IMS3543949	1
12	NWL Landing Indicator Bushing	IMS62380	1
13	NWL Ball 22MM	IMS62374	2
14	NWLU Overshot Head	IMS3547851	1
15	NWLU Plain Pin 1/2" X 1-15/16"	IMS100840DE	1
16	NWLU Spring Pin 1/4" X 1-3/4"	IMS37394	1
17	NWL Lifting Dog Compression Spring	IMS100529DE	1
18	NWL Overshot Lifting Dog	IMS100530DE	2



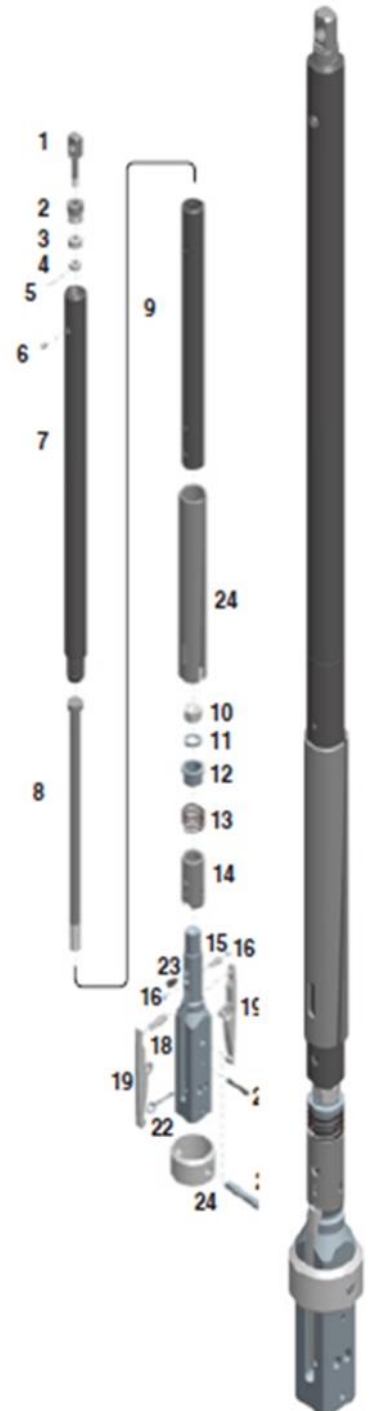
HWL EZI LOCK OVERSHOT

ID #	DESCRIPTION	PART #	QTY
	HWL EZI LOCK OVERSHOT ASSEMBLY	IMS3546750	
1	HWL Cable Swivel Eye Bolt	IMS25991	1
2	HWL Cable Swivel Collar	IMS25990	1
3	HWL Needle Thrust Bearing	IMS25986	1
4	HWL Castle Nut	IMS25985	1
5	HWL Cotter Pin	IMS44615	1
6	HWL Grease Fitting	IMS17447	1
7	HWL Cable Swivel Body	IMS44444	1
8	HWL Jar Staff	IMS3540516	1
9	HWL Jar Tube	IMS3540515	1
10	HWL Hex Nut 3/4" UNC	IMS44524	1
11	HWL Washer Nord-Lock	IMS3548178	1
12	HWL EZI Lock Overshot Spring	IMS3544105	1
13	HWL EZI Lock Overshot Cap	IMS3544103	1
14	HWL EZI Lock Overshot Sleeve	IMS3546745	1
15	HWL Compression Spring	IMS6951	1
16	HWL Ball 11/32"	IMS3543772	2
17	HWL EZI Lock Overshot Head	IMS3546748	1
18	HWL Lifting Dog Compression Spring	IMS3542027	1
19	HWL Lifting Dog	IMS100530DE	2
20	HWL Plain Pin 1/2" X 2-1/8"	IMS3540528	1
21	HWL Spring Pin 1/4" X 2"	IMS24307	1
22	HWL Locking Pin	IMS3546747	1
23	HWL Set Screw 3/8" UNF X 3/4" Nyloc	IMS44442	1
24	HWL Locking Sleeve Slotted	IMS15965	1



PWL EZI LOCK OVERSHOT

ID #	DESCRIPTION	PART #	QTY
	PWL EZI LOCK OVERSHOT ASSEMBLY	IMS3546895	
1	PWL Cable Swivel Eye Bolt	IMS25991	1
2	PWL Cable Swivel Collar	IMS25990	1
3	PWL Needle Thrust Bearing	IMS25986	1
4	PWL Castle Nut	IMS25985	1
5	PWL Cotter Pin	IMS44615	1
6	PWL Grease Fitting	IMS17447	1
7	PWL Cable Swivel Body	IMS44444	1
8	PWL Jar Staff	IMS3540516	1
9	PWL Jar Tube	IMS3540515	1
10	PWL Hex Nut 3/4" UNC	IMS44524	1
11	PWL Washer, Nord-Lock	IMS3548178	1
12	PWL EZI Lock Overshot Cap	IMS3544103	1
13	PWL EZI Lock Overshot Spring	IMS3544105	1
14	PWL EZI Lock Overshot Sleeve	IMS3546745	1
15	PWL Compression Spring	IMS6951	1
16	PWL Ball 11/32"	IMS3543772	2
17	PWL EZI Lock Overshot Head	IMS3546748	1
18	PWL Lifting Dog Compression Spring	IMS3542027	1
19	PWL Lifting Dog	IMS100530	2
20	PWL Plain Pin 1/2" X 3-1/4"	IMS3540213	1
21	PWL Spring Pin 1/4" X 2"	IMS24307	1
22	PWL Locking Pin	IMS3546747	1
23	PWL Set Screw 3/8" UNF X 3/4" Nyloc	IMS44442	1
24	PWL Sleeve	IMS3541072	1
25	PWL Locking Sleeve Slotted	IMS15965	1
26	PWL Dry Hole Overshot Cap	IMS3543854	1
27	PWL Spring Pin 1/4" X 5/8"	IMS35788	2
28	PWL Flat Washer 1"SAE	IMS19464	3





INTERNATIONAL MINING SERVICES



BWL DIAMOND BITS

BWL BITS

BWL 4 IMP BIT	HAYDEN BWL S4 IMP BIT
BWL 7SA IMP BIT	HAYDEN BWL 7SA IMP BIT
BWL 8A.4 IMP BIT	HAYDEN BWL 8A.4 IMP BIT
BWL 8AAA IMP BIT	HAYDEN BWL 8AAA 15MM IMP BIT
BWL HA9 IMP BIT	HAYDEN BWL HA9 IMP BIT
BWL 9AAA IMP BIT	HAYDEN BWL 9AAA 15MM IMP BIT
BWL KS5 IMP BIT	HAYDEN BWL KS5 IMP BIT
BWL 10H IMP BIT	HAYDEN BWL 10H IMP BIT
BWL KS9-11 IMP BIT	HAYDEN BWL KS9-11 IMP BIT
BWL 11A IMP BIT	HAYDEN BWL 11A IMP BIT
BWL 12-14 IMP BIT	HAYDEN BWL 12-14 IMP BIT
BWL 14-15 IMP BIT	HAYDEN BWL 14-15 IMP BIT

BWL WEDGE BITS

BWL 7SA WEDGE BIT	HAYDEN BWL 7SA TAPERED WEDGE BIT
BWL 10-12 WEDGE BIT	HAYDEN BWL 10-12 TAPERED WEDGE BIT

BWLTK DIAMOND BITS

BWLTK BITS	
BWLTK 9AA IMP BIT 15MM	HAYDEN BWLTK 9AA IMP BIT 15MM
BWLTK 9AAA 7WW 16MM	HAYDEN BWLTK 9AAA 7WW 16MM IMP BIT
BWLTK KS5.1 15MM BIT	HAYDEN BWLTK KS5.1 15MM IMP BIT
BWLTK 10 H.O IMP BIT	HAYDEN BWLTK 10 H.O IMP BIT
BWLTKTB 11A 15MM	HAYDEN BWLTK 11A
BWLTK 12-14 IMP BIT	HAYDEN BWLTK 12-14 IMP BIT
BWLTK 14-15 IMP BIT	HAYDEN BWLTK 14-15 12MM IMP BIT

HAYDEN
DIAMOND BIT INDUSTRIES LTD.™

Part #: 45144567
Description: HWL-3
Series: KS10
Style: 12 MM
Serial: HA77409/8

 **MADE IN CANADA**



Part #: 451497151
Description: NML2
Series: KS10
Style: 20 MM
Serial: HA77281/60

 **MADE IN CANADA**

NWL DIAMOND BITS

NWL

NWL 4-6 IMP BIT	HAYDEN NWL 4-6 IMP BIT
NWL 7SA IMP BIT	HAYDEN NWL 7SA IMP BIT
NWL 8A.4 IMP BIT	HAYDEN NWL 8A.4 16MM IMP BIT
NWL 8AAA 18MM	HAYDEN NWL 8AAA 18MM IMP BIT
NWL HA9 IMP BIT	HAYDEN NWL HA9 16MM IMP BIT
NWL HA9 TURBO 16MM	HAYDEN NWL HA9 TURBO 16MM 7WW
NWL XTRA 9 18MM	HAYDEN NWL XTRA 9 18MM IMP BIT
NWL 9AA IMP BIT 18MM	HAYDEN NWL 9AA IMP BIT 18MM
NWL 9AA TURBO BIT	HAYDEN NWL 9AA TURBO BIT
NWL 9AAA IMP BIT	HAYDEN NWL 9AAA 9WW 18MM IMP BIT
NWL 10H 18MM IMP BIT	HAYDEN NWL 10H 18MM IMP BIT
NWL 10 H.O IMP BIT	HAYDEN NWL 10 H.O IMP BIT
NWL 10 H.O TURBO	HAYDEN NWL 10 H.O TURBO BIT
NWL KS4G 18MM IMP BIT	HAYDEN NWL KS4G 18MM IMP BIT
NWL KS4G TURBO IMP BIT	HAYDEN NWL KS4G TURBO 18MM IMP BIT
NWL KS5 18MM IMP BIT	HAYDEN NWL KS5 18MM IMP BIT
NWL KS5 TURBO BIT	HAYDEN NWL KS5 TURBO IMP BIT 9WW 16MM
NWL KS5.1 18MM IMP	HAYDEN NWL KS5.1 18MM IMP BIT
NWL KS5.1 TURBO 18MM	HAYDEN NWL KS5.1 TURBO 18MM 7WW
NWL KS10 18MM BIT	HAYDEN NWL KS10 10WW BIT 18MM
NWL KS10 18 TB IMP BIT	HAYDEN NWL KS10 TURBO BIT 18MM 9WW
NWL KS9-11 18MM BIT	HAYDEN NWL KS9-11 IMP BIT 18MM
NWL KS9-11 TURBO BIT	HAYDEN NWL KS9-11 TURBO BIT
NWL 10-12 IMP BIT	HAYDEN NWL 10-12 16MM IMP BIT
NWL 11A 18MM IMP BIT	HAYDEN NWL 11A 18MM IMP BIT
NWL 11A TURBO BIT	HAYDEN NWL 11A TURBO BIT
NWL 12-14 IMP BIT	HAYDEN NWL 12-14 16MM IMP BIT
NWL 14-15 IMP BIT 16MM	HAYDEN NWL 14-15 16MM IMP BIT
NWL 16A IMP BIT	HAYDEN NWL 16A 16MM IMP BIT

NWL2 DIAMOND BITS

NWL2

NWL2 4-6 IMP BIT	HAYDEN NWL2 4-6 IMP BIT
NWL2 7SA IMP BIT	HAYDEN NWL2 7SA IMP BIT
NWL2 8A.4 IMP BIT	HAYDEN NWL2 8A.4 16MM IMP BIT
NWL2 8AAA 18MM	HAYDEN NWL2 8AAA 18MM IMP BIT
NWL2 HA9 IMP BIT	HAYDEN NWL2 HA9 16MM IMP BIT
NWL2 HA9 TURBO 16MM	HAYDEN NWL2 HA9 TURBO 16MM 7WW
NWL2 XTRA 9 18MM	HAYDEN NWL2 XTRA 9 18MM IMP BIT
NWL2 9AA IMP BIT 18MM	HAYDEN NWL2 9AA IMP BIT 18MM
NWL2 9AA TURBO BIT	HAYDEN NWL2 9AA TURBO BIT
NWL2 9AAA IMP BIT	HAYDEN NWL2 9AAA 9WW 18MM IMP BIT
NWL2 10H 18MM IMP BIT	HAYDEN NWL2 10H 18MM IMP BIT
NWL2 10 H.O IMP BIT	HAYDEN NWL2 10 H.O IMP BIT
NWL2 10 H.O TURBO	HAYDEN NWL2 10 H.O TURBO BIT
NWL2 KS4G 18MM IMP BIT	HAYDEN NWL2 KS4G 18MM IMP BIT
NWL2 KS4G TURBO IMP BIT	HAYDEN NWL2 KS4G TURBO 18MM IMP BIT
NWL2 KS5 18MM IMP BIT	HAYDEN NWL2 KS5 18MM IMP BIT
NWL2 KS5 TURBO BIT	HAYDEN NWL2 KS5 TURBO IMP BIT 9WW 16MM
NWL2 KS5.1 18MM IMP	HAYDEN NWL2 KS5.1 18MM IMP BIT
NWL2 KS5.1 TURBO 18MM	HAYDEN NWL2 KS5.1 TURBO 18MM 7WW
NWL2 KS10 18MM BIT	HAYDEN NWL2 KS10 10WW BIT 18MM
NWL2 KS10 18 TB IMP BIT	HAYDEN NWL2 KS10 TURBO BIT 18MM 9WW
NWL2 KS9-11 18MM BIT	HAYDEN NWL2 KS9-11 IMP BIT 18MM
NWL2 KS9-11 TURBO BIT	HAYDEN NWL2 KS9-11 TURBO BIT
NWL2 10-12 IMP BIT	HAYDEN NWL2 10-12 16MM IMP BIT
NWL2 11A 18MM IMP BIT	HAYDEN NWL2 11A 18MM IMP BIT
NWL2 11A TURBO BIT	HAYDEN NWL2 11A TURBO BIT
NWL2 12-14 IMP BIT	HAYDEN NWL2 12-14 16MM IMP BIT
NWL2 14-15 IMP BIT 16MM	HAYDEN NWL2 14-15 16MM IMP BIT
NWL2 16A IMP BIT	HAYDEN NWL2 16A 16MM IMP BIT

NWL2 DIRECTIONAL DIAMOND BITS

STEP BITS

NWL2 8 STEP 8A.4 BIT	HAYDEN NWL2 8 STEP 8A.4
NWL2 7 STEP 11A BIT	HAYDEN NWL2 11A 7 STEP IMP BIT
NWL2 8 STEP 10-12 BIT	HAYDEN NWL2 8 STEP 10-12 IMP BIT

WEDGE BITS

NWL2 7SA TAPER WEDGE	HAYDEN NWL2 7SA TAPERED WEDGE BIT
NWL2 9AA TAPER WEG BIT	HAYDEN NWL2 9AA TAPERED WEDGE BIT
NWL2 10-12 WEDGE BIT	HAYDEN NWL2 10-12 TAPERED WEDGE BIT

INVERTED STEP BITS

NWL2 11A INV 3 STEP	HAYDEN NWL2 11A INVERTED 3 STEP
NWL2 KS5 INV 3 STEP	HAYDEN NWL2 KS5 INVERTED 3 STEP
NWL2 9AAA INV 3 STEP	HAYDEN NWL2 9AAA INVERTED 3 STEP
NWL2 KS9-11 INV 3 STEP	HAYDEN NWL2 KS9-11 INVERTED 3 STEP
NWL2 12-14 INV 3 STEP	HAYDEN NWL2 12-14 INVERTED 3 STEP
NWL2 14-15 INV 3 STEP	HAYDEN NWL2 14-15 INVERTED 3 STEP BIT

NAVI BITS

NAVI NX 10 BIT	HAYDEN NX 8A.4 NAVI BIT
NAVI 14-15 BIT	HAYDEN NX 12-14 NAVI BIT



NWL3 DIAMOND BITS

NWL3

NWL3 4-6 IMP BIT	HAYDEN NWL3 4-6 IMP BIT
NWL3 7SA IMP BIT	HAYDEN NWL3 7SA IMP BIT
NWL3 8A.4 IMP BIT	HAYDEN NWL3 8A.4 16MM IMP BIT
NWL3 8AAA 18MM	HAYDEN NWL3 8AAA 18MM IMP BIT
NWL3 HA9 IMP BIT	HAYDEN NWL3 HA9 16MM IMP BIT
NWL3 HA9 TURBO 16MM	HAYDEN NWL3 HA9 TURBO 16MM 7WW
NWL3 XTRA 9 18MM	HAYDEN NWL3 XTRA 9 18MM IMP BIT
NWL3 9AA IMP BIT 18MM	HAYDEN NWL3 9AA IMP BIT 18MM
NWL3 9AA TURBO BIT	HAYDEN NWL3 9AA TURBO BIT
NWL3 9AAA IMP BIT	HAYDEN NWL3 9AAA 9WW 18MM IMP BIT
NWL3 10H 18MM IMP BIT	HAYDEN NWL3 10H 18MM IMP BIT
NWL3 10 H.O IMP BIT	HAYDEN NWL3 10 H.O IMP BIT
NWL3 10 H.O TURBO	HAYDEN NWL3 10 H.O TURBO BIT
NWL3 KS4G 18MM IMP BIT	HAYDEN NWL3 KS4G 18MM IMP BIT
NWL3 KS4G TURBO IMP BIT	HAYDEN NWL3 KS4G TURBO 18MM IMP BIT
NWL3 KS5 18MM IMP BIT	HAYDEN NWL3 KS5 18MM IMP BIT
NWL3 KS5 TURBO BIT	HAYDEN NWL3 KS5 TURBO IMP BIT 9WW 16MM
NWL3 KS5.1 18MM IMP	HAYDEN NWL3 KS5.1 18MM IMP BIT
NWL3 KS5.1 TURBO 18MM	HAYDEN NWL3 KS5.1 TURBO 18MM 7WW
NWL3 KS10 18MM BIT	HAYDEN NWL3 KS10 10WW BIT 18MM
NWL3 KS10 18 TB IMP BIT	HAYDEN NWL3 KS10 TURBO BIT 18MM 9WW
NWL3 KS9-11 18MM BIT	HAYDEN NWL3 KS9-11 IMP BIT 18MM
NWL3 KS9-11 TURBO BIT	HAYDEN NWL3 KS9-11 TURBO BIT
NWL3 10-12 IMP BIT	HAYDEN NWL3 10-12 16MM IMP BIT
NWL3 11A 18MM IMP BIT	HAYDEN NWL3 11A 18MM IMP BIT
NWL3 11A TURBO BIT	HAYDEN NWL3 11A TURBO BIT
NWL3 12-14 IMP BIT	HAYDEN NWL3 12-14 16MM IMP BIT
NWL3 14-15 IMP BIT 16MM	HAYDEN NWL3 14-15 16MM IMP BIT
NWL3 16A IMP BIT	HAYDEN NWL3 16A 16MM IMP BIT

HWL DIAMOND BITS

HWL BITS

HWL 4 IMP BIT	HAYDEN HWL 4 IMP BIT
HWL 4-6 IMP BIT	HAYDEN HWL 4-6 IMP BIT
HWL 6 IMP BIT	HAYDEN HWL 6 IMP BIT
HWL 7SA IMP BIT	HAYDEN HWL 7SA IMP BIT
HWL 8A.4 IMP BIT	HAYDEN HWL 8A.4 IMP BIT
HWL 8AAA IMP BIT	HAYDEN HWL 8AAA IMP BIT
HWL HA9 IMP BIT	HAYDEN HWL HA9 IMP BIT
HWL 9AA IMP BIT	HAYDEN HWL 9AA IMP BIT
HWL 9AAA IMP BIT	HAYDEN HWL 9AAA IMP BIT
HWL 9AAA IMP BIT TURBO	HAYDEN HWL 9AAA TURBO IMP BIT
HWL KS5 IMP BIT	HAYDEN HWL KS5 IMP BIT
HWL KS10 IMP BIT	HAYDEN HWL KS10 IMP BIT
HWL 10H IMP BIT	HAYDEN HWL 10H IMP BIT
HWL KS9-11 IMP BIT	HAYDEN HWL KS9-11 IMP BIT
HWL 10-12 IMP BIT	HAYDEN HWL 10-12 IMP BIT
HWL 11A IMP BIT	HAYDEN HWL 11A IMP BIT
HWL 12-14 IMP BIT	HAYDEN HWL 12-14 IMP BIT
HWL 14-15 IMP BIT	HAYDEN HWL 14-15 IMP BIT
HWL 16 IMP BIT	HAYDEN HWL 16 IMP BIT

HWL STEP - WEDGE

HWL 7SA TAPER WEDGE	HAYDEN HWL 7SA TAPERED BIT
HWL 10 WEDGE BIT	HAYDEN HWL 10 TAPERED WEDGE BIT 12MM 8WW
HWL KS9-11 WEDGE BIT	HAYDEN HWL KS9-11 TAPERED WEDGE BIT 12MM 8WW
HWL KS5 INT 5 STEP BIT	HAYDEN HWL KS5 INVERTED 5 STEP BIT
HWL KS5 INV 3 STEP	HAYDEN HWL KS5 INVERTED 3 STEP BIT
HWL 10-12 INV STEP BIT	HAYDEN HWL 10-12 INVERTED STEP BIT
HWL 14-15 INV STEP BIT	HAYDEN HWL 14-15 INVERTED STEP BIT

HWL3TT SURFACE SET DIAMOND BITS

HWLTT FACE DISCHARGE	
HWL TT 4-6 FD BIT	HAYDEN HWLTT 4-6 FD IMP BIT
HWL TT 7SA FD BIT	HAYDEN HWLTT 7SA FD IMP BIT
HWL TT 8A.4 FD BIT	HAYDEN HWLTT 8A.4 FD IMP BIT
HWL TT HA9 FD BIT	HAYDEN HWLTT HA9 FD IMP BIT
HWL TT KS5 FD BIT	HAYDEN HWLTT KS5 FD IMP BIT
HWLTT 10-12 FD IMP BIT	HAYDEN HWLTT 10-12 FD IMP BIT
HWL3 FACE DISCHARGE	
HWL3 4-6 FD IMP BIT	HAYDEN HWL3 4-6 FD IMP BIT
HWL3 6 FD IMP BIT	HAYDEN HWL3 6 FD IMP BIT
HWL3 7SA FD IMP BIT	HAYDEN HWL3 7SA FD IMP BIT
HWL3 HA9 FD IMP BIT	HAYDEN HWL3 HA9 FD IMP BIT
HWL3 9AAA FD IMP BIT	HAYDEN HWL3 9AAA FD IMP BIT
HWL3 KS5 FD IMP BIT	HAYDEN HWL3 KS5 FD IMP BIT
HWL3 KS9-11 FD IMP BIT	HAYDEN HWL3 KS9-11 FD S/H OVAL PORT BIT
HWL3 11A FD IMP BIT	HAYDEN HWL3 11A FD IMP BIT
HWL3 STEP BIT - FACE DISCHARGE	
HWL3 S2 5 STEP FD IMP	HAYDEN HWL3 S2 5 STEP FD IMP BIT
HWL3 S2 FD 7 STEP	HAYDEN HWL3 S2 7 STEP FD IMP BIT
HWL3TT 7STEP 15-25 FDSS	HAYDEN HWL3 7 STEP 15/25 FD SURFACE SET
HWL3/TT SURFACE SET	
HWL3 5 STEP 15-25 INT	HWL3 5 STEP 15/25 ID SURFACE SET BIT
HWL3 7STEP 15-25 INT	HWL3 7 STEP 15/25 ID SURFACE SET BIT
HWL3TT 7STEP 15-25 FDSS	HWL3 7 STEP 15/25 FD SURFACE SET

HWL3 DIAMOND BITS

HWL3 BITS

HWL3 2 IMP BIT	HAYDEN HWL3 2 IMP BIT
HWL3 4-6 IMP BIT	HAYDEN HWL3 4-6 IMP BIT
HWL3 6 IMP BIT	HAYDEN HWL3 6 IMP BIT
HWL3 7SA IMP BIT	HAYDEN HWL3 7SA IMP BIT
HWL3 8A.4 IMP BIT	HAYDEN HWL3 8A.4 IMP BIT
HWL3 8A.4 TURBO BIT	HAYDEN HWL3 8A.4 TURBO IMP BIT
HWL3 HA9 IMP BIT	HAYDEN HWL3 HA9 IMP BIT
HWL3 9AA IMP BIT	HAYDEN HWL3 9AA IMP BIT
HWL3 9AAA IMP BIT	HAYDEN HWL3 9AAA IMP BIT
HWL3 KS5 IMP BIT	HAYDEN HWL3 KS5 IMP BIT
HWL3 KS10 IMP BIT	HAYDEN HWL3 KS10 IMP BIT
HWL3 KS9-11 IMP BIT	HAYDEN HWL3 KS9-11 IMP BIT
HWL3 10H IMP BIT	HAYDEN HWL3 10H IMP BIT
HWL3 10-12 IMP BIT	HAYDEN HWL3 10-12 IMP BIT
HWL3 11A IMP BIT	HAYDEN HWL3 11A IMP BIT
HWL3 12-14 IMP BIT	HAYDEN HWL3 12-14 IMP BIT
HWL3 14-15 IMP BIT	HAYDEN HWL3 14-15 IMP BIT 12MM
HWL3 16 IMP BIT	HAYDEN HWL3 16 IMP BIT



PWL & PWLTT DIAMOND BITS

PWL

PWL 4-6 IMP BIT	HAYDEN PWL 4-6 IMP BIT
PWL HA9 IMP BIT	HAYDEN PWL HA9 IMP BIT
PWL KS5 IMP BIT	HAYDEN PWL KS5 IMP BIT
PWL KS9-11 IMP BIT	HAYDEN PWL KS9-11 IMP BIT
PWL 11A IMP BIT	HAYDEN PWL 11A SAND IMP BIT
PWL 10-12 IMP BIT	HAYDEN PWL 10-12 IMP BIT
PWL 12-14 IMP BIT	HAYDEN PWL 12-14 IMP BIT
PWL 14-15 IMP BIT	HAYDEN PWL 14-15 IMP BIT
PWL 16 IMP BIT	HAYDEN PWL 16 IMP BIT

PWLTT

PWLTT S4 FD BIT	HAYDEN PWLTT SERIES 4 FD IMP BIT
PWLTT FD SH 4-6 BIT	HAYDEN PWLTT 4-6 FD SH OVAL PORT IMP BIT
PWLTT 7SA FD BIT	HAYDEN PWLTT 7SA FD IMP BIT
PWLTT 8A.4 FD BIT	HAYDEN PWLTT 8A.4 FD OVAL PORT IMP BIT
PWLTT HA9 FD BIT	HAYDEN PWLTT HA9 FD IMP BIT
PWLTT KS5 FD BIT	HAYDEN PWLTT KS5 FD IMP BIT
PWLTT 11A FD BIT	HAYDEN PWLTT 11A FD OVAL PORT IMP BIT

PWL3/TT SURFACE SET

PWL3 5 STEP 15-25 INT	PWL3/TT 5 STEP 15-25 ID SURFACE SET BIT
PWLTT3 5STEP 15-25 FDSS	PWLTT/3 5 STEP 15-25 FD SURFACE SET BIT

PWL DIAMOND BITS

PWL3 BITS	
PWL3 2 IMP BIT	HAYDEN PWL3 S2 IMP BIT
PWL3 4-6 IMP BIT	HAYDEN PWL3 4-6 IMP BIT
PWL3 S6 BIT	HAYDEN PWL3 S6 IMP BIT
PWL3 7SA IMP BIT	HAYDEN PWL3 7SA IMP BIT
PWL3 8AA IMP BIT	HAYDEN PWL3 8AA IMP BIT
PWL3 8A.4 IMP BIT	HAYDEN PWL3 8A.4 IMP BIT
PWL3 HA9 IMP BIT	HAYDEN PWL3 HA9 IMP BIT
PWL3 9AAA IMP BIT	HAYDEN PWL3 9AAA IMP BIT
PWL3 KS5 IMP BIT	HAYDEN PWL3 KS5 IMP BIT
PWL3 KS9-11 IMP BIT	HAYDEN PWL3 KS9-11 IMP BIT
PWL3 10-12 IMP BIT	HAYDEN PWL3 10-12 IMP BIT
PWL3 11A SAND BIT	HAYDEN PWL3 11A IMP BIT
PWL3 12-14 IMP BIT	HAYDEN PWL3 12-14 IMP BIT
PWL3 14-15 IMP BIT	HAYDEN PWL3 14-15 IMP BIT
PWL3 16A IMP BIT	HAYDEN PWL3 16A IMP BIT
PWL3 FACE DISCHARGE	
PWL3 7SA FD IMP BIT	HAYDEN PWL3 7SA FD IMP BIT
PWL3 HA9 FD IMP BIT	HAYDEN PWL3 HA9 FD IMP BIT
PWL3 KS5 FD IMP BIT	HAYDEN PWL3 KS5 FD IMP BIT
PWL3 10-12 FD	HAYDEN PWL3 10-12 FD BIT
PWL3 STEP	
PWL3 S2 5 STEP FD IMP	HAYDEN PWL3 S2 5 STEP FD IMP BIT
PWL3 S2 FD 7 STEP	HAYDEN PWL3 S2 7 STEP FD IMP BIT



DIAMOND DRILL RODS

BWL

IMS51581	BWL DRILL ROD 3MTR
BWL 1.5M DRILL ROD	BWL HEAT TREATED DRILL ROD 1.5MTR
SHORT BWL 500MM	BWL 0.5 MTR SHORT ROD

NWL

IMS51587	NWL DRILL ROD 3MTR
IMS3548210	NWL DRILL ROD 1.5MTR
SHORT NWL 150MM	NWL 0.15 MTR ROD SHORT
SHORT NWL 200MM	NWL 0.2 MTR ROD SHORT
SHORT NWL 300MM	NWL 0.3 MTR ROD SHORT
SHORT NWL 500MM	NWL 0.5 MTR ROD SHORT

HWL

IMS51593	HWL DRILL ROD 3MTR
IMS3548214	HWL DRILL ROD 1.5MTR
SHORT HWL 1000MM	HWL 1.0 MTR ROD SHORT
IMS3548214PS	HWL DRILL ROD WITH END PLATE 1.5MTR
SHORT HWL 150MM	HWL 0.15 MTR ROD SHORT
SHORT HWL 200MM	HWL 0.2 MTR ROD SHORT
SHORT HWL 300MM	HWL 0.3 MTR ROD SHORT
SHORT HWL 500MM	HWL 0.5 MTR ROD SHORT



DIAMOND DRILL RODS & CASING

HWT & PHD

IMS101338HT	HWT/PHD 3MTR ROD/CASING HEAT TREATED
IMS101339HT	HWT 1.5MTR CASING HEAT TREATED PIN - PWL ROD
SHORT HWT 200MM	HWT 0.2 MTR SHORT ROD
SHORT HWT 300MM	HWT 0.3 MTR SHORT ROD
SHORT HWT 500MM	HWT 0.5 MTR SHORT ROD
SHORT HWT 1000MM	HWT 1.0 MTR SHORT ROD

PWT CASING

IMS3543977	PWT CASING 3MTR NON HEAT TREATED
SHORT PWT 300MM	PWT 0.3 MTR SHORT ROD
SHORT PWT 500MM	PWT 0.5 MTR SHORT ROD
SHORT PWT 1000MM	PWT 1.0 MTR SHORT ROD

HRWL DRILL RODS

IMS904252DE	HR DRILL ROD 3MTR
IMS904253DE	HR DRILL ROD 1.5MTR
SHORT HR 300MM	HR 0.3 MTR SHORT ROD
SHORT HR 500MM	HR 0.5 MTR SHORT ROD
SHORT HR 1000MM	HR 1.0 MTR SHORT ROD

NRWL DRILL RODS

IMS104113DE	NR DRILL ROD 1.5MTR
IMS904111DE	NR DRILL ROD 3MTR
SHORT NRWL 500MM	NR 0.5 MTR ROD SHORT
SHORT NRWL 1000MM	NR 1.0 MTR ROD SHORT



SMALL DIAMETER ROTARY BITS

STEEL TOOTH

BICONE 2-1.8 ST	BICONE 2-1/8 ST TR2 DRILL BIT
BICONE 2-3.8	BICONE 2-3/8 AW PIN FC321
TRICONE 2-15.16 ST 321	TRICONE 2-15/16 ST 321 N ROD
TRICONE 3-1.2 ST 321	TRICONE 3-1/2 ST 321 2-3/8 API
TRICONE 3-3.4 ST 321	TRICONE 3-3/4 ST 321 2-3/8 API
TRICONE 3-7.8 ST 321	TRICONE 3-7/8 ST 321 2-3/8 API
TRICONE 4-0 ST 321 BIT	TRICONE 4 ST 321 BIT 2-3/8 API
TRICONE 4-1.2 ST 321	TRICONE 4-1/2 ST 321 2-3/8 API
TRICONE 4-3.4 ST 321	TRICONE 4-3/4 ST 321 2-7/8 API
TRICONE 4-7.8 ST 321	TRICONE 4-7/8 ST 321 2-7/8 API
TRICONE 5-1.8 ST 321	TRICONE 5-1/8 ST 321 2-7/8 API
TRICONE 5-1.4 ST 339	TRICONE 5-1/4 ST 339 2-7/8 API
TRICONE 5-1.2 ST 311	TRICONE 5-1/2 ST 311 BIT 2-7/8 API
TRICONE 5-1.2 ST 321	TRICONE 5-1/2 ST 321 2-7/8 API
TRICONE 5-5.8 ST 339	TRICONE 5-5/8 ST 329 3-1/2 API
TRICONE 5-7.8 ST 321	TRICONE 5-7/8 ST 321 3-1/2 API
TRICONE 6-1.2 ST 321	TRICONE 6-1/2 ST 321 3-1/2 API
TRICONE 6-1.4 ST 339	TRICONE 6-1/4 ST 339 3-1/2 API
TRICONE 6-3.4 ST 321	TRICONE 6-3/4 ST 321 3-1/2 API

TUNGSTEN CARBIDE INSERT

TRICONE 2-15.16 TCI 543	TRICONE 2-15/16 TCI 543 BIT OB N ROD
TRICONE 3-3.4 TCI 543	TRICONE 3-7/8 TCI 611 OB 2-3/8 API
TRICONE 3-7.8 TCI 611	TRICONE 3-7/8 TCI 611 OB 2-3/8 API
TRICONE 4-3.4 TCI 521	TRICONE 4-3/4 TCI 521 2-7/8 API
TRICONE 5-7.8 TCI 535	TRICONE 5-7/8 TCI 535 3-1/2 API
TRICONE 6-1.2 TCI 537	TRICONE 6-1/2 TCI 537 3-1/2 API
TRICONE 6-3.4 TCI 517	TRICONE 6-3/4 TCI 517 SB 3-1/2 API
TRICONE 6-3.4 TCI 517	TRICONE 6-3/4 TCI 517 SB 3-1/2 API



PIPE WRENCHES

18" WRENCHES

IMS31025	18 RIDGID HD STEEL WRENCH
IMS31100	18 RIDGID WRENCH ALUMINIUM
IMS31670	18 RIDGID HOOK JAW
IMS31675	18 RIDGID HEEL JAW & PIN
IMS31680	18 RIDGID CL & FLT SPRG
IMS31685	18 RIDGID WR NUT

24" WRENCHES

IMS31030	24 RIDGID HD STEEL WRENCH
IMS31105	24 RIDGID WRENCH ALUMINIUM
IMS31695	24 RIDGID HOOK JAW
IMS31700	24 RIDGID HEEL JAW & PIN
IMS31705	24 RIDGID CL & FLT SPRING
IMS31710	24 RIDGID WR NUT

CHAIN WRENCHES

IMS31320	RIDGID C18 HD CHAIN WRENCH
IMS31325	RIDGID C24 HD CHAIN WRENCH
IMS31330	RIDGID C36 HD CHAIN WRENCH
IMS92670	CHAIN TONG MAX 4IN PIPE
IMS92685	CHAIN TONG MAX 12IN PIPE

36" WRENCHES

IMS31035	36 RIDGID HD STEEL WRENCH
IMS31110	36 RIDGID WRENCH ALUMINIUM
IMS31720	36 RIDGID HOOK JAW
IMS31725	36 RIDGID HEEL JAW & PIN
IMS31730	36 RIDGID CL & FLT SPRING
IMS31740	36 RIDGID PIN (900MM)
IMS31735	36 RIDGID WR NUT

48" WRENCHES

IMS31040	48 RIDGID HD STEEL WRENCH
IMS31115	48 RIDGID WRENCH ALUMINIUM
IMS31750	48 RIDGID HEEL JAW & PIN
MS31745	48 RIDGID HOOK JAW
IMS31755	48 RIDGID CL & FLT SPRING
IMS31765	48 RIDGID PIN
IMS31760	48 RIDGID WR NUT

60" WRENCHES

IMS31045	60 RIDGID HD STEEL WRENCH
IMS31775	60 RIDGID HEEL JAW & PIN
IMS31770	60 RIDGID HOOK JAW
IMS31780	60 RIDGID CL & FLT SPRG
IMS31715	24 RIDGID PIN (600MM)
IMS31785	60 RIDGID WR NUT

RIG SPARES

ROTATION UNIT & ROD HOLDER SPARES

MK 11 CHUCK ASSEMBLIES

IMS3000826	MK11 CHUCK ASSEMBLY HWL
IMS3000827	MK11 CHUCK CYLINDER ASSEMBLY HWL
IMS3002352	MK11 SEAL KIT CHUCK
IMS56628HD	GUIDE BUSH RETAINING PLATE MK11 H/DUTY

CHUCK JAWS - SUIT HWL CHUCK

IMS82867D	BWL CHUCK JAW SINGLE JAW ONLY
IMS82869D	NWL CHUCK JAW SINGLE JAW ONLY
IMS82862D	HWL CHUCK JAW SINGLE JAW ONLY

ROD HOLDER JAWS - SUIT HWL ROD HOLDER

IMS58505D	BWL ROD HOLDER JAW SINGLE ONLY (NOT A SET)
IMS58311D	NWL ROD HOLDER JAW SINGLE (NOT A SET)
IMS58313D	HWL ROD HOLDER JAW SINGLE (58314SET)

GUIDE BUSH - SUIT HWL

IMS56639	BWL - LTK60 GUIDE BUSH SUIT HWL HEAD
IMS56638	GUIDE BUSH NWL 75MM
IMS56628HD	GUIDE BUSH RETAINING PLATE MK11 H/DUTY
IMS57529	NWL SLEEVE INSERT GUIDE BUSH
IMS56637	GUIDE BUSH HWL
IMS56628	GUIDE BUSH CLAMP

WEAR STRIPS - SUIT HWL

IMS85575D	WEAR SLIDE DEEP
IMS56630	STRIP WEAR HWL ROD HOLDER

RIG SPARES

CAMERON GAUGES & RELIEF VALVE SPARES

CAMERON GAUGES

IMSCAMGAUGE	0-1000 PSI CAMERON GAUGE
IMSCAMGAUGE103	0-3000 PSI CAMERON GAUGE TYPE F

AMS RELIEF VALVE 1000 PSI

IMS3546492	RELIEF VALVE
IMS3546492-CERT	RELIEF VALVE-CERTIFIED (Generally set at 1000psi)
IMS21841	RELIEF VALVE ADJUSTING SCREW
IMS22179	RELIEF VALVE BRASS NUT
IMS3546493	RELIEF VALVE BODY
IMS3546494	RELIEF VALVE SPRING GUIDE
IMS100459DE	NWL COMPRESSION SPRING
IMS3546495	RELIEF VALVE BALL HOLDER
IMS21837	RELIEF VALVE BALL 15/16"
IMS3546496	RELIEF VALVE SEAT

AMS RELIEF VALVE 2000 PSI

IMS1285315	RELIEF VALVE 75 GPM 50-2000 PSI FMC
IMS5256492	RELIEF VALVE SERVICE KIT 4 BOLT 2000PSI
P505487	RELIEF SERVICE VALVE ASSEMBLY
IMS1251730	RELIEF VALVE BODY CI
IMS1263590	RELIEF VALVE SPRING
IMS1264930	RELIEF VALVE ADJUSTING NUT

RIG SPARES

WATER SWIVEL

40K SWIVEL

IMS39385	40K WATER SWIVEL ASSEMBLY NW BOX
IMS104325	40K WATER SWIVEL PACKING SET (PK4)
IMS3001011	40K SWIVEL REPAIR KIT
IMS39386	40K BEARING
IMS39388	40K COMPRESSION SPRING
IMS39392B	40K BRASS PACKING HOUSING
IMS39393	40K NUT LOADING
IMS39394	40K WASHER- BELLEVILLE
IMS39395	40K LOADING WASHER
IMS39396	40K THRUST WASHER
IMS39397	40K SPINDLE
IMS39398	40K SWIVEL BODY
IMS88445	40K EXTENSION SPINDLE
IMS93916	40K GRUB SCREW M6 X 8
IMS3001011	40K UWS REPAIR KIT

UWS 25K SWIVEL

IMS67321	UWS 25K WATER SWIVEL BW THREAD
IMS103171DE	25K VEE PACKING SET DE 39171
IMS67628	25K UWS REPAIR KIT
IMS19906	25K UWS DOUBLE BALL BEARING
IMS29737	25K UWS O RING
IMS39168	25K UWS COMPRESSION SPRING
IMS39169	25K HOISTING CAP
IMS39170	25K UWS SPINDLE EXTENSION
IMS39172	25K UWS BRASS PACKING HOUSING
IMS40965	25K UWS CIRCLIP
IMS67186	25K UWS LOCKWASHER
IMS67187	25K UWS THRUST BEARING 3 PIECE
IMS67322	25K UWS SPACER
IMS67324	25K UWS SHAFT SPINDLE
IMS67325	25K UWS SPINDLE NUT
IMS67631	25K UWS LOWER BODY
IMS67628	25K UWS REPAIR KIT

RIG SPARES

HIGH SPEED WATER SWIVEL & PUMP

HIGH SPEED WATER SWIVEL

IMS3546544	BWL WATER SWIVEL U/G HIGH SPEED
IMS 3546545	NWL WATER SWIVEL U/G HIGH SPEED NWL PIN -12
IMS3546497	NWL - BWL SWIVEL CAP HIGH SPEED WATER SWIVEL
IMS24243	NWL - BWL TOP SWIVEL BEARING HIGH SPEED
IMS3546498	BWL - NWL HIGH SPEED STEM
IMS3546542	BWL HIGH SPEED WATER SWIVEL BODY
IMS17447	GREASE FITTING - 93363
IMS3546525	NWL - BWL HIGH SPEED SEAL
IMS3546477	NWL - BWL SEAL RETAINER - 3546523
IMS3546543	BODY NWL HIGH SPEED WATER SWIVEL
IMS3546541	BWL/NWL WATER SWIVEL KIT UG HS

FMC BEAN PUMP W1122

IMS1284777	W1122 VALVE CHAMBER 535 - 79325
IMS26157	W1122 STAINLESS STEEL BALL 535 1-1/8"
IMS69501	W1122 DISC VALVE 535 - 1278104
IMS75012	W1122 NUT PLUNGER 535 - A5016)
IMS75027	W1122 NUT BRASS 8309 1/2UNC
IMS75034	W1122 VALVE COVER 535 - 1285113
IMS75035	W1122 CYLINDER COVER 535 - 1285112
IMS75037	W1122 PLUNGER CUP - A91663
IMS75042	W1122 GASKET - A91674
IMS75048	W1122 GASKET - A91675
IMS75062	W1122 WASHER PLUNGER - 1216753
IMS75081	W1122 BRG 535 - 1272558
IMS78541	W1122 CLAMP VALVE COVER - A80391
IMS79103	W1122 CERAMIC CYLINDER 535 - 1267586
IMS79104	W1122 PACK WASHER 535 - 19510
IMS79120	W1122 CUP BEARING - 1177474
IMS79324	W1122 VALVE SEAT 535 - 1284740
IMS79324HD	W1122 VALVE SEAT HEAVY DUTY - 284740
IMS9226	W1122 BUSHING CON ROD - 75032

VAN RUTH PRODUCTS

ANCHOR PLUGS

VREYEBOLTAP	EYE BOLT TO SUIT ANCHOR PLUG VANRUTH
VRBWLAP	BWL ANCHOR PLUG VANRUTH
VRNWLAP	NWL ANCHOR PLUG VANRUTH
VRAPHWLHOIST	HWL ANCHOR PLUG VANRUTH
VRHWLAP	HWL ANCHOR PLUG VANRUTH

GROUT AND WATER CONTROL

VR45-46GWC	GROUT & WATER CONTROL PACKER 45/46MM
VRGTK48GWC	LTK48 GROUT & WATER CNTRL PLUG VR
VR63-64GWC	GROUT & WATER CONTROL PACKER 63/64MM
VRBWLGWC	BWL GROUT & WATER CNTRL PLUG VANRUTH
VRNWLGWC	NWL GROUT & WATER CNTRL PLUG 76MM VR
VRHWLGWC	HWL GROUT & WATER CNTRL PLUG 96MM VR
VRPWLGWC	PWL GROUT & WATER CNTL PLUG 122MM VR

SUB SET GROUT PACKERS

VRBWLSSGP	BWL SUB SET GROUT PACKER (60MM) VANRUTH
VRBWLSSGPSUB	BWL/LTK 60 SETTING SUB VANRUTH
VRNWLSSGP	NWL SUB SET GROUT PACKER VANRUTH 3KG
VRNWLSSGPSUB	NWL SETTING SUB VANRUTH
VRHWLSSGP	HWL SUBSET GROUT PACKER VANRUTH
VRHWLSSGPSUB	HWL SETTING SUB VANRUTH



VAN RUTH PRODUCTS

CEMENT WEDGE BOTTOM PACKER

VRBWLCWBP	BWL CEMENT WEDGE BOTTOM PACKER VANRUTH
VRNWLCWBP	NWL CEMENT WEDGE BOTTOM PACKER VANRUTH
VRHWLCWBP	HWL CEMENT WEDGE BOTTOM PACKER VANRUTH
VRHWLCWBPSSPOLY	HWL SUB SET CWBP POLY VANRUTH
VRPWLCWBP	PWL CEMENT WEDGE BOTTOM PACKER

CEMENT WEDGE PACKERS

VRBWLCW	BWL CEMENTING WEDGING PLUG VANRUTH
VRNWLCW	NWL CEMENTING WEDGING PLUG VANRUTH
VRHWLCW	HWL CEMENTING WEDGING PLUG VANRUTH 2.5KG
VRHWLCWPOLY	HWL CEMENTING WEDGING PLUG - NON SPARK
VRPWLCW	PWL CEMENTING WEDGING PLUG VAN RUTH

HOLD DOWN PLUGS

VRBWLHDP	BWL HOLD DOWN PLUG VANRUTH
VRNWLHDP	NWL HOLD DOWN PLUG VANRUTH
VRHWLHDP	HWL HOLD DOWN PLUG VANRUTH

HAND SET PACKERS

VRBWLHSP	BWL HAND SET PACKER 60MM VANRUTH
VRNWLHSP	NWL HAND SET PACKER 76MM VANRUTH
VRHWLHSP	HWL HAND SET PACKER 96MM VANRUTH



CUTTERS & ADVANCERS

CUTTERS & BLADES

IMS3543026	AW CASING CUTTER ASSY - CUT BWL
IMS60158	AW CASING CUTTER LUG - CUT BWL
IMS52775	BW CASING CUTTER ASSY 2 BLADE - CUT NWL
IMS14523	BW CASING CUTTER LUG - CUTS NWL
IMS52777	NW CASING CUTTER ASSY 2 BLADE - CUT HWL
IMS14532	NW CASING CUTTER LUG - CUT HWL
IMS60879	HW CASING CUTTER ASSY 2 BLADE - CUT PWL/HWT
IMS62830	HW CASING CUTTER LUG - CUT PWL/HWT

CASING ADVANCERS

IMS59000	HWL CASING ADVANCER
IMS80967	HWL CASING ADVANCER - DRIVER
IMS59063	HWL CASING ADVANCER - LOADING SLEEVE
HWL REAMING BIT	HWL REAMING BIT (REAM OVER REAMER)
TRICNE 2-15.16 ST 321	TRICONE 2-15/16 ST 321 N ROD
IMS3000863	HWT CASING ADVANCER
IMS3000864	HWT CASING ADVANCER - DRIVER
IMS3000869	HWT CASING ADVANCER - LOADING SLEEVE
HWT REAMING BIT	HWT REAMING BIT (REAM OVER REAMER)
TRICNE 3-3.4 ST 321	TRICONE 3-3/4 ST 321 2-3/8 API





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