

**METAL
TOOL**

DRILLING & SERVICES



**20
26**



CATÁLOGO DE ACCESORIOS

Perforación Diamantina Y Geotecnia

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1. CORE BARREL KIT SELECTION MECHANICAL



- AO
- BO
- NO
- HO
- PO



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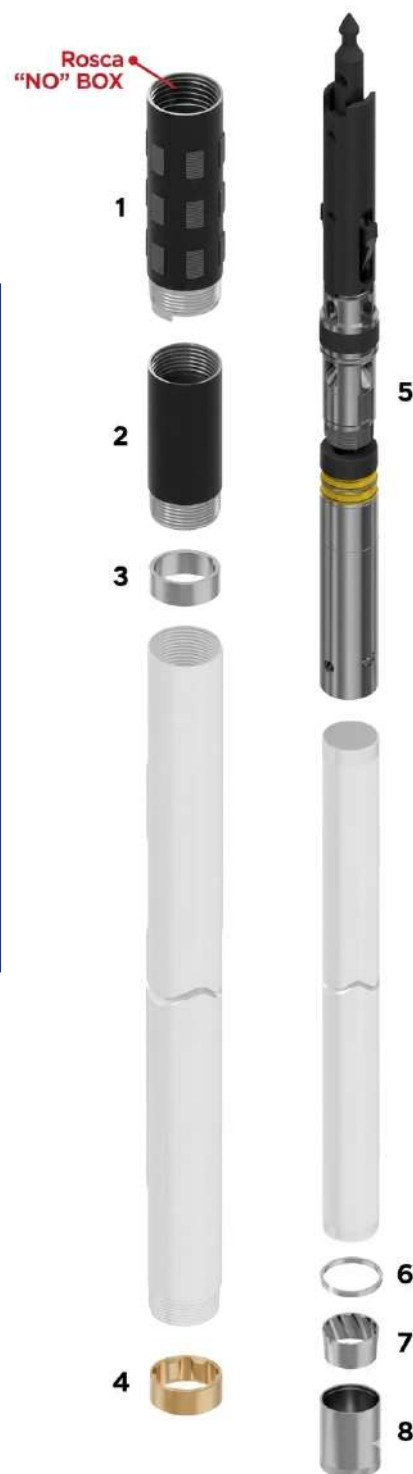


BO CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	BO CORE BARREL ASSEMBLY LINK LATCH 3.0 M/10 FT	MTD306412	X			
	BO INNER TUBE GROUP LINK LATCH 3.0 M /10 FT	MTD3543000		X		
	BO CORE BARREL ASSEMBLY LINK LATCH 1.5 M/ 5 FT	MTD306411			X	
	BO INNER TUBE GROUP LINK LATCH 1.5 M/5 FT	MTD3542999				X
1	BO HEAD ASSEMBLY LINK LATCH	MTD3542292	X	X	X	X
2	BO INNER TUBE 3.0 M /10 FT	MTD24339	X	X		
	BO INNER TUBE 1.5 M /5 FT	MTD24356			X	X
3	BO STOP RING	MTD24381	X	X	X	X
4	BO CORE LIFTER SLOTTED	MTD30487				
	BO CORE LIFTER FLUTTED	MTD24342				
5	BO CORE LIFTER CASE	MTD24830	X	X	X	X
6	BO LOCKING COUPLING FULL HOLE W/TANG	MTD3545400				
	BO LOCKING COUPLING COVENTIONAL W/TANG	MTD24832				
7	BO ADAPTER COUPLING	MTD24833	X	X	X	X
8	BO LANDING RING	MTD24345	X	X	X	X
9	BO OUTER TUBE 3.0 M/10 FT	MTD24346	X	X		
	BO OUTER TUB 1.5 M/5 FT	MTD24357			X	X
10	BO INNER TUBE STABILIZER	MTD44406	X	X	X	X
11	BO THREAD PROTECTOR (OUTER TUBE)	MTD24348	X	X	X	X

COMPONENTE ESTANDAR

REQUERIDO - SELECCIONAR UNO



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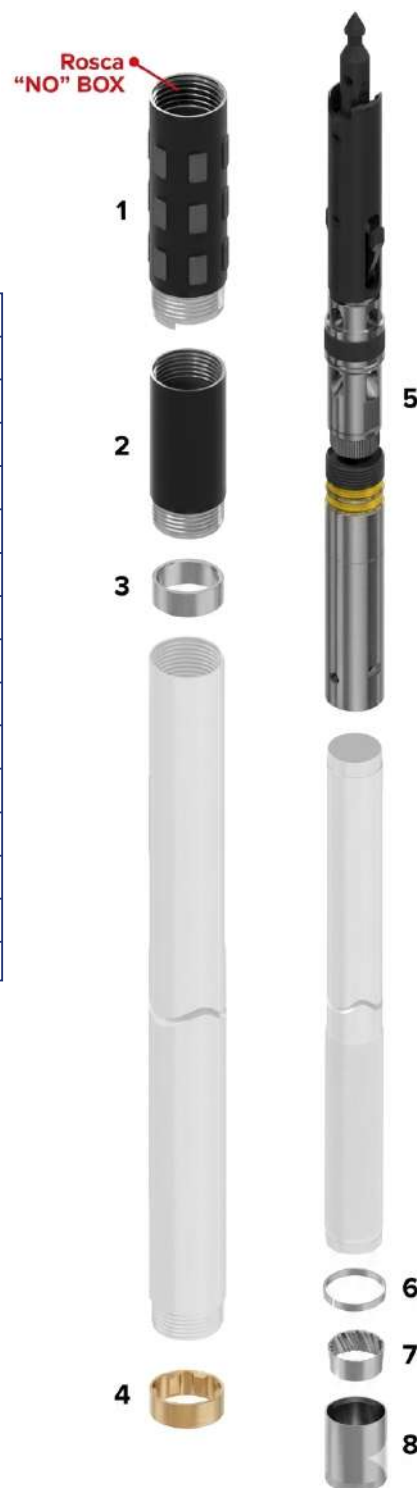


NO CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	NO CORE BARREL ASSEMBLY LINK LATCH 3.0 M/10 FT	MTD30600	X			
	NO INNER TUBE GROUP LINK LATCH 3.0 M /10 FT	MTD3542921		X		
	NO CORE BARREL ASSEMBLY LINK LATCH 1.5 M/ 5 FT	MTD306001			X	
	NO INNER TUBE GROUP LINK LATCH 1.5 M/5 FT	MTD3542920				X
1	NO HEAD ASSEMBLY LINK LATCH	MTD3542751	X	X	X	X
2	NO INNER TUBE 3.0 M /10 FT	MTD24891	X	X		
	NO INNER TUBE 1.5 M /5 FT	MTD24909			X	X
3	NO STOP RING	MTD24893	X	X	X	X
4	NO CORE LIFTER SLOTTED	MTD30488				
	NO CORE LIFTER FLUTTED	MTD24894				
5	NO CORE LIFTER CASE	MTD24892	X	X	X	X
6	NO LOCKING COUPLING FULL HOLE W/TANG	MTD3545405				
	NO LOCKING COUPLING CONVENTIONAL W/TANG	MTD24895				
7	NO ADAPTER COUPLING	MTD24896	X	X	X	X
8	NO LANDING RING	MTD24897	X	X	X	X
9	NO OUTER TUBE 3.0 M/10 FT	MTD24898	X	X		
	NO OUTER TUB 1.5 M/5 FT	MTD24910			X	X
10	NO INNER TUBE STABILIZER	MTD44407	X	X	X	X
11	NO THREAD PROTECTOR (OUTER TUBE)	MTD24900	X	X	X	X

COMPONENTE ESTANDAR

REQUERIDO - SELECCIONAR UNO



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HO CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	HO CORE BARREL ASSEMBLY LINK LATCH 3.0 M / 10 FT	MTD3542947	X			
	HO INNER TUBE GROUP LINK LATCH 3.0 M / 10 FT	MTD3542943		X		
	HO CORE BARREL ASSEMBLY LINK LATCH 1.5 M / 5 FT	MTD3542946			X	
	HO INNER TUBE GROUP LINK LATCH 1.5 M / 5 FT	MTD3542942				X
1	HO HEAD ASSEMBLY LINK LATCH	MTD5001440	X	X	X	X
2	HO INNER TUBE 3.0 M / 10 FT	MTD25236	X	X		
	HO INNER TUBE 1.5 M / 5 FT	MTD25258			X	X
3	HO STOP RING	MTD25238	X	X	X	X
4	HO CORE LIFTER SLOTTED	MTD30489				
	HO CORE LIFTER FLUTTED	MTD25239				
5	HO CORE LIFTER CASE	MTD25237	X	X	X	X
6	HO LOCKING COUPLING FULL HOLE W/TANG	MTD3545410				
	HO LOCKING COUPLING CONVENTIONAL W/TANG	MTD62765				
7	HO ADAPTER COUPLING	MTD25241	X	X	X	X
8	HO LANDING RING	MTD25242	X	X	X	X
9	HO OUTER TUBE 3.0 M / 10 FT	MTD25243	X	X		
	HO OUTER TUBE 1.5 M / 5 FT	MTD25259			X	X
10	HO INNER TUBE STABILIZER	MTD44408	X	X	X	X
11	HO THREAD PROTECTOR (OUTER TUBE)	MTD25245	X	X	X	X

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REQUERIDO - SELECCIONAR UNO



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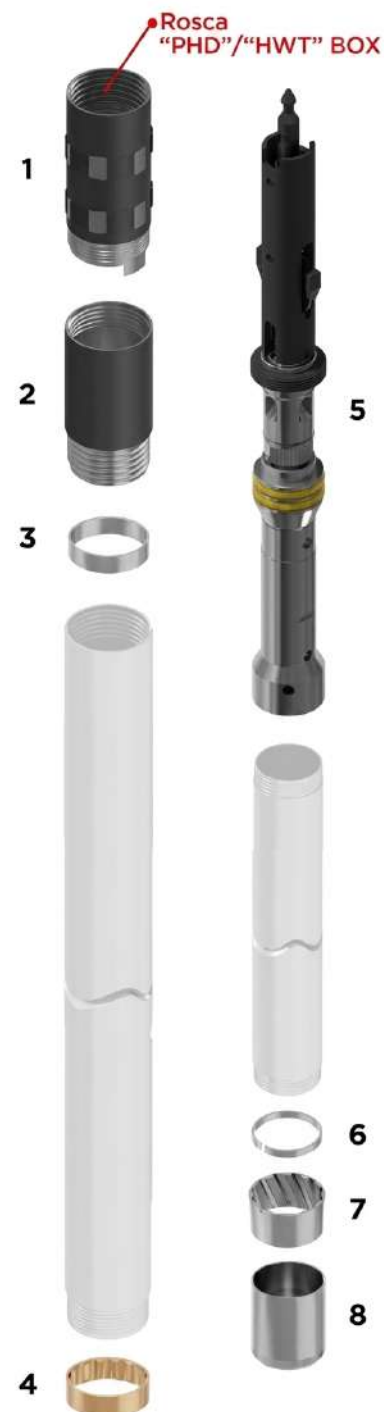


PO CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	PO CORE BARREL ASSEMBLY LINK LATCH 3.0 M/10 FT	MTD	X			
	PO INNER TUBE GROUP LINK LATCH 3.0 M /10 FT	MTD		X		
	PO CORE BARREL ASSEMBLY LINK LATCH 1.5 M/ 5 FT	MTD			X	
	PO INNER TUBE GROUP LINK LATCH 1.5 M/5 FT	MTD				X
1	PO HEAD ASSEMBLY LINK LATCH	MTD5001444	X	X	X	X
2	PO INNER TUBE 3.0 M /10 FT	MTD26534	X	X		
	PO INNER TUBE 1.5 M /5 FT	MTD26159			X	X
3	NO STOP RING	MTD26161	X	X	X	X
4	NO CORE LIFTER SLOTTED	MTD				
	NO CORE LIFTER FLUTTED	MTD26162				
5	NO CORE LIFTER CASE	MTD52172	X	X	X	X
6	NO LOCKING COUPLING FULL HOLE W/TANG	MTD				
	NO LOCKING COUPLING CONVENTIONAL W/TANG	MTD101343				
7	NO ADAPTER COUPLING	MTD3543808	X	X	X	X
8	NO LANDING RING	MTD3543814	X	X	X	X
9	NO OUTER TUBE 3.0 M/10 FT	MTD3543801	X	X		
	NO OUTER TUB 1.5 M/5 FT	MTD3543802			X	X
10	NO INNER TUBE STABILIZER	MTD44923	X	X	X	X
11	NO THREAD PROTECTOR (OUTER TUBE)	MTD	X	X	X	X

COMPONENTE ESTANDAR

REQUERIDO - SELECCIONAR UNO



2. HEAD ASSEMBLY MECHANICAL



- AO
- BO
- NO
- HO
- PO

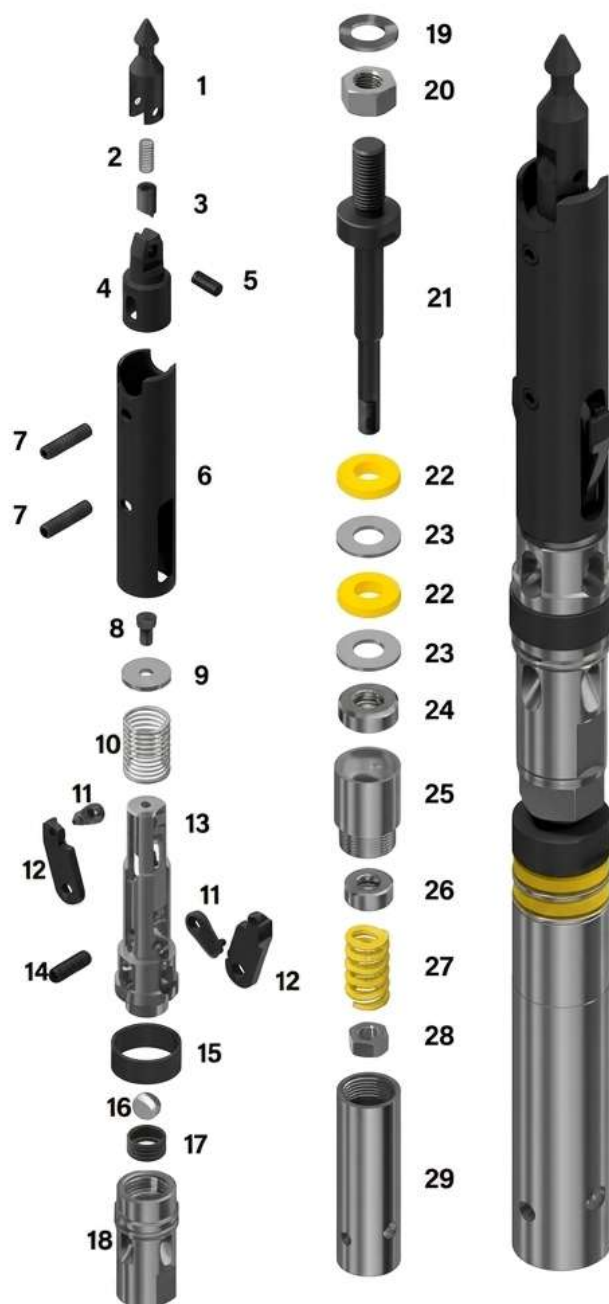


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HEAD ASSEMBLY BO MTD 3542292

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD3547000	1
2	COMPRESSION SPRING	MTD5003191	1
3	DETENT PLUNGER	MTD3547002	1
4	SPEARHEAD BASE	MTD5003194	1
5	SPIROL PIN	MTD5003192	1
6	LATCH RETRACTING CASE	MTD3541647	1
7	SPRING PIN	MTD23941	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD306427	1
10	LATCH COMPRESSION SPRING	MTD3543180	1
11	UPPER LATCH BODY	MTD3541621	1
12	LATCH	MTD306417	2
13	LINK	MTD306418	2
14	SPRING PIN	MTD23944	1
15	STAINLESS STEEL BALL	MTD62374	1
16	INDICATOR BUSHING	MTD62380	1
17	LANDING SHOULDER	MTD306421	1
18	LOWER LATCH BODY	MTD306578	1
19	HEX NUT	MTD44601	1
20	SPINDLE	MTD24331	1
21	SHUT-OFF VALVE HARD	MTD44208	2
22	VALVE ADJUSTING WASHER	MTD24335	2
23	HANGER BEARING BO	MTD24335	2
24	SPINDLE BEARING	MTD24336	1
25	COMPRESSION SPRING	MTD24031	1
26	STOVER LOCK NUT	MTD103144	1
27	INNER TUBE CAP ASSEMBLY	MTD40655	1
28A	GREASE FITTING	MTD 17447	1
29B	STAINLESS STEEL BALL ¾"	MTD 24943	1
30C	CHECK VALVE BODY	MTD 40656	1
19	WASHER, NORD-LOCK 7/8"	MTD 3548183	1

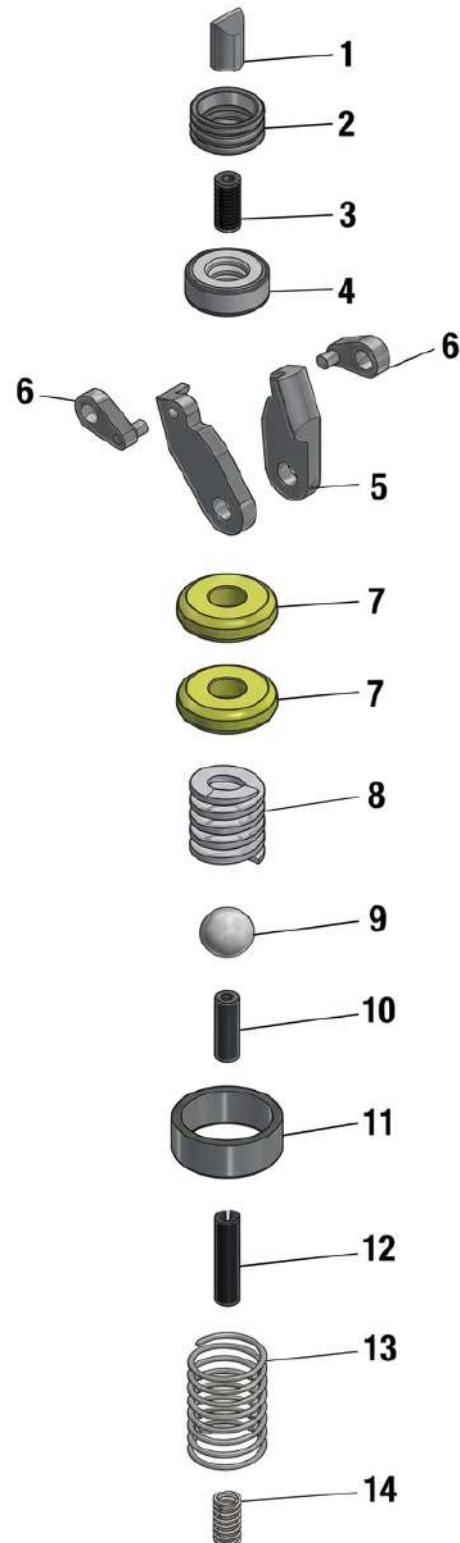


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REPAIR KIT HEAD ASSEMBLY BO MTD 3542292K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD3547002	1
2	INDICATOR BUSHING	MTD62380	1
3	SPIROL PIN	MTD5003192	1
4	THRUST/HANGER BEARING	MTD24030	1
5	LATCH	MTD306417	2
6	LINK	MTD306418	2
7	SHUT-OFF VALVE HARD	MTD44208	2
8	COMPRESSION SPRING	MTD24031	1
9	STAINLESS STEEL BALL	MTD62374	1
10	SPRING PIN	MTD23944	1
11	LANDING SHOULDER	MTD306421	1
12	SPRING PIN	MTD23941	2
13	LATCH COMPRESSION SPRING	MTD3543180	1
14	COMPRESSION SPRING	MTD5003191	1

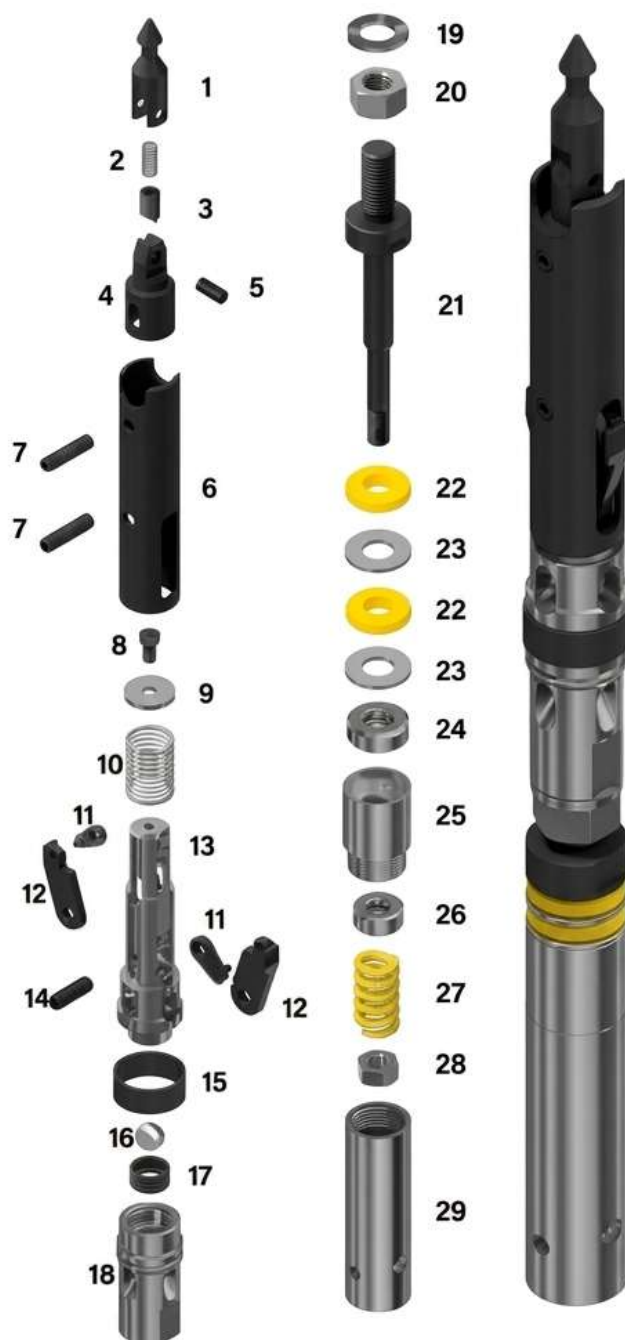


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HEAD ASSEMBLY NO MTD 3542751

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD3547000	1
2	COMPRESSION SPRING	MTD5003191	1
3	DETENT PLUNGER	MTD3547002	1
4	SPEARHEAD BASE	MTD3547004	1
5	SPIROL PIN	MTD5003192	1
6	LATCH RETRACTING CASE	MTD306455	1
7	SPRING PIN	MTD24305	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD306022	1
10	LATCH COMPRESSION SPRING	MTD3543812	1
11	UPPER LATCH BODY	MTD3541778	1
12	LATCH	MTD104816	2
13	LINK	MTD306454	2
14	SPRING PIN	MTD24548	1
15	STAINLESS STEEL BALL	MTD62374	1
16	INDICATOR BUSHING	MTD62380	1
17	LANDING SHOULDER	MTD306009	1
18	LOWER LATCH BODY	MTD306008	1
19	HEX NUT	MTD24885	1
20	SPINDLE	MTD24886	1
21	SHUT-OFF VALVE HARD	MTD44209	2
22	VALVE ADJUSTING WASHER	MTD24888	2
23	THRUST BEARING	MTD24312	1
24	SPINDLE BEARING	MTD24889	1
25	HANGER BEARING BO	MTD18298	1
26	COMPRESSION SPRING	MTD24313	1
27	STOVER LOCK NUT	MTD22918	1
28	INNER TUBE CAP ASSEMBLY	MTD40664	1
28A	GREASE FITTING	MTD 17447	1
29B	STAINLESS STEEL BALL 3/4"	MTD 24943	1
30C	CHECK VALVE BODY	MTD 40656	1
19	WASHER, NORD-LOCK 7/8"	MTD 3548183	1

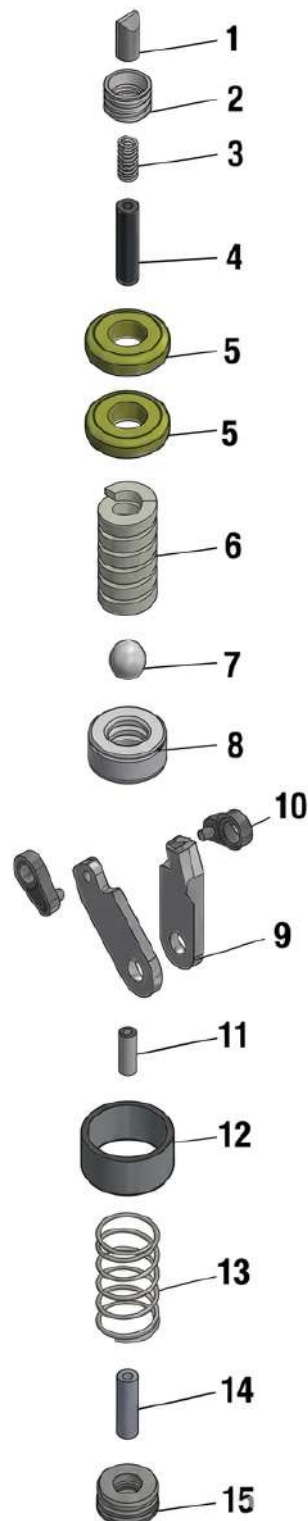


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT HEAD ASSEMBLY NO MTD 3542751K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD3547002	1
2	INDICATOR BUSHING	MTD62380	1
3	COMPRESSION SPRING	MTD5003191	1
4	SPRING PIN	MTD24305	2
5	SHUT-OFF VALVE HARD	MTD44209	2
6	COMPRESSION SPRING	MTD24313	1
7	STAINLESS STEEL BALL	MTD62374	1
8	HANGER/THRUST BEARING	MTD24312	1
9	LATCH	MTD104816	2
10	LINK	MTD306454	2
11	SPIROL PIN	MTD5003192	1
12	LANDING SHOULDER	MTD306009	1
13	LATCH COMPRESSION SPRING	MTD3543812	1
14	SPRING PIN	MTD24548	1
15	HANGER BEARING	MTD18298	1

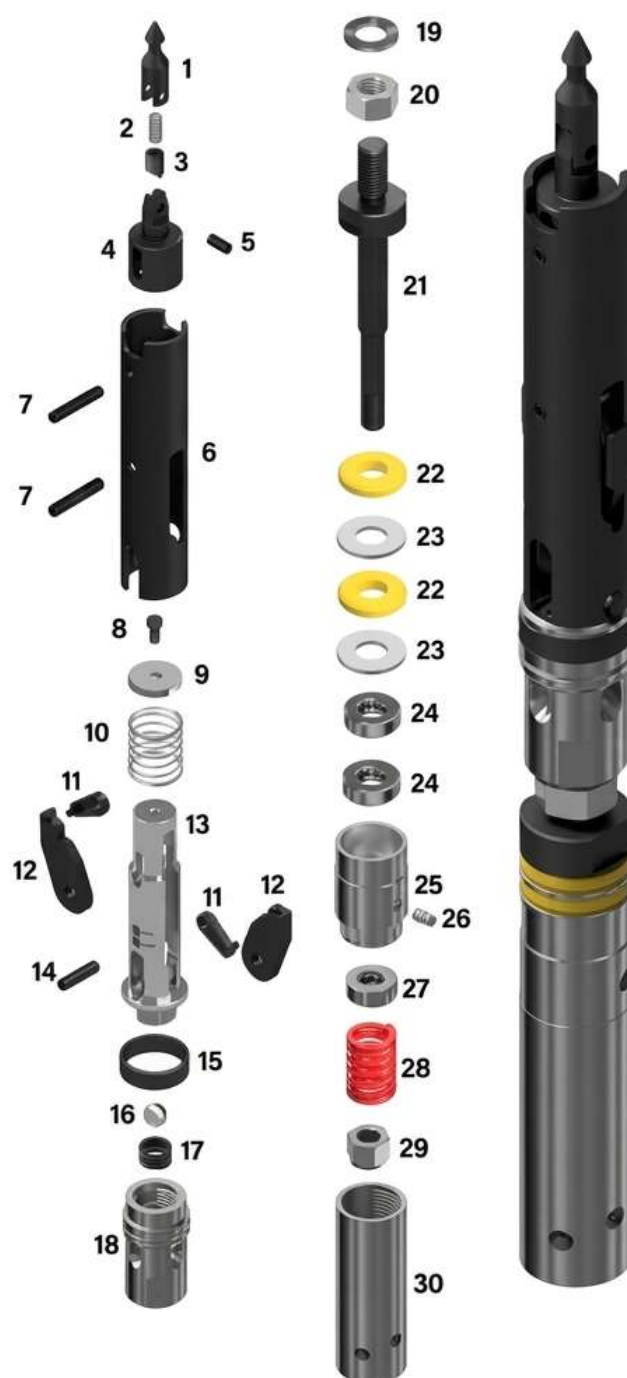


METAL TOOL DRILLING & SERVICES SAC



HEAD ASSEMBLY HO MTD 5001440

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD3547000	1
2	COMPRESSION SPRING	MTD5003191	1
3	DETENT PLUNGER	MTD3547002	1
4	SPEARHEAD BASE	MTD5003193	1
5	SPIROL PIN	MTD5003192	1
6	LATCH RETRACTING CASE	MTD5001332	1
7	SPRING PIN	MTD24524	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD306427	1
10	LATCH COMPRESSION SPRING	MTD3543619	1
11	UPPER LATCH BODY	MTD5001342	1
12	LATCH	MTD104818	2
13	LINK	MTD306216	2
14	SPRING PIN	MTD24305	1
15	STAINLESS STEEL BALL	MTD62374	1
16	INDICATOR BUSHING	MTD62380	1
17	LANDING SHOULDER	MTD104958	1
18	LOWER LATCH BODY	MTD104957	1
19	HEX NUT	MTD44574	1
20	SPINDLE	MTD25231	1
21	SHUT-OFF VALVE HARD	MTD43513	2
22	VALVE ADJUSTING WASHER	MTD25233	2
23	THRUST BEARING	MTD24528	1
24	SPINDLE BEARING	MTD25234	1
25	HANGER BEARING BO	MTD24030	1
26	COMPRESSION SPRING	MTD24529	1
27	STOVER LOCK NUT	MTD5008634	1
28	INNER TUBE CAP ASSEMBLY	MTD40678	1
28A	GREASE FITTING	MTD 17447	1
29B	STAINLESS STEEL BALL 3/4"	MTD 24943	1
30C	CHECK VALVE BODY	MTD 40656	1
19	WASHER, NORD-LOCK 7/8"	MTD 3548105	1

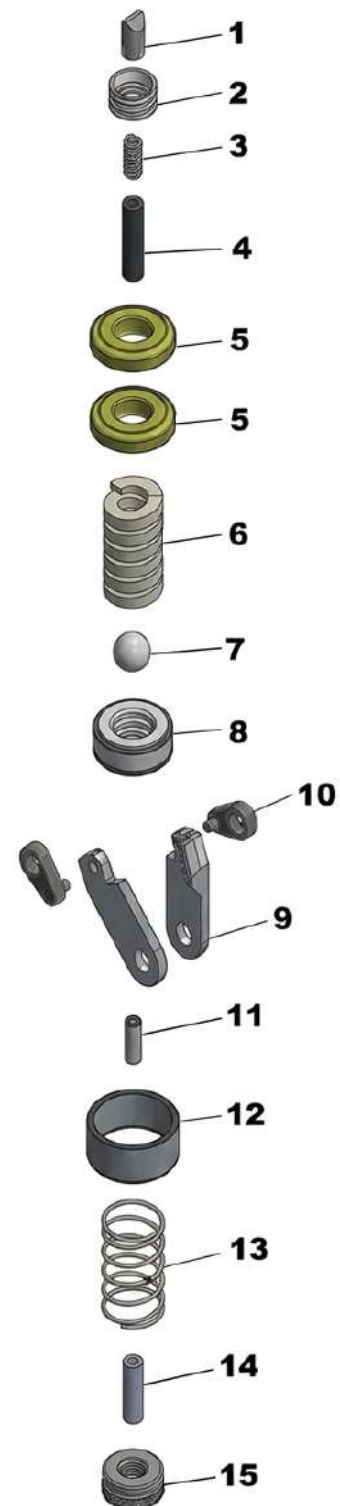


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REPAIR KIT HEAD ASSEMBLY HO MTD 5001440K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD3547002	1
2	INDICATOR BUSHING	MTD62380	1
3	COMPRESSION SPRING	MTD5003191	1
4	SPRING PIN	MTD24524	2
5	SHUT-OFF VALVE HARD	MTD43513	2
6	COMPRESSION SPRING	MTD24529	1
7	STAINLESS STEEL BALL	MTD62374	1
8	HANGER/THRUST BEARING	MTD24528	2
9	LATCH	MTD104818	2
10	LINK	MTD306216	2
11	SPIROL PIN	MTD5003192	1
12	LANDING SHOULDER	MTD104958	1
13	LATCH COMPRESSION SPRING	MTD3543619	1
14	SPRING PIN	MTD24305	1
15	HANGER BEARING	MTD24312	1

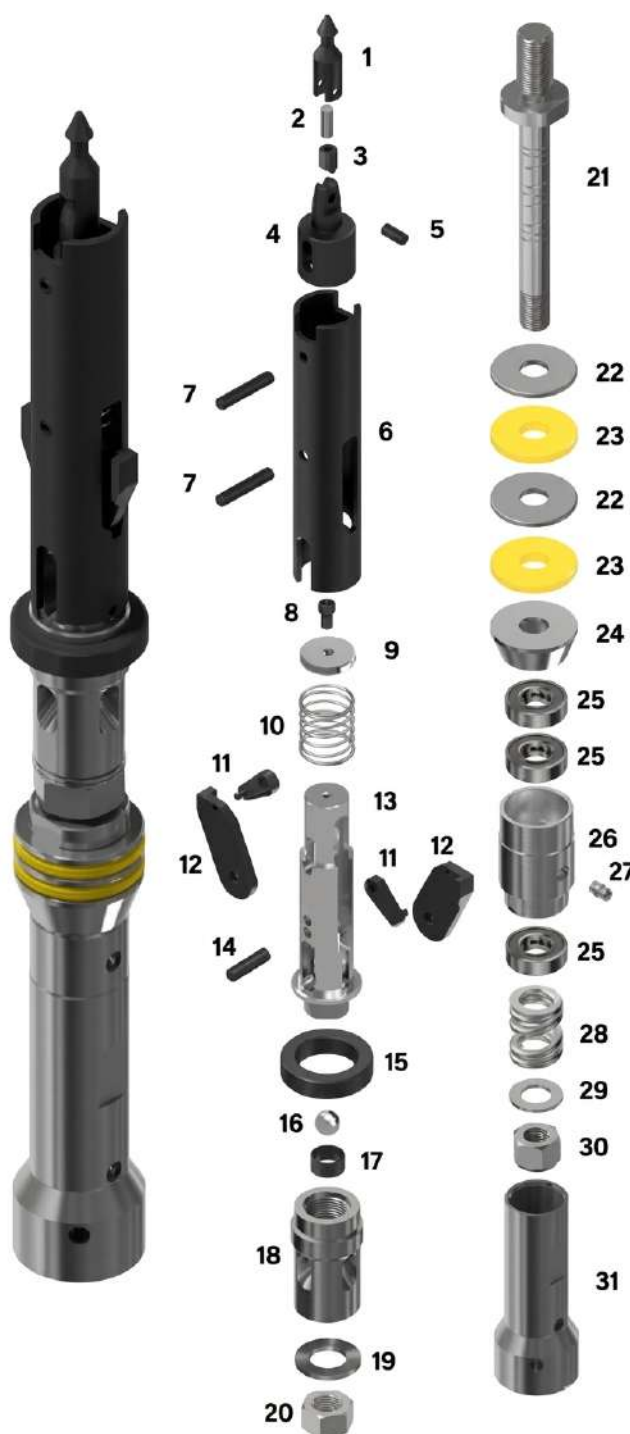


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HEAD ASSEMBLY PO MTD 5001444

ITEM	PART #	DESCRIPCIÓN	QTY
	5001444MKII	Link Latch Head Assembly, PQ	
1-5	5003195	MKII Spearhead Assembly, HQ/PQ	1
6	5001332	Latch Retracting Case, HQ	1
7	24524	Spring Pin 1/2" x 2-3/4"	2
8	3541932	Nylok Bolt 3/8" - 16UNC x 3/4"	1
9	104953	Washer, HQ/PQ	1
10	3543619	Compression Spring, HQ/PQ	1
11	5001342	Upper Latch Body, HQ/PQ	1
12	3543796	Latch, PQ	2
13	306216	Link, HQ	2
14	24305	Spring Pin 1/2" x 2"	1
15	3543797	Landing Shoulder, PQ	1
16	3548544	Valve Piston, HQ/PQ	1
17	3548718	Spirol Pin, 1/4" x 2-3/4"	1
18	306131	Fluid Retention Bushing	1
19	104966	Fluid Retention Spring, Light	1
20	3548072	Lower Latch Body, HQ/PQ	1
21	3545206	Nord-Lock Washer, 1-1/2"	1
22	37475	Hex Nut, 1-1/2" UNC	1
23	3548073	Hollow Spindle, HQ/PQ	1
24	3540308	Shut-Off Valve, PQ, Hard	2
25	3540300	Shut-Off Valve Washer	2
26	3540299	Tapered Shut-Off Washer, PQ	1
27	24528	Thrust Bearing	1
28	3540794	Spindle Bushing, HQ/PQ	1
29	17447	Hydraulic Grease Fitting	1
30	3540755	Compression Spring	1
31	3544324	Flat Washer, 1-1/4"	1
32	103062	Locking Nut, 1-1/4" Nylok	1
33	3540745	Check Valve Body, HQ/PQ	1
34	62374	Ball, 22 mm	1
35	100865	Spirol Pin, 3/16" x 1-3/4"	1
36	3540737	Valve Bushing, HQ/PQ	1
37	3543804	Inner-tube Cap, PQ	1

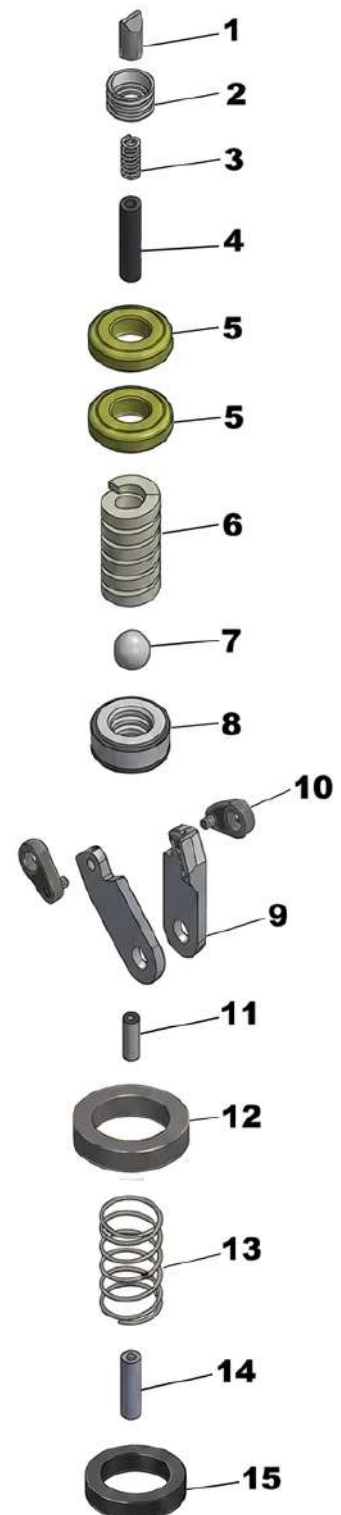


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REPAIR KIT HEAD ASSEMBLY PO MTD 3543862K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD3547002	1
2	INDICATOR BUSHING	MTD62380	1
3	COMPRESSION SPRING	MTD5003191	1
4	SPRING PIN	MTD24524	2
5	SHUT-OFF VALVE HARD	MTD3540308	2
6	COMPRESSION SPRING	MTD24529	1
7	STAINLESS STEEL BALL	MTD62374	1
8	HANGER/THRUST BEARING	MTD24528	2
9	LATCH	MTD3543796	2
10	LINK	MTD306216	2
11	SPIROL PIN	MTD5003192	1
12	LANDING SHOULDER	MTD3543797	1
13	LATCH COMPRESSION SPRING	MTD3543619	1
14	SPRING PIN	MTD24305	1
15	HANGER BEARING	MTD24312	1



3. OVERSHOT ASSEMBLY MECHANICAL



- AOU
- BOU
- NOU
- HOU
- POU

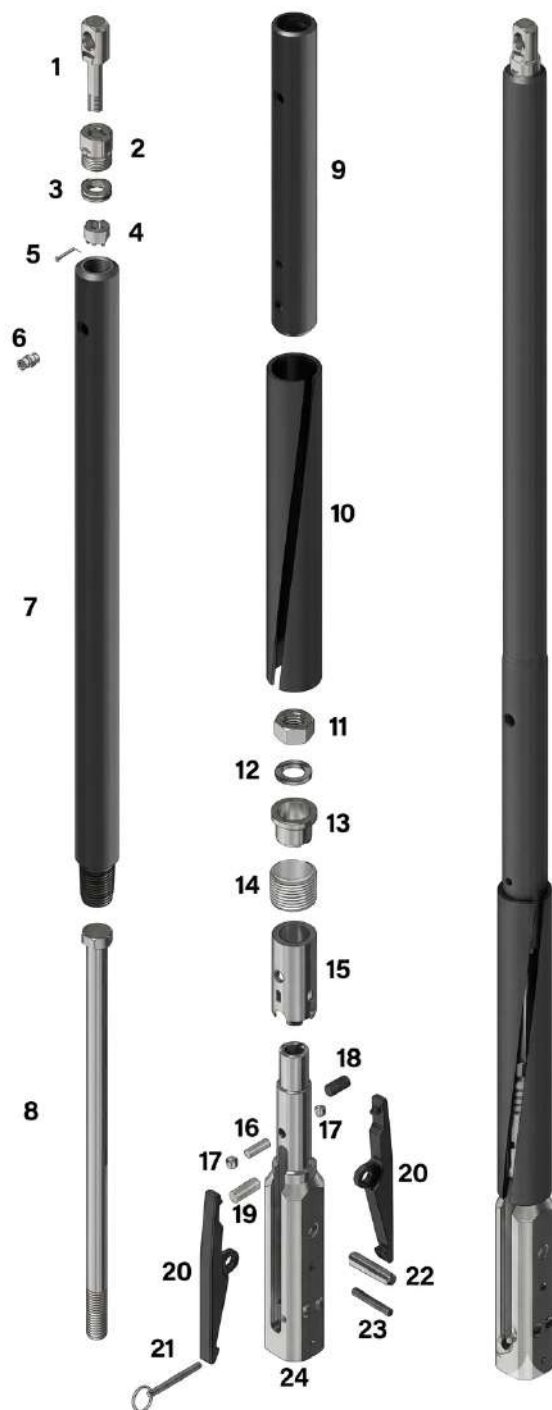


METAL TOOL DRILLING & SERVICES SAC



BQ™ / BQ™TK EZY-LOCK™ OVERSHOT ASSEMBLY 3546822

ID #	PART #	DESCRIPCIÓN	QTy	KG	LB
	3546822	BQ / BQTK EZy-Lock Overshot Assembly		15.58	34.27
1	MTD25991	BOLT CABLE SWIVEL EYE	1	0.11	0.24
2	MTD25990	COLLAR CABLE SWIVEL	1	0.11	0.24
3	MTD25986	BEARING BALL THRUST	1	0.01	0.02
4	MTD25985	NUT CASTLE HEX 1/2" UNF	1	0.02	0.04
5	MTD44615	COTTER PIN, 3/32" x 3/4"	1	0.01	0.02
6	MTD17447	FITTING HYD GREASE	1	0.01	0.02
7	MTD44434	CABLE SWIVEL BODY, BQ	1	5.15	11.33
8	MTD3546821	JAR STAFF, BQ	1	0.32	0.70
9	MTD44435	JAR TUBE, BQ	1	1.61	3.54
10	MTD15575	HEX NUT, 9/16"	1	0.20	0.44
11	MTD3548184	NORD-LOCK WASHER, 9/16"	1	0.01	0.02
12	MTD3546823	O/SHOT CAP, BQ, EZY-LOCK	1		
13	MTD3544104	O/SHOT SPRING, BQ, EZY-LOCK	1	0.02	0.04
14	MTD3546883	O/SHOT SLEEVE, BQ, EZY-LOCK	1		
15	MTD3545053	COMPRESSION SPRING	1	0.01	0.02
16	MTD3543772	BALL, 11/32"	2	0.02	0.04
17	MTD3546825	O/SHOT HEAD, BQ, EZY-LOCK	1	1.16	2.55
18	MTD6951	LIFTING DOG SPRING	1	0.02	0.04
19	MTD6950	LIFTING DOG O/SHOT BO	2	0.32	0.70
20	MTD5007836	PRESS PIN, 1/2" x 1 1/2"	1	0.05	0.11
21	MTD29073	SPIROL PIN, 3/16" x 1 3/8"	1	0.01	0.02
22	MTD3546747	LOCK LOCKING PIN	1	0.03	0.06
23	MTD3545073	NYLOK SET SCREW, 3/8" x 3/4"	1	6.00	13.20
24	MTD15575	LOCKING SLEEVE, BQ	1	0.70	1.54

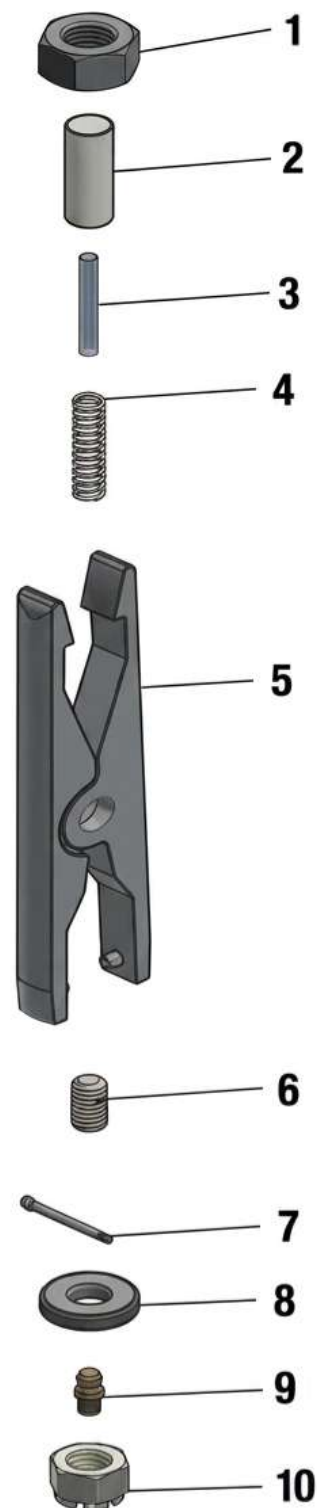


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY BO MTD 3547249K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
3	THRUST BEARING	MTD25986	1
4	CASTLE HEX NUT, 1/2 UNF	MTD25985	1
5	COTTER PIN, 3/32" x 3/4"	MTD44615	2
6	HYDRAULIC GREASE FITTING	MTD17447	1
15	COMPRESSION SPRING	MTD3545053	2
10	HEX NUT 9/16" UNC	MTD62904	1
16	BALL 11/32"	MTD3543772	2
18	LIFTING DOG SPRING	MTD6951	1
19	LIFTING DOG, BQ	MTD6950	2
20	FIT PIN, 1/2" x 1 1/2"	MTD5007836	1
21	SPIROL PIN, 3/16" x 1 3/8"	MTD29073	1
22	LOCKING PIN	MTD3546747	1
23	NYLOK SET SCREW	MTD3545073	1

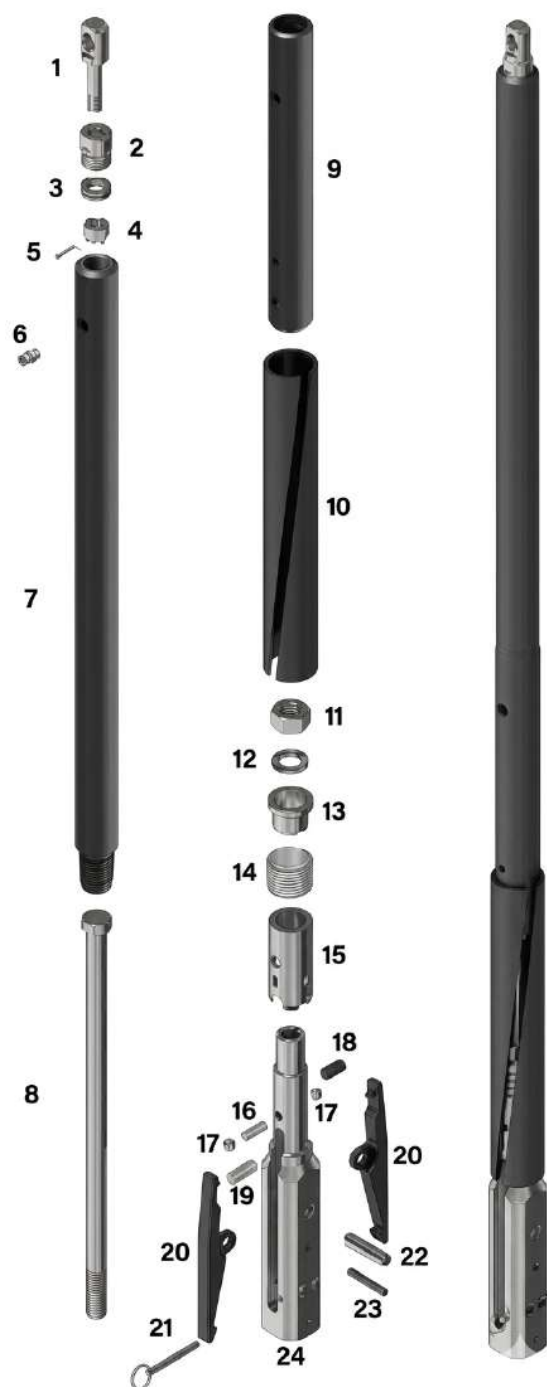


METAL TOOL DRILLING & SERVICES SAC



NQ™/NQ™TK/NQ™3 EZY-LOCK™ OVERSHOT ASSEMBLY 3546744

ID #	PART #	DESCRIPCIÓN	QTy	KG	LB
	3546744	NQ/NQTK/NQ3 EZy-Lock Over-Shot Assembly		22.76	50.06
1	MTD25991	BOLT CABLE SWIVEL EYE	1	0.11	0.24
2	MTD25990	COLLAR CABLE SWIVEL	1	0.11	0.24
3	MTD25986	BEARING BALL THRUST	1	0.01	0.02
4	MTD25985	NUT CASTLE HEX 1/2" UNF	1	0.02	0.04
5	MTD44615	COTTER PIN, 3/32" x 3/4"	1	0.01	0.02
6	MTD17447	FITTING HYD GREASE	1	0.01	0.02
7	MTD44444	CABLE SWIVEL BODY, NQ	1	7.23	15.91
8	MTD3540516	JAR STAFF, NQ	1	1.02	2.24
9	MTD3540515	JAR TUBE, NQ	1	2.81	6.18
10	MTD44524	HEX NUT, 3/4" UNC	1	0.05	0.11
11	MTD3548178	NORD-LOCK WASHER, 3/4"	1	0.01	0.02
12	MTD3544103	O/SHOT CAP, NQ, EZY-LOCK	1	0.09	0.20
13	MTD3544105	O/SHOT SPRING, NQ, EZY-LOCK	1	0.03	0.06
14	MTD3546745	O/SHOT SLEEVE, NQ, EZY-LOCK	1	0.36	0.80
15	MTD6951	COMPRESSION SPRING	1	0.02	0.04
16	MTD3543772	BALL, 11/32"	2	0.02	0.04
17	MTD3546746	O/SHOT HEAD, NQ, EZY-LOCK	1	2.66	5.85
18	MTD3542027	LIFTING DOG SPRING	1	0.01	0.02
19	MTD3540529	LIFTING DOG O/SHOT NQ	2	0.54	1.19
20	MTD5007833	PRESS PIN, 1/2" x 1 15/16"	1	0.05	0.11
21	MTD37394	SPIROL PIN, 1/4" x 1 3/4"	1	0.01	0.02
22	MTD3546747	LOCK LOCKING PIN	1	0.03	0.06
23	MTD3545073	NYLOK SET SCREW, 3/8" x 3/4"	1	6.00	13.20
24	MTD15965	LOCKING SLEEVE, NQ	1	1.56	3.43

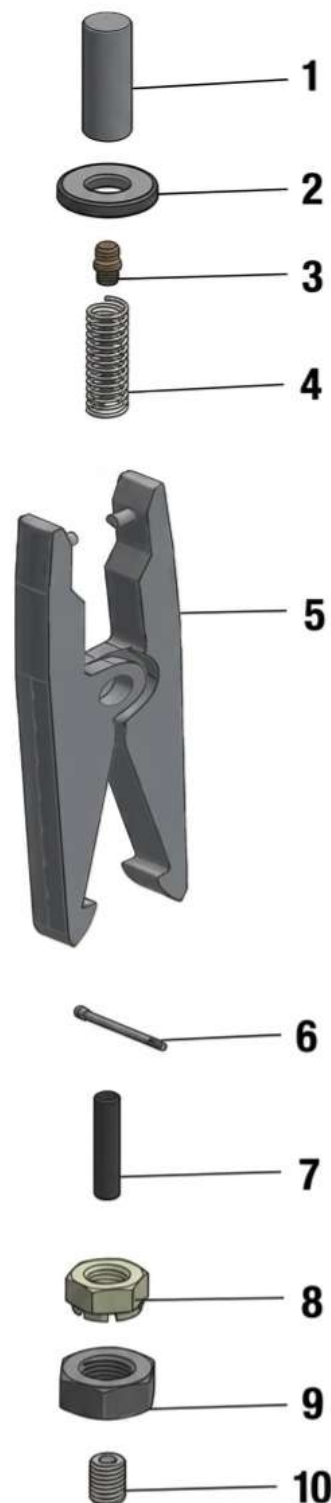


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY NO MTD 3542588K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	THRUST BEARING	MTD25986	1
2	CASTLE HEX NUT, 1/2" UNF	MTD25985	1
3	COTTER PIN, 3/32" x 3/4"	MTD44615	2
4	GREASE FITTING	MTD17447	1
5	HEX NUT, 3/4" UNC	MTD44524	1
6	BALL, 11/32"	MTD3543772	2
7	COMPRESSION	MTD6951	1
8	SPRINGLIFTING DOG SPRING	MTD3542027	1
9	LIFTING DOG NQ	MTD3540529	2
10	FIT PIN, 1/2" x 1 15/16"	MTD5007833	1
11	SPIROL PIN, 1/4" x 1 3/4"	MTD37394	1
12	LOCKING PIN	MTD3546747	1
13	SET SCREW	MTD3545073	1

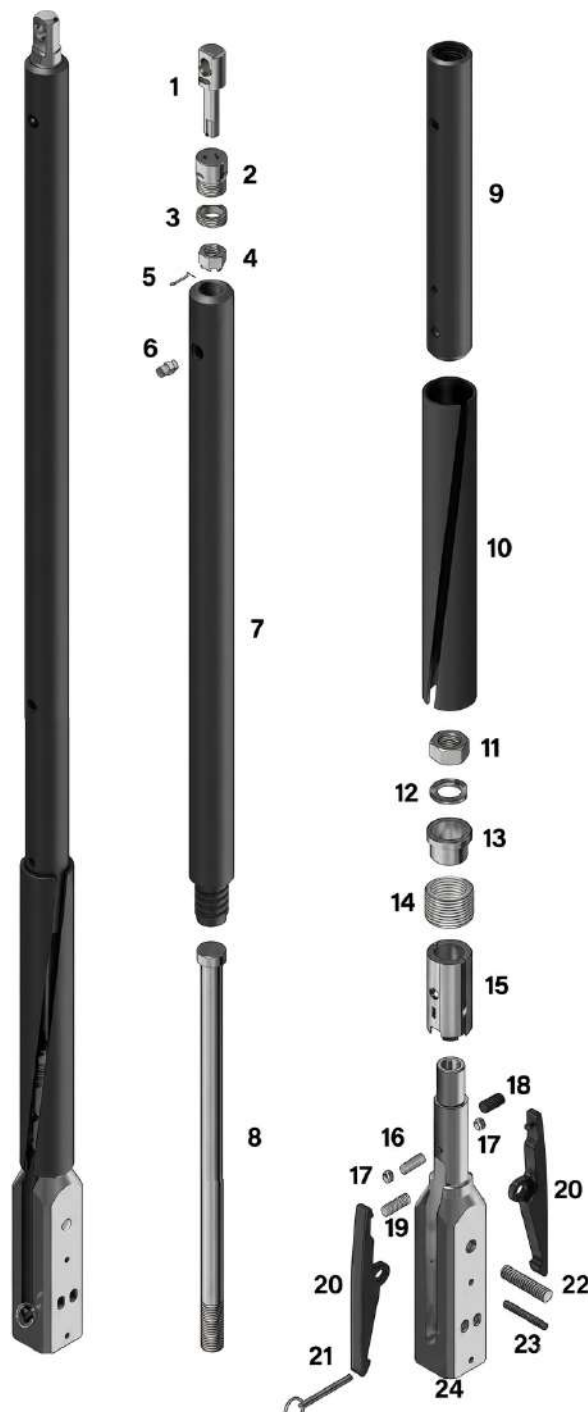


METAL TOOL DRILLING & SERVICES SAC



HQ EZY-LOCK OVER-SHOT ASSEMBLY PART # 3546750

ID #	PART #	DESCRIPCIÓN	QTy	KG	LB
	3546750	HQ EZy-Lock Over-Shot Assembly		25.52	56.15
1	MTD25991	BOLT CABLE SWIVEL EYE	1	0.11	0.24
2	MTD25990	COLLAR CABLE SWIVEL	1	0.11	0.24
3	MTD25986	BEARING BALL THRUST	1	0.01	0.02
4	MTD25985	NUT CASTLE HEX 1/2" UNF	1	0.02	0.04
5	MTD44615	COTTER PIN, 3/32" x 3/4"	1	0.01	0.02
6	MTD17447	FITTING HYD GREASE	1	0.01	0.02
7	MTD44444	CABLE SWIVEL BODY, HQ	1	7.23	15.91
8	MTD3540516	JAR STAFF, HQ	1	1.02	2.24
9	MTD3540515	JAR TUBE, HQ	1	2.81	6.18
10	MTD44524	HEX NUT, 3/4" UNC	1	0.05	0.11
11	MTD3548178	NORD-LOCK WASHER, 3/4"	1	0.01	0.02
12	MTD3544103	O/SHOT CAP, HQ, EZY-LOCK	1	0.09	0.20
13	MTD3544105	O/SHOT SPRING, HQ, EZY-LOCK	1	0.03	0.06
14	MTD3546745	O/SHOT SLEEVE, HQ, EZY-LOCK	1	0.36	0.80
15	MTD6951	COMPRESSION SPRING	1	0.02	0.04
16	MTD3543772	BALL, 11/32"	2	0.02	0.04
17	MTD3546748	O/SHOT HEAD, HQ, EZY-LOCK	1	5.45	12.00
18	MTD3542027	LIFTING DOG SPRING	1	0.01	0.02
19	MTD3540529	LIFTING DOG O/SHOT NQ	2	0.54	1.19
20	MTD5007834	PRESS PIN, 1/2" x 2 1/8"	1	0.02	0.04
21	MTD24307	SPIROL PIN, 1/4" x 1 3/4"	1	0.01	0.02
22	MTD3546747	LOCK LOCKING PIN	1	0.03	0.06
23	MTD3545073	NYLOK SET SCREW, 3/8" x 3/4"	1	6.00	13.20
24	MTD15965	LOCKING SLEEVE, NQ	1	1.56	3.43

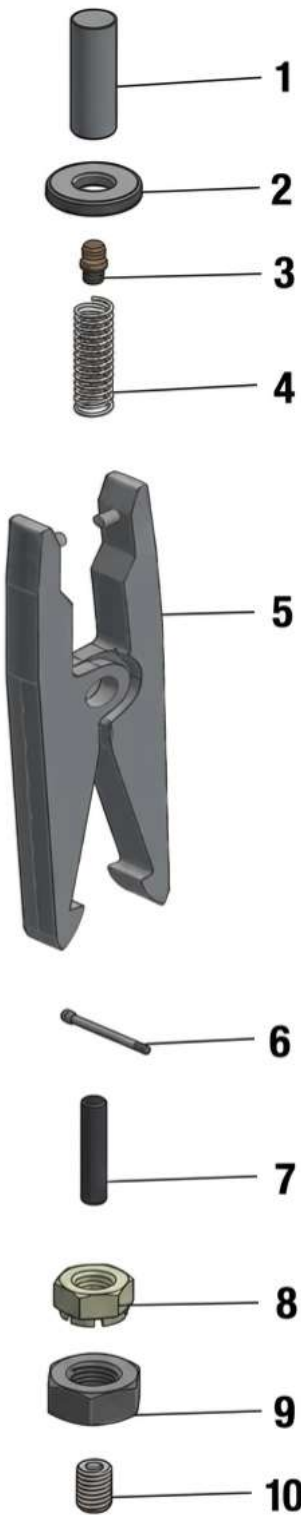


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY HO MTD 3542589K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	THRUST BEARING	MTD25986	1
2	CASTLE HEX NUT, 1/2" UNF	MTD25985	1
3	COTTER PIN, 3/32" x 3/4"	MTD44615	2
4	GREASE FITTING	MTD17447	1
5	HEX NUT, 3/4" UNC	MTD44524	1
6	BALL, 11/32"	MTD3543772	2
7	COMPRESSION	MTD6951	1
8	SPRINGLIFTING DOG SPRING	MTD3542027	1
9	LIFTING DOG NQ	MTD3540529	2
10	FIT PIN, 1/2" x 1 15/16"	MTD5007834	1
11	SPIROL PIN, 1/4" x 1 3/4"	MTD24307	1
12	LOCKING PIN	MTD3546747	1
13	SET SCREW	MTD3545073	1

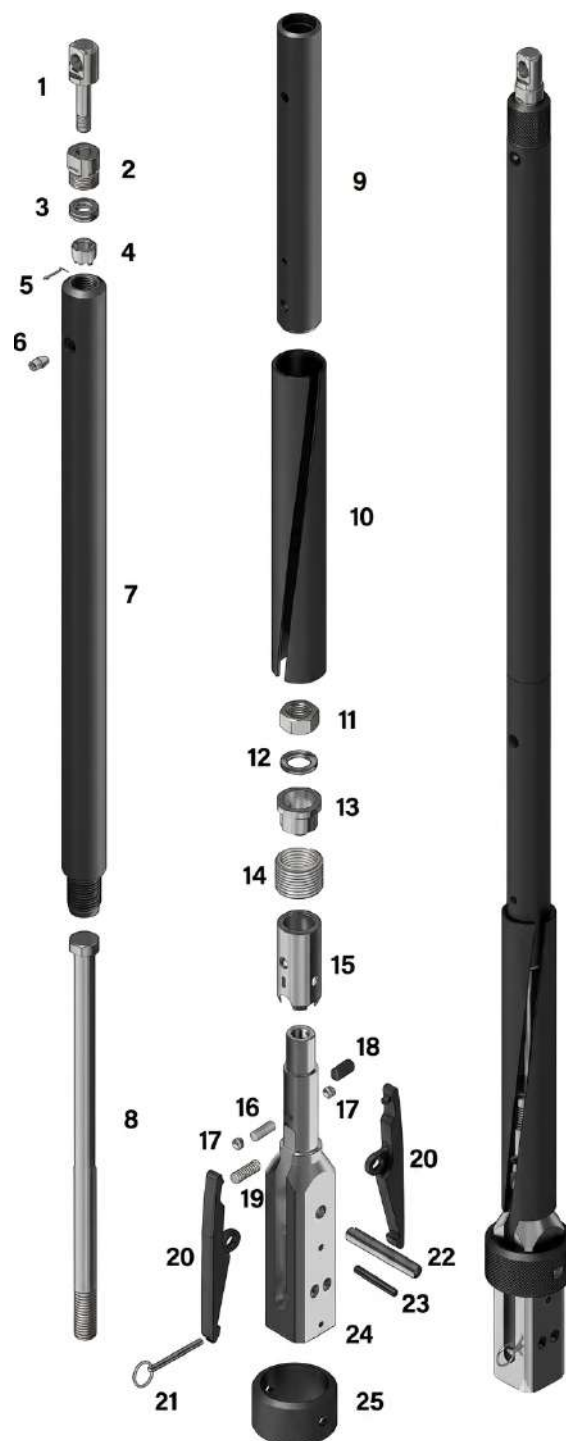


METAL TOOL DRILLING & SERVICES SAC



PQ™ EZY-LOCK™ OVERSHOT ASSEMBLY 3546750

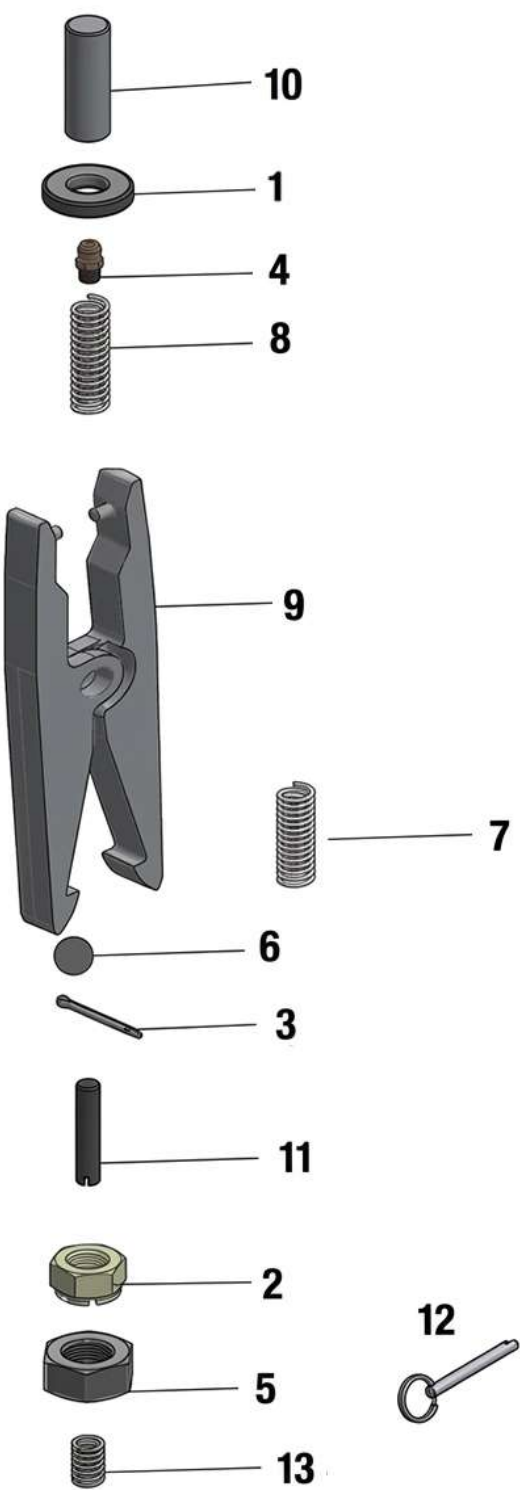
ID #	PART #	DESCRIPCIÓN	QTy	KG	LB
	3546750	HQ EZy-Lock Over-Shot Assembly		25.52	56.15
1	MTD25991	Bolt, Cable Swivel Eye	1	0.11	0.24
2	MTD25990	Cable Swivel Collar	1	0.11	0.24
3	MTD25986	Thrust Bearing	1	0.01	0.02
4	MTD25985	Castle Hex Nut, 1/2" UNF	1	0.02	0.04
5	MTD44615	Cotter Pin, 3/32" x 3/4"	1	0.01	0.02
6	MTD17447	Hydraulic Grease Fitting	1	0.01	0.02
7	MTD44444	Cable Swivel Body	1	7.23	15.91
8	MTD3540516	Jar Staff	1	1.02	2.24
9	MTD3540515	Jar Tube	1	2.81	6.18
10	MTD44524	Hex Nut, 3/4" UNC	1	0.05	0.11
11	MTD3548178	Washer, 3/4" Nord-Lock	1	0.01	0.02
12	MTD3544103	Over-Shot Cap, EZY-Lock	1	0.09	0.20
13	MTD3544105	Over-Shot Spring, EZY-Lock	1	0.03	0.06
14	MTD3546745	Over-Shot Sleeve, EZY-Lock	1	0.36	0.80
15	MTD6951	Compression Spring	1	0.02	0.04
16	MTD3543772	Ball 11/32"	2	0.02	0.04
17	MTD3546748	Over-Shot Head, HQ, EZY-Lock	1	5.45	12.00
18	MTD3542027	Lifting Dog Spring	1	0.01	0.02
19	MTD3540529	Lifting Dog	2	0.54	1.19
20	MTD5007834	Plain Pin 1/2" x 2-1/8"	1	0.02	0.04
21	MTD24307	Spirol Pin 1/4" x 2"	1	0.01	0.02
22	MTD3546747	Locking Pin	1	0.03	0.06
23	MTD3545073	Nylok Set Screw, 3/8" UNF x 3/4"	1	6.00	13.20
24	MTD15965	Slotted Locking Sleeve	1	1.56	3.43
25	MTD3541072	PQ Overshot Head Sleeve	3	0.15	0.33
	MTD3543855	HQ/PQ/PQ3 Dry Hole Lowering Kit		0.26	0.57
26	MTD3543854	Dry Hole Over-Shot Cap, HQ	1	0.09	0.20
27	MTD35788	Spring Pin 1/4" x 5/8"	2	0.02	0.04
28	MTD19464	Flat Washer, 1" SAE	3	3.43	0.33



METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY PO MTD 5007839K			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	THRUST BEARING	MTD25986	1
2	CASTLE HEX NUT, 1/2" UNF	MTD25985	1
3	COTTER PIN, 3/32" x 3/4"	MTD44615	2
4	GREASE FITTING	MTD17447	1
5	HEX NUT, 3/4" UNC	MTD44524	1
6	BALL, 11/32"	MTD3543772	2
7	COMPRESSION	MTD6951	1
8	SPRINGLIFTING DOG SPRING	MTD3542027	1
9	LIFTING DOG NQ	MTD3540529	2
10	FIT PIN, 1/2" x 1 15/16"	MTD5007834	1
11	SPIROL PIN, 1/4" x 1 3/4"	MTD24307	1
12	LOCKING PIN	MTD3546747	1
13	SET SCREW	MTD3545073	1
14	O/S HEAD SLEEVE	MTD3541072	1



4. CORE BARREL KIT SELECTION HYDRAULIC



- AOU
- BOU
- NOU
- HOU
- POU



METAL TOOL DRILLING & SERVICES SAC

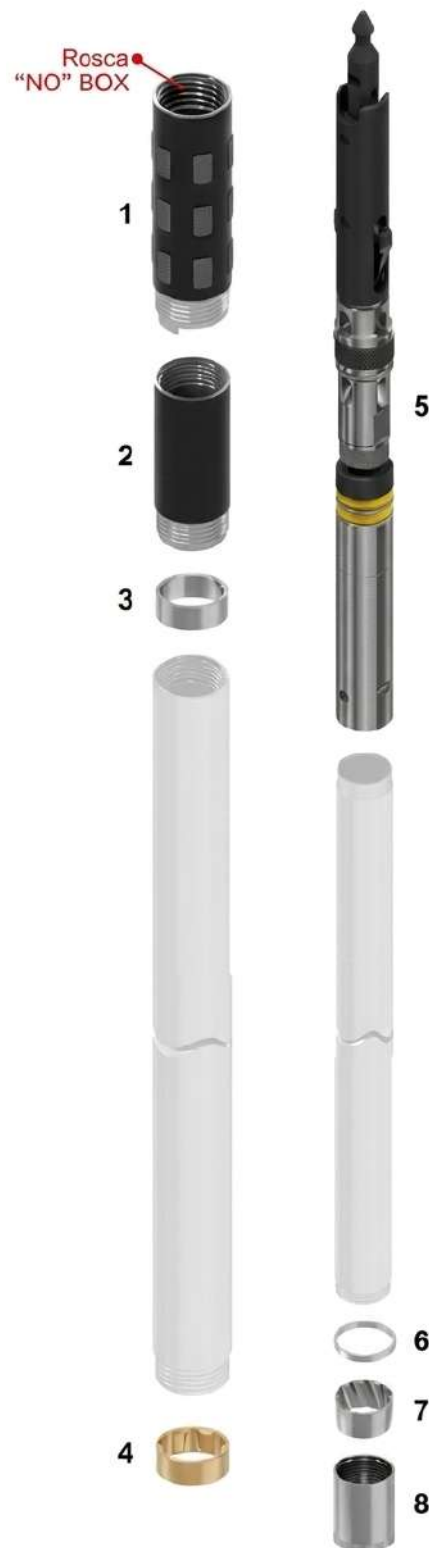


BOU CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	BOU CORE BARREL ASSEMBLY LINK LATCH 3.0 M / 10 FT	MTD3544024	X			
	BOU INNER TUBE GROUP LINK LATCH 3.0 M / 10 FT	MTD3544036		X		
	BOU CORE BARREL ASSEMBLY LINK LATCH 1.5 M / 5 FT	MTD3544018			X	
	BOU INNER TUBE GROUP LINK LATCH 1.5 M / 5 FT	MTD3544030				X
1	BOU HEAD ASSEMBLY LINK LATCH	MTD3544012	X	X	X	X
2	BOU INNER TUBE 3.0 M / 10 FT	MTD24339	X	X		
	BOU INNER TUBE 1.5 M / 5 FT	MTD24356			X	X
3	BOU STOP RING	MTD24831	X	X	X	X
4	BOU CORE LIFTER SLOTTED	MTD30487				
	BOU CORE LIFTER FLUTTED	MTD24342				
5	BOU CORE LIFTER CASE	MTD24830	X	X	X	X
6	BOU LOCKING COUPLING FULL HOLE W/TANG	MTD3545401				
	BOU LOCKING COUPLING CONVENTIONAL W/TANG	MTD62762				
7	BOU ADAPTER COUPLING	MTD3546704	X	X	X	X
8	BOU LANDING RING	MTD24345	X	X	X	X
9	BOU OUTER TUBE 3.0 M / 10 FT	MTD24346	X	X		
	BOU OUTER TUBE 1.5 M / 5 FT	MTD24357			X	X
10	BOU INNER TUBE STABILIZER	MTD44406	X	X	X	X

COMPONENTE ESTANDAR

REQUERIDO - SELECCIONAR UNO



METAL TOOL DRILLING & SERVICES SAC



NOU CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	NO CORE BARREL ASSEMBLY LINK LATCH 3.0 M/10 FT	MTD3544026	X			
	NO INNER TUBE GROUP LINK LATCH 3.0 M /10 FT	MTD3544038		X		
	NO CORE BARREL ASSEMBLY LINK LATCH 1.5 M/ 5 FT	MTD3544020			X	
	NO INNER TUBE GROUP LINK LATCH 1.5 M/5 FT	MTD3544032				X
1	NOU HEAD ASSEMBLY LINK LATCH	MTD3548625	X	X	X	X
2	NOU INNER TUBE 3.0 M / 10 FT	MTD24891	X	X		
	NOU INNER TUBE 1.5 M / 5 FT	MTD24909			X	X
3	NOU STOP RING	MTD24893	X	X	X	X
4	NOU CORE LIFTER SLOTTED	MTD30488				
	NOU CORE LIFTER FLUTTED	MTD24894				
5	NOU CORE LIFTER CASE	MTD24892	X	X	X	X
6	NOU LOCKING COUPLING FULL HOLE W/TANG	MTD3546190				
	NOU LOCKING COUPLING CONVENTIONAL W/TANG	MTD62764				
7	NOU ADAPTER COUPLING	MTD3546706	X	X	X	X
8	NOU LANDING RING	MTD24897	X	X	X	X
9	NOU OUTER TUBE 3.0 M / 10 FT	MTD24898	X	X		
	NOU OUTER TUBE 1.5 M / 5 FT	MTD24910			X	X
10	NOU INNER TUBE STABILIZER	MTD44407	X	X	X	X

	COMPONENTE ESTANDAR
	REQUERIDO - SELECCIONAR UNO



METAL TOOL DRILLING & SERVICES SAC



HOU CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	HOU CORE BARREL ASSEMBLY LINK LATCH 3.0 M/10 FT	MTD3544028	X			
	HOU INNER TUBE GROUP LINK LATCH 3.0 M /10 FT	MTD3544040		X		
	HOU CORE BARREL ASSEMBLY LINK LATCH 1.5 M/ 5 FT	MTD3544022			X	
	HOU INNER TUBE GROUP LINK LATCH 1.5 M/5 FT	MTD3544034				X
1	HOU HEAD ASSEMBLY LINK LATCH	MTD3548750	X	X	X	X
2	HOU INNER TUBE 3.0 M /10 FT	MTD25236	X	X		
	HOU INNER TUBE 1.5 M /5 FT	MTD25258			X	X
3	HOU STOP RING	MTD25238	X	X	X	X
4	HOU CORE LIFTER SLOTTED	MTD30489				
	HOU CORE LIFTER FLUTTED	MTD25239				
5	HOU CORE LIFTER CASE	MTD25237	X	X	X	X
6	HOU LOCKING COUPLING FULL HOLE W/TANG	MTD3545410				
	HOU LOCKING COUPLING CONVENTIONAL W/TANG	MTD62765				
7	HOU ADAPTER COUPLING	MTD3546707	X	X	X	X
8	HOU LANDING RING	MTD25242	X	X	X	X
9	HOU OUTER TUBE 3.0 M/10 FT	MTD25243	X	X		
	HOU OUTER TUB 1.5 M/5 FT	MTD25259			X	X
10	HOU INNER TUBE STABILIZER	MTD44408	X	X	X	X

	COMPONENTE ESTANDAR
	REQUERIDO - SELECCIONAR UNO



METAL TOOL DRILLING & SERVICES SAC



POU CORE BARREL KIT SELECTION

ITEM	DESCRIPCIÓN	CÓDIGO				
	POU CORE BARREL ASSEMBLY LINK LATCH 3.0 M/10 FT	MTD3544028	X			
	POU INNER TUBE GROUP LINK LATCH 3.0 M /10 FT	MTD3544040		X		
	POU CORE BARREL ASSEMBLY LINK LATCH 1.5 M/ 5 FT	MTD3544022			X	
	POU INNER TUBE GROUP LINK LATCH 1.5 M/5 FT	MTD3544034				X
1	POU HEAD ASSEMBLY LINK LATCH	MTD3548750	X	X	X	X
2	POU INNER TUBE 3.0 M /10 FT	MTD25236	X	X		
	POU INNER TUBE 1.5 M /5 FT	MTD25258			X	X
3	POU STOP RING	MTD25238	X	X	X	X
4	POU CORE LIFTER SLOTTED	MTD30489				
	POU CORE LIFTER FLUTTED	MTD25239				
5	POU CORE LIFTER CASE	MTD25237	X	X	X	X
6	POU LOCKING COUPLING FULL HOLE W/TANG	MTD3545410				
	POU LOCKING COUPLING CONVENTIONAL W/TANG	MTD62765				
7	POU ADAPTER COUPLING	MTD3546707	X	X	X	X
8	POU LANDING RING	MTD25242	X	X	X	X
9	POU OUTER TUBE 3.0 M/10 FT	MTD25243	X	X		
	POU OUTER TUB 1.5 M/5 FT	MTD25259			X	X
10	POU INNER TUBE STABILIZER	MTD44408	X	X	X	X

COMPONENTE ESTANDAR

REQUERIDO - SELECCIONAR UNO



5. HEAD ASSEMBLY HYDRAULIC



- AOU
- BOU
- NOU
- HOU
- POU

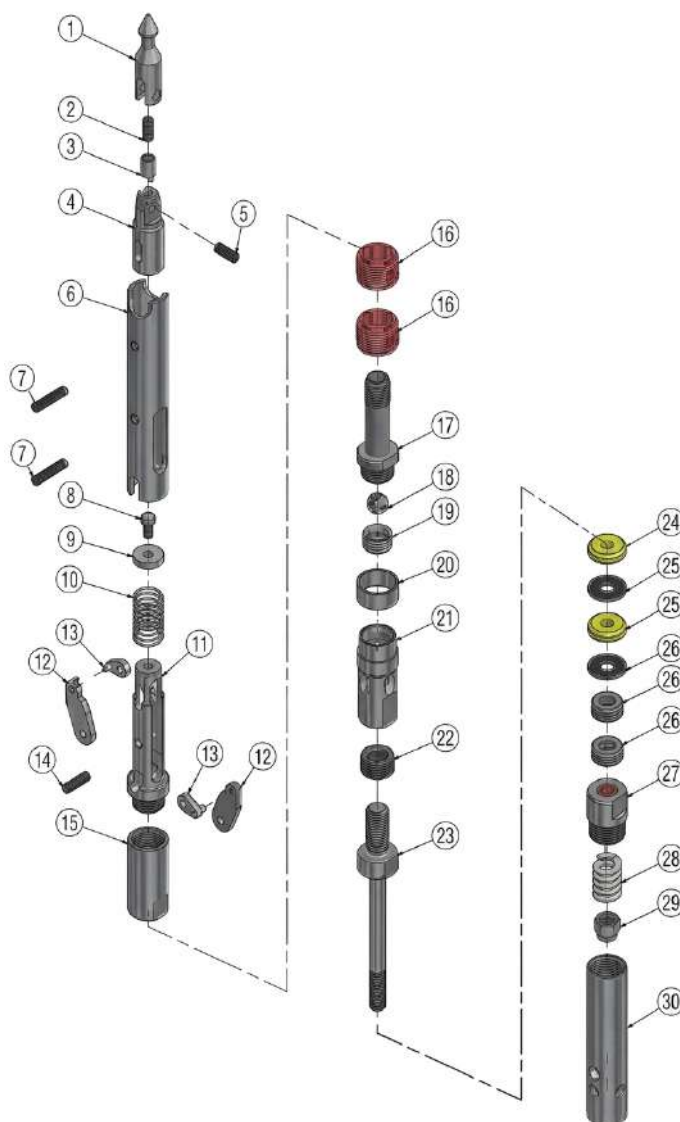


METAL TOOL DRILLING & SERVICES SAC



HEAD ASSEMBLY BOU MTD 3544012

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD5008323-1	1
2	COMPRESSION SPRING	MTD5008323-2	1
3	DETENT PLUNGER	MTD5008323-3	1
4	SPEARHEAD BASE	MTD5008323-4	1
5	SPIROL PIN	MTD5008323-5	1
6	LATCH RETRACTING CASE	MTD3547671	1
7	SPRING PIN	MTD23941	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD306427	1
10	LATCH COMPRESSION SPRING	MTD3541836	1
11	UPPER LATCH BODY	MTD3547725	1
12	LATCH	MTD306417	2
13	LINK	MTD306418	2
14	SPRING PIN	MTD23944	1
15	ADAPTER	MTD3543905	1
16	LIP SEAL PUMP - IN	MTD100690	2
17	SEAT SEAL	MTD3543906	1
18	STAINLESS STEEL BALL	MTD62374	1
19	INDICATOR BUSHING	MTD3543904	1
20	LANDING SHOULDER	MTD306421	1
21	LOWER LATCH BODY	MTD306578	1
22	HEX NUT	MTD44601	1
23	SPINDLE	MTD24331	1
24	SHUT-OFF VALVE HARD	MTD44208	2
25	VALVE ADJUSTING WASHER	MTD24335	2
26	THRUST/HANGER BEARING	MTD24030	2
27	SPINDLE BEARING	MTD24336	1
28	COMPRESSION SPRING	MTD24031	1
29	STOVER LOCK NUT	MTD5008633	1
30	INNER TUBE CAP ASSEMBLY	MTD40655	1

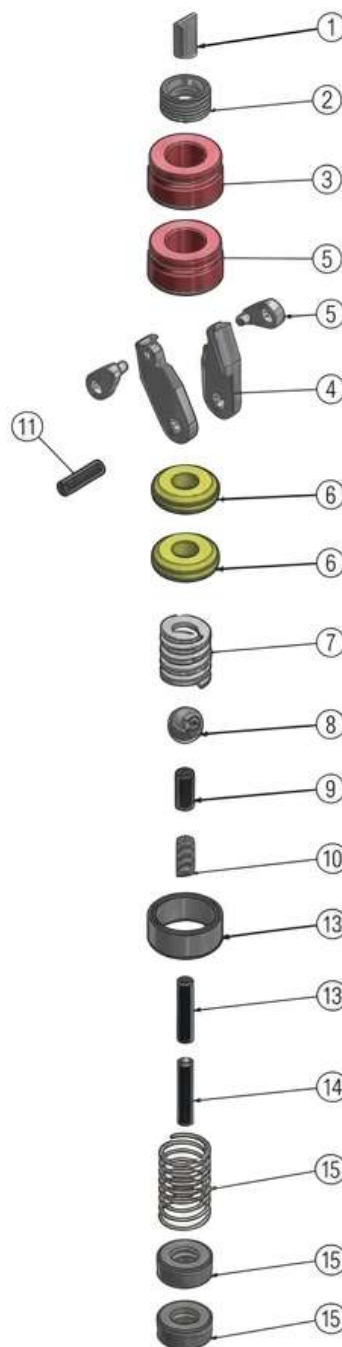


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT HEAD ASSEMBLY BOU MTD 3544012K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER HO/NO/BO	MTD5008323-3	1
2	INDICATOR BUSHING HO/NO/BO	MTD3543904	1
3	LIP SEAL PUMP - IN BOU	MTD100690	2
4	LATCH BO	MTD306417	2
5	LINK BO	MTD306418	2
6	SHUT-OFF VALVE HARD BO	MTD 44208	2
7	COMPRESSION SPRING BO	MTD24031	1
8	STAINLESS STEEL BALL	MTD62374	1
9	SPIROL PIN HO/NO/BO	MTD5008323-4	1
10	COMPRESSION SPRING HO/NO/BO	MTD503200-2	1
11	SPRING PIN BO	MTD23944	1
12	LANDING SHOULDER BO	MTD306421	2
13	SPRING PIN BO	MTD3541932	1
14	LATCH COMPRESSION SPRING BO	MTD3541836	1
15	THRUST/HANGER BEARING BO	MTD24030	2

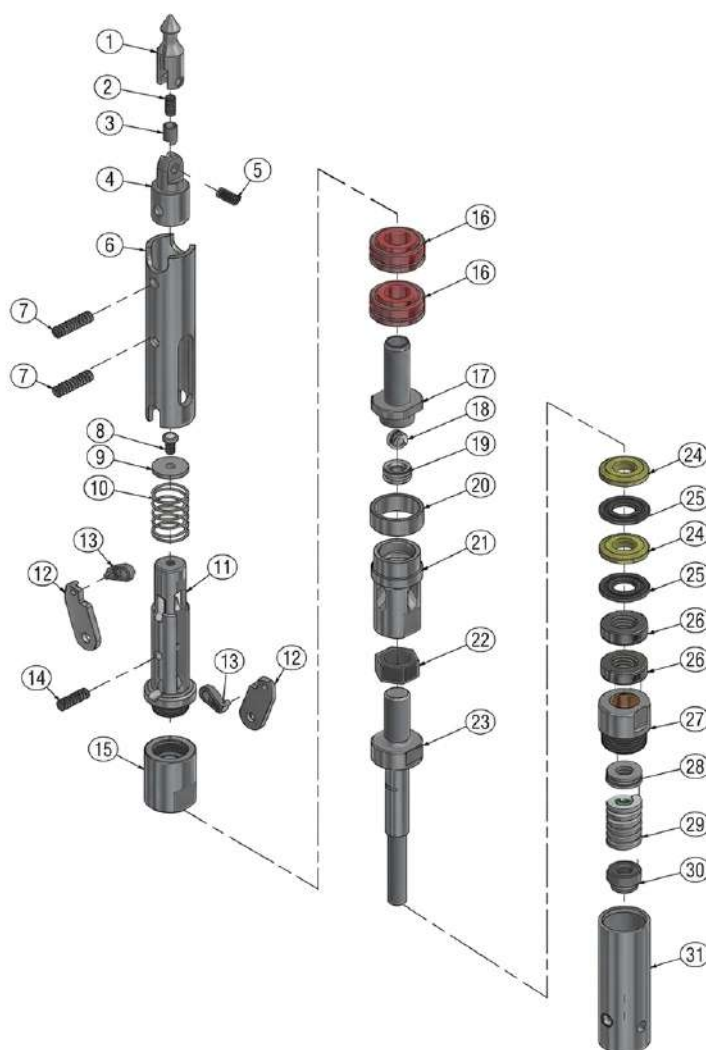


METAL TOOL DRILLING & SERVICES SAC



HEAD ASSEMBLY NOU MTD 3548625

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD5008324-1	1
2	COMPRESSION SPRING	MTD5008324-2	1
3	DETENT PLUNGER	MTD5008324-3	1
4	SPEARHEAD BASE	MTD5008324-4	1
5	SPIROL PIN	MTD5008324-5	1
6	LATCH RETRACTING CASE	MTD3548623	1
7	SPRING PIN	MTD24305	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD306022	1
10	LATCH COMPRESSION SPRING	MTD3543136	1
11	UPPER LATCH BODY	MTD3548336	1
12	LATCH	MTD104816	2
13	LINK	MTD104817	2
14	SPRING PIN	MTD24548	1
15	ADAPTER	MTD3543948	1
16	LIP SEAL PUMP - IN	MTD64302	2
17	SEAT SEAL	MTD3543949	1
18	STAINLESS STEEL BALL	MTD62374	1
19	INDICATOR BUSHING	MTD62380	1
20	LANDING SHOULDER	MTD306009	1
21	LOWER LATCH BODY	MTD306008	1
22	HEX NUT	MTD24885	1
23	SPINDLE	MTD24886	1
24	SHUT-OFF VALVE HARD	MTD44209	2
25	VALVE ADJUSTING WASHER	MTD24888	2
26	HANGER/THRUST BEARING	MTD24312	1
27	SPINDLE BEARING	MTD24889	1
28	HANGER BEARING	MTD18298	1
29	COMPRESSION SPRING	MTD24313	1
30	STOVER LOCK NUT	MTD5008697	1
31	INNER TUBE CAP ASSEMBLY	MTD40664	1



METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT HEAD ASSEMBLY NOU MTD 3548625K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD5008324-3	1
2	INDICATOR BUSHING	MTD3543904	1
3	COMPRESSION SPRING	MTD5008324-2	1
4	LANDING SHOULDER	MTD306009	1
5	LATCH COMPRESSION SPRING	MTD3543136	1
6	SPRING PIN	MTD254548	1
7	STAINLESS STEEL BALL	MTD62374	1
8	HANGER/THRUST BEARING	MTD24312	1
9	SPIROL PIN	MTD5008324-4	1
10	SPRING PIN	MTD24305	2
11	HANGER BEARING	MTD18298	1
12	LATCH	MTD104816	2
13	LINK	MTD104817	2
14	SHUT-OFF VALVE HARD	MTD44209	2
15	COMPRESSION SPRING	MTD24313	1
16	LIP SEAL PUMP - IN	MTD64302	2

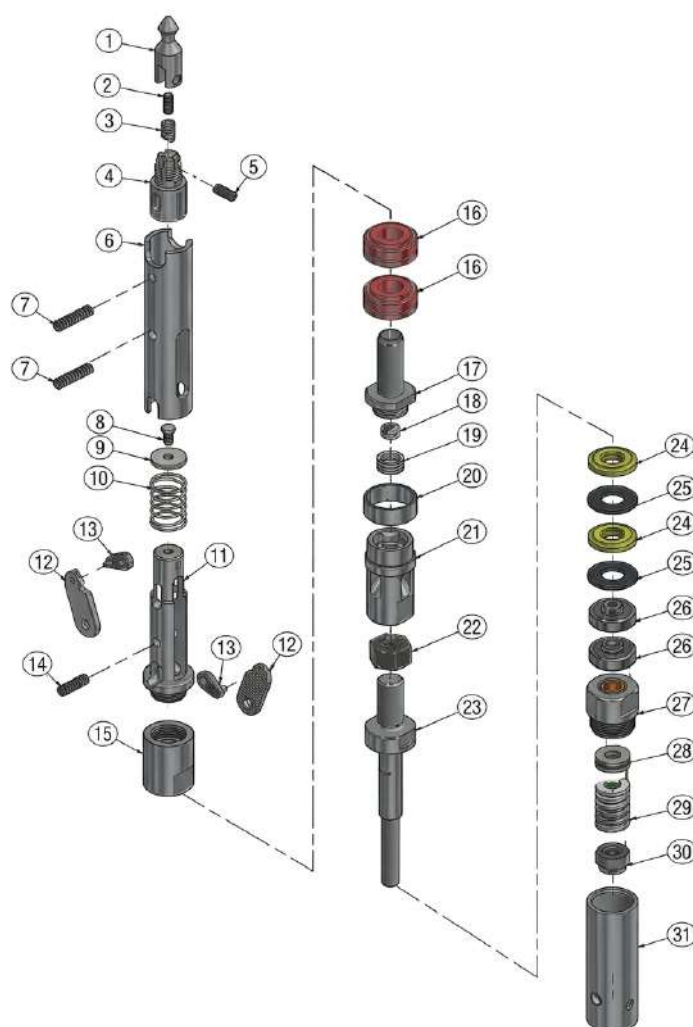


METAL TOOL DRILLING & SERVICES SAC



HEAD ASSEMBLY HOU MTD 3548750

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD5008325-1	1
2	COMPRESSION SPRING	MTD5008325-2	1
3	DETENT PLUNGER	MTD5008325-3	1
4	SPEARHEAD BASE	MTD5008325-4	1
5	SPIROL PIN	MTD5008325-5	1
6	LATCH RETRACTING CASE	MTD3548749	1
7	SPRING PIN	MTD24524	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD104953	1
10	LATCH COMPRESSION SPRING	MTD3548738	1
11	UPPER LATCH BODY	MTD3548546	1
12	LATCH	MTD104818	2
13	LINK	MTD3543999	2
14	SPRING PIN	MTD24305	1
15	ADAPTER	MTD3543995	1
16	LIP SEAL PUMP - IN	MTD100696	2
17	SEAT SEAL	MTD3543997	1
18	STAINLESS STEEL BALL	MTD62374	1
19	INDICATOR BUSHING	MTD3543904	1
20	LANDING SHOULDER	MT104958	1
21	LOWER LATCH BODY	MTD104957	1
22	HEX NUT	MTD44574	1
23	SPINDLE	MTD25231	1
24	SHUT-OFF VALVE HARD	MTD43513	2
25	VALVE ADJUSTING WASHER	MTD25233	2
26	HANGER/THRUST BEARING	MTD24528	2
27	SPINDLE BEARING	MTD25234	1
28	HANGER BEARING	MTD24312	1
29	COMPRESSION SPRING	MTD24529	1
30	STOVER LOCK NUT	MTD5008634	1
31	INNER TUBE CAP ASSEMBLY	MTD40678	1



METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT HEAD ASSEMBLY HOU MTD 3548625K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD5008325-3	1
2	INDICATOR BUSHING	MTD3543904	1
3	COMPRESSION SPRING	MTD5008325-2	1
4	LANDING SHOULDER	MTD104958	1
5	LATCH COMPRESSION SPRING	MTD3548738	1
6	SPRING PIN	MTD24305	1
7	STAINLESS STEEL BALL	MTD62374	1
8	HANGER BEARING	MTD24312	1
9	SPIROL PIN	MTD5008325-5	1
10	SPRING PIN	MTD24524	2
11	HANGER/THRUST BEARING	MTD24528	2
12	LATCH	MTD104818	2
13	LINK	MTD3543999	2
14	SHUT-OFF VALVE HARD	MTD43513	2
15	COMPRESSION SPRING	MTD24529	1
16	LIP SEAL PUMP - IN	MTD100696	2

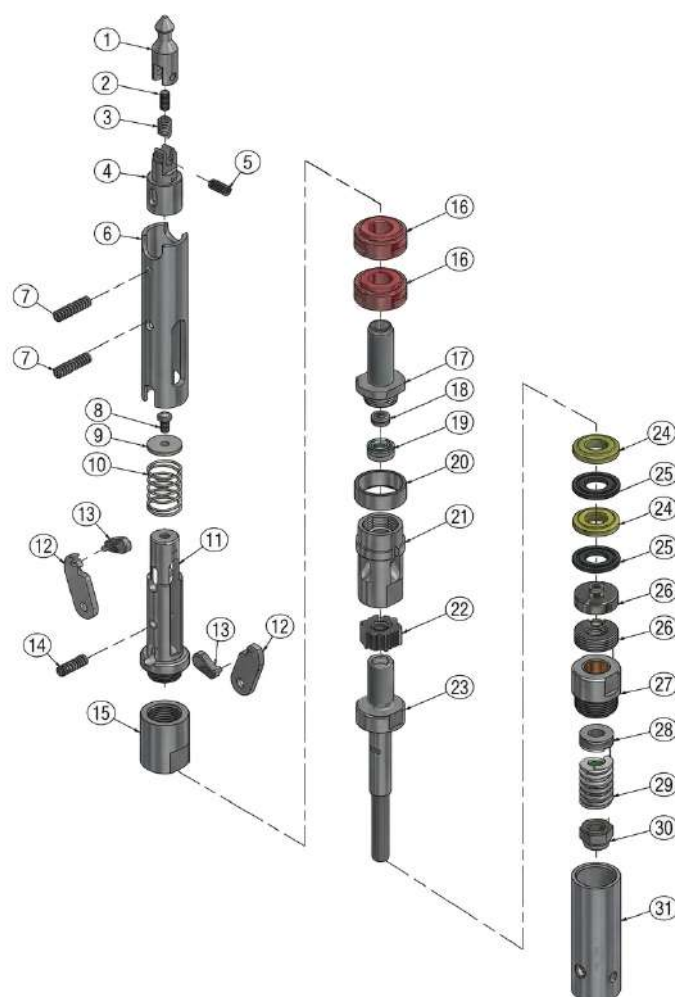


METAL TOOL DRILLING & SERVICES SAC



HEAD ASSEMBLY POU MTD 3548750

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD POINT	MTD5008325-1	1
2	COMPRESSION SPRING	MTD5008325-2	1
3	DETENT PLUNGER	MTD5008325-3	1
4	SPEARHEAD BASE	MTD5008325-4	1
5	SPIROL PIN	MTD5008325-5	1
6	LATCH RETRACTING CASE	MTD3548749	1
7	SPRING PIN	MTD24524	2
8	NYLOK BOLT	MTD3541932	1
9	WASHER	MTD104953	1
10	LATCH COMPRESSION SPRING	MTD3548738	1
11	UPPER LATCH BODY	MTD3548546	1
12	LATCH	MTD104818	2
13	LINK	MTD3543999	2
14	SPRING PIN	MTD24305	1
15	ADAPTER	MTD3543995	1
16	LIP SEAL PUMP - IN	MTD100696	2
17	SEAT SEAL	MTD3543997	1
18	STAINLESS STEEL BALL	MTD62374	1
19	INDICATOR BUSHING	MTD3543904	1
20	LANDING SHOULDER	MT104958	1
21	LOWER LATCH BODY	MTD104957	1
22	HEX NUT	MTD44574	1
23	SPINDLE	MTD25231	1
24	SHUT-OFF VALVE HARD	MTD43513	2
25	VALVE ADJUSTING WASHER	MTD25233	2
26	HANGER/THRUST BEARING	MTD24528	2
27	SPINDLE BEARING	MTD25234	1
28	HANGER BEARING	MTD24312	1
29	COMPRESSION SPRING	MTD24529	1
30	STOVER LOCK NUT	MTD5008634	1
31	INNER TUBE CAP ASSEMBLY	MTD40678	1



METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT HEAD ASSEMBLY POU MTD 3548625K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DETENT PLUNGER	MTD5008325-3	1
2	INDICATOR BUSHING	MTD3543904	1
3	COMPRESSION SPRING	MTD5008325-2	1
4	LANDING SHOULDER	MTD104958	1
5	LATCH COMPRESSION SPRING	MTD3548738	1
6	SPRING PIN	MTD24305	1
7	STAINLESS STEEL BALL	MTD62374	1
8	HANGER BEARING	MTD24312	1
9	SPIROL PIN	MTD5008325-5	1
10	SPRING PIN	MTD24524	2
11	HANGER/THRUST BEARING	MTD24528	2
12	LATCH	MTD104818	2
13	LINK	MTD3543999	2
14	SHUT-OFF VALVE HARD	MTD43513	2
15	COMPRESSION SPRING	MTD24529	1
16	LIP SEAL PUMP - IN	MTD100696	2



6. OVERSHOT ASSEMBLY HYDRAULIC



- AOU
- BOU
- NOU
- HOU
- POU

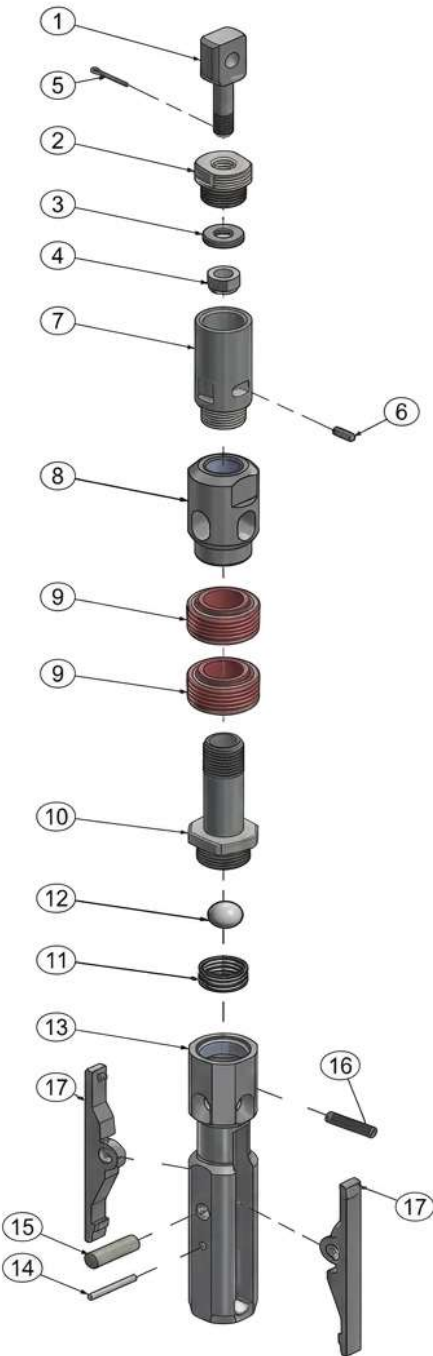


METAL TOOL DRILLING & SERVICES SAC



OVERSHOT ASSEMBLY BOU MTD 3547700

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BOLT CABLE SWIVEL EYE	MTD25991	1
2	COLLAR CABLE SWIVEL	MTD25990	1
3	BEARING BALL THRUST	MTD25986	1
4	NUT CASTLE HEX	MTD25985	1
5	PIN COTTER	MTD44615	1
6	FITTING HYD GREASE	MTD17447	1
7	CABLE SWIVEL BODY	MTD30183	1
8	BODY UPPER	MTD3547807	1
9	LIP SEAL PUMP - IN	MTD100690	2
10	SEAT SEAL	MTD3543906	1
11	INDICATOR BUSHING	MTD62380	1
12	STAINLESS STEEL BALL	MTD62374	1
13	OVERSHOT HEAD	MTD3547848	1
14	PIN PLAIN	MTD29073	1
15	SHEAR PIN	MTD5007836	1
16	COMPRESSION SPRING	MTD6951	1
17	LIFTING DOG O/SHOT	MTD6950	2

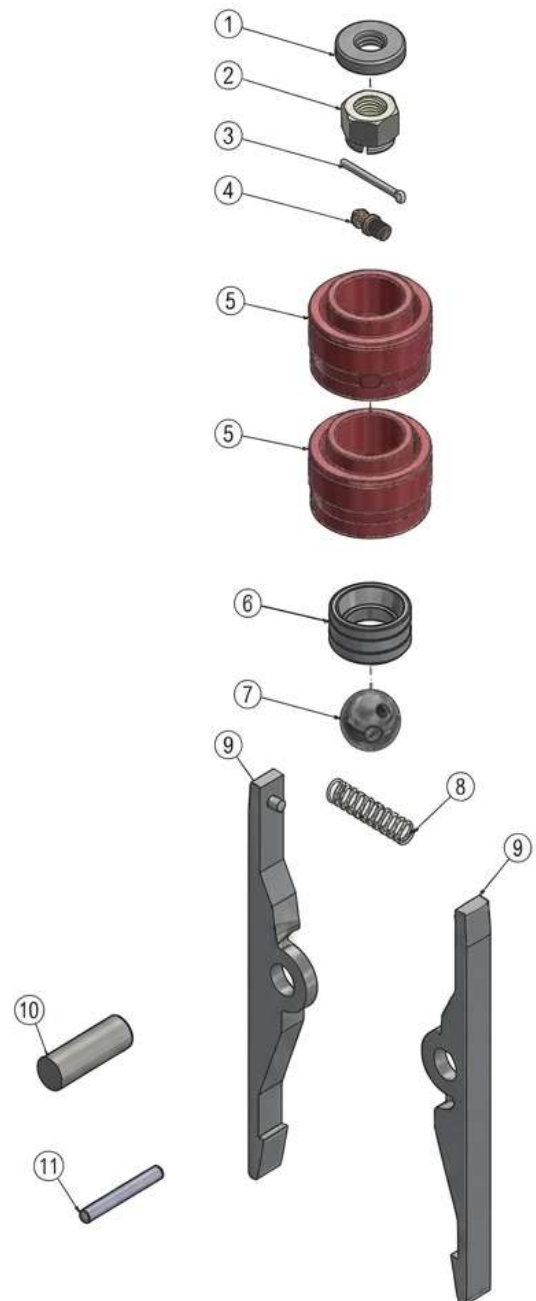


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY BOU MTD 3548057K

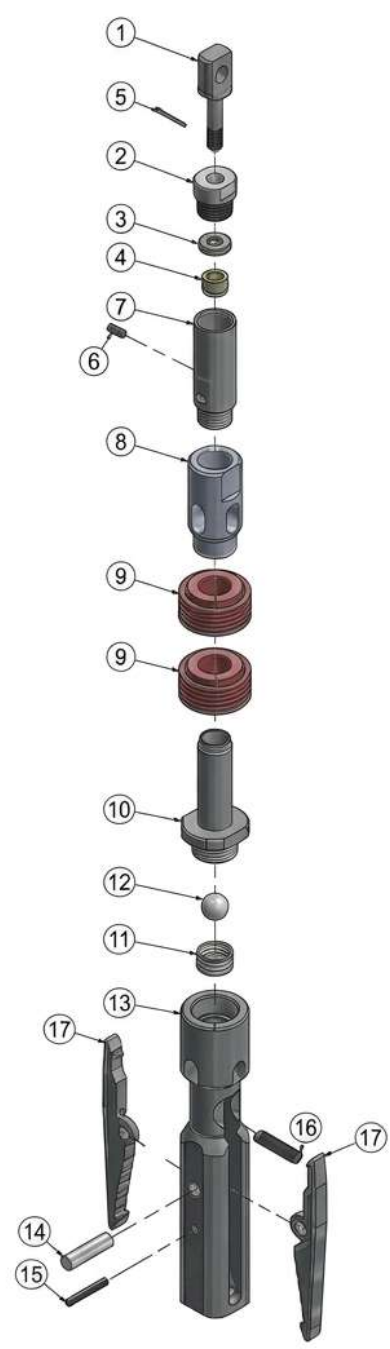
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BEARING BALL THRUST	MTD25986	1
2	NUT CASTLE HEX	MTD25985	1
3	PIN COTTER	MTD44615	1
4	FITTING HYD GREASE	MTD17447	1
5	LIP SEAL PUMP - IN	MTD100690	2
6	INDICATOR BUSHING	MTD62380	1
7	STAINLESS STEEL BALL	MTD62374	1
8	COMPRESSION SPRING	MTD6951	1
9	LIFTING DOG O/SHOT	MTD6950	2
10	PIN PLAIN	MTD5007836	1
11	SHEAR PIN	MTD29073	1



METAL TOOL DRILLING & SERVICES SAC



OVERSHOT ASSEMBLY NOU MTD 5007768			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BOLT CABLE SWIVEL EYE	MTD25991	1
2	COLLAR CABLE SWIVEL	MTD25990	1
3	BEARING BALL THRUST	MTD25986	1
4	NUT CASTLE HEX	MTD25985	1
5	PIN COTTER	MTD44615	1
6	FITTING HYD GREASE	MTD17447	1
7	CABLE SWIVEL BODY	MTD30183	1
8	BODY UPPER	MTD3547849	1
9	LIP SEAL PUMP - IN	MTD5003432	2
10	SEAT SEAL	MTD3543949	1
11	INDICATOR BUSHING	MTD62380	1
12	STAINLESS STEEL BALL	MTD62374	1
13	OVERSHOT HEAD	MTD3547851	1
14	PIN PLAIN	MTD5007833	1
15	SHEAR PIN	MTD37394	1
16	COMPRESSION SPRING	MTD3542027	1
17	LIFTING DOG O/SHOT	MTD3540529	2

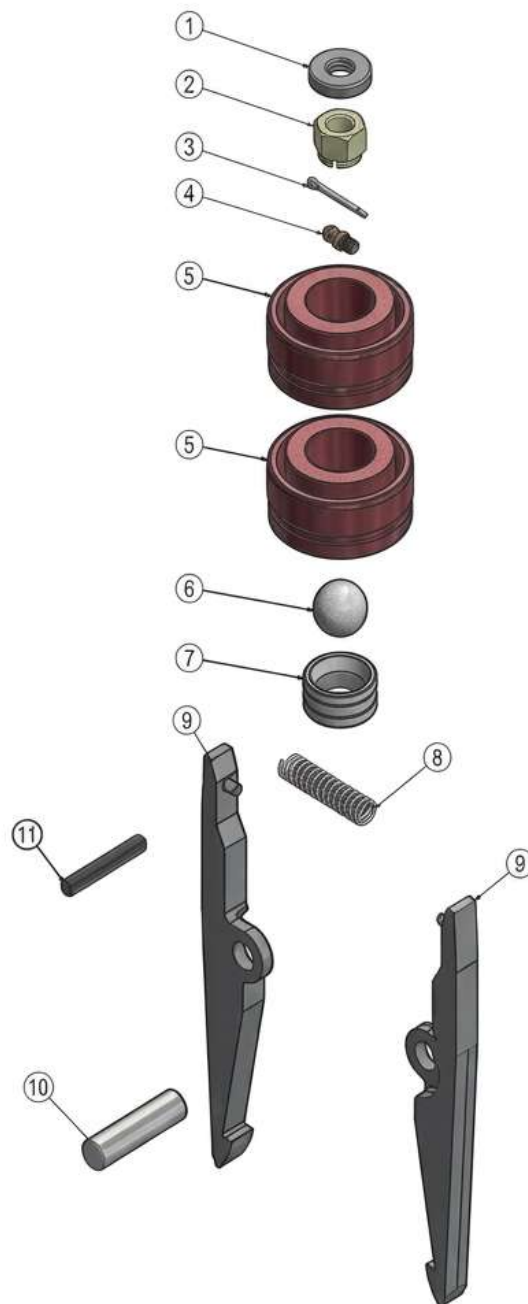


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY NOU MTD 3548059K

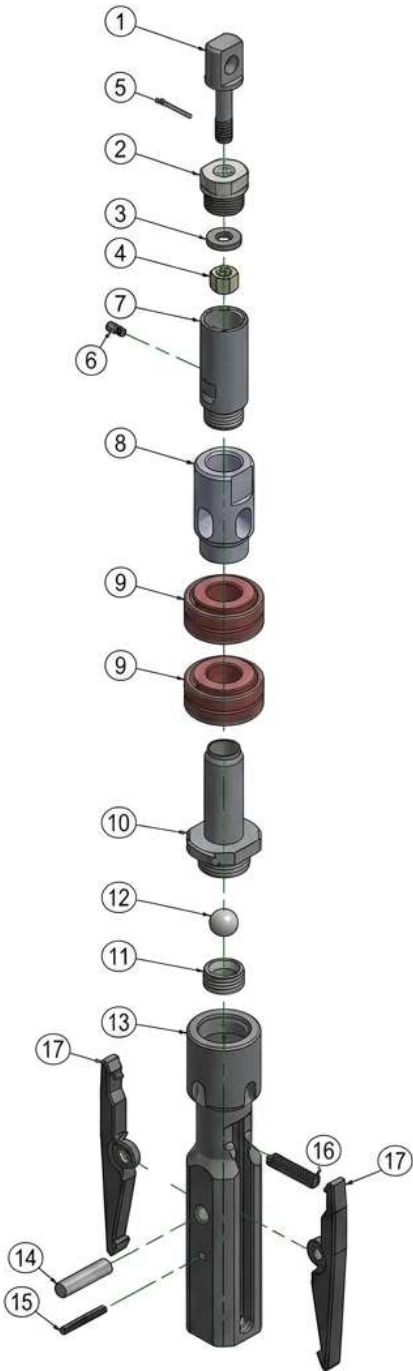
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BEARING BALL THRUST	MTD25986	1
2	NUT CASTLE HEX	MTD25985	1
3	PIN COTTER	MTD44615	1
4	FITTING HYD GREASE	MTD17447	1
5	LIP SEAL PUMP - IN	MTD5003432	2
6	INDICATOR BUSHING	MTD62380	1
7	STAINLESS STEEL BALL	MTD62374	1
8	COMPRESSION SPRING	MTD3542027	1
9	LIFTING DOG O/SHOT	MTD3540529	2
10	PIN PLAIN	MTD5007833	1
11	SHEAR PIN	MTD37394	1



METAL TOOL DRILLING & SERVICES SAC



OVERSHOT ASSEMBLY HOU MTD 5007769			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BOLT CABLE SWIVEL EYE	MTD25991	1
2	COLLAR CABLE SWIVEL	MTD25990	1
3	BEARING BALL THRUST	MTD25986	1
4	NUT CASTLE HEX	MTD25985	1
5	PIN COTTER	MTD44615	1
6	FITTING HYD GREASE	MTD17447	1
7	CABLE SWIVEL BODY	MTD30183	1
8	BODY UPPER	MTD3547853	1
9	LIP SEAL PUMP - IN	MTD5006212	2
10	SEAT SEAL	MTD3543997	1
11	INDICATOR BUSHING	MTD62380	1
12	STAINLESS STEEL BALL	MTD62374	1
13	OVERSHOT HEAD	MTD3547854	1
14	PIN PLAIN	MTD5007834	1
15	SHEAR PIN	MTD24307	1
16	COMPRESSION SPRING	MTD3542027	1
17	LIFTING DOG O/SHOT	MTD3540529	2

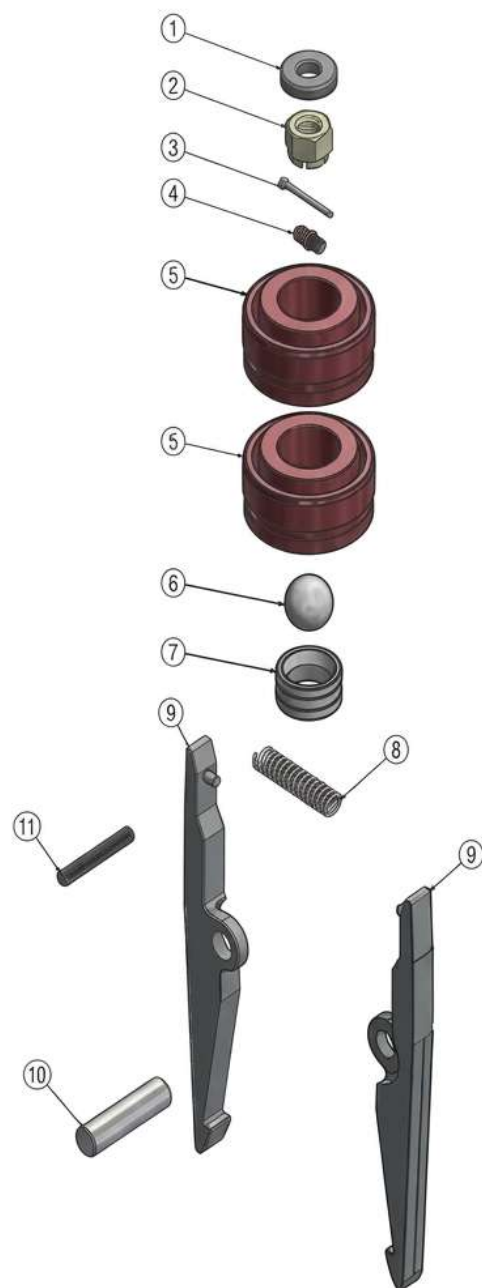


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY HOU MTD 3548060K

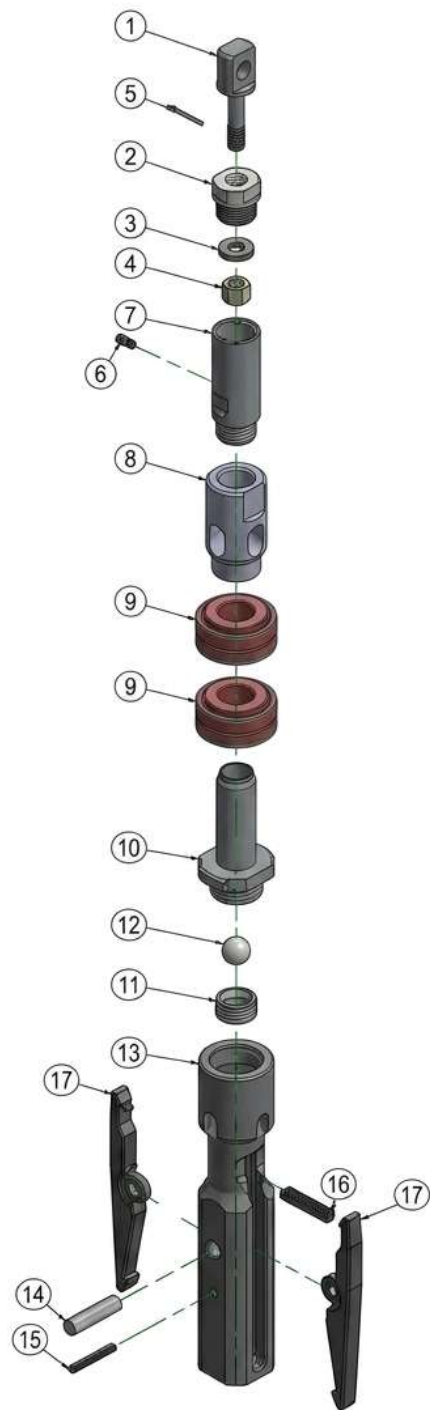
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BEARING BALL THRUST	MTD25986	1
2	NUT CASTLE HEX	MTD25985	1
3	PIN COTTER	MTD44615	1
4	FITTING HYD GREASE	MTD17447	1
5	LIP SEAL PUMP - IN	MTD5006212	2
6	INDICATOR BUSHING	MTD62380	1
7	STAINLESS STEEL BALL	MTD62374	1
8	COMPRESSION SPRING	MTD6542027	1
9	LIFTING DOG O/SHOT	MTD3540529	2
10	PIN PLAIN	MTD5007834	1
11	SHEAR PIN	MTD24307	1



METAL TOOL DRILLING & SERVICES SAC



OVERSHOT ASSEMBLY POU MTD 5007769			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BOLT CABLE SWIVEL EYE	MTD25991	1
2	COLLAR CABLE SWIVEL	MTD25990	1
3	BEARING BALL THRUST	MTD25986	1
4	NUT CASTLE HEX	MTD25985	1
5	PIN COTTER	MTD44615	1
6	FITTING HYD GREASE	MTD17447	1
7	CABLE SWIVEL BODY	MTD30183	1
8	BODY UPPER	MTD3547853	1
9	LIP SEAL PUMP - IN	MTD5006212	2
10	SEAT SEAL	MTD3543997	1
11	INDICATOR BUSHING	MTD62380	1
12	STAINLESS STEEL BALL	MTD62374	1
13	OVERSHOT HEAD	MTD3547854	1
14	PIN PLAIN	MTD5007834	1
15	SHEAR PIN	MTD24307	1
16	COMPRESSION SPRING	MTD3542027	1
17	LIFTING DOG O/SHOT	MTD3540529	2

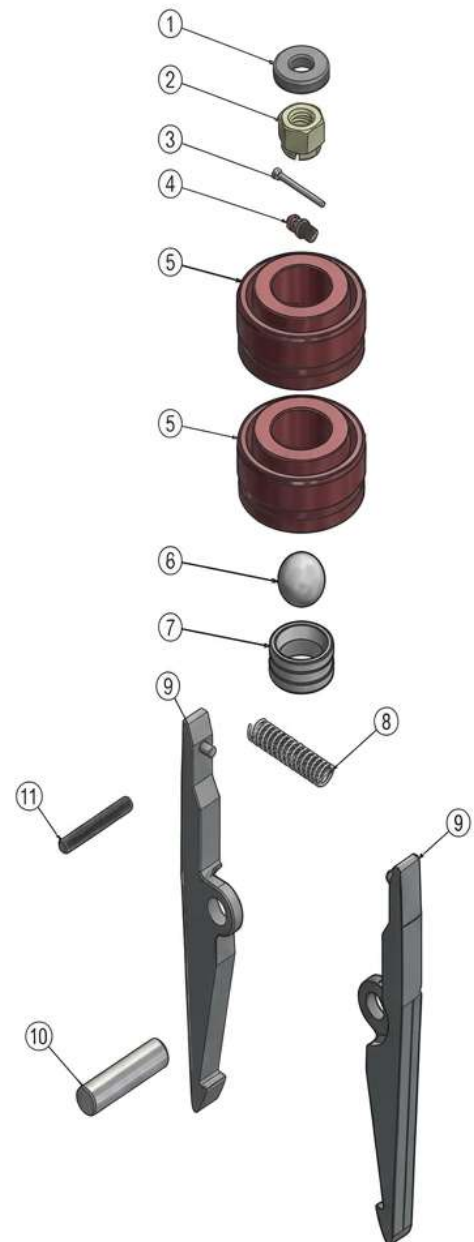


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT OVERSHOT ASSEMBLY POU MTD 3548057K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	BEARING BALL THRUST	MTD25986	1
2	NUT CASTLE HEX	MTD25985	1
3	PIN COTTER	MTD44615	1
4	FITTING HYD GREASE	MTD17447	1
5	LIP SEAL PUMP - IN	MTD100690	2
6	INDICATOR BUSHING	MTD62380	1
7	STAINLESS STEEL BALL	MTD62374	1
8	COMPRESSION SPRING	MTD6951	1
9	LIFTING DOG O/S HOT	MTD6950	2
10	PIN PLAIN	MTD5007836	1
11	SHEAR PIN	MTD29073	1



7. ROAD RUNNER ASSEMBLY



- BO
- NO
- HO



METAL TOOL DRILLING & SERVICES SAC



ROAD RUNNER ASSEMBLY BO MTD444304

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	ROAD RUNNER BODY	MTD300304	1
2	ROAD RUNNER WHEEL ENSAMBLADO BO	MTD300011	3
3	BOLT SOCKET HEAD	MTD400012	3
4	ROAD RUNNER BEARING	MTD500013	3



METAL TOOL DRILLING & SERVICES SAC



ROAD RUNNER ASSEMBLY NO MTD444404			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	ROAD RUNNER BODY	MTD400304	1
2	ROAD RUNNER WHEEL ASSEMBLY NO	MTD300011	3
3	BOLT SOCKET HEAD	MTD400012	3
4	ROAD RUNNER BEARING	MTD500013	3

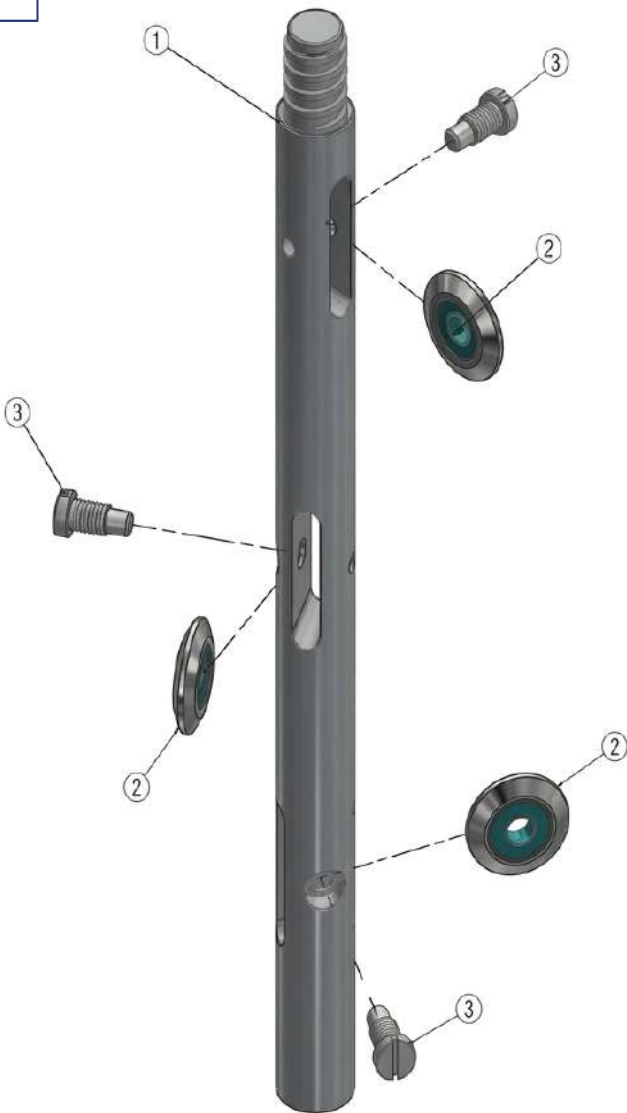


METAL TOOL DRILLING & SERVICES SAC



ROAD RUNNER ASSEMBLY HO MTD444504

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	ROAD RUNNER BODY	MTD300304	1
2	ROAD RUNNER WHEEL ENSAMBLADO HO	MTD300011	3
3	BOLT SOCKET HEAD	MTD400012	3
4	ROAD RUNNER BEARING	MTD500013	3



8. INDICATOR BUSHING



NYLON BUSHINGS			
ITEM	PART#	TYPE	DESCRIPCIÓN
1	3543921	Light	12.5 mm Piston
2	3543904	Light	22 mm Piston/Ball
3	623800	Standard Hole	22 mm Piston/Ball
4	3542834	Deep Hole	22 mm Piston/Ball
5	5005385	Standard Hole	35 mm Piston

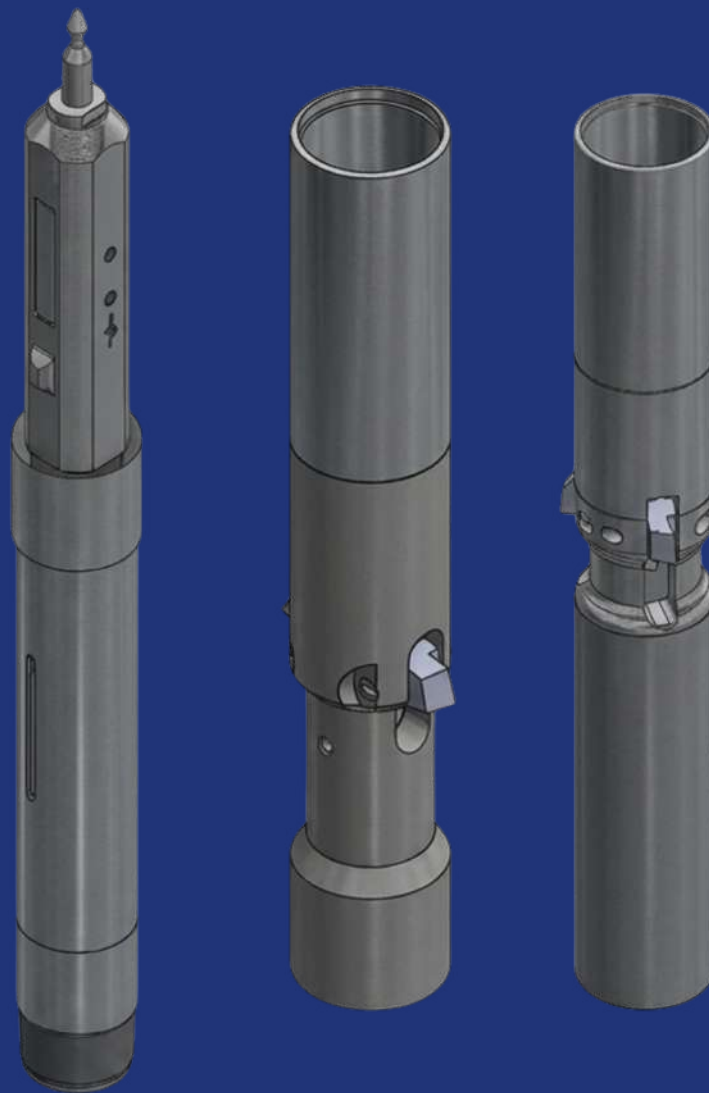


STEEL BUSHINGS			
ITEM	PART#	TYPE	DESCRIPCIÓN
1	306131	Standard	22 mm Piston/Ball
2	3543378	Heavy Mud	22 mm Piston/Ball



VALVE SPRINGS			
ITEM	PART#	TYPE	DESCRIPCIÓN
1	104966	Light (Green)	1 MPa (150 psi)
2	104971	Medium (Blue)	2 MPa (300 psi)
3	104972	Heavy (Red)	5 MPa (800 psi)
4	103116	X-Heavy (Yellow)	7 MPa (1000 psi)

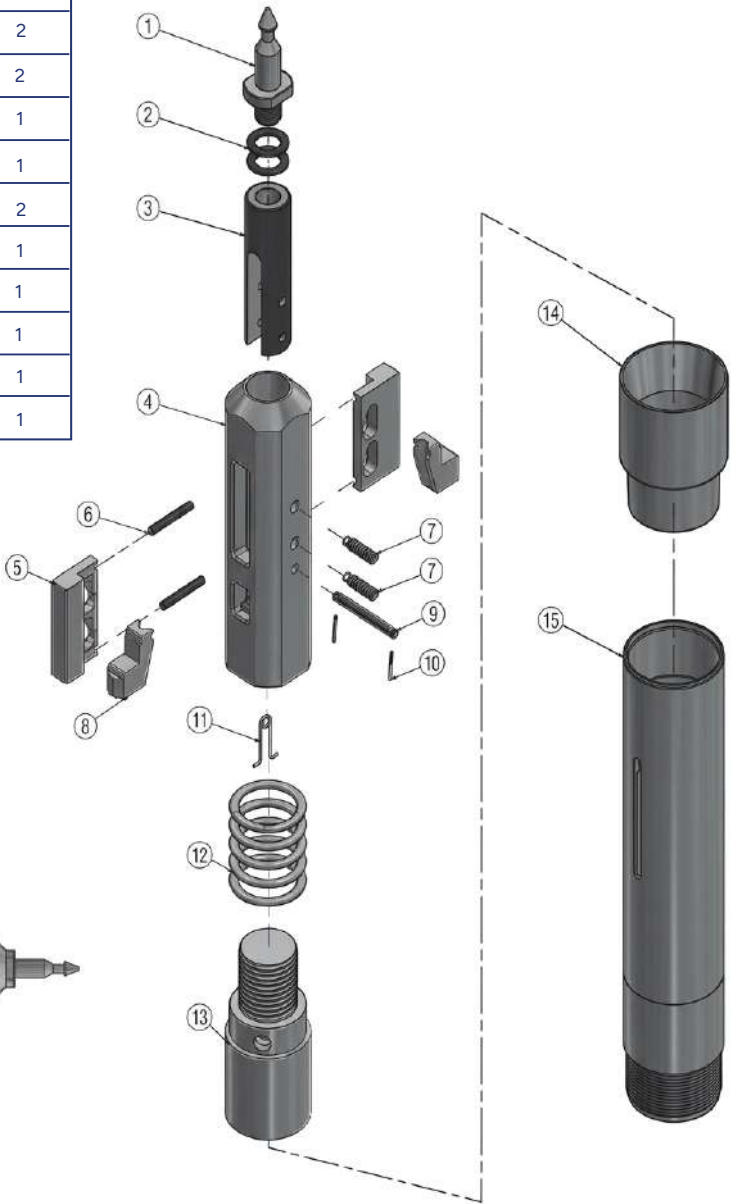
9. CASING CUTTER/ CASING AND ROD CUTTER



METAL TOOL DRILLING & SERVICES SAC



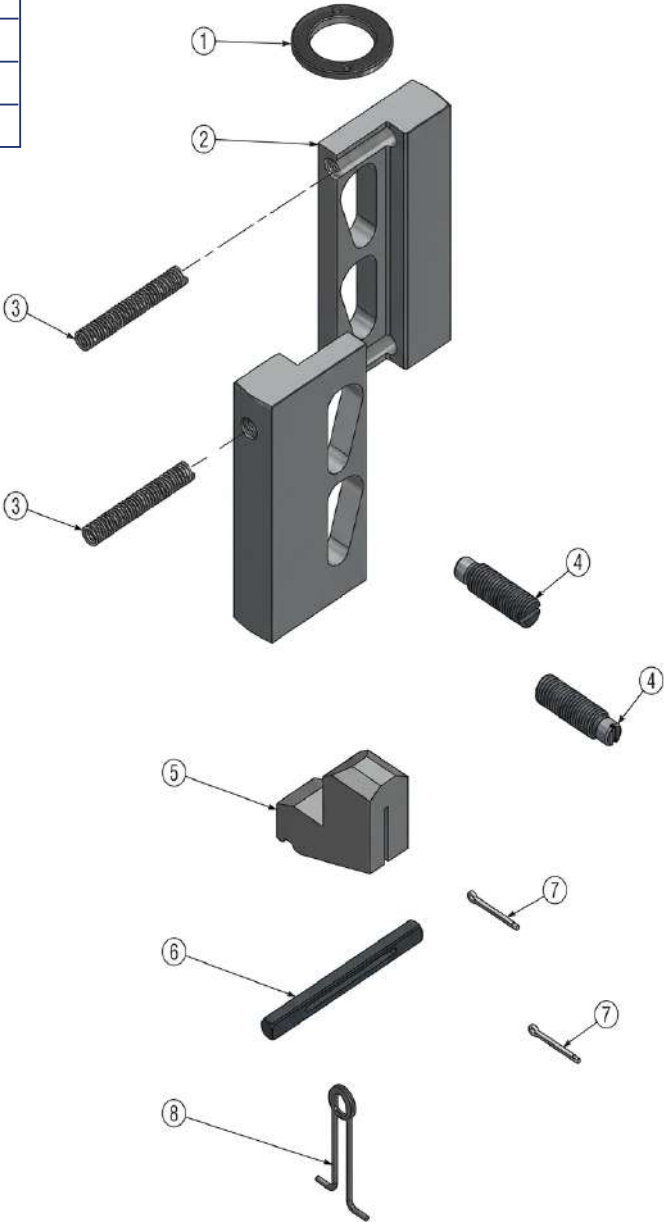
CASING ADVANCER HWT W/L MTD 3000863			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SPEARHEAD	MTD93415	1
2	DISK LOCK WASHER SET	MTD58040	1
3	RELEASR SHAFT	MTD58038	1
4	LATCH BODY	MTD58999	1
5	LATCH SHOE	MTD93865	2
6	SPRING	MTD93420	2
7	LOCATING PIN	MTD58035	2
8	STOP LATCH SET	MTD59076	1
9	STOP LATCH PIN	MTD59077	1
10	PIN COTTER	MTD44861	2
11	STOP LATCH SPRING	MTD59082	1
12	SPACER SET	MTD93863	1
13	BIT SUB	MTD93864	1
14	LOADING SLEEVE	MTD3000869	1
15	DRIVER	MTD3000864	1



METAL TOOL DRILLING & SERVICES SAC



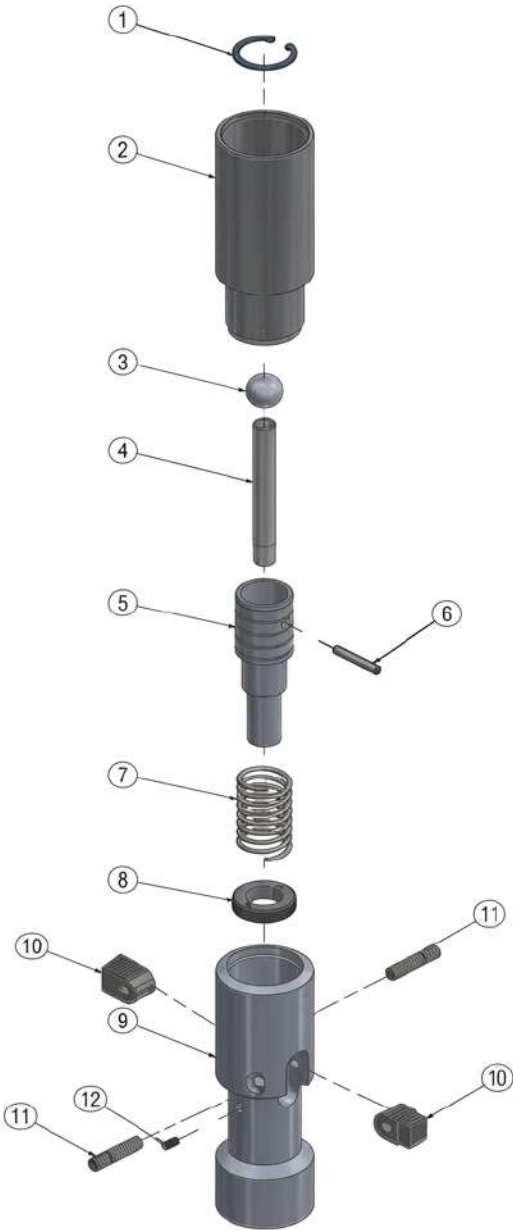
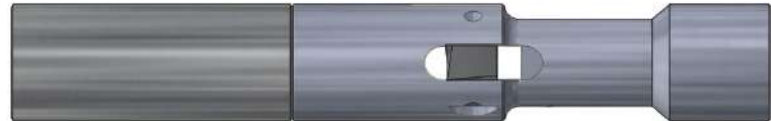
REPAIR KIT CASING ADVANCER HWT W/L MTD 3000863K			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	DISK LOCK WASHER SET	MTD58040	1
2	LATCH SHOE	MTD93865	2
3	SPRING	MTD93420	2
4	LOCATING PIN	MTD58035	2
5	STOP LATCH SET	MTD59076	1
6	STOP LATCH PIN	MTD59077	1
7	PIN COTTER	MTD44861	2
8	STOP LATCH SPRING	MTD59082	1



METAL TOOL DRILLING & SERVICES SAC



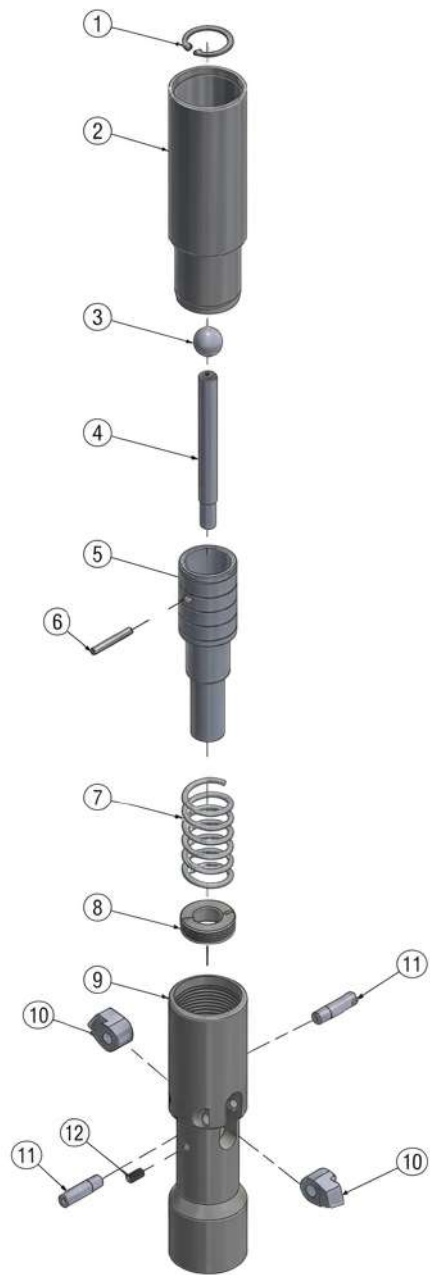
NW/HO CASING CUTTER ASSEMBLY MTD52777			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	RETAINING RING	MTD61460	1
2	PLUNGER CASE	MTD52778	1
3	STAINLESS STEEL BALL	MTD26157	1
4	WATER TUBE	MTD14529	1
5	PLUNGER	MTD14528	1
6	SHEAR PIN	MTD22834	1
7	SPRING	MTD14531	1
8	SPRING REST	MTD14530	1
9	BODY	MTD14526	1
10	CASING CUTTER LUG	MTD14532	2
11	CASING CUTTER PIN	MTD14588	2
12	SET SCREW	MTD44633	1



METAL TOOL DRILLING & SERVICES SAC



BW/NQ CASING CUTTER ASSEMBLY MTD52775			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	RETAINING RING	MTD61265	1
2	PLUNGER CASE	MTD52776	1
3	STAINLESS STEEL BALL	MTD21837	1
4	WATER TUBE	MTD14520	1
5	PLUNGER	MTD14519	1
6	SHEAR PIN	MTD15260	1
7	SPRING	MTD14522	1
8	SPRING REST	MTD14521	1
9	BODY	MTD14517	1
10	CASING CUTTER LUG	MTD14523	2
11	CASING CUTTER PIN	MTD14587	2
12	SET SCREW	MTD44663	1

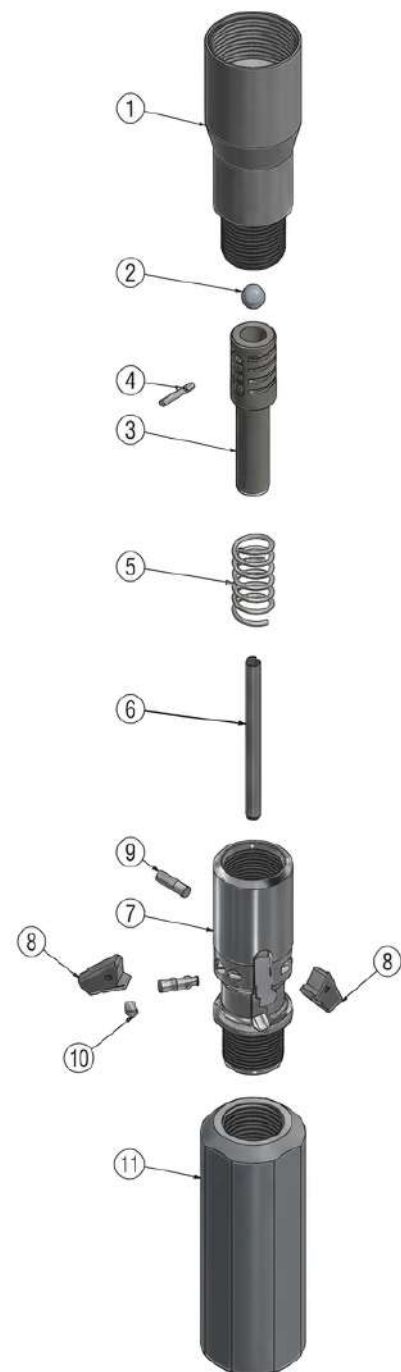


METAL TOOL DRILLING & SERVICES SAC



HW - HWT CASING AND ROD CUTTER MTD60879

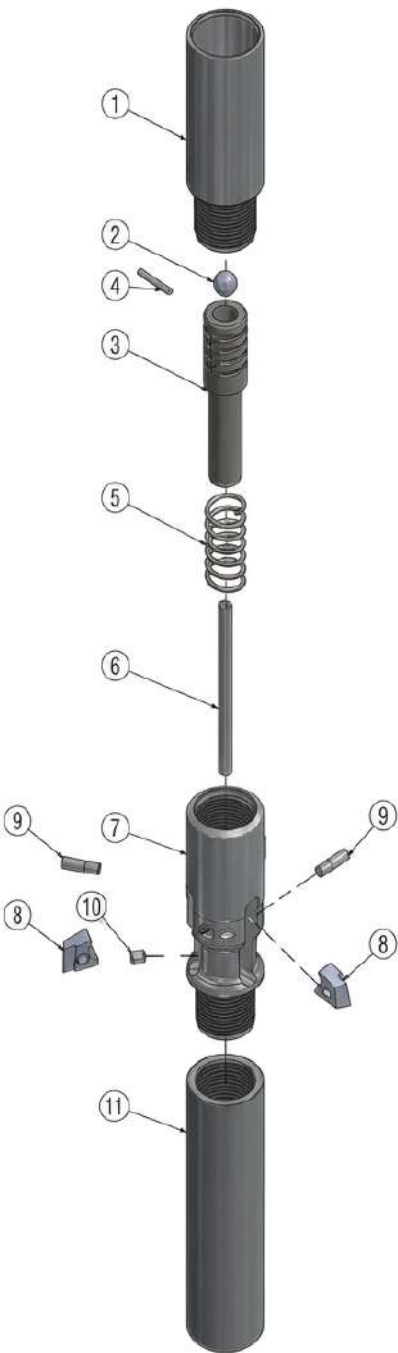
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	PISTON HOUSING WITH H W/L BOX THREAD	MTD3547484	1
2	BALL BOU	MTD26157	1
3	PISTON	MTD14531	1
4	ROLL PIN	MTD22834	1
5	COMPRESSION SPRING	MTD14531	1
6	BALL RELEASE ROD	MTD6004006	1
7	JAW HOLDER	MTD60880	1
8	JAW CUTTER HW	MTD62830	3
9	JAW PIN	MTD36216	3
10	CAP SCREW	MTD64009	1
11	PILOT HW	MTD604010	1



METAL TOOL DRILLING & SERVICES SAC

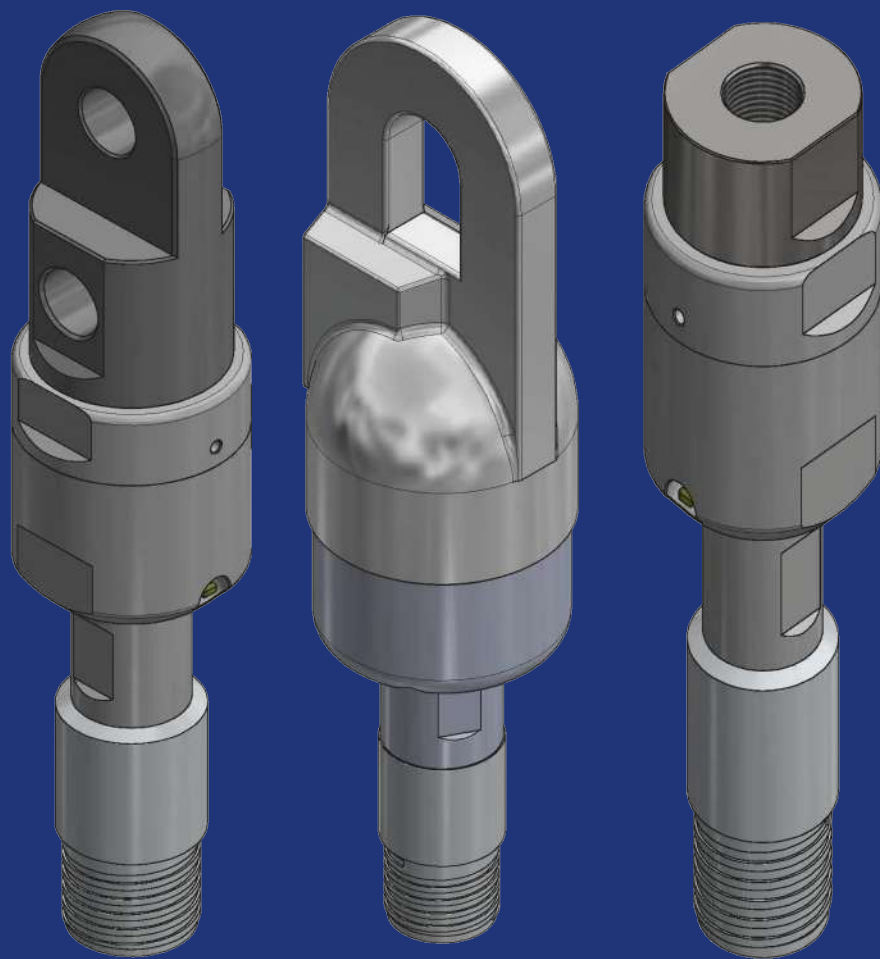


NW - H W/L CASING AND ROD CUTTER MTD52777			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	PISTON HOUSING WITH N W/L BOX THREAD	MTD52778	1
2	BALL BOU	MTD26157	1
3	PISTON	MTD14529	1
4	ROLL PIN	MTD22834	1
5	COMPRESSION SPRING	MTD14531	1
6	BALL RELEASE ROD	MTD145329	1
7	JAW HOLDER	MTD14526	1
8	JAW CUTTER HW	MTD14532	3
9	JAW PIN	MTD14588	3
10	CAP SCREW	MTD44663	1
11	PILOT HW	MTD604010	1



10.WATER EQUIPEMENT

**WATER SWIVELES
SURFACE AND UNDERGROUND**

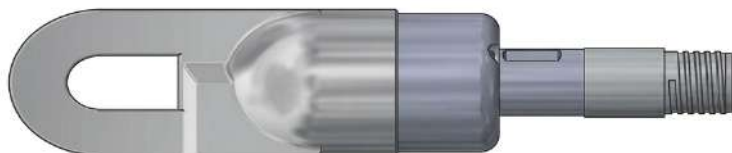
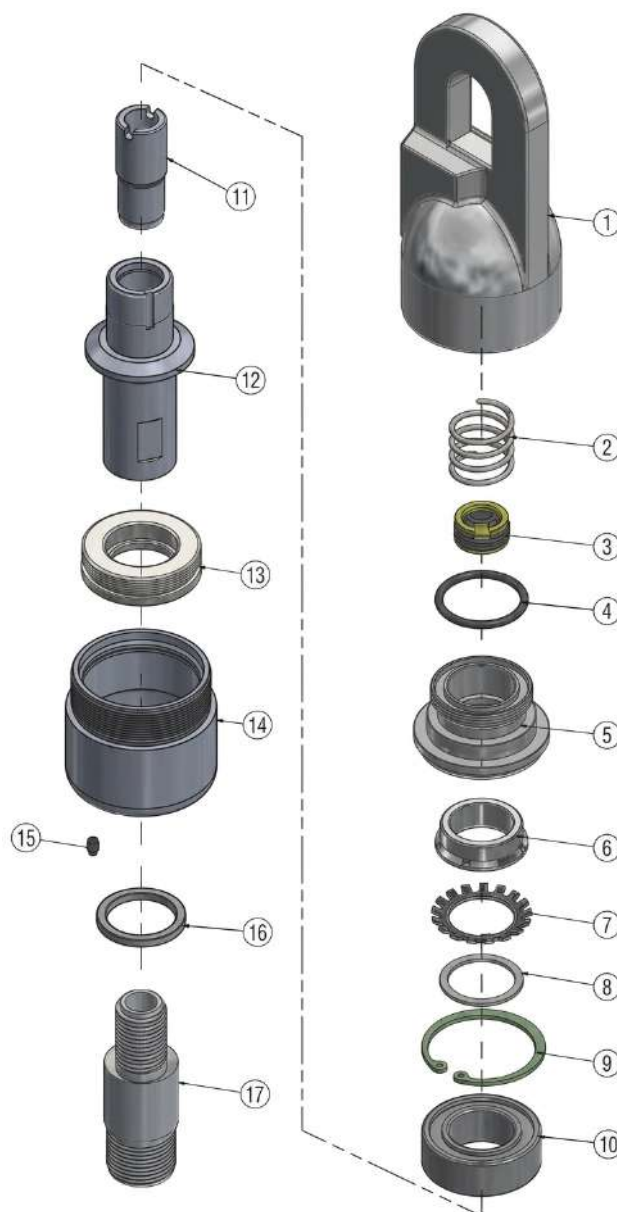


METAL TOOL DRILLING & SERVICES SAC



UNIVERSAL WATER SWIVEL ASSEMBLY MTD673571

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	HOISTING CAP	MTD39169	1
2	COMPRESSION SPRING	MTD39168	1
3	SWIVEL PACKING	MTD39171	1
4	O RING	MTD29737	1
5	PACKING HOUSING	MTD39172	1
6	SPINDLE NUT	MTD67186	1
7	LOCK WASHER	MTD67322	1
8	SPACER	MTD40965	1
9	RETAINING RING	MTD19906	1
10	BALL BEARING	MTD39170	1
11	SPINDLE EXTENSION	MTD67324	1
12	SPINDLE BW ROD BOX	MTD67187	1
13	THRUST BALL BEARING	MTD67631	1
14	SWIVEL BODY	MTD17447	1
15	FITTING HYD GREASE	MTD17447	1
16	FELT SEAL	MTD25612	1

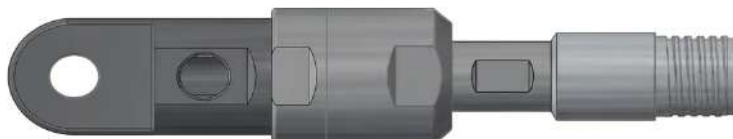
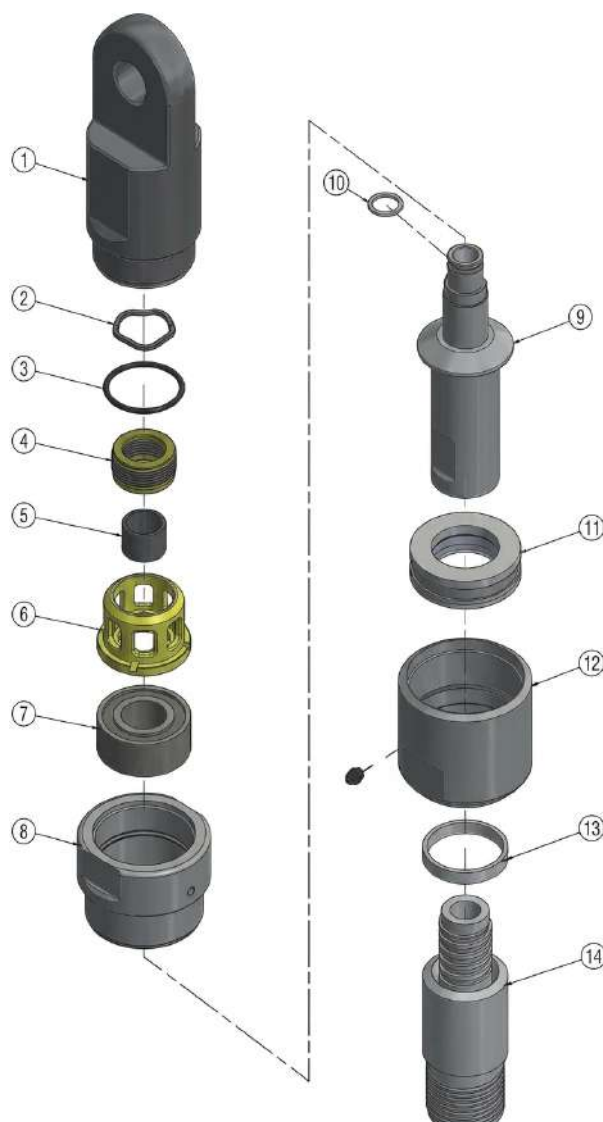


METAL TOOL DRILLING & SERVICES SAC



COMPACT PLUS WATER SWIVEL ASSEMBLY MTD3546952

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SWIVEL CAP	MTD3546529	1
2	WASHER SPRING	MTD23863	1
3	O RING	MTD19678	1
4	SWIVEL PACKING ASSEMBLY	MTD23861	1
5	WEAR SLEEVE	MTD3546530	1
6	PACKING CAGE	MTD23866	1
7	BALL BEARING	MTD20324	1
8	UPPER SWIVEL BODY	MTD3546531	1
9	SPINDLE AW ROD BOX	MTD3546907	1
10	O RING	MTD20169	1
11	THRUST BALL BEARING	MTD3546908	1
12	LOWER SWIVEL BODY	MTD3546909	1
13	FITTING HYD GREASE	MTD17447	1
14	FELT SEAL	MTD25612	1

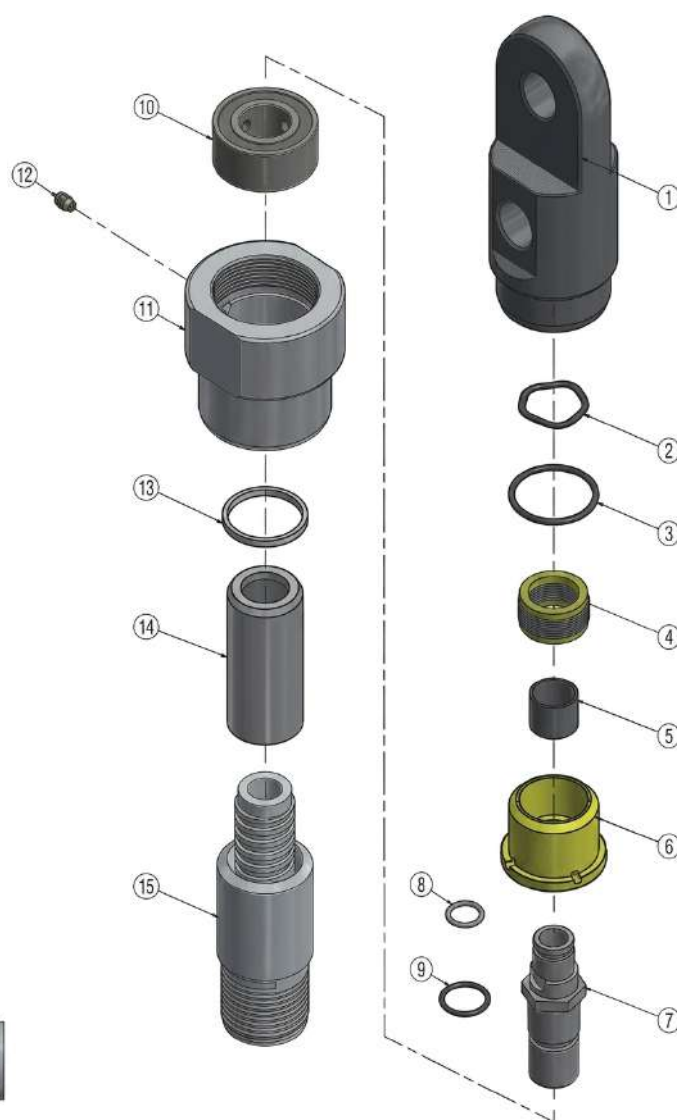


METAL TOOL DRILLING & SERVICES SAC



COMPACT WATER SWIVEL ASSEMBLY MTD7010100

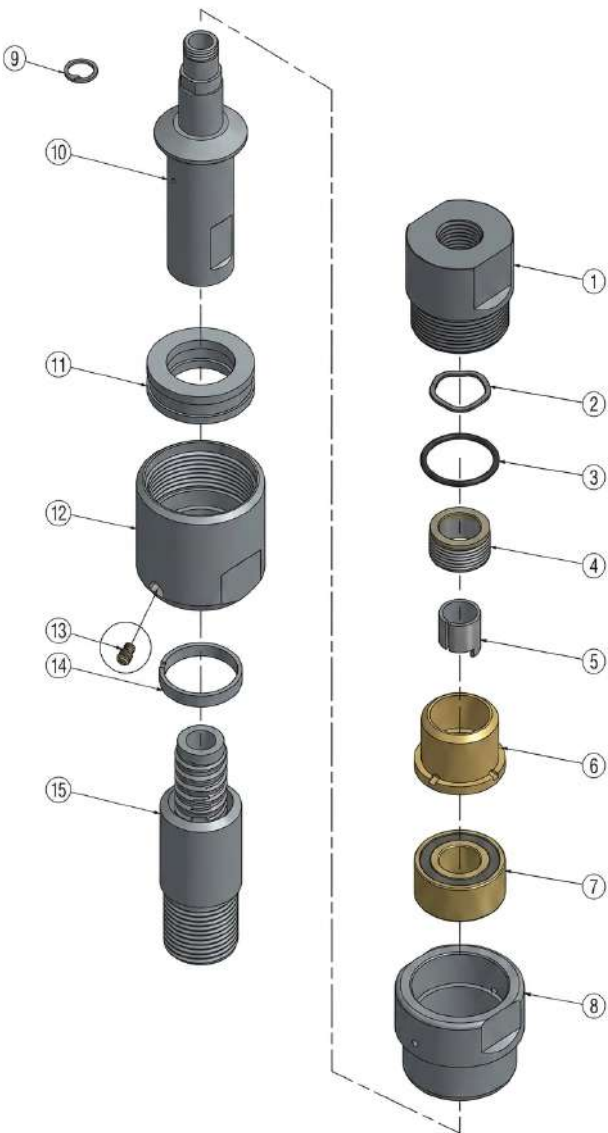
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SWIVEL CAP	MTD3546529	1
2	WASHER SPRING	MTD23863	1
3	O RING	MTD19678	1
4	SWIVEL PACKING ASSEMBLY	MTD23861	1
5	WEAR SLEEVE	MTD3546530	1
6	PACKING CAGE	MTD23866	1
7	SPINDLE	MTD7010121	1
8	O RING	MTD7010111	1
9	O RING	MTD7010122	1
10	BALL BEARING	MTD20304	1
11	SWIVEL BODY	MTD7010116	1
12	FITTING HYD GREASE	MTD17447	1
13	FELT SEAL	MTD25612	1
14	SPINDLE EXTENSION AW ROD BOX	MTD7010123	1



METAL TOOL DRILLING & SERVICES SAC



UNDERGROUND COMPACT PLUS WATER SWIVEL ASSEMBLY MTD3546953			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SWIVEL CAP	MTD3542931	1
2	WASHER SPRING	MTD23863	1
3	O RING	MTD19678	1
4	SWIVEL PACKING ASSEMBLY	MTD23861	1
5	WEAR SLEEVE	MTD3546530	1
6	PACKING CAGE	MTD23866	1
7	BALL BEARING	MTD20324	1
8	UPPER SWIVEL BODY	MTD346531	1
9	SPINDLE AW ROD BOX	MTD3546907	1
10	O RING	MTD20169	1
11	THRUST BALL BEARING	MTD3546908	1
12	LOWER SWIVEL BODY	MTD3546909	1
13	FITTING HYD GREASE	MTD17447	1
13	FELT SEAL	MTD25612	1

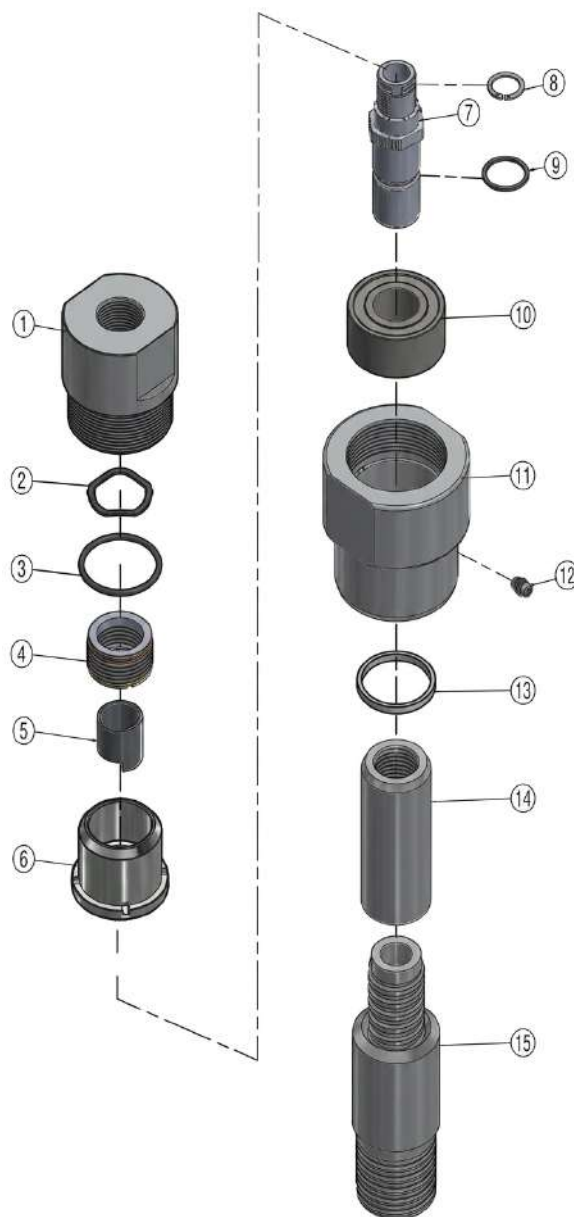


METAL TOOL DRILLING & SERVICES SAC



UNDERGROUND COMPACT WATER SWIVEL ASSEMBLY MTD7010200

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	SWIVEL CAP	MTD3542931	1
2	WASHER SPRING	MTD23863	1
3	O RING	MTD19678	1
4	SWIVEL PACKING ASSEMBLY	MTD23861	1
5	WEAR SLEEVE	MTD3546530	1
6	PACKING CAGE	MTD23866	1
7	SPINDLE	MTD3546907	1
8	O RING	MTD20169	1
9	O RING	MTD7010122	1
10	BALL BEARING	MTD3546908	1
11	SWIVEL BODY	MTD3546909	1
12	FITTING HYD GREASE	MTD17447	1
13	FELT SEAL	MTD25612	1
14	SPINDLE EXTENSION AW ROD BOX	MTD7010123	1

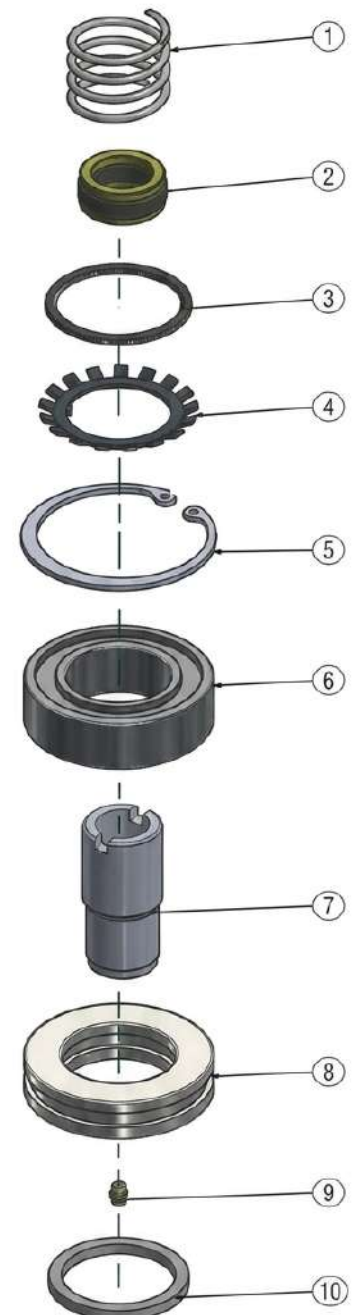


METAL TOOL DRILLING & SERVICES SAC



REPAIR UNIVERSAL WATER SWIVEL ASSEMBLY MTD67321K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	COMPRESSION SPRING	MTD39168	1
2	SWIVEL PACKING	MTD39171	1
3	O RING	MTD29737	1
4	LOCK WASHER	MTD67186	1
5	RETAINING RING	MTD40965	1
6	BALL BEARING	MTD19906	1
7	SPINDLE EXTENSION	MTD39170	1
8	THRUST BALL BEARING	MTD67187	1
9	FITTING HYD GREASE	MTD17447	1
10	FELT SEAL	MTD25612	1

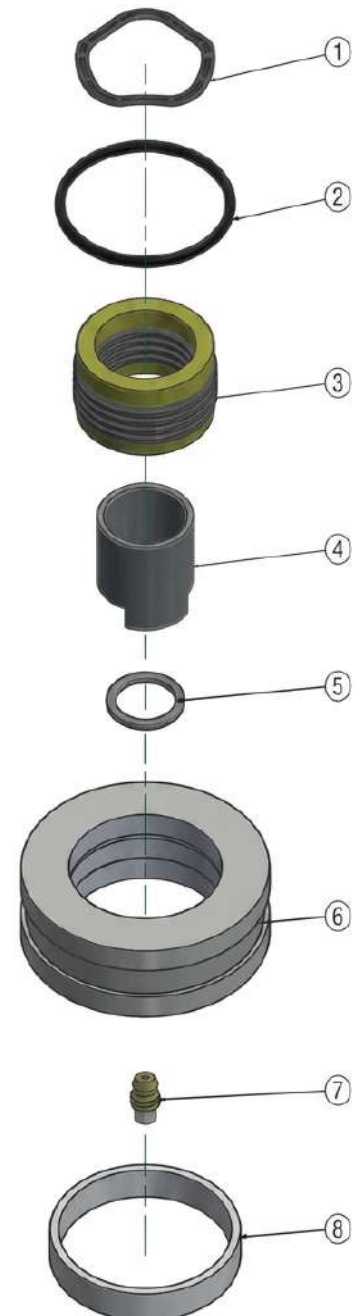


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT COMPACT PLUS WATER SWIVEL ASSEMBLY MTD3546952K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	WASHER SPRING	MTD39168	1
2	O RING	MTD39171	1
3	SWIVEL PACKING ASSEMBLY	MTD29737	1
4	WEAR SLEEVE	MTD67186	1
5	BALL BEARING	MTD40965	1
6	O RING	MTD19906	1
7	THRUST BALL BEARING	MTD39170	1
8	FITTING HYD GREASE	MTD67187	1
9	FELT SEAL	MTD17447	1

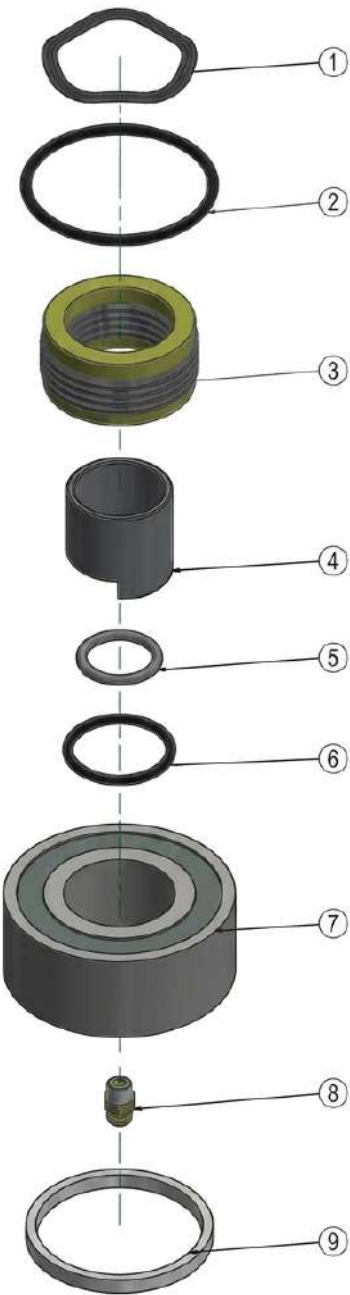


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT COMPACT WATER SWIVEL ASSEMBLY MTD3546952K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	WASHER SPRING	MTD23863	1
2	O RING	MTD19678	1
3	SWIVEL PACKING ASSEMBLY	MTD23861	1
4	WEAR SLEEVE	MTD3546530	1
5	O RING	MTD20324	1
6	O RING	MTD20169	1
7	BALL BEARING	MTD3546908	1
8	FITTING HYD GREASE	MTD17447	1
9	FELT SEAL	MTD25612	1

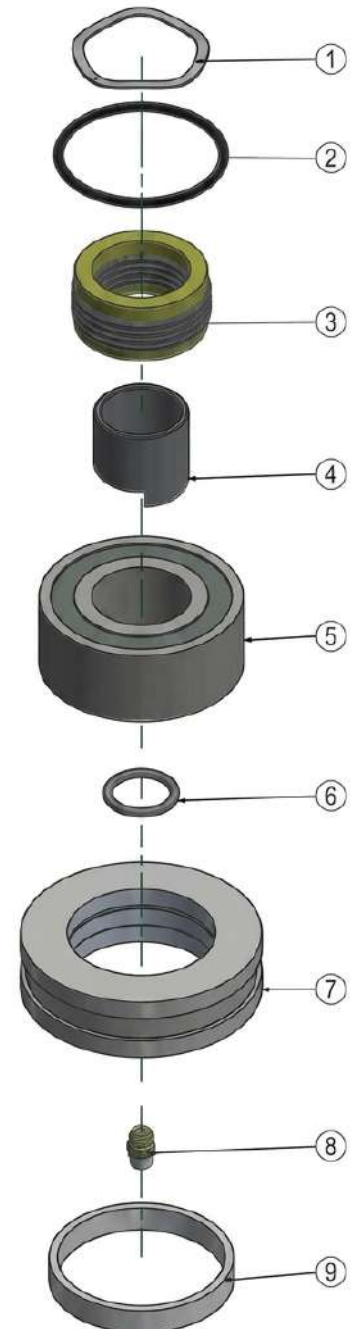


METAL TOOL DRILLING & SERVICES SAC



REPAIR KIT UNDERGROUND COMPACT PLUS W/S MTD3546953K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	WASHER SPRING	MTD23863	1
2	O RING	MTD19678	1
3	SWIVEL PACKING ASSEMBLY	MTD23861	1
4	WEAR SLEEVE	MTD3546530	1
5	BALL BEARING	MTD20324	1
6	O RING	MTD20169	1
7	THRUST BALL BEARING	MTD3546908	1
8	FITTING HYD GREASE	MTD17447	1
9	FELT SEAL	MTD25612	1

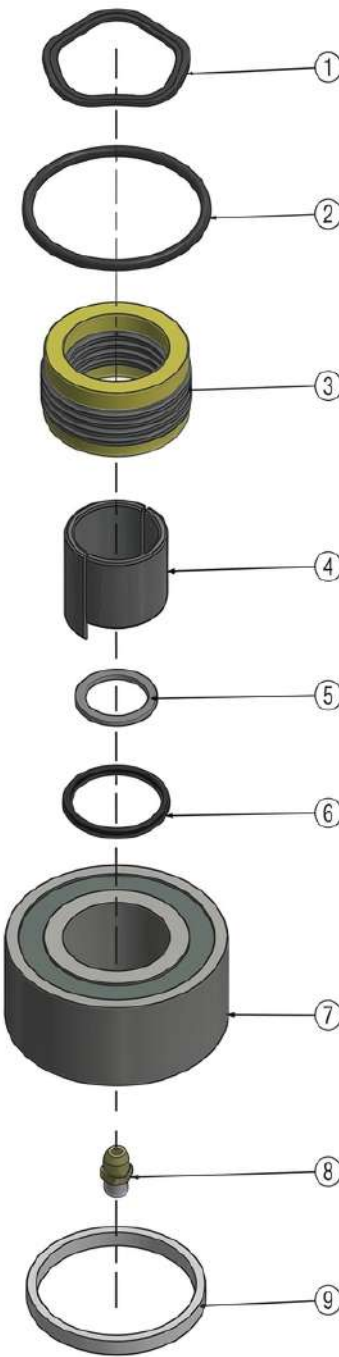


METAL TOOL DRILLING & SERVICES SAC



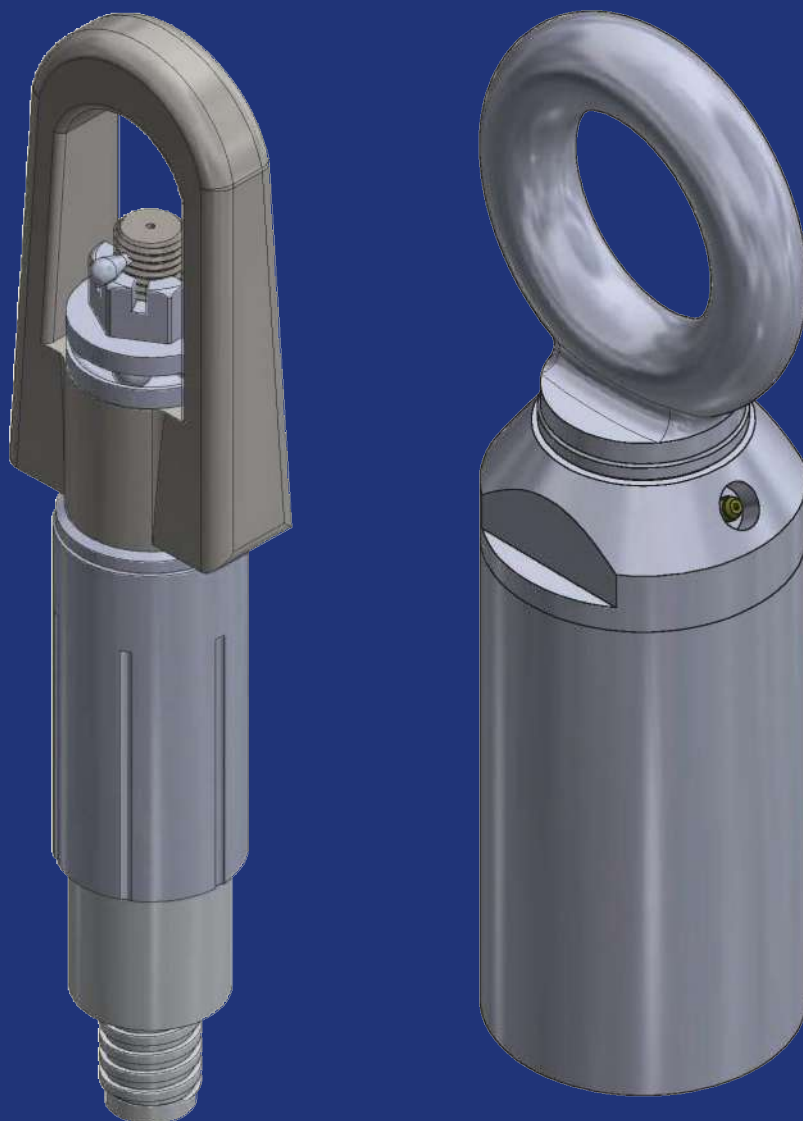
REPAIR KIT UNDERGROUND COMPACT WATER SWIVEL MTD7010200K

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	WASHER SPRING	MTD23863	1
2	O RING	MTD19678	1
3	SWIVEL PACKING ASSEMBLY	MTD23861	1
4	WEAR SLEEVE	MTD3546530	1
5	O RING	MTD20324	1
6	O RING	MTD20169	1
7	BALL BEARING	MTD3546908	1
8	FITTING HYD GREASE	MTD17447	1
9	FELT SEAL	MTD25612	1



11. HOISTING PLUG

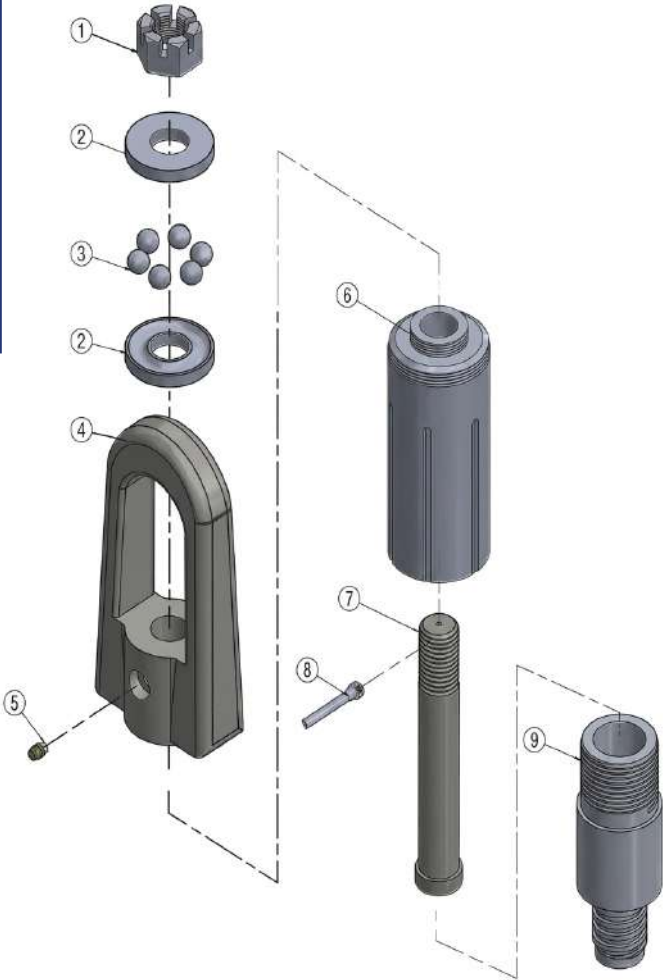
5.000 LBS
30.000 LBS



METAL TOOL DRILLING & SERVICES SAC



HOISTING PLUG 5,000 LBS MTD6400200			
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	HEX NUT	MTD6400211	1
2	PLUG BALL RACE	MTD6400212	2
3	STAINLESS STEEL BALL	MTD6400215	9
4	HOISTING PLUG BALL	MTD6400210	1
5	FITTING HYD GREASE	MTD1221220	1
6	HOISTING PLUG BODY	MTD6400213	1
7	PIN COTTER	MTD6400214	1
8	PLUG SPINDLE	MTD6400217	1
9	VALVE ADJUSTING WASHER NO	MTD6400000	1

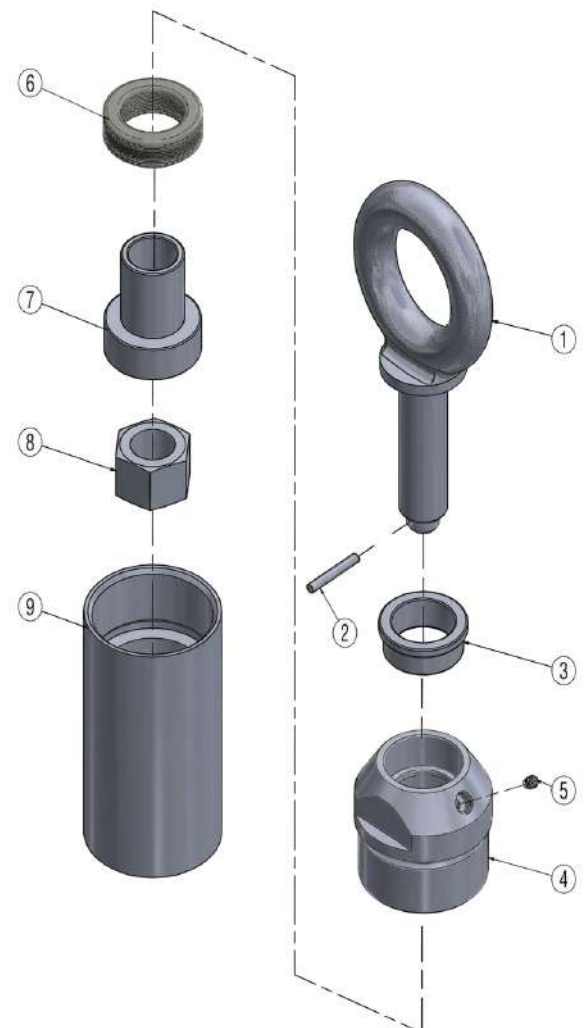
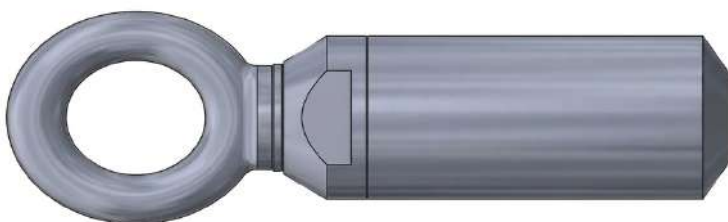


METAL TOOL DRILLING & SERVICES SAC



HOISTING PLUG 5,000 LBS MTD6400200

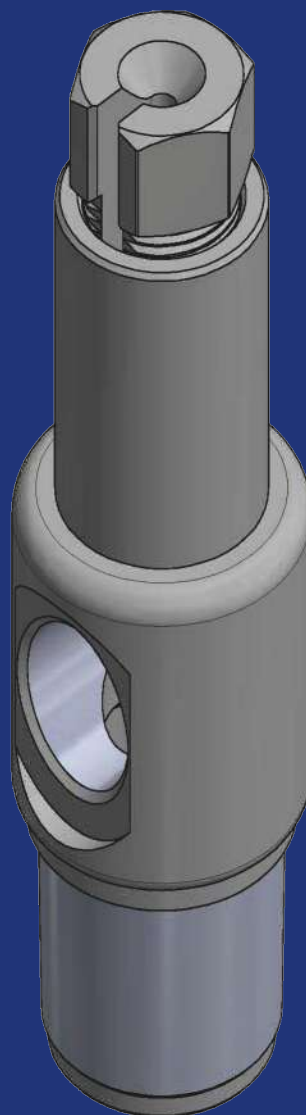
ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	EYE BOLT	MTD5003668	1
2	SPRING PIN	MTD37394	1
3	WEAR SLEEVE	MTD3542900	1
4	BEARING HOUSING	MTD5004355	1
5	FITTING HYD GREASE	MTD17447	1
6	HOIST PLUG BEARING	MTD3542902	1
7	SHAFT SLEEVE	MTD3542903	1
8	STOVER LOCK NUT	MTD3542914	1
9	LOWER HOUSING	MTD5004354	1



12. LOADING CHAMBER



- BO
- NO
- HO

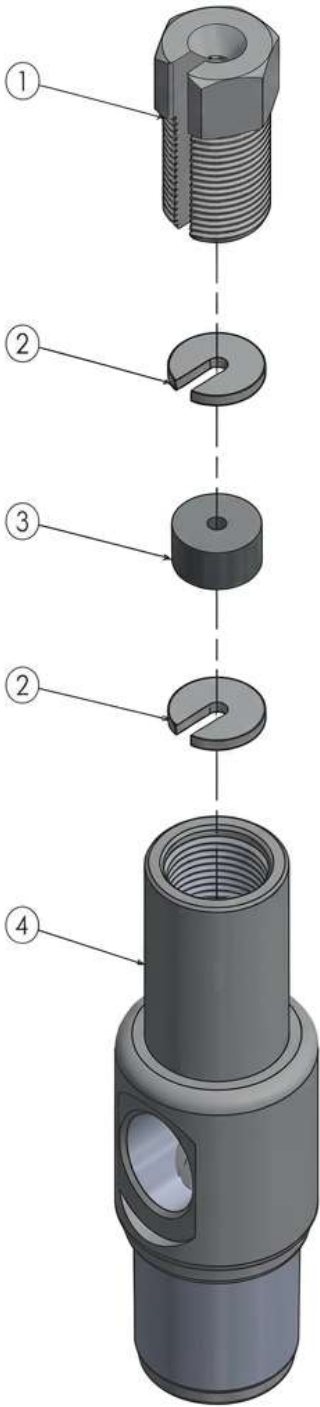


METAL TOOL DRILLING & SERVICES SAC



LOADING CHAMBER ASSEMBLY BO MTD3542493

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	PACKING PLUG	MTD3541817	1
2	CABLE GUIDE WASHER	MTD3541816	2
3	CABLE PACKING	MTD25546	2
4	LOADING CHAMBER BODY	MTD3542495	1

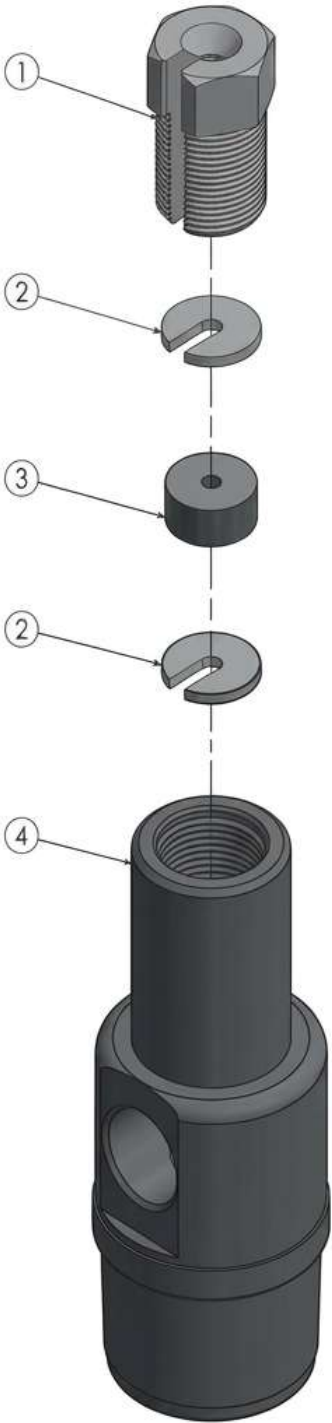


METAL TOOL DRILLING & SERVICES SAC



LOADING CHAMBER ASSEMBLY NO MTD3542496

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	PACKING PLUG	MTD3541817	1
2	CABLE GUIDE WASHER	MTD3541816	2
3	CABLE PACKING	MTD25546	2
4	LOADING CHAMBER BODY	MTD3541820	1

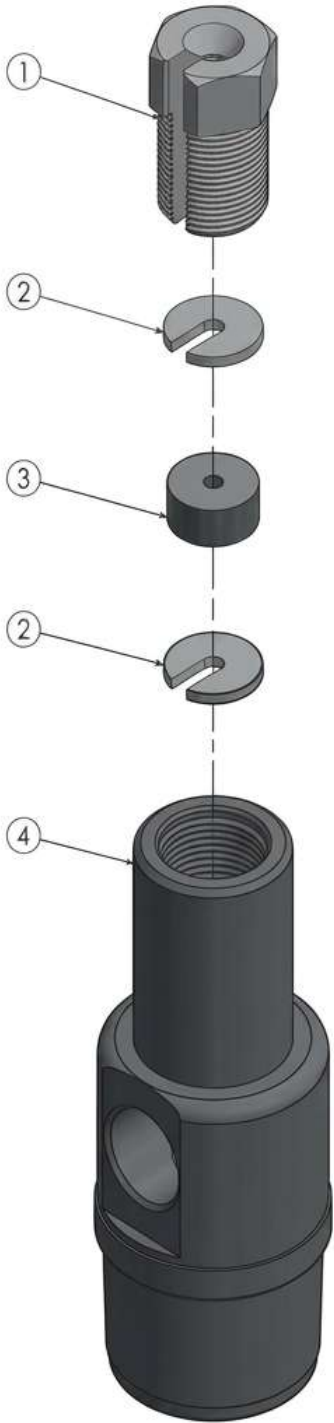


METAL TOOL DRILLING & SERVICES SAC



LOADING CHAMBER ASSEMBLY HO MTD3542498

ITEM	DESCRIPCIÓN	CÓDIGO	CANT.
1	PACKING PLUG	MTD3541817	1
2	CABLE GUIDE WASHER	MTD3541816	2
3	CABLE PACKING	MTD25546	2
4	LOADING CHAMBER BODY	MTD3542138	1



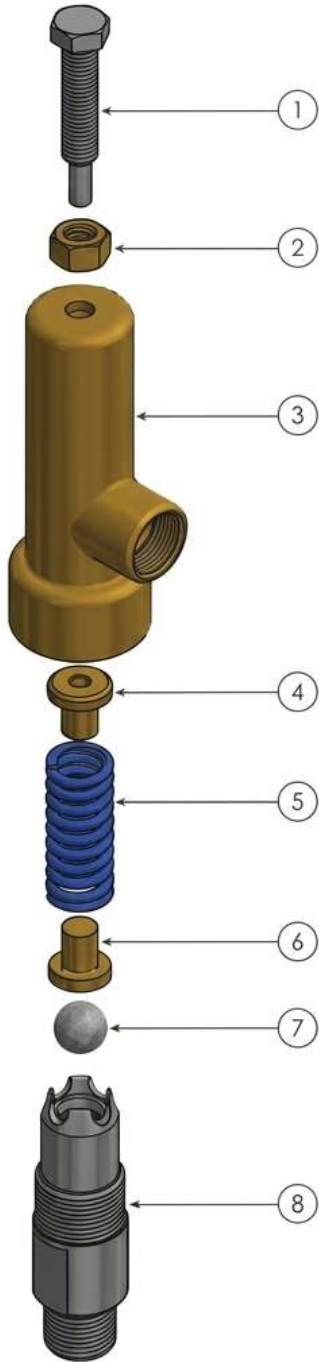
13. RELIEF VALVE



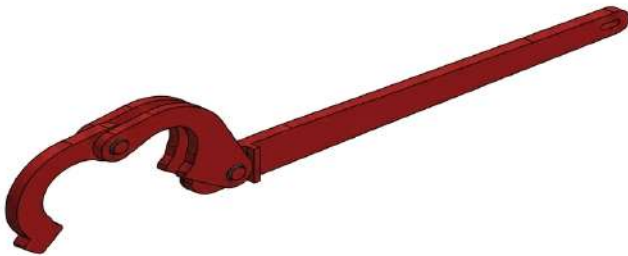
METAL TOOL DRILLING & SERVICES SAC



VALVULA DE ALIVIO			
ID#	PART#	DESCRIPCIÓN	QTy
1-8	3546492	PRESSURE RELIEF VALVE	1
1	21841	ADJUSTING SCREW	1
2	22179	JAM BRASS HEX NUT, 5/8" UNC	1
3	3546493	BODY	1
4	3546494	VALVE SPRING GUIDE	2
5	24313	NQ COMPRESSION SPRING	2
6	3546495	BALL HOLDER	1
7	21837	STEEL BALL, 15/16"	4
8	3546496	SEAT	4



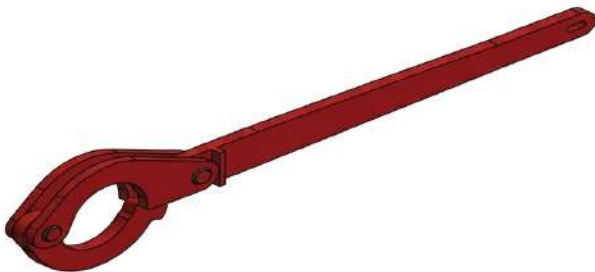
14. CIRCULAR WRENCH



INNER TUBE WRENCH		
ITEM	DESCRIPCIÓN	CÓDIGO
1	AO INNER TUBE WRENCH	205100100100
2	BO INNER TUBE WRENCH	205100100200
3	NO INNER TUBE WRENCH	205100100300
4	HO INNER TUBE WRENCH	205100100400
5	PO INNER TUBE WRENCH	205100100500



INNER TUBE WRENCH		
ITEM	DESCRIPCIÓN	CÓDIGO
1	AO OUTER TUBE WRENCH	205200100100
2	BO OUTER TUBE WRENCH	205200100200
3	NO OUTER TUBE WRENCH	205100100400
4	HO OUTER TUBE WRENCH	205200100400
5	PO OUTER TUBE WRENCH	205200100500



DRILL ROD WRENCH		
ITEM	DESCRIPCIÓN	CÓDIGO
1	AO DRILL ROD WRENCH	205300100100
2	BO DRILL ROD WRENCH	205100100300
3	NO DRILL ROD WRENCH	205300100300
4	HO DRILL ROD WRENCH	205300100400
5	PO DRILL ROD WRENCH	205300100500

15. SUBS WATER SWIVEL



SUBS WATER SWIVEL		
ITEM	DESCRIPCIÓN	CÓDIGO
1	SUB AW ROD PIN TO BO ROD PIN	200100010200
2	SUB AW ROD PIN TO HWT CASING PIN	200100010245
3	SUB AW ROD PIN TO NO ROD PIN	200100010300
4	SUB AW ROD PIN TO HO ROD PIN	200100010400
5	SUB AW ROD PIN TO HRO ROD PIN	200100010410
6	SUB BW ROD PIN TO BO ROD PIN	200100020200
7	SUB BW ROD PIN TO HWT CASING PIN	200100020245
8	SUB BW ROD PIN TO NO ROD PIN	200100020300
9	SUB BW ROD PIN TO HO ROD PIN	200100020400
10	SUB NW ROD PIN TO BO ROD PIN	200100030200
11	SUB NW ROD PIN TO HWT CASING PIN	200100030245
12	SUB NW ROD PIN TO NO ROD PIN	200100030300
13	SUB NW ROD PIN TO NO ROD BOX	200100030301
14	SUB NW ROD PIN TO HO ROD PIN	200100030400
15	SUB NW ROD PIN TO HO ROD BOX	200100030401
16	SUB NO ROD PIN TO HO ROD PIN	200100040300

ACCESORIOS

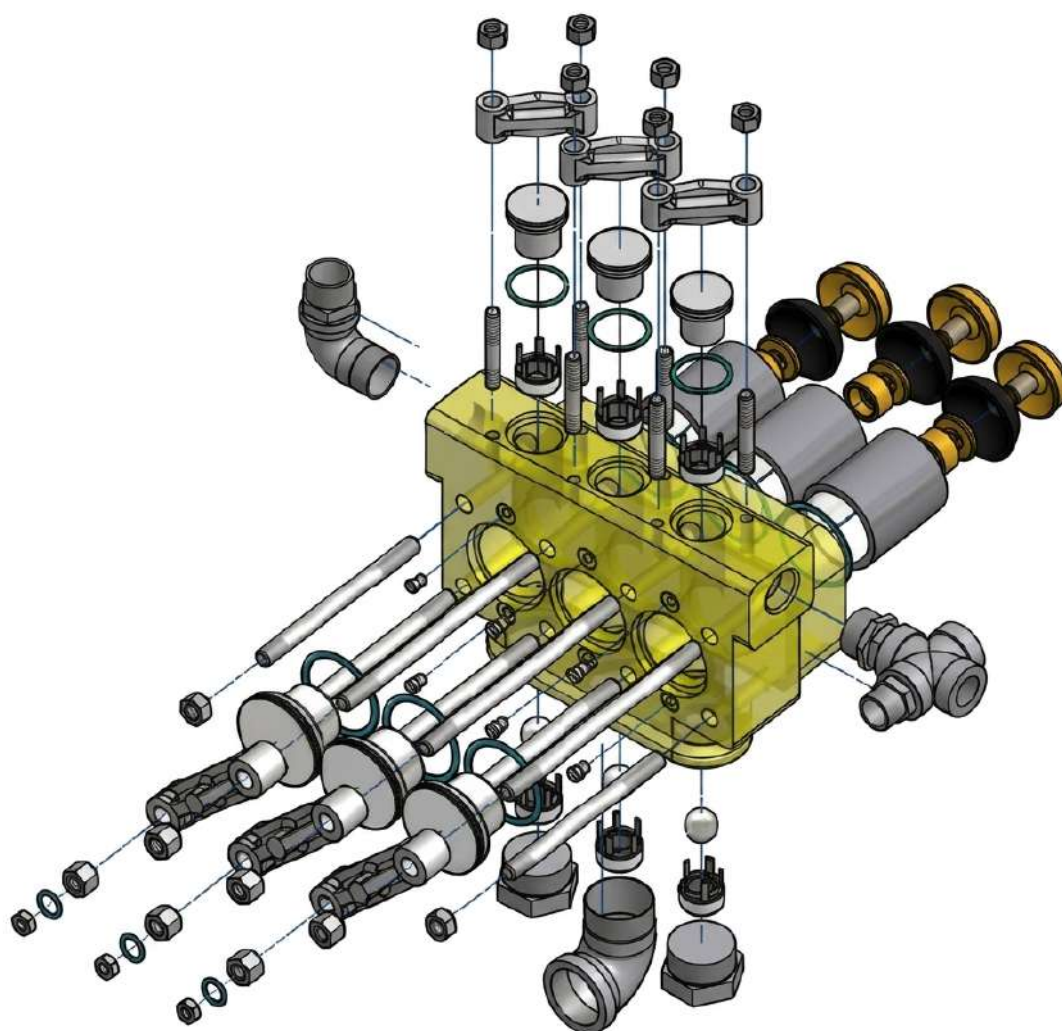
16. SUBS CASING



SUBS CASING		
ITEM	DESCRIPCIÓN	CÓDIGO
1	SUB NO ROD PIN TO HO ROD PIN	200100010200
2	SUB BO ROD BOX TO BW CASING PIN	200100010245
3	SUB NO ROD BOX TO BW CASING PIN	200100010300
4	SUB HO ROD BOX TO BW CASING PIN	200100010400
5	SUB BO ROD BOX TO NW CASING PIN	200100010410
6	SUB NO ROD BOX TO NW CASING PIN	200100020200
7	SUB HO ROD BOX TO NW CASING PIN	200100020245
8	SUB BO ROD BOX TO HW CASING PIN	200100020300
9	SUN NO ROD BOX TO HW CASING PIN	200100020400
10	SUB HO ROD BOX TO HW CASING PIN	200100030200
11	SUB BO ROD BOX TO HWT CASING PIN	200100030245
12	SUB NO ROD BOX TO HWT CASING PIN	200100030300
13	SUB HO ROD BOX TO HWT CASING PIN	200100030301
14	SUB NO ROD BOX TO HO ROD PIN	200100030400
15	SUB HWT CASING BOX TO 2.7/8' API REG BOX	200100030401
16	SUB HWT CASING BOX TO HW CASING PIN	200100040300
17	SUB HWT CASING PIN TO HW CASING BOX	200110245805
18	SUB NO ROD BOX TO N4 ROD BOX, PARA TRICONO 2.15/16'	200110300801
19	SUB HO ROD BOX TO 2 7/8' API REG BOX	200110400803

ACCESORIOS

17. FMC BEAN 420/435



METAL TOOL DRILLING & SERVICES SAC



(*1) Cobre e Fibra
(*2) Aberta e Fechada
(*3) Com parede e Sem parede

