



DOWN THE HOLE ROCK DRILLING TOOLS

2018



WORKING WITH SAFETY IN MIND

OPERATING THE HAMMER

- Only operate the controls while the engine is running
- Proper PPE must be worn when you are operating the drill rig and the hammer
- Before you move the drill rig with the hammer, ensure that no one will be endangered
- Do not go close to the edge of a cliff, an excavation or an overhang
- Maintain control of the drill rig while you operate the hammer. Operating the equipment beyond its design limits can cause damage to people or equipment
- Know the maximum operating dimensions of your drill rig when the hammer is installed
- Ensure that there is adequate clearance between the drill rig and any stationary objects when you are maneuvering the machine
- Know the appropriate work site hand signals, and the personnel who are authorized to give these hand signals

PROHIBITED USE OF MACHINERY

The hammer must only be operated by trained professionals. Never allow operation by anyone who is intoxicated, tired or feeling unwell. Use of the hammer in an explosive atmosphere (gasoline fumes, coal dust, etc.) is strictly prohibited.

HAMMER MAINTENANCE

Read through the safety procedures in the operator's manual before assembling or disassembling the hammer. Always keep the hammer in the correct position to avoid heavy parts which can fall from hammer. Use a proper assembly stand to avoid the falling-over or rolling-over of either the hammer or its parts. Always use tongs with jaws that place a uniform load on the outside diameter of the hammer. Never grip the hammer with pipe wrenches or wrenches that can deform and damage it. Always place tongs on the body of the bit, not on the carbides. Do not apply heat of any kind to the piston case in order to remove the driver sub or the top sub.

HEALTH AND SAFETY INFORMATION

ROUTES OF EXPOSURE

Grinding or heating hardmetal blanks or hardmetal products will produce dust or fumes with dangerous ingredients that can be inhaled or swallowed, or which might come in contact with the skin or eyes.

ACUTE TOXICITY

The dust is toxic by inhalation. Inhalation may cause irritation and inflammation in the airways. Skin contact can cause irritation and rash. Sensitized people may experience an allergic reaction.

CHRONIC TOXICITY

Repeated inhalation of aerosols containing cobalt may cause obstruction in the airways. Prolonged inhalation of increased concentrations may cause lung fibrosis or lung cancer. Cobalt is a potent skin sensitizer. Repeated or prolonged contact can cause sensitization.

CLASSIFICATION

Following hazard classification according to GHS/CLP applies to the hardmetal powder (3 % ≤ Co < 10 %):

- Acute Inhalation 3, H331: Toxic if inhaled

- Carcinogenicity 1B, H350i, May cause cancer by inhalation
- Repr. 2, H361f; Suspected of damaging fertility
- STOT RE 1, H372: Causes damage to lungs through prolonged or repeated exposure through inhalation
- Resp. Sens. 1B, H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Skin Sens.1, H317: May cause an allergic skin reaction.
- Aquatic Acute 1, H400: Very toxic to aquatic life
- Aquatic Chronic 2, H411: Toxic to aquatic life, with long lasting effects

PRECAUTIONARY STATEMENTS

- Do not breathe the dust
- Wear protective gloves/protective clothing/eye protection
- In case of inadequate ventilation, wear respiratory protection
- Avoid release into the environment

IF INHALED: If breathing is difficult, remove the victim to fresh air and keep them at rest in a position comfortable for breathing. If they are experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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MASTERING CEMENTED CARBIDES

Cemented carbides are a key to efficient and productive drilling. Whatever you're doing, we can ensure the right grade for the task. We are a world leader in research and development for cemented carbides. That know-how goes into every bit you order.

MATERIALS EXPERTISE

We continue to develop new hard material alloys to meet today's industry challenges. Tool performance is crucial when you're dealing with harder rock and mineral formations. The cemented carbide insert material's resistance to wear and fracturing is particularly important. Dual Property (DP) cemented carbides are our patented grades. Their properties are tailored to suit drilling conditions causing exceptional load or cemented carbide wear.

GRINDING OF CEMENTED CARBIDE

Grinding or heating a cemented carbide product will produce dust or fumes of hazardous ingredients that can be inhaled, swallowed or come in contact with the skin or eyes.

Cemented carbide contains two hazardous components: cobalt and tungsten carbide.

Cobalt may cause sensitization through inhalation or skin contact. Inhalation or skin contact may also cause irritation. Sensitive persons may experience an allergic reaction. Long-term inhalation of high concentrations may cause permanent respiratory disease.



XT48

Sandvik's standard cemented carbide grade for most drilling conditions. XT48 should be your first choice, especially when drilling in rock that is not fully known. Spherical XT48 inserts are optimized to withstand high load and wear.



DP55

This grade has wear resistance similar to XT48 but offers greater toughness. It is especially suited to ballistic inserts, accommodating the higher loads the insert may be exposed to because of the longer protrusion.



DP65

DP65 has similar toughness to XT48 but considerably higher wear resistance. This grade should be your first choice when drilling in very abrasive rock with large spherical inserts.



PROPER CARE MEANS MAXIMIZED UPTIME

LUBRICATION

It is extremely important that you provide the DTH Hammer with a constant supply of good quality rock drill oil. This provides an air seal to reduce friction and prevent galling, when one hammer part is moving relative to another. Galling is a phenomenon that occurs when two pieces of metal rub against each other in the absence of a lubricant film between them. The excessive friction between these rubbing parts generates heat, which changes the properties of the metal, and which will consequently cause cracks in and breakage of the parts. This, therefore, leads to the loss of valuable production time.

Always make sure that you use the right rock drill oil for the climate and operating conditions at the work site.

CORROSION

Corrosion can, in a simplified way, be defined as the destructive attack on metal through interaction with its environment.

Most environments encountered while drilling are considered to be corrosive, to a greater or lesser degree, to the metal parts of hammers and bits. For example, the fatigue strength of a steel part could be reduced by 100 times in the presence of ordinary tap water. The most devastating type of corrosion encountered in hammers and bits is corrosion pitting, where an extremely localized chemical attack results in holes in the metal. Pitting acts as a stress-raiser, which initiates cracking. Many cracks emanating from these stress sites eventually join together to form a single crack front, which ultimately results in failure of the component through corrosion fatigue.

You can prevent corrosion failures by having a protective barrier between the bit and hammer components, and the environment. This is achieved through proper and diligent use of readily available protective materials, such as rock drill oils and thread lubricants.

SANDVIK RIGS AND HAMMERS – A PERFECT FIT

RIG	Max pressure [bar]	Max flow [m ³ /min]	4" hammer	5" hammer	6" hammer	8" hammer	RH460 4" HP *	RH460 5" HP *	RH460 6" HP *
SANDVIK D25KS	24	25.5/28.3	●	●	◐●	○	○	○	○
SANDVIK D45KS	24	28.3	●	●	●	○	○	○	○
SANDVIK D55SP	24	38.2	●	●	●	●	○	○	○
SANDVIK D75KS	24	38.2	●	●	●	●	○	○	○
SANDVIK DR460	24	41.0	●	●	●	●	○	○	○
SANDVIK DR540	24	29.7	●	●	◐	○	●*1	○*1	○
SANDVIK DR560	24	38.2	●	●	●	◐	●*2	●*2	●
SANDVIK DR580	24	44.6	●	●	●	●	●*3	●*3	●
SANDVIK DI550	24	24.4	●	●	◐	○	○	○	○

- = excellent with rig
- ◐ = works with rig
- = not recommended

- * 35 bar hammers:
- *1 34.5 bar | 25.5 m³/min
- *2 34.5 bar | 32.6 m³/min
- *3 34.5 bar | 38.2 m³/min

SANDVIK RIGS AND HAMMERS – A PERFECT FIT

BOOSTER	Max pressure [bar]	Max flow [m ³ /min]	4" hammer	5" hammer	6" hammer	8" hammer
KR551	24	19	●	◐	○	○
KR1101	24	38	●	●	●	●
KS921	28	19	●	◐	○	○
KS1121	28	27	○	●	●	◐
KS1501	28	34	○	○	●	●

- = excellent with booster
- ◐ = works with booster
- = not recommended with booster

NOTE: Available air may vary depending on rig configuration and inlet conditions. Check rig specifications for available onboard or auxiliary boosters.



STANDARD DTH HAMMERS AND DRILL BITS

We offer one of the widest range of standard hammers and drill bits on the market. We pride ourselves on standard parts being in stock and delivered without delay from warehouse to our customers. Every product is of high, proven quality as only the best is good enough for Sandvik customers. No minimum quantity order required for all hammer and drill bit standard products.



TAKES DTH DRILLING TO NEW PERFORMANCE HEIGHTS

The Sandvik RH510 series of hammers delivers high performance and added value to most drilling applications.

This is achieved through a proprietary interface between the piston and bit. This optimizes impact energy transmission to boost penetration rates. The result will deliver excellent economy through high productivity. It is designed for operating pressures up to 24 bar (350 psi). The RH510 hammer does not require a foot valve in the bit further lowering the chance for down time. The unique design maximizes energy efficiency along with fuel savings and minimizes total drilling costs.

Key features:

- Foot valve less bit shank
- High performance
- Simple design
- Easy to service
- Mirror impact concept

3" RH510 HAMMERS	12
4" RH510 HAMMERS	13
5" RH510 HAMMERS	14
6" RH510 HAMMERS	17
8" RH510 HAMMERS	21

Complete Hammer

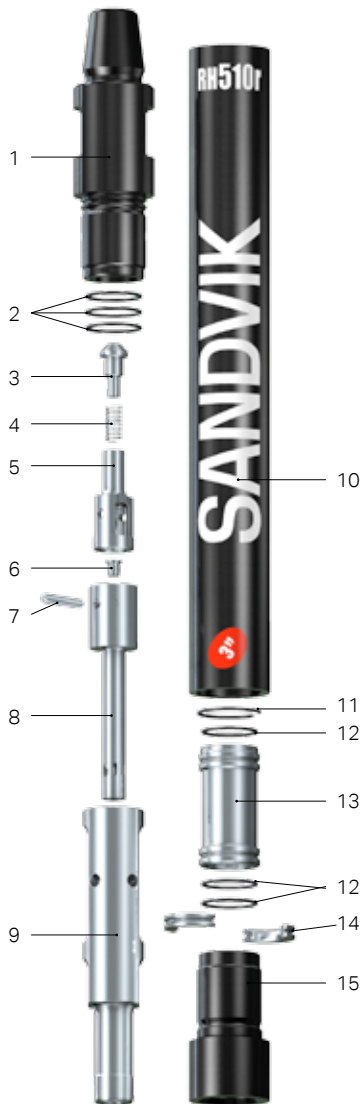
2 3/8" API reg. pin top sub

32-5130-RMA-16S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
25	55	81.3	3.2	823	32.4	875	34.4	911	35.9

AIR CONSUMPTION, CFM

150 psi	250 psi	350 psi	AIR CONSUMPTION, M ³ /MIN		
			10 bar	18 bar	24 bar
172	304	436	4.87	8.61	12.34



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs			
2 3/8" API reg. pin	5	11	33-3A001/16A
O-ring top sub (3) ID and OD			In seal kit
Check valve dart with spring	0.3	0.7	25-99006A
Check valve dart spring	0.02	0.01	22-99071
Check valve guide	0.23	0.5	39-3A001
Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.2	29-48017A
Feed tube retainer pin	0.03	0.1	12-99021
Feed tube with retainer pin & blank choke	0.45	1	37-3A001A
Piston	3.86	8.5	BG00468603
Piston case with retainer ring	10.9	24	BG00468599
Piston retainer ring	0.05	0.1	23-99027
O-rings - guide sleeve, bit retainer (3)			In seal kit
Guide sleeve with 2 O-rings (#12)	1	2.2	26-3A010A
Bit retainer ring with O-ring (#12)	0.09	0.2	27-3A006A
Driver sub	2.18	4.8	34-3A006

Seal kit

3 piece of #2 & 3 of #12	0.25	0.5	38-3A056
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Rebuild kit

1 piece of #1, 1 of #10, 1 of #15 & seal kit			
2 3/8" API reg. pin	18.1	40	BG00478477

Bit shank

M30

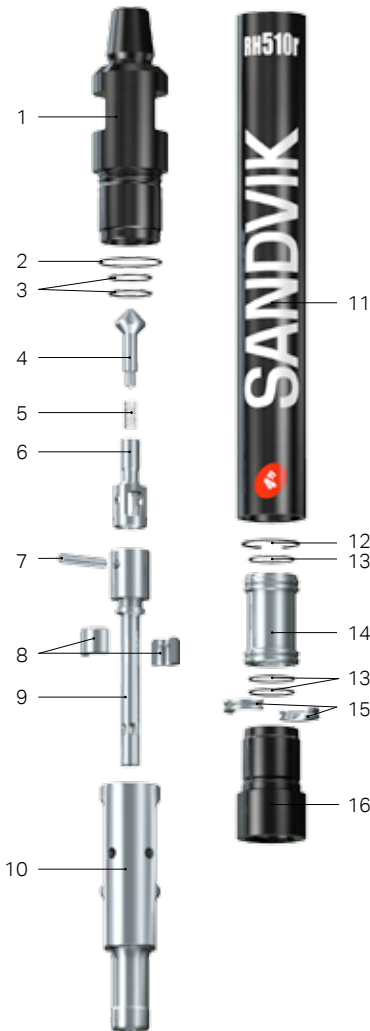


Complete Hammer

2 3/8" API reg. pin top sub	32-5140-RMA-16S
2 7/8" API reg. pin top sub	32-5140-RMA-11S
2 3/8" API reg. pin top sub and hard faced driver sub	32-5140-TMA-16S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
38	83	98	3.56	914	36	989	38.9	1029	40.5

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	180	370	560	5.1	10.5	15.9
Low volume option	151	315	466	4.3	8.9	13.2



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
2 3/8" API reg. pin	10	22	33-48001-1/16A
2 7/8" API reg. pin	10	22	33-48001-1/11A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99001A
5. Check valve spring	0.02	0.04	22-99071
6. Check valve guide	0.2	0.44	39-48001-1
7. Feed tube retainer pin	0.03	0.07	12-99014
8. Tuning ring for low volume (optional)	0.23	0.51	56-48552
9. Solid Feedtube with retainer pin	0.7	1.54	BG00785560
10. Piston	7	15.4	BG00387202
11. Piston case with retainer ring	15	33	BG00387230
12. Piston retainer ring	0.05	0.11	23-99029
13. O-rings guide sleeve & bit ret. (3)			In seal kit
14. Guide sleeve with 2 O-rings (#14)	1.8	3.96	26-48J10A
15. Bit retainer ring with O-ring (#14)	0.23	0.51	27-48006A
16. Driver sub	3.2	7.04	34-48006
17. Driver sub hard faced			BG00718268
Optional			
Feed tube with retainer pin & blank choke	0.7	1.54	37-48001-1A
Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.22	29-48017A
Seal kit			
1 piece of #2, 2 of #3 & 3 of #14	0.25	0.5	38-48056-1
Rebuild kit			
1 piece of #1, 1 of #12, 1 of #17 & seal kit			
2 3/8" API reg. pin	28	62	BG00475620
2 7/8" API reg. pin	28	62	BG00475753
2 3/8" API reg. pin & hard faced driver sub	28	62	BG00765621

Bit shank

M40



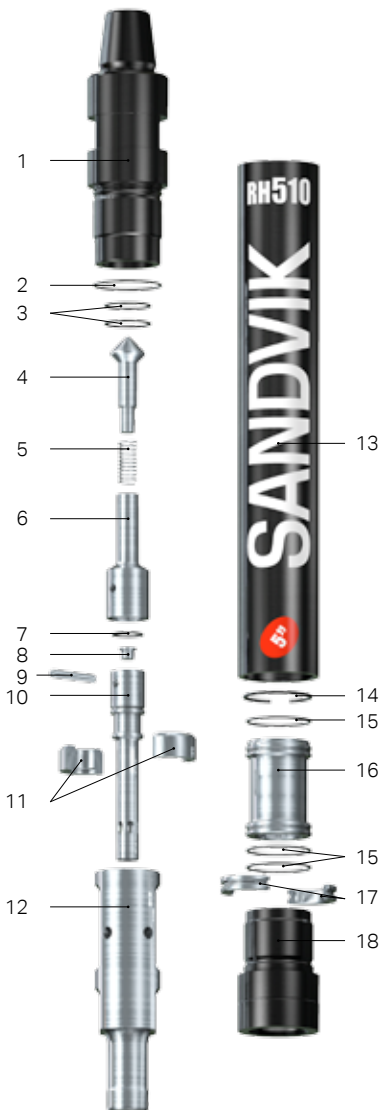
Complete Hammer

3 1/2" API reg. pin top sub

32-5150-SMA-04S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
68	145	120	4.72	987	38.86	1082	42.6	1122	44.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	305	580	855	8.64	16.42	24.21
Low volume option	285	540	790	8.07	15.25	22.37



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
3 1/2" API reg. pin	10	22	33-58D01/04A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.66	39-58S01
7. O-ring feed tube (1)			In seal kit
8. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	27	59.4	BG00473260
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret. (3)			In seal kit
16. Guide sleeve with 2 O-rings (#14)	3	6.6	26-58J10A
17. Bit retainer ring with O-ring (#14)	0.5	1.1	27-58006A
18. Driver sub	6	13.2	34-58D69

Seal kit			
1 piece of #2, 2 of #3, 1 of #7 & 3 of #15	0.45	0.99	38-58D56

Rebuild kit			
1 piece of #1, 1 of #13, 1 of #18 & seal kit			
3 1/2" API reg. pin	43	94.6	BG00475763

Bit shank			
M50			

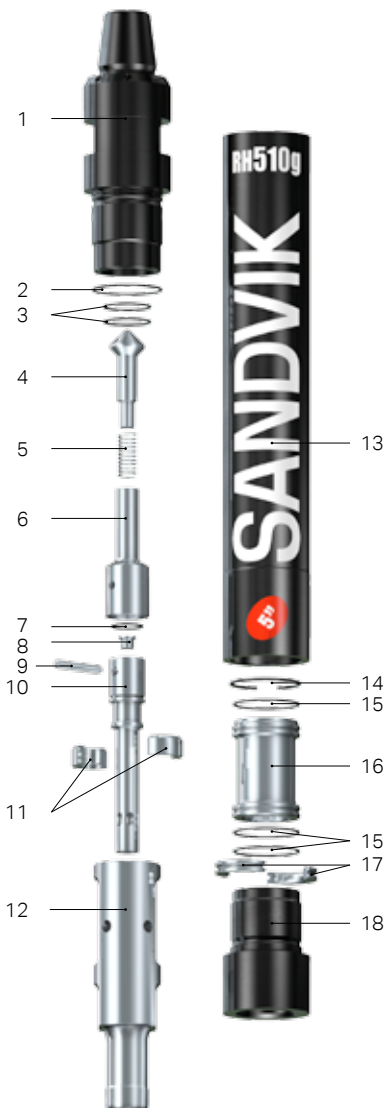
Complete Hammer

3 1/2" API reg. pin top sub

32-5155-GMA-04C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
73	160	126	4.96	987	38.86	1082	42.6	1122	44.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	305	580	855	8.64	16.42	24.21
Low volume option	285	540	790	8.07	15.25	22.37



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
3 1/2" API reg. pin	18	39.6	33-58D02/04CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.66	39-58S01
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
8. O-ring feed tube (1)			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	29	63.8	BG00470986
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret. (3)			In seal kit
16. Guide sleeve with 2 O-rings (#14)	3	6.6	26-58J10A
17. Bit retainer ring with O-ring (#14)	0.5	1.1	27-58006A
18. Driver sub	7	15.4	34-58D70
Seal kit			
1 piece of #2, 2 of #3, 1 of #8 & 3 of #15	0.45	0.99	38-58D56
Rebuild kit			
1 piece of #1, 1 of #13, 1 of #18 & seal kit			
3 1/2" API reg. pin	54	118.8	BG00475761

Bit shank

M50

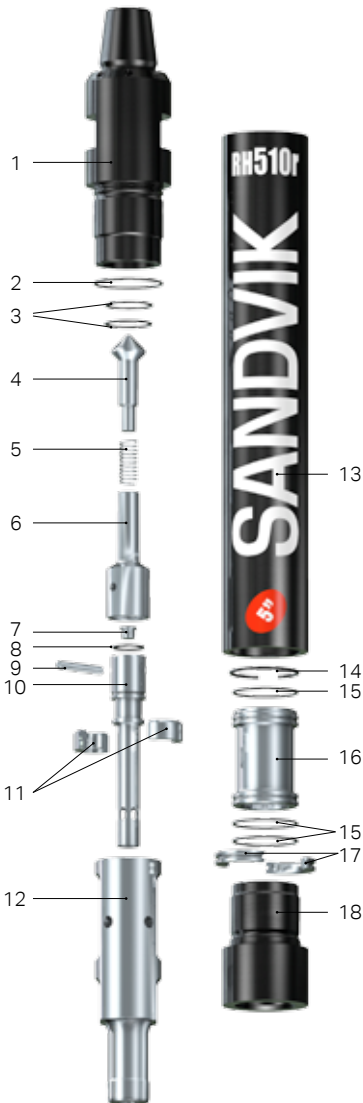


Complete Hammer

3 1/2" API reg. pin top sub	32-5155-RMA-04C
3 1/2" API reg. pin top sub and hard faced driver sub	32-5155-TMA-04C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
73	160	126	4.96	987	38.86	1082	42.6	1122	44.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	305	580	855	8.64	16.42	24.21
Low volume option	285	540	790	8.07	15.25	22.37



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
3 1/2" API reg. pin	18	39.6	33-58S02/04CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.66	39-58S01
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
8. O-ring feed tube (1)			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	29	63.8	BG00409895
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret. (3)			In seal kit
16. Guide sleeve with 2 O-rings (#14)	3	6.6	26-58J10A
17. Bit retainer ring with O-ring (#14)	0.5	1.1	27-58006A
18. Driver sub	7	15.4	34-58070
Driver hard faced	7.4	16.3	BG00629893
Seal kit			
1 piece of #2, 2 of #3, 1 of #8 & 3 of #15	0.45	0.99	38-58D56
Rebuild kit			
1 piece of #1, 1 of #13, 1 of #18 & seal kit			
3 1/2" API reg. pin	54	118.8	BG00475756
3 1/2" API reg. pin and hard faced driver sub	54.4	119.9	BG00767207

Bit shank

M50



Complete Hammer

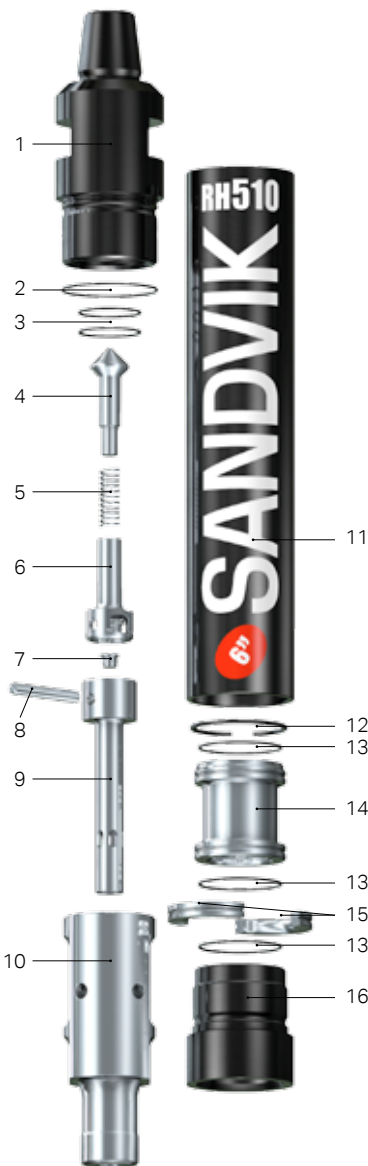
3 1/2" API reg. pin top sub

32-5160-SMA-04S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
72	158	142	5.6	922	36.3	1008	39.7	1046	41.2

AIR CONSUMPTION, CFM

150 psi	250 psi	350 psi	AIR CONSUMPTION, M ³ /MIN		
			10 bar	18 bar	24 bar
343	659	972	9.8	18.7	27.5



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
3 1/2" API reg. pin	20	44	33-68D08/04A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart with spring	0.3	0.66	22-99072
5. Check valve dart spring	0.02	0.044	BG00348123
6. Check valve guide	0.3	0.66	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99013
9. Feed tube with retainer pin and blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case with retainer ring	33	72.6	BG00214914
12. Piston retainer ring	0.1	0.22	23-99028
13. O-rings – guide sleeve, bit retainer (3)			In seal kit
14. Guide sleeve with 2 O-rings (#13)	4	8.8	26-68J10A
15. Bit retainer ring with O-ring (#13)	1	2.2	27-68006A
16. Driver sub	6	13.2	34-68D69

Seal kit

1 piece of #2, 2 of #3 & 3 of #13	0.25	0.55	38-68656
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Rebuild kit

1 piece of #1, 1 of #11, 1 of #16 & seal kit			
3 1/2" API reg. pin	20	44	BG00474856

Bit shank

M60



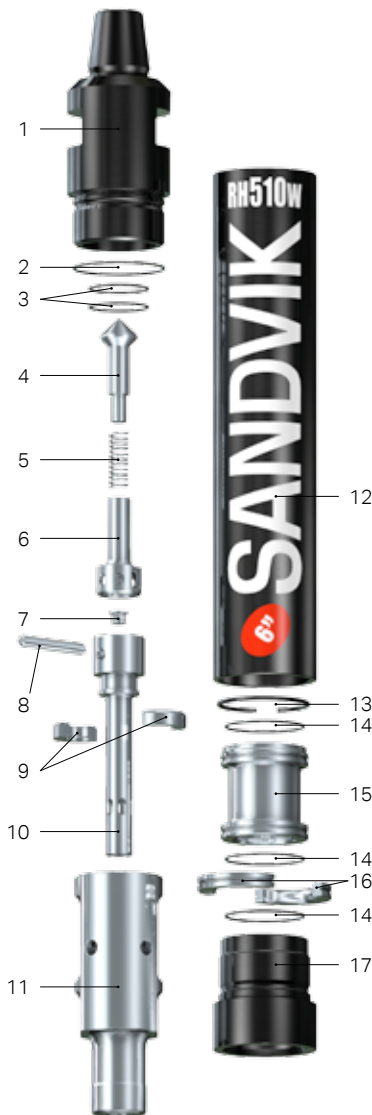
Complete Hammer

3 1/2" API reg. pin

32-5160-WMA-04S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
72	158	142	5.6	922	36.3	1008	39.7	1046	41.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	395	759	1120	11.2	21.5	31.7
Low volume option	345	680	1000	9.8	19.3	28.3



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
3 1/2" API reg. pin	20	44	33-68N08/04A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart with spring	0.3	0.66	25-99002A
5. Check valve dart spring	0.02	0.044	BG00348123
6. Check valve guide	0.3	0.66	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99013
9. Tuning ring (optional)	0.4	0.9	56-68552
10. Feed tube with retainer pin and blank choke	1	2.2	37-68301A
11. Piston	18	39.6	BG00210384
12. Piston case with retainer ring	33	72.6	BG00214914
13. Piston retainer ring	0.1	0.22	23-99028
14. O-rings – guide sleeve, bit retainer (3 req.)			In seal kit
15. Guide sleeve with 2 O-rings (#13)	4	8.8	26-68J10A
16. Bit retainer ring with O-ring (#13)	1	2.2	27-68006A
17. Driver sub	6	13.2	34-68D69

Seal kit			
1 pieces of #2, 2 of #3 & 3 of #14	0.25	0.5	38-68656

Rebuild kit			
1 piece of #1, 1 of #12, 1 of #17 & seal kit			
3 1/2" API reg. pin	20	44	BG00474824

Bit shank

M60



Complete Hammer

3 1/2" API reg. pin top sub

32-5165-GMA-04C

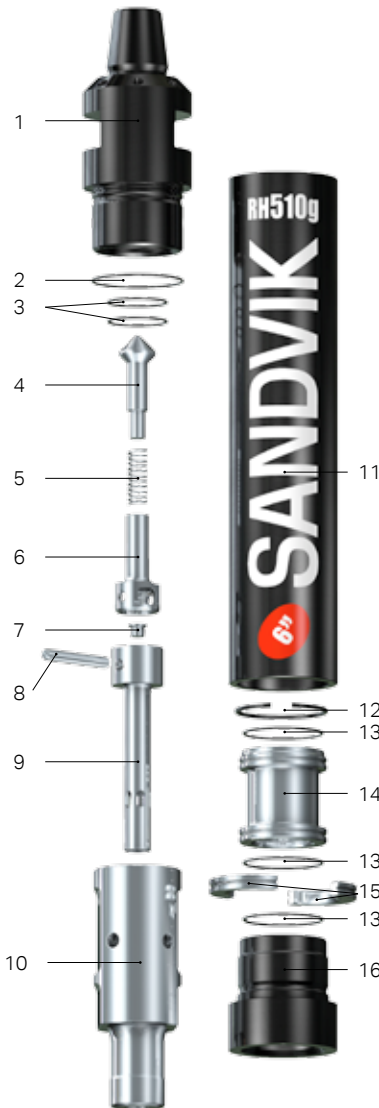
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
82	180	150	5.9	922	36.3	1008	39.7	1046	41.2

AIR CONSUMPTION, CFM

150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
343	659	972	9.8	18.7	27.5

AIR CONSUMPTION, M³/MIN

150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
343	659	972	9.8	18.7	27.5



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
3 1/2" API reg. pin	22	48.4	33-6L009/04CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart with spring	0.3	0.66	25-99002A
5. Check valve dart spring	0.02	0.044	BG00348123
6. Check valve guide	0.3	0.66	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99013
9. Feed tube with retainer pin and blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case with retainer ring	33	72.6	BG00465129
12. Piston retainer ring	0.1	0.22	23-99028
13. O-rings - guide sleeve, bit retainer (3)			In seal kit
14. Guide sleeve with 2 O-rings (#13)	4	8.8	26-68J10A
15. Bit retainer ring with O-ring (#13)	1	2.2	27-68006A
16. Driver sub	6	13.2	34-6LD70
Seal kit			
1 piece of #2, 2 of #3 & 3 of #13	0.25	0.5	38-68656
Rebuild kit			
1 piece of #1, 1 of #11, 1 of #16 & seal kit			
3 1/2" API reg. pin	62	136.4	BG00474803
Bit shank			
M60			



Complete Hammer

3 1/2" API reg. pin top sub	32-5165-RMA-04C
#28 Cubex. pin top sub	32-5165-RMA-56C
3 1/2" BECO. pin top sub	32-5165-RMA-55C
3 1/2" API reg. pin top sub and hard faced driver sub	32-5165-TMA-04C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
82	180	150	5.9	922	36.3	1008	39.7	1046	41.2

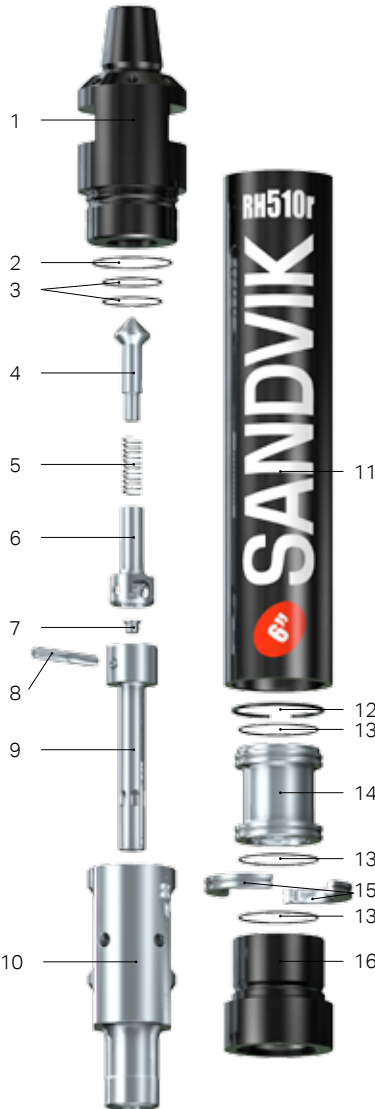
AIR CONSUMPTION, CFM

150 psi	250 psi	350 psi	AIR CONSUMPTION, M ³ /MIN		
			10 bar	18 bar	24 bar
343	659	972	9.8	18.7	27.5

REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
3 1/2" API reg. pin	22	48.4	33-68602/04CA
#28 Cubex. pin	22	48.4	33-68602/56CA
3 1/2" BECO. pin	22	48.4	33-68602/55CA
2. O-ring top sub OD (1)			
3. O-ring top sub ID (2)			
4. Check valve dart with spring			
5. Check valve dart spring			
6. Check valve guide			
7. Choke set, blank 1/8", 3/16", & 1/4"			
8. Feed tube retainer pin			
9. Feed tube with retainer pin and blank choke			
10. Piston			
11. Piston case with retainer ring			
12. Piston retainer ring			
13. O-rings – guide sleeve, bit retainer (3)			
14. Guide sleeve with 2 O-rings (#13)			
15. Bit retainer ring with O-ring (#13)			
16. Driver sub			
Driver sub hard faced			
Seal kit			
1 pieces of #2, 2 of #3 & 3 of #13	0.25	0.5	38-68656
Rebuild kit			
1 piece of #1, 1 of #11, 1 of #16 & seal kit			
3 1/2" API reg. pin	62	136.4	BG00195819
#28 Cubex. pin	62	136.4	BG00474776
3 1/2" BECO. pin	62	136.4	BG00474787
3 1/2" API reg. pin and hard faced driver sub	62	136.4	BG00718140

Bit shank

M60



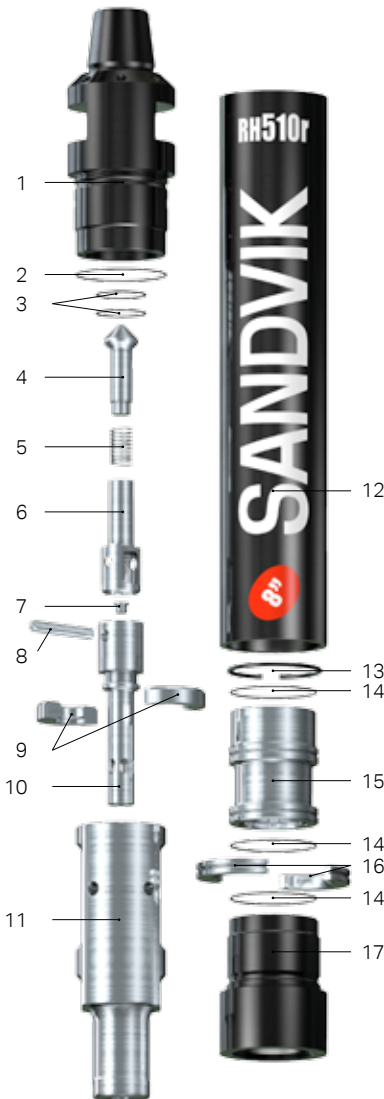
Complete Hammer

4 1/2" API reg. pin top sub

32-5185-RMA-19C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
173	380	181	7.12	1219	48	1310	51.6	1354	53.3

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	460	850	1240	13	23.8	35.1
Low volume option	300	560	830	08.05	15.9	23.5



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
4 1/2" API reg. pin	42	92.4	33-88002/19CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.5	1.1	38-11663A
5. Check valve spring	0.1	0.22	38-1/1235-073
6. Check valve guide	0.7	1.54	39-88001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99016
9. Tuning ring for low volume (optional)	0.8	1.76	56-88552
10. Feed tube with retainer pin and blank choke	2.2	4.84	37-88001A
11. Piston	42	92.4	BG00473429
12. Piston case with retainer ring	56	123.2	BG00473546
13. Piston retainer ring	0.2	0.44	23-99030
14. O-rings guide sleeve & bit ret. (3)			In seal kit
15. Guide sleeve with 2 O-rings (#14)	11	24.2	26-88J10A
16. Bit retainer ring with O-ring (#14)	1.9	4.18	27-88006A
17. Driver sub	17	37.4	34-88007
Seal kit			
1 piece of #2, 2 of #3 & 3 of #14	0.25	0.55	38-88056
Rebuild kit			
1 piece of #1, 1 of #12, 1 of #17 & seal kit			
4 1/2" API reg. pin	115	253	BG00478483
Bit shank			

M80



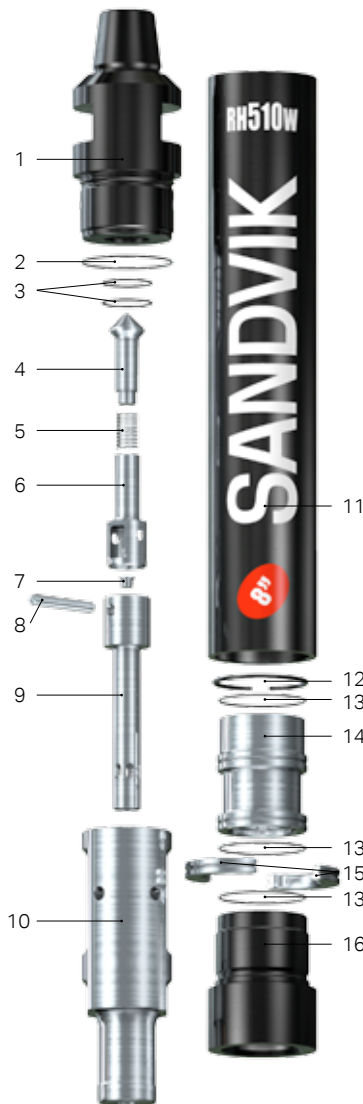
Complete Hammer

4 1/2" API reg. pin top sub

32-5185-WMA-19S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
173	380	181	7.12	1270	50	1361	53.6	1405	55.3

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
525	975	1540	14.9	27.6	43.6



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
4 1/2" API reg. pin	42	92.4	33-88302/19A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.5	1.1	38-11663A
5. Check valve spring	0.1	0.22	38-1/1235-073
6. Check valve guide	0.7	1.54	39-88001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99016
9. Feed tube with retainer pin and blank choke	2.2	4.84	37-88301A
10. Piston	42	92.4	BG00473429
11. Piston case with retainer ring	56	123.2	BG00473706
12. Piston retainer ring	0.2	0.44	23-99030
13. O-rings guide sleeve & bit ret. (3)			In seal kit
14. Guide sleeve with 2 O-rings (#14)	11	24.2	26-88J10A
15. Bit retainer ring with O-ring (#14)	1.9	4.18	27-88006A
16. Driver sub	17	37.4	34-88007

Seal kit	Weight, kg	Weight, lb	Part No.
1 piece of #2, 2 of #3 & 3 of #13	0.25	0.55	38-88056

Rebuild kit	Weight, kg	Weight, lb	Part No.
1 piece of #1, 1 of #11, 1 of #16 & seal kit			
4 1/2" API reg. pin	115	253	BG00478484

Bit shank	Weight, kg	Weight, lb	Part No.
M80			





RELIABLE PERFORMANCE WITH A ROCK SOLID DESIGN

The Sandvik RH460 hammer series has a proven track record of high reliability, performance and efficiency in varying ground conditions.

This has been achieved through solid piston and inner cylinder concept. The solid piston concept without any cross holes reduces stress induced failures. This provides for more reliability and long and uninterrupted service life. The design has been optimized to deliver high performance with maximum efficiency. The RH460 hammers can operate at pressures up to 35 bar (500 psig) and have the capability to drill in all directions.

Key features:

- Industry standard shank
- High reliability
- Optimized air cycle
- Solid piston and Inner cylinder concept
- High Pressure hammers, up to 35 bar (500 psig)

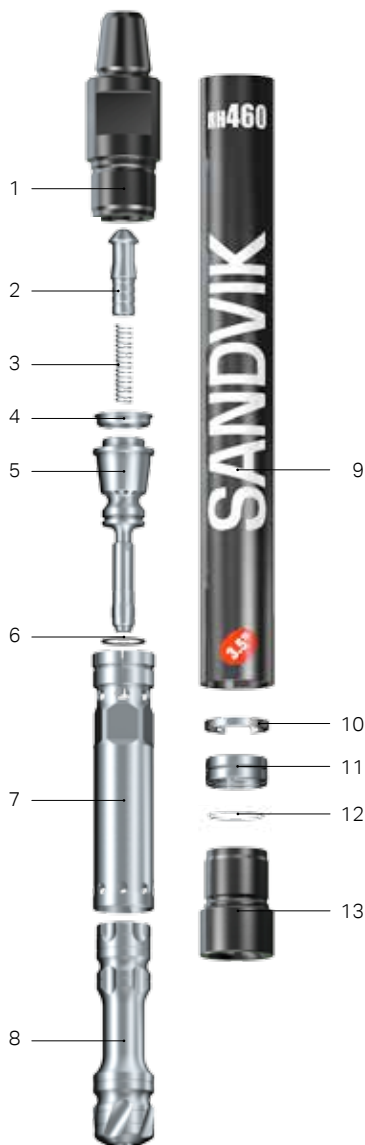
3.5" RH460 HAMMERS	26
4" RH460 HAMMERS	27
5" RH460 HAMMERS	29
6" RH460 HAMMERS	31
8" RH460 HAMMERS	33

Complete Hammer

2 3/8" API reg pin	25,5	56,2	32-4635-SDA-16S
#21 Cubex Pin	25,5	56,2	32-4635-SDA-63S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
25,5	56,2	85	3,35	846	33	911	36	939	37

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
169	324	445	4.8	9.2	12.6	18	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API reg pin	5.80	12.8	BG00014759
#21 Cubex pin	5.80	12.8	BG00568016
2. Check valve dart no choke			
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring	0.10	0.2	BG00014763
5. Air distributor with O-ring	1.90	4.2	BG00100316
6. O-ring air distributor			In seal kit
7. Inner cylinder	1.90	4.2	BG00100315
8. Piston	4.50	9.9	BG00100318
9. Piston case with retainer ring	9.20	20.3	BG00100312
10. Piston retainer ring	0.05	0.1	BG00014773
11. Bit retainer ring with O-ring	0.30	0.7	BG00232818
12. O-ring bit retainer ring			In seal kit
13. Driver sub	2.10	4.6	BG00368000

Optional

Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.24	0.5	BG00119068
Driver sub hard faced	2.2	5.0	BG00821703

Seal kit

1 piece of 6, 12	0.02	0.04	BG00566365
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Rebuild kit

1 piece of 1,9,13 & seal kit			
2 3/8" API reg pin	17.0	37.5	BG00566394
#21 Cubex pin	17.0	37.5	BG00568045

Bit shank

DHD3.5HD



Complete Hammer

2 3/8" API reg pin	40	88	32-4640-SDA-16S
#24 Cubex pin	40	88	32-4640-SDA-77S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
40	88	97.5	3.84	985	38.78	1075	42.16	1109	43.66

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
190	395	565	5.4	11.2	16	25	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API reg pin	8.2	18	BG00014822
#24 Cubex pin	7.9	17.4	BG00242018
2. Check valve dart no choke			
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring			
5. Air distributor with O-ring	2	4.4	BG00056811
6. O-ring air distributor			
In seal kit			
7. Inner cylinder			
8. Piston DHD340	7.8	17.2	BG00243036
9. Piston case with retainer ring			
10. Piston retainer ring	0.1	0.22	BG00014819
11. Bit retainer ring with O-ring DHD340			
12. O-ring bit retainer ring	0.17	0.37	BG00014818
13. Driver sub			
	3.5	7.7	BG00059100

Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.24	0.53	BG00119068
Driver sub hard faced DHD340	3.5	7.7	BG00241988

Seal kit			
1 piece of #6, #12	0.02	0.04	BG00014848

Rebuild kit			
1 piece of #1, #9, #13 & seal kit			
2 3/8" API reg pin	27	59.4	BG00081841
#24 Cubex pin	26.8	59	BG00242283

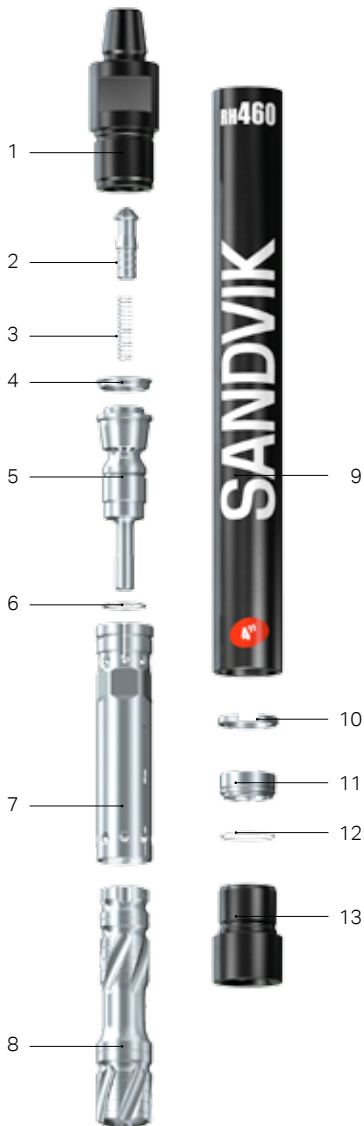
Bit shank	
DHD340	

Complete Hammer

2 3/8" API reg pin	40	88	32-4640-STA-16S
#24 Cubex pin	40	88	32-4640-STA-77S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
40	88	97.5	3.84	985	38.78	1075	42.16	1109	43.66

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
190	395	565	5.4	11.2	16	25	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API reg pin	8.2	18	BG00014822
#24 Cubex pin	7.9	17.4	BG00242018
2. Check valve dart no choke	0.24	0.53	BG00320005
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring	0.1	0.22	BG00014825
5. Air distributor with O-ring	2	4.4	BG00056811
6. O-ring air distributor			In seal kit
7. Inner cylinder	2.1	4.62	BG00110688
8. Piston QLX40	7.7	16.9	BG00242889
9. Piston case with retainer ring	15.4	33.9	BG00050403
10. Piston retainer ring	0.1	0.22	BG00014819
11. Bit retainer ring with O-ring QLX40	0.2	0.44	BG00059039
12. O-ring bit retainer ring			In seal kit
13. Driver sub	2.8	6.16	BG00058997

Optional

Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.24	0.53	BG00119068
Driver sub hard faced QLX40	2.8	6.16	BG00242001

Seal kit

1 piece of #6, #12	0.02	0.04	BG00014848
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Rebuild kit

1 piece of #1, #9, #13 & seal kit			
2 3/8" API reg pin	27	59.4	BG00242267
#24 Cubex pin	26.8	59	BG00242295

Bit shank

QLX40



Complete Hammer

3 1/2" API reg pin	66	145	32-4650-SQA-04S
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WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
66	145	120	4.72	1067	42.01	1156	45.51	1185	46.65

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
275	544	756	7.8	15.4	21.4	32.3	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API reg pin	14.8	32.56	BG00014995
2. Check valve dart no choke	0.45	0.99	BG00319921
3. Check valve spring	0.03	0.07	BG00854876
4. Make up ring	0.20	0.44	BG00014994
5. Air distributor with O-ring	3.60	7.92	BG00014996
6. O-ring air distributor			In seal kit
7. Inner cylinder	4.2	9.24	BG00025161
8. Piston	14.3	31.46	BG00062889
9. Piston case with retainer ring	22	48.4	BG00014999
10. Piston retainer ring	0.10	0.22	BG00014998
11. O-ring guide sleeve			In seal kit
12. Guide sleeve with O-ring	1	2.2	BG00014988
13. Bit retainer ring with O-ring	0.4	0.88	BG00014989
14. O-ring bit retainer ring			In seal kit
15. Driver sub	5	11	BG00014993

Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.4	0.88	BG00014985
Driver sub hard faced	5	11	BG00162923

Seal kit			
1 piece of #6, #14 & 2 of #11	0.01	0.02	BG00015014

Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
3 1/2" API reg pin	41.5	91.3	BG00081790

Bit shank			
QL50			



Complete Hammer

3 1/2" API reg pin	76.0	167	32-4655-GQA-04C
#24 Cubex pin	74.0	163	32-4655-GQA-77C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
76	167	126	4.96	1067	42.01	1156	45.51	1185	46.65

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
275	544	756	7.8	15.4	21.4	32.3	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API reg pin	15.5	34.1	BG00068455
#24 Cubex pin	13.5	29.7	BG00166404
2. Check valve dart no choke			
3. Check valve spring	0.03	0.07	BG00854876
4. Make up ring			
5. Air distributor with O-ring			
6. O-ring air distributor			
7. Inner cylinder			
8. Piston			
9. Piston case with retainer ring			
10. Piston retainer ring			
11. O-ring guide sleeve			
12. Guide sleeve with O-ring			
13. Bit retainer ring with O-ring			
14. O-ring bit retainer ring			
15. Driver sub hard faced			

Optional

Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.40	0.88	BG00014985

Seal kit

1 piece of #6, #14 & 2 of #11	0.01	0.02	BG00015014
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Rebuild kit

1 piece of #1, #9, #15 & seal kit			
3 1/2" API reg pin	51.0	112	BG00081817
#24 Cubex pin	49.0	108	BG00166783

Bit shank

QL50



Complete Hammer

3 1/2" API reg pin	100	220	32-4660-SQA-04S
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WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
100	220	142	5.59	1155	45.47	1263	49.72	1304	51.34

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
307	625	879	8.7	17.7	25	42.4	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API reg pin	24	52.8	BG00014888
2. O-ring top sub			In seal kit
3. Check valve dart no choke	0.7	1.54	BG00321398
4. Check valve spring	0.1	0.22	BG00854872
5. Make up ring	0.4	0.88	BG00014865
6. Air distributor with O-ring	6.2	13.6	BG00054361
7. O-ring air distributor			In seal kit
8. Inner cylinder	6.4	14.1	BG00123002
9. Piston	21.4	47.1	BG00243084
10. Piston case with retainer ring	32.4	71.3	BG00054318
11. Piston retainer ring	0.1	0.22	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve with O-ring	2.3	5.06	BG00055719
14. Bit retainer ring with O-ring	0.6	1.32	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub	6.5	14.3	BG00014887
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.7	1.54	BG00014869
Driver sub hard faced	6.50	14.3	BG00242302
Seal kit			
1 piece of #2, #7, #15 & 2 of #12	0.01	0.02	BG00014894
Rebuild kit			
1 piece of #1, #10, #16 & seal kit			
3 1/2" API reg pin	63.0	139	BG00240392

Bit shank

QL60

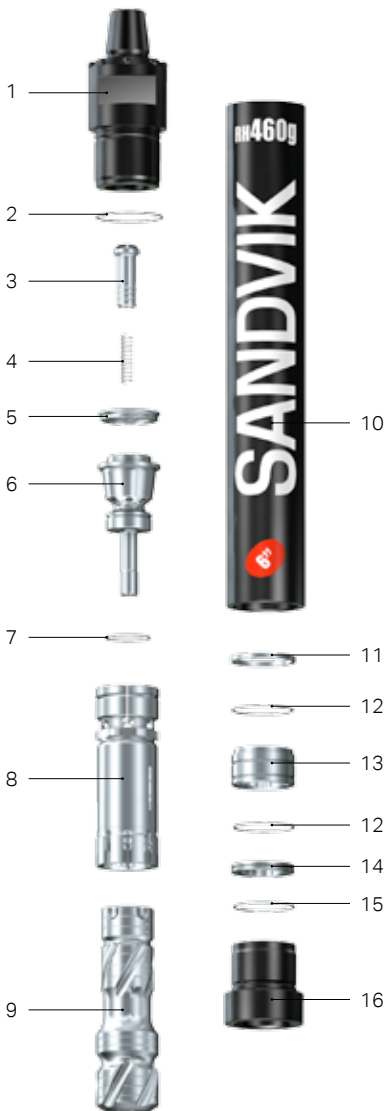


Complete Hammer

3 1/2" API reg pin	117	257	32-4665-GQA-04C
#28 Cubex pin	117	257	32-4665-GQA-56C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
117	257	150	5.91	1155	45.47	1263	49.72	1304	51.34

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
307	625	879	8.7	17.7	25	42.4	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API reg pin	25.4	55.9	BG00224812
#28 Cubex pin	26	57.2	BG00237751
2. O-ring top sub			In seal kit
3. Check valve dart no choke	0.7	1.54	BG00321398
4. Check valve spring	0.03	0.07	BG00854872
5. Make up ring	0.4	0.88	BG00014865
6. Air distributor with O-ring	6.2	13.6	BG00054361
7. O-ring air distributor			In seal kit
8. Inner cylinder	6.4	14.1	BG00123002
9. Piston	21.4	47.1	BG00243084
10. Piston case with retainer ring	46.4	102	BG00224808
11. Piston retainer ring	0.1	0.22	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve with O-ring	2.3	5.06	BG00055719
14. Bit retainer ring with O-ring	0.6	1.32	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub	7.2	15.8	BG00224798
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.7	1.54	BG00014869
Seal kit			
1 piece of #2, #7, #15 & 2 of #12	0.01	0.02	BG00014894
Rebuild kit			
1 piece of #1, #10, #16 & seal kit			
3 1/2" API reg pin	79	174	BG00240400
#28 Cubex pin	80	176	BG00240135

Bit shank

QL60



Complete Hammer

4 1/2" API reg pin	213	469	32-4680-SQA-19S
--------------------	-----	-----	-----------------

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
213	469	183	7.20	1426	56.14	1566	61.65	1608	63.31

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
424	953	1448	12	27	41	50	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
4 1/2" API reg pin	55	121	BG00096730
2. Check valve dart no choke	0.80	1.76	BG00321984
3. Check valve spring	0.04	0.09	BG00652827
4. Make up ring	0.4	0.88	BG00015380
5. Air distributor with O-ring	9.4	20.7	BG00078615
6. O-ring air distributor			In seal kit
7. Inner cylinder	10.5	23.1	BG00057803
8. Piston	50	110	BG00277131
9. Piston case with retainer ring	64	141	BG00057909
10. Piston retainer ring	0.2	0.44	BG00096748
11. O-ring guide sleeve			In seal kit
12. Guide sleeve with O-ring	3	6.6	BG00096749
13. Bit retainer ring with O-ring	1.4	3.08	BG00096752
14. O-ring bit retainer ring			In seal kit
15. Driver sub	13.6	29.9	BG00096753

Optional			
Choke set, blank, 3mm, 4.5mm and 6mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.8	1.76	BG00015375
Driver sub hard faced	13.6	29.9	BG00367978

Seal kit			
1 piece of #6, #11 & #14	0.01	0.02	BG00303706

Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
4 1/2" API reg pin	134	295	BG00305733

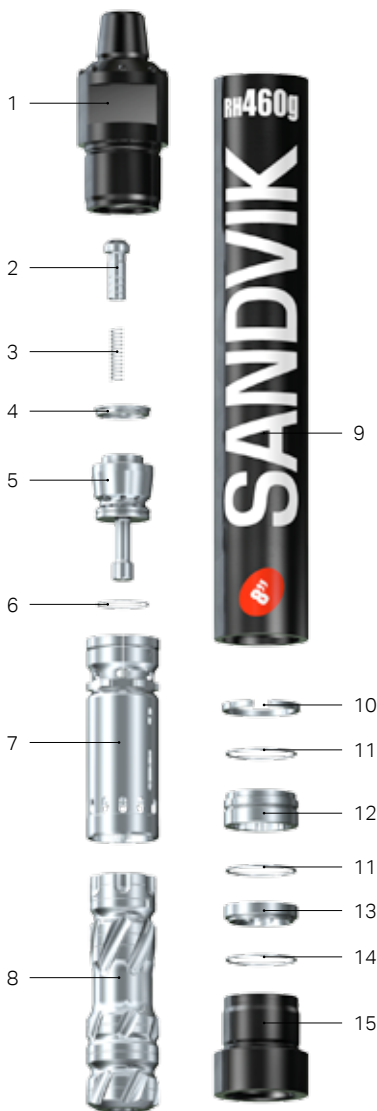
Bit shank			
QL80			

Complete Hammer

4 1/2" API reg pin	244	537	32-4685-GQA-19C
4 1/2" BECO pin	244	537	32-4685-GQA-72C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
244	537	194	7.64	1426	56.14	1566	61.65	1608	63.31

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
424	953	1448	12	27	41	50	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
4 1/2" API reg pin	57.0	125	BG00365764
4 1/2" BECO pin	57.0	125	BG00278298
2. Check valve dart no choke			
3. Check valve spring			
4. Make up ring			
5. Air distributor with O-ring			
6. O-ring air distributor			
7. Inner cylinder			
8. Piston			
9. Piston case with retainer ring			
10. Piston retainer ring			
11. O-ring guide sleeve			
12. Guide sleeve with O-ring			
13. Bit retainer ring with O-ring			
14. O-ring bit retainer ring			
15. Driver sub hard faced			

Optional			
Choke set, blank, 3mm, 4.5mm and 6mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.80	1.76	BG00015375

Seal kit			
1 piece of #6, #11 & #14	0.01	0.02	BG00303706

Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
4 1/2" API reg pin	168	370	BG00367721
4 1/2" BECO pin	167	367	BG00305742

Bit shank	
QL80	



INVEST IN LONG-TERM DRILLING CAPACITY

All drill bits are fitted with our cemented carbide inserts, which provide you with superior life and drilling productivity.

Drill bit bodies make use of precision hardened Nickel Molybdenum steel and compound curve body designs to maximize cutting efficiency and cuttings removal. Each bit is uniquely designed to maximize penetration and increase flushing. The Sandvik DTH button bit designs are well known and extensively used around the world. The bits in our new range have an optimized bit head length, with maximized steel support for the cemented Carbide buttons, deep face grooves for excellent flushing and an aggressive cutting structure.

OPTIMIZED HEAD DESIGN

Long wear life, and optimal balance between wear and energy transmission

BALLISTIC OR SPHERICAL BUTTONS IN DIFFERENT CARBIDE GRADES

Allows you to make the best choice for different rock conditions

OPTIMIZED CUTTING STRUCTURE

Gives good penetration and bit life in all rock formations

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BIT SELECTION GUIDE

FACES	CARBIDES	ROCK HARDNESS		ROCK STRUCTURE		ROCK ABRASIVENESS	
Concave	Ballistic	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
Concave	Spherical	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
Convex	Ballistic	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
Convex	Spherical/Ballistic	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
Flat	Spherical	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
Uniface	Spherical	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive

Cemented carbides types specifications

This bit selection guide will help you select the right bit for the type of rock you are drilling.

Note: Cemented carbide grades DP55 and DP65 are available on several bits.

Convex face with spherical gauge buttons and ballistic front buttons.

BIT SHANK IDENTIFICATION CHART

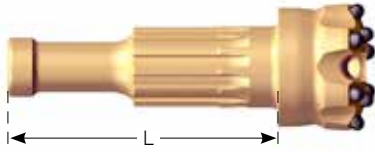
M30 • 3", L = 224 MM, 8 SPLINES



DHD3.5HD • 3.5", L = 240 MM, 8 SPLINES



M40 • 4", L = 228 MM, 12 SPLINES



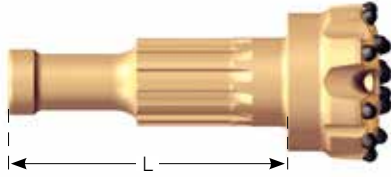
DHD340 • 4", L = 209 MM, 8 SPLINES



QLX40 • 4", L = 266 MM, 12 SPLINES



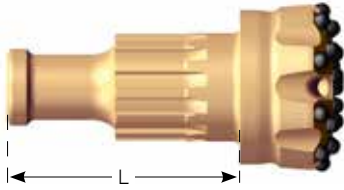
M50 • 5", L = 259 MM, 12 SPLINES



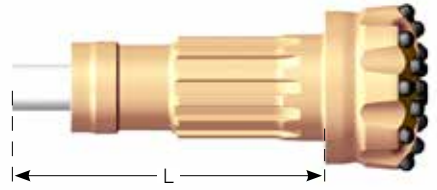
QL50 • 5", L = 293 MM, 12 SPLINES



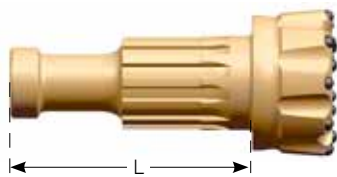
M60 • 6", L = 230 MM, 12 SPLINES



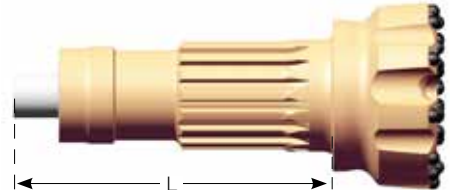
QL60 • 6", L = 312 MM, 12 SPLINES



M80 • 8", L = 329 MM, 12 SPLINES



QL80 • 8", L = 384 MM, 16 SPLINES



STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

DRILL PIPES

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EQUIPMENT






NON-STANDARD
DTH HAMMERS

NON-STANDARD
DTH DRILL BITS

DTH BITS / M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
M30										
Concave face / Ballistic button										M30
	90	3 1/2	2	8	12	12	4.7	10	42-3A51090-R48	
	95	3 3/4	2	8	12	12	4.7	10	42-3A51095-R48	
	100	3 7/8	2	8	13	13	5.3	12	42-3A54100-R48	
	105	4 1/8	2	8	14	14	5.3	12	42-3A5B105-R48	
Flat face / Spherical button										
	90	3 1/2	2	8	11	11	4.7	10	42-3AF0090-S48	
	95	3 3/4	2	8	12	12	4.7	10	42-3AF1095-S48	
	100	3 7/8	2	8	13	13	5.3	12	42-3AF4100-S48	
	105	4 1/8	2	8	14	14	5.3	12	42-3AFB105-S48	
M40										
Concave face / Ballistic button										M40
	115	4 1/2	2	8	14	14	8.4	18	42-481B115-R48	
	115	4 1/2	2	8	14	14	8.4	18	42-481B115-R55	
	127	5	2	8	14	14	12	26	42-481B127-R48	
	127	5	2	8	14	14	12	26	42-481B127-R55	
Concave face / Spherical button										
	115	4 1/2	2	8	14	14	8.4	18	42-481B115-S48	
	115	4 1/2	2	8	14	14	8.4	18	42-481B115-S65	
	127	5	2	8	14	14	12	26	42-481B127-S48	
	127	5	2	8	14	14	12	26	42-481B127-S65	
	133	5 1/4	2	8	16	13	15	33	42-4818133-S48	
Convex face / Ballistic button										
	110	4 3/8	2	8	14	14	8	18	42-485B110-R48	
	115	4 1/2	2	8	14	14	8.4	18	42-485B115-R48	
	127	5	2	8	14	14	12	26	42-485B127-R48	
	127	5	2	8	14	14	12	26	42-485B127-R55	
Flat face / Spherical button										
	110	4 3/8	2	8	14	14	8	18	42-48FB110-S48	
	115	4 1/2	2	8	14	14	8.4	18	42-48FB115-S48	
	127	5	2	8	14	14	12	26	42-48FB127-S48	
	130	5 1/8	2	8	16	14	14	31	42-48F9130-S48	

DTH BITS / M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
M50										
Concave face / Ballistic button										
	140	5 1/2	2	8	16	14	15	33	42-5819140-R48	
	140	5 1/2	2	8	16	14	15	33	42-5819140-R55	
Concave face / Spherical button										
	140	5 1/2	2	8	16	14	15	33	42-5819140-S48	
	140	5 1/2	2	8	16	14	15	33	42-5819140-S65	
	146	5 3/4	2	8	16	14	16	35	42-5819146-S48	
	152	6	2	8	18	16	17.1	38	42-581D152-S48	
	165	6 1/2	2	8	18	16	18	40	42-581D165-S48	
Convex face / Ballistic button										
	140	5 1/2	3	9	16	16	15	33	42-58LC140-R48	
	140	5 1/2	3	9	16	16	15	33	42-58LC140-R55	
Flat face / Spherical button										
	133	5 1/4	3	9	16	14	14.3	31	42-58F9133-S48	
	140	5 1/2	3	9	16	14	15	33	42-5829140-S48	
	152	6	3	9	18	16	17.1	38	42-582D152-S48	

STANDARD
DTH HAMMERS

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NON-STANDARD
DTH HAMMERS







NON-STANDARD
DTH DRILL BITS

DTH BITS / M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
M60										
Concave face / Spherical button										M60
	152	6	2	8	18	18	21.8	48	42-681E152-S48	
	155	6 1/8	2	8	18	18	22.2	49	42-681E155-S48	
	155	6 1/8	2	8	18	18	22.2	49	42-681E155-S65	
	165	6 1/2	3	9	18	18	23.5	52	42-68DE165-S48	
	165	6 1/2	3	9	18	18	23.5	52	42-68DE165-S65	
	172	6 3/4	3	9	18	18	25	55	42-68DE172-S48	
	172	6 3/4	3	9	18	18	25	55	42-68DE172-S65	
	203	8	3	9	18	18	29.1	64	42-68DE203-S48	
Convex face / Ballistic button										
	165	6 1/2	3	9	18	18	23.5	52	42-68GE165-R48	
	165	6 1/2	3	9	18	18	23.5	52	42-68GE165-R55	
	172	6 3/4	3	9	18	18	25	55	42-68GE172-R48	
	172	6 3/4	3	9	18	18	25	55	42-68GE172-R55	
Convex face / Spherical button										
	172	6 3/4	3	9	18	18	25	55	42-68GE172-W55	
Flat face / Spherical button										
	165	6 1/2	3	9	18	18	23.5	52	42-682E165-S48	
	165	6 1/2	3	9	18	18	23.5	52	42-682E165-S65	
	172	6 3/4	3	9	18	18	25	55	42-682E172-S48	
	203	8	3	9	18	18	29.1	64	42-682E203-S48	
Uniface										
	165	6 1/2	4	8	18	16/14/13	22.1	48.7	42-68YY165-S48	
	165	6 1/2	4	8	18	16/14/13	22.1	48.7	42-68YY165-S65	
	172	6 3/4	4	8	18	16/14/13	22.6	49.8	42-68YY172-S48	
	172	6 3/4	4	8	18	16/14/13	22.6	49.8	42-68YY172-S65	
M80										
Concave face / Spherical button										M80
	203	8	3	9	18	18	41	90	42-88PE203-S48	
	203	8	3	9	18	18	41	90	42-88PE203-S65	
	222	8 3/4	3	12	18	18	49	108	42-888E222-S48	
	229	9	3	12	18	18	53	117	42-888E229-S48	
	254	10	3	12	18	18	57	125	42-888E254-S48	

DTH BITS / DHD3.5 / DHD340 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank	
	mm	inch			gauge	front	kg	lb			
DHD3.5 HD											
Flat face/Spherical button										DHD3.5 HD	
	90	3 1/2	2	8	11	11	6.3	13.9	42-3HF0090-S48		
	95	3 3/4	2	8	12	12	6.4	14.1	42-3HF1095-S48		
	100	3 7/8	2	8	13	13	6.7	14.8	42-3HF4100-S48		
	105	4 1/8	2	8	14	14	6.8	15.0	42-3HFB105-S48		
Convex face/Ballistic button											
	90	3 1/2	2	8	12	12	6.2	13.7	42-3H51090-R48		
	Foot valve										
							0.5	1	47-3H017		

DHD340										
Concave face/Spherical button										DHD340
	115	4 1/2	2	8	14	13	8,4	18	42-361A115-S48	
	Convex face/Ballistic button									
	115	4 1/2	2	8	14	13	8,4	18	42-365A115-R48	
	127	5	2	8	14	13	12	26	42-365A127-R48	
Flat face/Spherical button										
	115	4.5	2	8	14	13	8.4	18	42-36FA115-S48	
	115	4.5	2	8	16	13	8.4	18	42-36F8115-S65	
	127	5	2	8	14	13	12	26	42-36FA127-S48	
Uniface										
	115	4.5	3	9	14	14/13/12	9.4	20.7	42-36YY115-S48	
	115	4.5	3	9	14	14/13/12	9.4	20.7	42-36YY115-S65	
	127	5	3	9	16	14/12	9.9	21.8	42-36YY127-S48	
	127	5	3	9	16	14/12	9.9	21.8	42-36YY127-S65	
Foot valve										
							0.5	1	47-36017	

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DTH BITS

DTH TUBEX SYSTEMS

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NON-STANDARD
DTH DRILL BITS

DTH BITS / QLX40 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
QLX 40										
Concave face / Spherical button										QLX 40
	115	4 1/2	2	8	14	13	8.4	18	42-4G1A115-S48	
	115	4 1/2	2	8	14	13	8.4	18	42-4G1A115-S65	
	127	5	2	8	14	13	12	26	42-4G1A127-S48	
Convex face / Ballistic button										
	110	4 3/8	2	8	14	13	8	18	42-4G5A110-R48	
	115	4 1/2	2	8	14	13	8.4	18	42-4G5A115-R48	
	127	5	2	8	14	13	12	26	42-4G5A127-R48	
Flat face / Spherical button										
	110	4 3/8	2	8	14	13	8	18	42-4GFA110-S48	
	115	4 1/2	2	8	16	13	8.4	18	42-4GF8115-S65	
	127	5	2	8	14	13	12	26	42-4GFA127-S48	
Uniface										
	115	4 1/2	3	9	14	14/13/11	9.7	21.4	42-4GY115-S48	
	115	4 1/2	3	9	14	14/13/11	9.7	21.4	42-4GY115-S65	
	127	5	3	9	16	14/12	10.2	22.5	42-4GY127-S48	
	127	5	3	9	16	14/12	10.2	22.5	42-4GY127-S65	
Foot valve										
							0.5	1	47-4G017	

DTH BITS / QL50 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
QL50										
Concave face / Spherical button										
	140	5 1/2	2	8	16	14	15	33	42-5019140-S48	
	140	5 1/2	2	8	16	14	15	33	42-5019140-S65	
	146	5 3/4	2	8	16	14	16	35	42-5019146-S48	
	146	5 3/4	2	8	16	14	16	35	42-5019146-S65	
	152	6	2	8	18	16	17.1	38	42-501D152-S48	
Flat face / Spherical button										
	140	5 1/2	3	9	16	14	15	33	42-5029140-S48	
	146	5 3/4	3	9	16	14	16	35	42-5029146-S48	
Uniface										
	140	5 1/2	4	8	18	16/13	15.9	35.1	42-50YY140-S48	
	140	5 1/2	4	8	18	16/13	15.9	35.1	42-50YY140-S65	
	146	5 3/4	4	8	18	14/13	16.6	36.6	42-50YY146-S48	
	140	5 1/2	4	8	18	14/13	16.6	36.6	42-50YY146-S65	
Foot valve										
							0.5	1.2	47-50017	

STANDARD
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DTH TUBEX SYSTEMS

DRILL PIPES








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DTH BITS / QL60 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
QL60										
Concave face/Spherical button										QL60
	152	6	2	8	18	18	25.8	57	42-761E152-S48	
	165	6 1/2	3	9	18	18	27.5	61	42-76DE165-S48	
	165	6 1/2	3	9	18	18	27.5	61	42-76DE165-S65	
	172	6 3/4	3	9	18	18	29	64	42-76DE172-S48	
	203	8	3	9	18	18	33.1	73	42-76DE203-S48	
Flat face/Spherical button										
	165	6 1/2	3	9	18	18	27.5	61	42-762E165-S48	
	165	6 1/2	3	9	18	18	27.5	61	42-762E165-S65	
	172	6 3/4	3	9	18	18	29	64	42-762E172-S48	
	203	8	3	9	18	18	33.1	73	42-762E203-S48	
Uniface										
	165	6 1/2	4	8	18	16/14/13	24.5	54.0	42-76YY165-S48	
	165	6 1/2	4	8	18	16/14/13	24.5	54.0	42-76YY165-S65	
	172	6 3/4	4	8	18	16/14/13	25.0	55.1	42-76YY172-S48	
	172	6 3/4	4	8	18	16/14/13	25.0	55.1	42-76YY172-S65	
Foot valve										
							0.5	1.2	47-76017	

DTH BITS / QL80 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
QL80										
Concave face / Spherical button										QL80
	203	8	3	9	18	18	50.4	111	42-83PE203-S48	
	222	8 3/4	3	12	18	18	54.4	120	42-838E222-S48	
	229	9	3	12	18	18	55.2	121	42-838E229-S48	
	229	9	3	12	18	18	55.2	121	42-838E229-S65	
	254	10	3	12	18	18	64	141	42-838E254-S48	
	254	10	3	12	18	18	64	141	42-838E254-S65	
Uniface										
	203	8	4	8	22	18/16/14	50.1	110.5	42-83YY203-S48	
	203	8	4	8	22	18/16/14	50.1	110.5	42-83YY203-S65	
	229	9	4	12	22	18/16/14	55.7	122.8	42-83YY229-S48	
	229	9	4	12	22	18/16/14	55.7	122.8	42-83YY229-S65	
	254	10	4	12	22	18/16/14	64.8	142.9	42-83YY254-S65	
Foot valve										
							0.5	1.2	47-83017	

HOLE OPENERS



For further information, please contact your nearest Sandvik Mining and Rock Technology representative for a quote and delivery time.

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DTH TUBEX SYSTEMS



TUBEX	Part	Description	Weight (Kg)	Weight (lbs)	Part no.
XL-90	Guide device	M30	7	15,4	80-3A00-090D
	Guide device	DHD3,5 (Foot valve, 47-24017)	7	15,4	80-2400-090D
	Pilot bit	1/8, 12/12, CV, DP65	3,6	7,9	81-090B-090A65
	Eccentric reamer		1,4	3	82-090B-123W65
	Casing shoe		1,1	2,4	84-090D-00
	Locking kit		0,5	1	85-090A-KT
XL-115	Guide device	M40	12	26,4	80-4800-115D
	Guide device	DHD340 (Foot valve, 47-36017)	12	26,4	80-3600-115D
	Guide device	QLX40 (Foot valve, 47-4G017)	12	26,4	80-4G00-115D
	Pilot bit	2/8, 14/14, CV, DP65	8	17,6	81-115A-115A65
	Eccentric reamer		2,6	5,7	82-115A-152W65
	Casing shoe		1,6	3,5	84-115D-00
Locking kit		0,5	1	85-115A-KT	
XL-140	Guide device	M50	21	46,3	80-5800-140D
	Guide device	QL50 (Foot valve, 47-55017)	21	46,3	80-5500-140D
	Guide device	DHD350 (Foot valve, 47-69037)	21	46,3	80-6900-140D
	Pilot bit	2/8, 14/14, CV, DP65	11	24,2	81-140A-140A65
	Eccentric reamer		4	8,8	82-140A-189W65
	Casing shoe		2,4	5,3	84-140D-00
Locking kit		0,5	1	85-140A-KT	
XL-165	Guide device	M60	34	75	80-6800-165D
	Guide device	DHD360 (Foot valve, 47-73017-1)	34	75	80-7300-165D
	Guide device	QL60 (Foot valve, 47-76017)	34	75	80-7600-165D
	Pilot bit	2/8, 16/16, CV, DP65	17	37,5	81-165A-165A65
	Eccentric reamer		7	15,4	82-165A-212W65
	Casing shoe		3,2	7	84-165D-00
Locking kit		0,5	1	85-165A-KT	
XL-180	Guide device	DHD360 (Foot valve, 47-73017-1)	44	97	80-7300-180D
	Pilot bit	2/8, 16/16, CV, DP65	24	53	81-180A-180A65
	Eccentric reamer		10	22	82-180A-232W65
	Casing shoe		4	8,8	84-180D-00
	Locking kit		0,5	1	85-180A-KT

DTH TUBEX SYSTEMS

TUBEX	Part	Description	Weight	Weight	Part no.
			(Kg)	(lbs)	
XL-190					
	Guide device	M60	40	88	80-6800-190D
	Guide device	QL60 (Foot valve, 47-76017)	44	97	80-7600-190D
	Guide device	DHD360 (Foot valve, 47-73017-1)	44	97	80-7300-190D
	Pilot bit	3/8, 16/16, CV, DP65	29	64	81-190A-190A65
	Eccentric reamer		10	22	82-190A-237W65
	Casing shoe		4	8,8	84-190D-00
	Locking kit		0,5	1,0	85-190A-KT
XL-240					
	Guide device	M80	67	148	80-8800-240D
	Guide device	DHD 380 (Foot valve, 47-87017)	67	148	80-8700-240D
	Pilot bit	2/12, 16/16, CV, DP65	46	101	81-240B-240A65
	Eccentric reamer		18	40	82-240B-308W65
	Casing shoe		7	15,4	84-240A-00
	Locking kit		1	2,2	85-240A-KT
XL-280					
	Guide device	SD10 (Foot valve, 47-10017)	160	353	80-1000-280A
	Pilot bit	3/12, 18/18, CV, DP65	88	194	81-280A-280A65
	Eccentric reamer		43	94	82-280A-378W65
	Casing shoe		15	33	84-280A-00
	Locking kit		1,5	3,3	85-280A-KT

STANDARD
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HIGH-TECH DRILL PIPES FOR SMOOTH DRILLING

We offer a line of drill pipes which provides you with a great degree of compatibility between rigs and tools.

Cold-drawn seamless tubing material, N80, is used to ensure straightness, thickness and high strength. This gives a smoother drilling process and, consequently, a longer service life. The material also provides a smooth, fine surface that eliminates the risk of hammer failures caused by scaling. Furthermore, the tool joints are made out of micro alloy steel and are case-hardened for superior thread life.

COLD-DRAWN SEAMLESS TUBING MATERIAL

- Superior straightness
- High strength
- Uniform pipe wall thickness
- Less weight

FRICTION-WELDED END PIECES

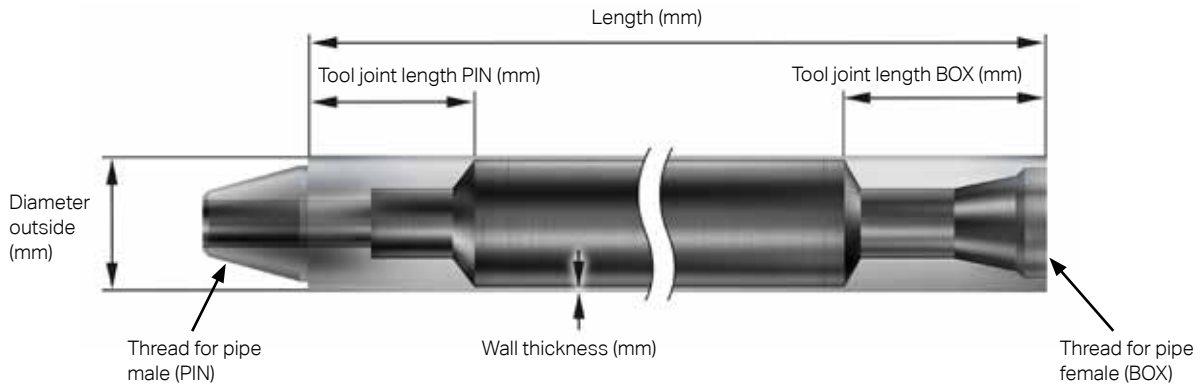
- High-strength, 100% metal-to-metal joint with parent metal properties
- Low-temperature process, gives a small HAZ (heat affected zone) that reduces the risk of failure

HEAVY-DUTY TOOL JOINTS

- Made of micro alloy steel
- Case-hardened for extra strength
- Offer superior thread life

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SANDVIK DRILL PIPES



Diameter outside	Wall thickness	Length	Thread for pipe male	Thread for pipe female	Spanner Flat	Internal Spline	Tool joint length Pin	Tool joint length Box	Weight	Part no.	
mm	mm	mm	Pin	Box			mm	mm	kg	lb	
76	4.0	3000	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	165	24	53	52-076-101018
76	4.0	3000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	190	190	31	68	52-076-10688900
76	6.3	3048	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	190	260	39	86	52-076-102801
76	6.3	4000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	190	190	46	101	52-076-10686408
76	6.3	5000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	350	350	65	143	52-076-10508618
76	6.3	5000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	190	190	58	128	52-076-10686990
79	6.3	1524	CUBEX #21	CUBEX #21	Y	Y	110	190	21	46	52-20340-111
79	6.3	1829	CUBEX #21	CUBEX #21	Y	Y	110	190	26	56	52-20340-109
89	4.0	1800	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	158	20	44	52-089-101048
89	4.0	3000	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	158	30	66	52-089-101051
89	4.0	4000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	190	190	46	101	52-089-10686310
89	4.0	4500	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	158	45	99	52-089-103231
89	6.3	1500	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	158	24	53	52-089-101077
89	6.3	1800	API 2 3/8" Reg	API 2 3/8" Reg	N	N	300	300	31	68	52-089-102653
89	6.3	1829	CUBEX #21	CUBEX #21	Y	Y	110	200	28	62	52-20340-103
89	6.3	1829	CUBEX #24	CUBEX #24	Y	Y	110	200	29	64	52-20340-105
89	6.3	3000	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	158	43	95	52-089-101079
89	6.3	5000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	190	190	76	166	52-089-10686409
89	6.3	5000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	350	350	82	181	52-089-10508619
89	6.3	6000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	350	350	95	209	52-089-10505952
89	6.3	7500	API 2 3/8" Reg	API 2 3/8" Reg	N	N	350	350	114	251	52-089-103691
89	8.8	5000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	350	350	90	198	52-089-102955
89	8.8	6000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	350	350	112	247	52-089-10671706
89	8.8	6000	API 2 3/8" Reg	API 2 3/8" Reg	N	N	270	270	112	247	52-089-101833
89	12	6096	CUBEX #24	CUBEX #24	N	N	280	280	150	331	52-CP001500



SANDVIK DRILL PIPES

Diameter outside	Wall thickness	Length	Thread for pipe male	Thread for pipe female	Spanner Flat	Internal Spline	Tool joint length Pin	Tool joint length Box	Weight	Part no.	
mm	mm	mm	Pin	Box			mm	mm	kg	lb	
→											
102	6.3	1524	CUBEX #24	CUBEX #24	Y	Y	150	220	32	69	52-20830-132
102	6.3	1828	CUBEX #24	CUBEX #24	Y	Y	150	220	41	90	52-102-101393
102	6.3	4000	API 2 7/8" Reg	API 2 7/8" Reg	N	N	270	270	74	163	52-102-102778
102	6.3	5000	API 2 7/8" Reg	API 2 7/8" Reg	N	N	270	270	89	196	52-102-101266
102	6.3	5000	API 2 7/8" Reg	API 2 7/8" Reg	N	N	350	350	98	216	52-102-10508620
102	6.3	5000	API 2 7/8" Reg	API 2 7/8" Reg	N	N	270	270	85	187	52-102-10502702
102	6.3	6000	API 2 7/8" Reg	API 2 7/8" Reg	N	N	270	270	94	207	52-102-101618
102	6.3	6000	API 2 7/8" Reg	API 2 7/8" Reg	N	N	350	350	112	247	52-102-10506339
102	6.3	7500	API 2 7/8" Reg	API 2 7/8" Reg	N	N	350	350	136	300	52-102-103692
102	8.8	6100	3 1/8" DIBH	3 1/8" DIBH	Y	Y	150	220	132	291	52-102-102935
102	8.8	9144	API 2 7/8" Reg	API 2 7/8" Reg	Y	N	340	315	200	441	52-102-101914
102	12	6096	CUBEX #24	CUBEX #24	N	N	280	280	180	397	52-CP000458
114	6.3	1196	CUBEX #28	CUBEX #28	Y	Y	130	220	30	67	52-114-102298
114	6.3	3000	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	140	185	60	132	52-114-101139
114	6.3	5000	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	115	254	52-114-10508621
114	6.3	5000	API 3 1/2" Reg	API 3 1/2" Reg	N	N	190	260	93	205	52-114-10504087
114	6.3	6000	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	132	291	52-114-10505147
114	6.3	6000	API 3 1/2" Reg	API 3 1/2" Reg	N	N	270	260	120	265	52-114-101238
114	6.3	7500	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	156	344	52-114-103693
114	8.8	6000	API 3 1/2" Reg	API 3 1/2" Reg	N	N	270	260	156	344	52-114-102072
114	8.8	7500	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	201	443	52-114-103719
114	8.8	7620	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	310	300	187	412	52-114-101228
114	8.8	9144	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	225	230	507	52-114-101597
114	8.8	9144	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	310	300	222	489	52-114-101841
114	12	1219	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	350	58	128	52-114-102738
114	12	2400	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	350	95	209	52-114-102740
114	12	3000	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	362	116	256	52-114-102520
114	12	9144	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	225	305	672	52-114-101808
114	12	9144	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	362	310	683	52-114-102521
114	12	9144	BECO 3"	BECO 3"	Y	N	490	225	308	678	52-114-102919
114	12	9144	BECO 3"	BECO 3"	Y	N	310	300	303	668	52-114-103183
114	12.5	7620	API 3 1/2" Reg	API 3 1/2" Reg	Y	N	490	225	231	509	52-114-101494
127	6.3	1524	CUBEX #28	CUBEX #28	Y	Y	170	260	47	104	52-20830-101
127	6.3	6000	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	154	340	52-127-10505190
127	6.3	7500	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	181	399	52-127-103694
127	8.8	1829	CUBEX #28	CUBEX #28	Y	Y	130	220	65	143	52-20830-117
127	8.8	6096	CUBEX #28	CUBEX #28	N	N	280	280	183	403	52-127-103201
127	8.8	7500	API 3 1/2" Reg	API 3 1/2" Reg	N	N	350	350	228	503	52-127-103720
127	10.0	1524	CUBEX #28	CUBEX #28	Y	Y	170	260	62	137	52-20830-101H
127	12	6096	API 3 1/2" Reg	API 3 1/2" Reg	N	N	280	280	239	527	52-127-102990
127	12	6096	BECO 3 1/2"	BECO 3 1/2"	N	N	280	280	239	527	52-CP002185
127	12	8077	BECO 3 1/2"	BECO 3 1/2"	Y	N	315	315	310	683	52-127-102394
127	12	9144	BECO 3 1/2"	BECO 3 1/2"	Y	N	315	315	353	778	52-127-102327
140	8.8	7500	API 4 1/2" Reg	API 4 1/2" Reg	N	N	350	350	257	567	52-140-103695

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DRILL PIPES

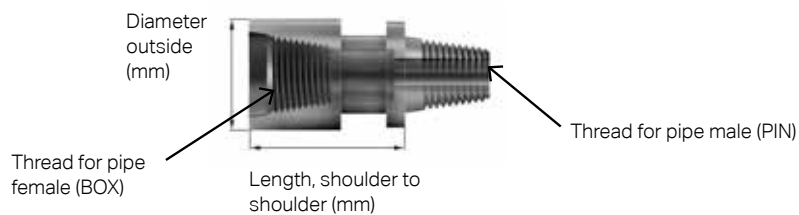
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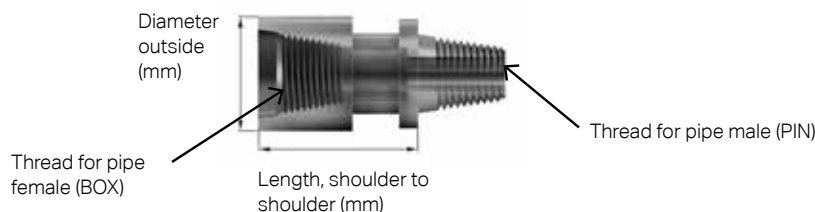
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DTH DRILL BITS

SANDVIK ROTATION UNIT ADAPTERS



Diameter outside	Length shoulder to shoulder	Thread for male connection	Thread for female connection	Thread for male connection	Spanner Flats	Internal Splines	Weight		Part no.
mm	mm	Pin	Box	Pin			kg	lb	
76	215	M62×2	2 3/8 Reg		Y	N	7	14	52-076-11687703
76	131	M62×2	2 3/8 Reg		Y	N	5	10	52-076-11516950
89	215	M62×2	2 3/8 Reg		Y	N	9	20	52-089-11512674
89	300	M80×3	2 3/8 Reg		Y	N	13	28	52-089-11516555
89	89	M62×2		2 3/8 Reg	Y	N	6	13	52-089-11687217
102	300	M80×3	2 7/8 Reg		Y	N	17	37	52-102-11517523
102	215	M62×2	2 7/8 Reg		Y	N	13	28	52-102-11502994
114	300	M80×3	3 1/2 Reg		Y	N	19	42	52-114-11505151
114	215	M62×2	3 1/2 Reg		Y	N	13	29	52-114-11503612
114	307	3 1/2 Reg	2 3/8 Reg		Y	N	14	30	52-114-11518907
114	307	3 1/2 Reg	3 1/2 Reg		Y	N	21	47	52-114-11518332
114	307	3 1/2 Reg		3 1/2 Reg	Y	N	26	56	52-114-11518871
127	307	3 1/2 Reg	3 1/2 Reg		Y	N	27	60	52-127-11518872
127	300	M80×3	3 1/2 Reg		Y	N	24	53	52-127-11516261

SANDVIK SUBS



Diameter outside	Thread for male connection	Thread for female connection	Length shoulder to shoulder	Spanner Flats	Internal Splines	Weight		Part no.
						kg	lb	
mm	Pin	Box	mm					
89	API 2 3/8" Reg	API 2 3/8" Reg	305	N	N	13	29	52-089-111202
102	CUBEX #24	API 2 3/8" Reg	140	N	N	9	20	52-102-112648
102	API 2 7/8" Reg	API 2 3/8" Reg	130	Y	N	7	15	52-102-111029
114	CUBEX #24	API 3 1/2" Reg	160	Y	N	10	22	52-114-112649
114	CUBEX #24	API 3 1/2" Reg	160	Y	Y	9	20	52-114-112269
114	CUBEX #28	API 3 1/2" Reg	160	Y	Y	11	24	52-114-111059
114	API 2 3/8" Reg	API 3 1/2" Reg	160	Y	N	9	19	52-114-111053
114	API 2 7/8" Reg	API 3 1/2" Reg	160	Y	N	9	20	52-114-111056
114	API 3 1/2" Reg	API 2 3/8" Reg	120	Y	N	9	20	52-114-111031
114	API 3 1/2" Reg	API 2 3/8" Reg	223	Y	N	10	22	52-114-11518177
114	API 3 1/2" Reg	API 2 7/8" Reg	150	Y	N	11	24	52-114-111039
114	API 3 1/2" Reg	API 3 1/2" Reg	160	Y	N	11	23	52-114-111061
114	API 3 1/2" Reg	API 3 1/2" Reg	228	Y	N	15	33	52-114-111352
114	API 3 1/2" Reg	API 3 1/2" Reg	230	Y	N	14	32	52-114-112668
114	API 3 1/2" Reg	API 3 1/2" Reg	305	N	N	21	46	52-114-111578
114	API 3 1/2" Reg	API 3 1/2" Reg	500	Y	N	32	70	52-114-112537
114	DIBH 3 1/8"	API 3 1/2" Reg	260	Y	N	17	36	52-114-112700
114	BECO 3"	API 3 1/2" Reg	160	Y	N	10	22	52-114-112637
127	CUBEX #28	API 3 1/2" Reg	132	Y	Y	11	23	52-127-111060
127	BECO 3 1/2"	API 3 1/2" Reg	228	Y	N	20	44	52-127-111897
127	BECO 3 1/2"	API 3 1/2" Reg	228	Y	N	20	44	52-127-111943
127	BECO 3 1/2"	API 3 1/2" Reg	410	Y	N	36	79	52-127-112572
127	BECO 3 1/2"	API 3 1/2" Reg	609	Y	N	55	121	52-127-111524
127	API 3 1/2" Reg	BECO 3"	228	Y	N	19	41	52-127-112543
127	DIBH 3 1/8"	API 3 1/2" Reg	260	Y	N	21	46	52-127-11-2675
127	DIBH 3 1/8"	DIBH 3 1/8"	260	Y	N	15	32	52-127-112674
140	BECO 3 1/2"	API 4 1/2" Reg	228	Y	N	21	46	52-140-111948
146	API 4 1/2" Reg	API 3 1/2" Reg	132	Y	N	17	36	52-146-111067
150	API 4" IF	API 3 1/2" Reg	280	N	N	37	82	52-150-112621
164	API 3 1/2" Reg	BECO 3 1/2"	311	Y	N	33	73	52-164-112616
164	API 4 1/2" Reg	CUBEX #24	310	Y	N	24	53	52-164-112592
164	API 4 1/2" Reg	CUBEX #28	310	Y	N	26	57	52-164-112667
171	API 5 1/2" Reg	API 3 1/2" Reg	406	Y	N	42	93	52-171-112396
171	API 5 1/2" Reg	API 3 1/2" Reg	406	Y	N	43	95	52-171-112065
171	API 5 1/2" Reg	API 3 1/2" Reg	406	Y	N	45	99	52-171-112402



PRODUCTS AND TOOLS FOR MORE EFFICIENT, SAFE WORK

Sandvik has recently developed and manufactured a comprehensive range of accessories to further increase safety.

In order to best facilitate service and enable you to work efficient and safely, we supply many products and tools which work perfectly with our hammers. These accessories include Hammer lifting bails, foot valve assembly and

disassembly tools, and a comprehensive hammer service kit. Our range of accessories optimizes your safety and productivity, and also reduces down-time, giving you better reliability.



Hammer lifting bail



Hammer service kit



Foot valve assembly tool



Foot valve disassembly tool

Description	Weight		Part no.
	kg	lb	
Hammer lifting bail			
2-3/8" Reg box 3600 kg	5.1	11.2	BG00016425
2-7/8" Reg box 3600 kg	8	17.6	BG00016426
3-1/2" Reg box 3600 kg	14	30.8	BG00016427
3-1/2" IF box 3600 kg	10	22	BG00016428
4-1/2" Reg box 3600 kg	19	41.8	BG00016429
CUBEX #24 box 3600 kg	13	28.6	BG00294441
CUBEX #21 box 3600 kg	13	28.6	BG00294442
CUBEX #28 box 3600 kg	13	28.6	BG00294450
4 1/2" BECO box 3600 kg	25	55	BG00294443

Hammer service kit			
4"	2	4.4	BG00303552
5"	4.5	9.9	BG00274811
6"	5.4	11.9	BG00275989
8"	11.5	25.3	BG00324800

Foot valve assembly tool			
QLX40	0.3	0.7	62-4G017A
DHD3.5	0.2	0.4	62-24017A
DHD340	0.3	0.7	62-36017A
QL50	0.4	0.8	62-50017A
QL60	0.4	0.8	62-76017A
QL80	0.6	1.3	62-83017A

Foot valve disassembly tool			
DHD3.5 / DHD340	1.8	3.9	63-010KTA
QLX4 / QL5 / DHD350	2.5	5.5	63-020KTA
QL6 / DHD 360	3.2	7	63-030KTA
QL8 / DHD380	4.9	10.9	63-040KTA



LET US MAKE YOUR GRINDING MORE PROFITABLE

We offer a wide range of high quality grinding machines, grinding wheels and cups. Every product is specifically designed to increase safety, productivity and – not least – revenue. They all work perfectly with the TH, DTH, integral steels and cross and X-bits. We know that every customer has their own specific challenges that require different

solutions. This is why we offer products which are suitable for all conceivable situations – from grinding directly at the drill rigs, to grinding in workshops for high levels of production. We also offer spare parts, as well as all the support you need to create a safe and successful mining and construction business.

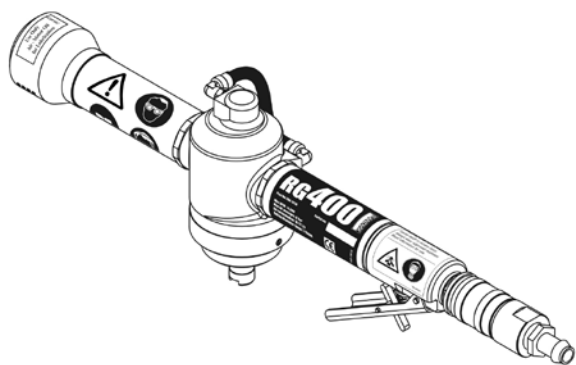
BUTTON BIT GRINDER RG400	60
BUTTON BIT GRINDER RG410	61
BUTTON BIT GRINDER RG420E	62
BUTTON BIT GRINDER RG420H	63
BUTTON BIT GRINDER RG460	64
BUTTON BIT GRINDER RG470	65
GRINDING CUPS	66
GRINDING ACCESSORIES	67

BUTTON BIT GRINDER

RG400

GRINDING APPLICATIONS

Handheld, lightweight, lower-powered pneumatic grinder intended for all kinds of button bits with max button size of 10 mm.



TECHNICAL DATA

Air supply pressure	Max 8 bar/min 6 bar
Air consumption	16–17 l/sec
Spindle speed	14000 r.p.m.
Flushing air pressure	Max. 6 bar
Flushing water pressure	Max. 6 bar
Water consumption	5–6 l/min
Hose connections:	
Air, air hose	12.5 mm (1/2")
Water, water hose	6.3 mm (1.4")
Dimensions: H×W×D	156×533×84 mm
Weight	2.9 kg

PART. NO FOR MACHINES

Complete grinder 796-5116

ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

O-ring 797-5888-24
Hose, 6/4 mm 797-5957-06
Connector, 6-1/4" 797-5899-13
Nylon packing, 1/4" 797-5934-13
House nipple, 1/4"–R1/4" 797-5777-13
Plug 6, R9 6 mm 797-5769-06
Screw (to remove damper) 797-5463-31
Shock absorber 797-5273-01

ACCESSORIES (OPTIONAL)

Tools for O-ring replacement 797-5452
In line oiler 797-5747-50
Cooling/tank unit, complete 797-5488-85
Grinding cups see page in catalogue
Grinding template see page in catalogue

RECOMMENDED LUBRICANTS

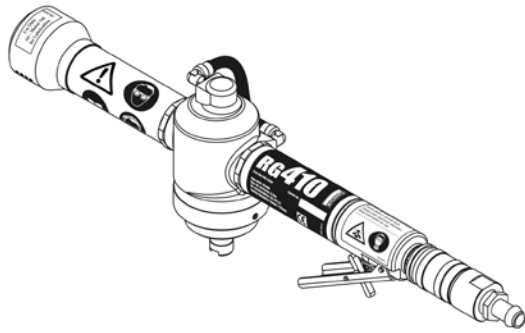
Air tool oil, 1 litre 797-5870-90

BUTTON BIT GRINDER

RG410

GRINDING APPLICATIONS

Handheld, lightweight, higher-powered pneumatic grinder intended for all kinds of button bits.



TECHNICAL DATA

Air supply pressure	Max 8 bar/min 6 bar
Air consumption	40–55 l/sec
Spindle speed	19000 r.p.m.
Flushing air pressure	Max. 6 bar
Flushing water pressure	Max. 6 bar
Water consumption	5–6 l/min
Hose connections:	
Air, air hose	12.5 mm (1/2")
Water, water hose	6.3 mm (1.4")
Dimensions: H×W×D	156×533×84 mm
Weight	2.9 kg

PART. NO FOR MACHINES

Complete grinder 796-5100

ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

O-ring 797-5888-24
Hose, 6/4 mm 797-5957-06
Connector, 6-1/4" 797-5899-13
Nylon packing, 1/4" 797-5934-13
House nipple, 1/4"-R1/4" 797-5777-13
Plug 6, R9 6 mm 797-5769-06
Screw (to remove damper) 797-5463-31
Shock absorber 797-5273-01

ACCESSORIES (OPTIONAL)

Tools for O-ring replacement 797-5452
In line oiler 797-5747-50
Cooling/tank unit, complete 797-5488-85
Grinding cups see page in catalogue
Grinding template see page in catalogue

RECOMMENDED LUBRICANTS

Air tool oil, 1 litre 797-5870-90

STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

DRILL PIPES

ACCESSORIES

GRINDING
EQUIPMENT

NON-STANDARD
DTH HAMMERS

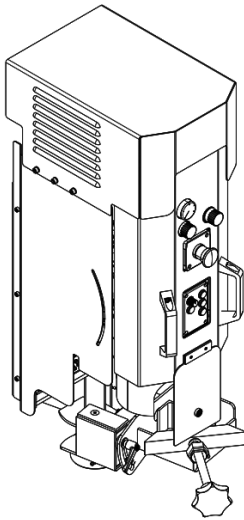
NON-STANDARD
DTH DRILL BITS

BUTTON BIT GRINDER

RG420E

GRINDING APPLICATIONS

Stationary electrical grinder for workshops, or to be mounted onto drill rigs. Intended for all kinds of button bits. Bit holder suitable for diameters of up to Ø 122 mm: Top hammer (TH) button bits (normal skirt) up to Ø 152 mm, TH button bits (retrac skirt) up to Ø 127 mm and down the hole button bits up to Ø 165 mm (max. shank Ø 110 mm and max. head length 110 mm).



TECHNICAL DATA

Air supply pressure	Max 10 bar/min 6 bar
Air consumption	0.5–3 l/sec
Water supply pressure	Max 8 bar/min 3.5 bar
Water consumption (cooling tank)	2–4 l/min
Water consumption (pump)	0.2–1 l/min
Coolant/flushing medium	Water
Rated power (motor)	1.5 kW
Air connection, air hose	9.5 mm (3/8")
Water connection, water hose	9.5 mm (3/8")
Dimensions: H×W×D	730×390×390 mm
Weight	45 kg

PART. NO FOR MACHINES

Grinder with cover	796-6215-XX*
Grinder with pump and cover	796-6265-XX*

*For two last digits, see table below, under "Code"

VOLTAGE/PHASE ALT.

Voltage	Phases	Hz	Code
220–240 V	1	50/60 Hz	50
380–420 V	3	50/60 Hz	52
220–240 V	3	50/60 Hz	59
440 V	3	60 Hz	63

ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

Bit insert	797-5502-26
O-ring for grinding cup	797-5888-24
Assembly tools for O-ring replacement	797-5452
Lock plate	797-5502-39
Spindle tool 9 mm	797-5464-07
Grease gun	797-5870-20

ACCESSORIES (OPTIONAL)

Bit Mandrels	797-5348-XX**
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**23 = R23, 25 = R25, 28 = R28, 32 = R32, 33 = R33, 35 = R35, 38 = R28/T38, 45 = T45, 51 = T51, 58 = ST58, 60 = GT60, 68 = ST68
Example: Bit mandrel R32 = 797-5348-32

Grinding cups	see page in catalogue
Grinding template	see page in catalogue

SPARE PART KITS

Complete grinding head (13000 r.p.m, including flushing head)	797-5130/1
All bearings, seals and screws for grinding head	797-5463-05
Outer spindle (for flushing head)	797-5464-02
Small kit for flushing head	797-5464-44
Big kit for flushing head	797-5464-59

RECOMMENDED LUBRICANTS

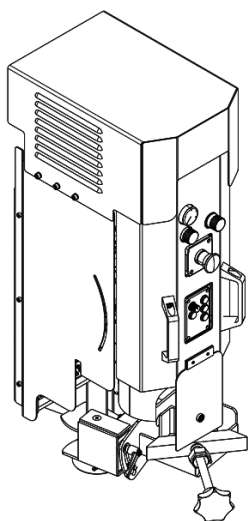
Gear oil, 1 litre	797-5870-15
Air tool oil, 1 litre	797-5870-90
Grease, 0.42 kg cartridge	797-5773-22

BUTTON BIT GRINDER

RG420H

GRINDING APPLICATIONS

Stationary hydraulic grinder for workshops, or to be mounted onto drill rigs. Intended for all kinds of button bits. Bit holder holds diameters up to Ø 122 mm: Top hammer (TH) button bits (normal skirt) up to Ø 152 mm, TH button bits (retrac skirt) up to Ø 127 mm and down the hole button bits up to Ø 165 mm (max. shank Ø 110 mm and max. head length 110 mm).



PART. NO FOR MACHINES

Grinder with cover	796-6235
Grinder with pump and cover	796-6285
Grinder with tank and cover	796-6236

ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

Bit insert	797-5502-26
O-ring for grinding cup	797-5888-24
Assembly tools for O-ring replacement	797-5452
Lock plate	797-5502-39
Spindle tool 9 mm	797-5464-07
Grease gun	797-5870-20

ACCESSORIES (OPTIONAL)

Bit Mandrels	797-5348-XX**
**23 = R23, 25 = R25, 28 = R28, 32 = R32, 33 = R33,	
35 = R35, 38 = R28/T38, 45 = T45, 51 = T51,	
58 = ST58, 60 = GT60, 68 = ST68	
Example: Bit mandrel R32 = 797-5348-32	

Grinding cups	see page in catalogue
Grinding template	see page in catalogue

TECHNICAL DATA

Air supply pressure	Max 10 bar/min 6 bar
Air consumption	0.5–3 l/sec
Water supply pressure	Max 8 bar/min 3.5 bar
Water consumption (cooling tank)	2–4 l/min
Water consumption (pump)	0.2–1 l/min
Coolant/flushing medium	Water
Rated power (motor)	2.8–4 kW
Air connection, air hose	9.5 mm (3/8")
Water connection, water hose	9.5 mm (3/8")
Hydraulic connection, hydraulic hose	R3/8" female thread
Dimensions: H × W × D	730 × 390 × 390 mm
Weight	40 kg
Electricity supply	24V DC, 5A
Hydraulic supply pressure	Max 200 bar/Min 140 bar
Hydraulic-oil flow	12 l/min

SPARE PART KITS

Complete grinding head (13000 r.p.m, including flushing head)	797-5130/1
All bearings, seals and screws for grinding head	797-5463-05
Outer spindle (for flushing head)	797-5464-02
Small kit for flushing head	797-5464-44
Big kit for flushing head	797-5464-59

RECOMMENDED LUBRICANTS

Gear oil, 1 litre	797-5870-15
Air tool oil, 1 litre	797-5870-90
Grease, 0.42 kg cartridge	797-5773-22

STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

DRILL PIPES

ACCESSORIES

GRINDING
EQUIPMENT

NON-STANDARD
DTH HAMMERS

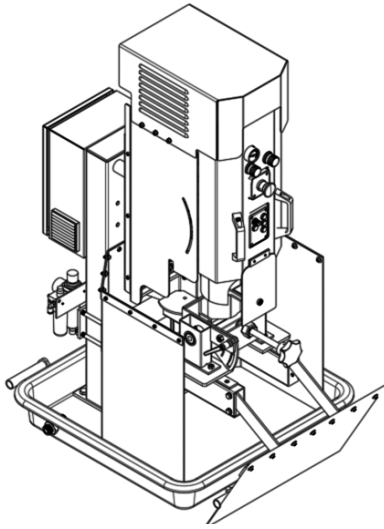
NON-STANDARD
DTH DRILL BITS

BUTTON BIT GRINDER

RG460

GRINDING APPLICATIONS

Stationary electrical grinder for workshops. Intended for all down the hole (DTH) button bits. Bit holder suitable for diameters up to Ø 106 mm: DTH button bits up to Ø 178 mm (max. shank Ø 106 mm and max. head length 92 mm).



TECHNICAL DATA

Air supply pressure	Max 10 bar/min 6 bar
Air consumption	0.5–3 l/sec
Water supply pressure	Max 8 bar/min 3 bar
Water consumption	0.2–1 l/min
Coolant/flushing medium	Water
Rated power (motor)	1.5 kW
Air connection, air hose	9.5 mm (3/8")
Water connection, water hose	9.5 mm (3/8")
Dimensions: H × W × D	990 × 670 × 795 mm
Weight	95 kg

PART. NO FOR MACHINES

Grinder with cover	796-6105-XX*
Grinder with pump and cover	796-6155-XX*

*For two last digits, see table below, under "Code"

VOLTAGE/PHASE ALT.

Voltage	Phases	Hz	Code
220–240 V	1	50/60 Hz	50
380–420 V	3	50/60 Hz	52
220–240 V	3	50/60 Hz	59
440 V	3	60 Hz	63

ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

T38/R38 bit mandrel	797-5348-38
O-ring for grinding cup	797-5888-24
Assembly tools for O-ring replacement	797-5452
Lock plate	797-5502-39
Spindle tool 9 mm	797-5464-07
Grease gun	797-5870-20
Insert plate DTH, 3"	797-5503-73
Insert plate DTH, 4"	797-5503-74
Insert plate DTH, 5"	797-5503-75
Insert plate DTH, 6"	797-5503-76

ACCESSORIES (OPTIONAL)

Grinding cups	see page in catalogue
Grinding template	see page in catalogue

SPARE PART KITS

Complete grinding head (8000 r.p.m. including flushing head non-lubrication)	797-5140/1
All bearings, seals and screws for grinding head	797-5463-05
Outer spindle (for flushing head)	797-5464-02
Small kit for flushing head	797-5464-44 ¹
	797-5464-45 ²
Big kit for flushing head	797-5464-59 ¹
	797-5464-60 ²

1 = Non lubrication
2 = Lubrication

RECOMMENDED LUBRICANTS

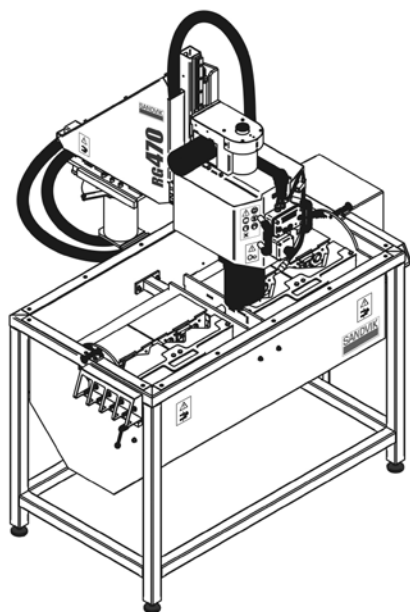
Gear oil, 1 litre	797-5870-15
Air tool oil, 1 litre	797-5870-90
Grease, 0.42 kg cartridge	797-5773-22

BUTTON BIT GRINDER

RG470

GRINDING APPLICATIONS

Highly efficient stationary electrical grinder for workshops. Intended for all button bits. Top Hammer (TH) bits Ø 28 mm (bit length > 65 mm) up to Ø 152 mm, and down the hole (DTH) bits Ø 90 mm up to Ø 270 mm.



PART. NO FOR MACHINES

Grinder 796-6700-XX*

*For two last digits, see table below, under "Code".
Note! Drill Bit support is not included in grinder.
Parts must be ordered separately.

VOLTAGE/PHASE ALT.

Voltage	Phases	Hz	Code
380–420 V	3	50/60 Hz	52
220–240 V	3	50/60 Hz	59

ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

O-ring for grinding cup	797-5888-24
Assembly tools for O-ring replacement	797-5452
Spindle tool 9 mm	797-5464-17
Grease gun	797-5870-07

ACCESSORIES (NOT INCLUDED, TO BE ORDERED SEPARATELY)

Drill bit support, appr. skirt Ø = 30–75 mm	797-5552-19*
Drill bit support, appr. skirt Ø = 75–120 mm	797-5552-14**
Drill bit support, appr. skirt Ø = 120–150 mm	797-5552-25***

TECHNICAL DATA

Air supply pressure	Max 10 bar/min 6 bar
Air consumption	0.5–2 l/sec
Water supply pressure	Max 8 bar/min 3.5 bar
Water consumption	1 l/min
Coolant/flushing medium	Water
Rated power (grinding motor)	3 kW
Air connection, air hose	9.5 mm (3/8")
Water connection, water hose	9.5 mm (3/8")
Dimensions: H × W × D	2000 × 1800 × 1100 mm
Weight	350 kg

ACCESSORIES (OPTIONAL)

Grinding cups	see page in catalogue
Grinding template	see page in catalogue

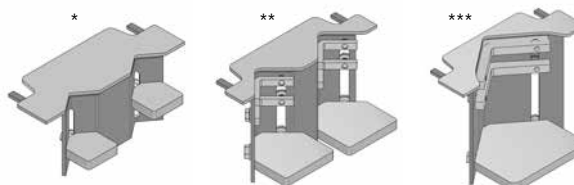
SPARE PART KITS

Outer spindle (for flushing head)	797-5464-02
Small kit for flushing head	797-5464-44 ¹
	797-5464-45 ²
Big kit for flushing head	797-5464-59 ¹
	797-5464-60 ²

1 = Non lubrication
2 = Lubrication

RECOMMENDED LUBRICANTS

Air tool oil, 1 litre	797-5870-90
Grease, 0.42 kg cartridge	797-5773-22

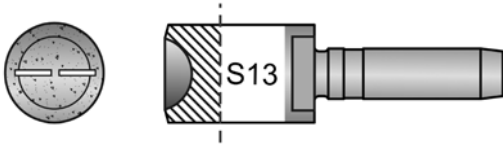


GRINDING CUPS

GRINDING CUPS FOR RG400, RG410, RG420, RG440, RG460 AND RG470 GRINDERS

SANCUP SUPER (S)

Grinding cups for redressing spherical (and superspherical) buttons. Shank \varnothing 9 mm.



* = straight water flushing slots

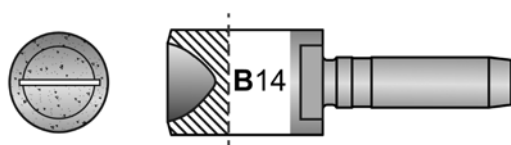


** = three water flushing slots

FOR BUTTON SIZE	PART. NO
7 mm	797-5120-07*
8 mm	797-5120-08*
9 mm	797-5120-09*
10 mm	797-5120-10*
11 mm	797-5120-11*
12 mm	797-5120-12**
13 mm	797-5120-13**
14 mm	797-5120-14**
16 mm	797-5120-16**
18 mm	797-5120-18**

SANCUP SUPER (B)

Grinding cups for redressing semi ballistic buttons. Shank \varnothing 9 mm.



* = straight water flushing slots

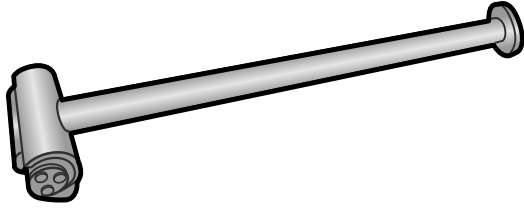


** = three water flushing slots

FOR BUTTON SIZE	PART. NO
7 mm	797-5121-07*
8 mm	797-5121-08*
9 mm	797-5121-09*
10 mm	797-5121-10*
11 mm	797-5121-11**
12 mm	797-5121-12**
13 mm	797-5121-13**
14 mm	797-5121-14**
16 mm	797-5121-16**
18 mm	797-5121-18**

GRINDING ACCESSORIES

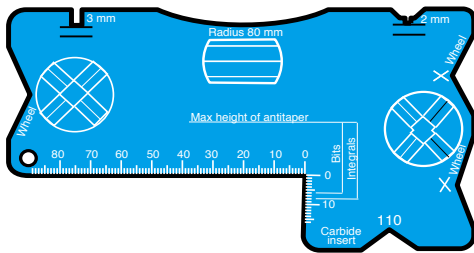
WHEEL DRESSER



¹⁾ Included in a complete unit.

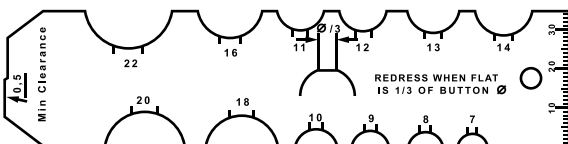
DESCRIPTION	PART. NO
Wheel dresser, complete	796-1858
Shaft (1 pcs) ¹⁾	796-1862
Bearing bushing (2 pcs) ¹⁾	796-1863
Screw (6 pcs) ¹⁾	796-1865
Cover (2 pcs) ¹⁾	796-1866
1 set of dresser rollers ¹⁾	796-1867

GRINDING TEMPLATES



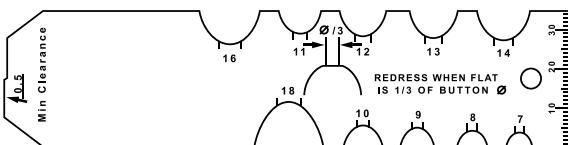
For integrals with cross bit/For cross and X-bits with diameter up to 115 mm/For integrals with chisel bit and motor drill steels.

DESCRIPTION	PART. NO
Grinding template	795-1343



Grinding template for spherical buttons.

DESCRIPTION	PART. NO
Grinding template, spherical buttons	795-1398
Grinding template, semi ballistic buttons	795-1397



Grinding template for semi ballistic buttons.



SETTING THE STANDARDS IN NON-STANDARD

Special orders can be made for a wide range of non-standard tools specifically designed to increase safety, productivity and – not least – revenue on machines where off-the-shelf parts don't fit. We know that every customer has their own specific challenges that require different solutions. This is why we offer tools

suitable for all conceivable situations – including special requirement for non-standard tools – length, shank, cutting, dimensions and diameter or pitch of thread. Non-standard orders take more time to complete and require a minimum quantity. Please contact your local sales representative for details.

RH510	70
RH460	79
DTH BITS / M SHANKS	88
DTH BITS / DHD SHANKS	91
DTH BITS / QLX/QL SHANKS	92

Complete Hammer

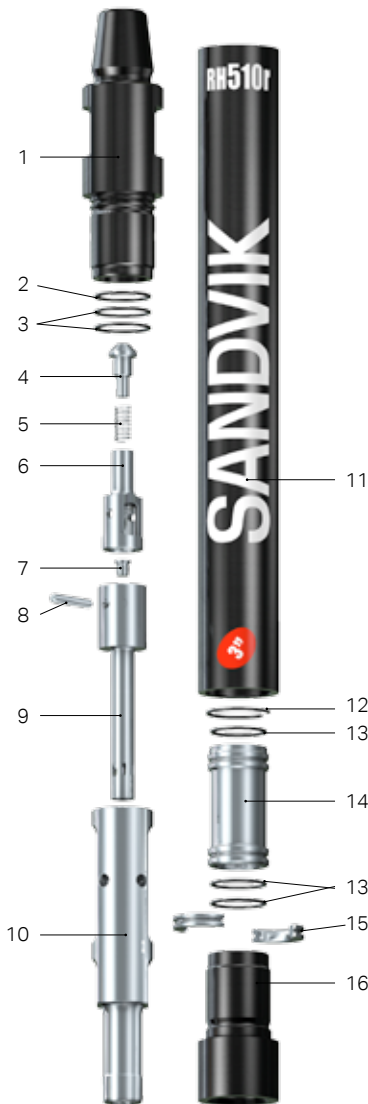
#21 Cubex pin top sub

32-5130-RMA-63S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
25	55	81.3	3.2	823	32.4	875	34.4	911	35.9

AIR CONSUMPTION, CFM

150 psi	250 psi	350 psi	AIR CONSUMPTION, M ³ /MIN		
			10 bar	18 bar	24 bar
172	304	436	4.87	8.61	12.34



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs			
#21 Cubex pin	5	11	33-3A001/63A
O-ring top sub OD (1)			In seal kit
O-ring top sub ID (2)			In seal kit
Check valve dart with spring	0.3	0.7	25-99006A
Check valve dart spring	0.02	0.01	22-99071
Check valve guide	0.23	0.5	39-3A001
Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.2	29-48017A
Feed tube retainer pin	0.03	0.1	12-99021
Feed tube with retainer pin & blank choke	0.45	1	37-3A001A
Piston	3.86	8.5	BG00468603
Piston case with retainer ring	10.9	24	BG00468599
Piston retainer ring	0.05	0.1	23-99027
O-rings – guide sleeve, bit retainer (3)			In seal kit
Guide sleeve with 2 O-rings (#12)	1	2.2	26-3A010A
Bit retainer ring with O-ring (#12)	0.09	0.2	27-3A006A
Driver sub	2.18	4.8	34-3A006

Seal kit

3 piece of #2 & 3 of #12	0.25	0.5	38-3A056
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Rebuild kit

1 piece of #1, 1 of #10, 1 of #15 & seal kit			
#21 Cubex pin	18.1	40	BG00478480

Bit shank

M30

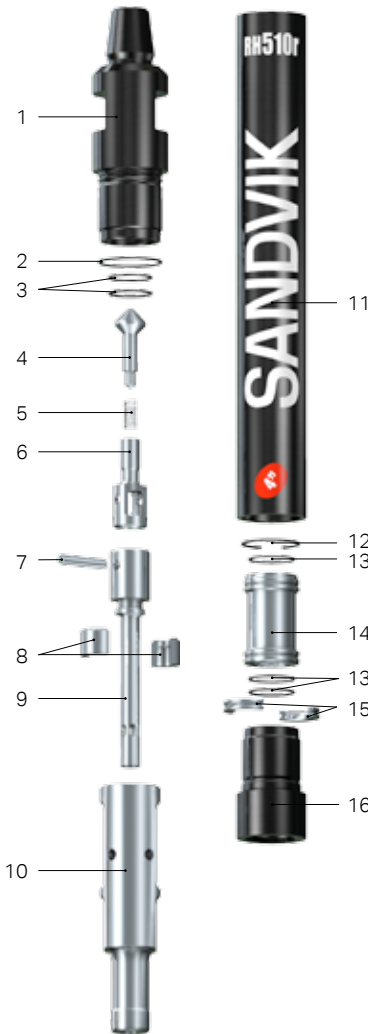


Complete Hammer

#24 Cubex pin top sub	32-5140-RMA-77S
2 7/8" API pin T-version	32-5140-TMA-11S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
38	83	98	3.56	914	36	989	38.9	1029	40.5

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	180	370	560	5.1	10.5	15.9
Low volume option	151	315	466	4.3	8.9	13.2



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs			
#24 Cubex. pin	10	22	33-48001-1/77A
2 7/8" API reg. pin	10	22	33-48001-1/11A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99001A
5. Check valve spring	0.02	0.04	22-99071
6. Check valve guide	0.2	0.44	39-48001-1
7. Feed tube retainer pin	0.03	0.07	12-99014
8. Tuning ring for low volume (optional)	0.23	0.51	56-48552
9. Solid Feedtube with retainer pin	0.7	1.54	BG00785560
10. Piston	7	15.4	BG00387202
11. Piston case with retainer ring	15	33	BG00387230
12. Piston retainer ring	0.05	0.11	23-99029
13. O-rings guide sleeve & bit ret. (3)			In seal kit
14. Guide sleeve with 2 O-rings (#14)	1.8	3.96	26-48J10A
15. Bit retainer ring with O-ring (#14)	0.23	0.51	27-48006A
16. Driver sub	3.2	7.04	34-48006
Driver sub hard faced	3.3	7.3	BG00718268
Optional			
Feed tube with retainer pin & blank choke	0.7	1.54	37-48001-1A
Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.22	29-48017A
Seal kit			
1 piece of #2, 2 of #3 & 3 of #14	0.25	0.5	38-48056-1
Rebuild kit			
1 piece of #1, 1 of #12, 1 of #17 & seal kit			
#24 Cubex. pin	28	62	BG00475755
2 7/8" API reg. pin, T-version	28	62	BG00785642

Bit shank

M40



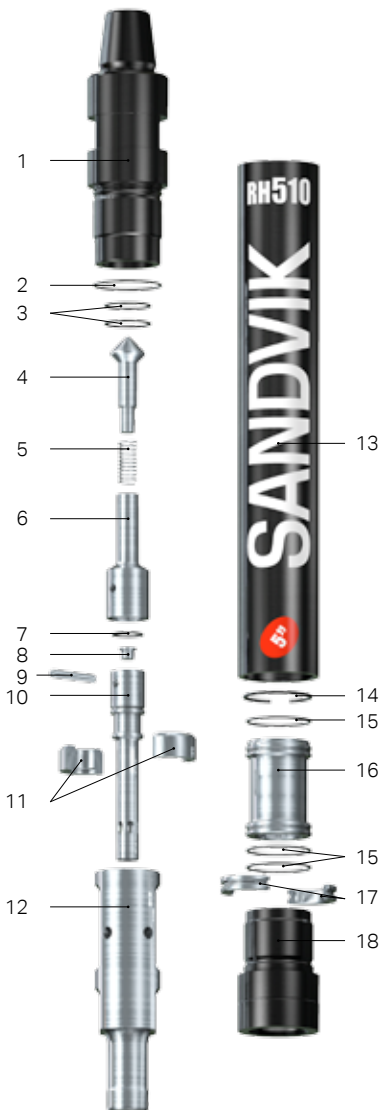
Complete Hammer

2 7/8" API reg. pin top sub

32-5150-SMA-11S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
68	145	120	4.72	987	38.86	1082	42.6	1122	44.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	305	580	855	8.64	16.42	24.21
Low volume option	285	540	790	8.07	15.25	22.37



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
2 7/8" API reg. pin	10	22	33-58D01/11A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.66	39-58S01
7. O-ring feed tube (1)			In seal kit
8. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	27	59.4	BG00473260
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret. (3)			In seal kit
16. Guide sleeve with 2 O-rings (#14)	3	6.6	26-58J10A
17. Bit retainer ring with O-ring (#14)	0.5	1.1	27-58006A
18. Driver sub	6	13.2	34-58D69

Seal kit			
1 piece of #2, 2 of #3, 1 of #7 & 3 of #15	0.45	0.99	38-58D56

Rebuild kit			
1 piece of #1, 1 of #13, 1 of #18 & seal kit			
2 7/8" API reg. pin	43	94.6	BG00475764

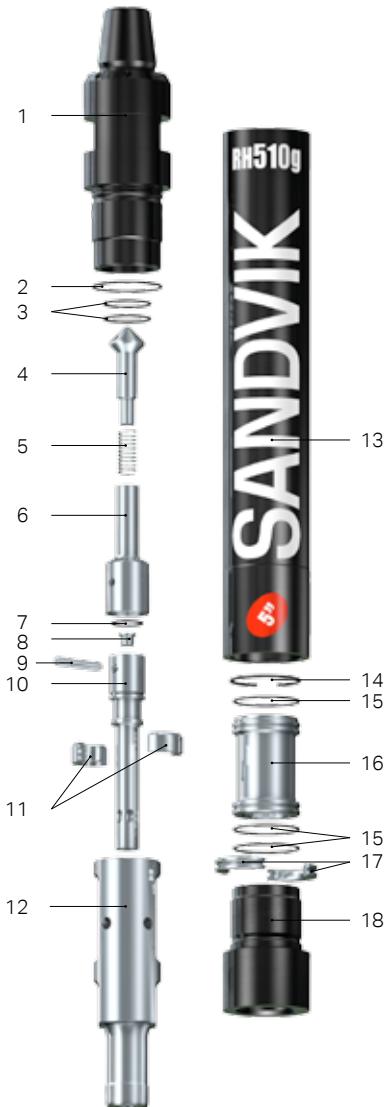
Bit shank			
M50			

Complete Hammer

#24 Cubex pin top sub	32-5155-GMA-77C
3 1/8 DIBH pin	32-5155-GMA-83C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
73	160	126	4.96	987	38.86	1082	42.6	1122	44.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	305	580	855	8.64	16.42	24.21
Low volume option	285	540	790	8.07	15.25	22.37



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
#24 Cubex. pin	18	39.6	33-58D02/77CA
3 1/8 DIBH pin			33-58D02/83CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.66	39-58S01
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
8. O-ring feed tube (1)			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	29	63.8	BG00470986
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret. (3)			In seal kit
16. Guide sleeve with 2 O-rings (#14)	3	6.6	26-58J10A
17. Bit retainer ring with O-ring (#14)	0.5	1.1	27-58006A
18. Driver sub	7	15.4	34-58D70
Seal kit			
1 piece of #2, 2 of #3, 1 of #8 & 3 of #15	0.45	0.99	38-58D56
Rebuild kit			
1 piece of #1, 1 of #13, 1 of #18 & seal kit			
3 1/2" API reg. pin	54	118.8	BG00475761
#24 Cubex. pin	54	118.8	BG00475762

Bit shank

M50



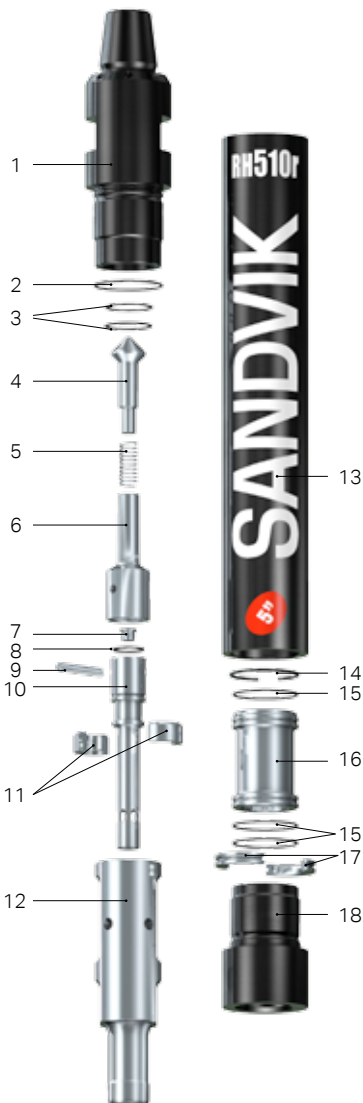
Complete Hammer

#24 Cubex. pin top sub

32-5155-RMA-77C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
73	160	126	4.96	987	38.86	1082	42.6	1122	44.2

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	305	580	855	8.64	16.42	24.21
Low volume option	285	540	790	8.07	15.25	22.37



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
#24 Cubex. pin	18	39.6	33-58S02/77CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	22-99072
6. Check valve guide	0.3	0.66	39-58S01
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
8. O-ring feed tube (1)			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	29	63.8	BG00409895
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret. (3)			In seal kit
16. Guide sleeve with 2 O-rings (#14)	3	6.6	26-58J10A
17. Bit retainer ring with O-ring (#14)	0.5	1.1	27-58006A
18. Driver sub	7	15.4	34-58070

Seal kit			
1 piece of #2, 2 of #3, 1 of #8 & 3 of #15	0.45	0.99	38-58D56

Rebuild kit			
1 piece of #1, 1 of #13, 1 of #18 & seal kit			
#24 Cubex. pin	54	118.8	BG00475760

Bit shank

M50



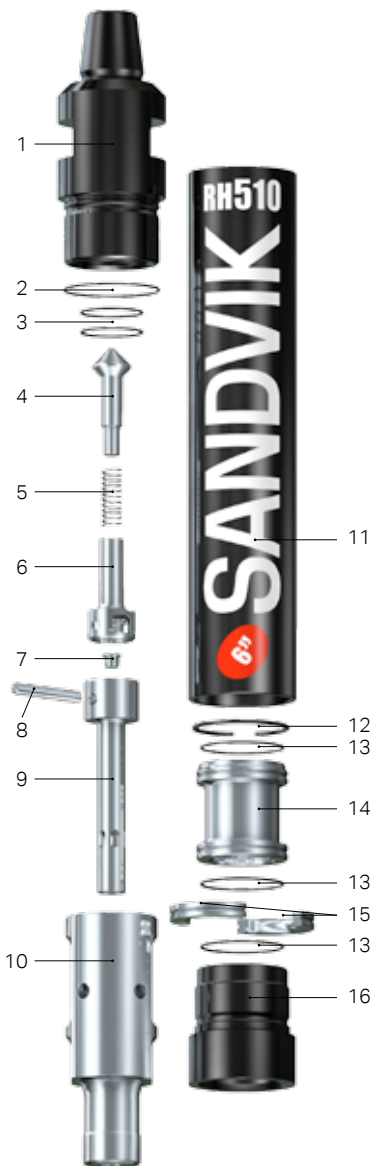
Complete Hammer

3 1/2" API box

32-5160-SMA-25S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
72	158	142	5.6	922	36.3	1008	39.7	1046	41.2

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN			
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	
343	659	972	9.8	18.7	27.5	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
3 1/2" API reg. box	20	44	33-68D08/25A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart with spring	0.3	0.66	BG00348123
5. Check valve dart spring	0.02	0.044	22-99072
6. Check valve guide	0.3	0.66	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99013
9. Feed tube with retainer pin and blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case with retainer ring	33	72.6	BG00214914
12. Piston retainer ring	0.1	0.22	23-99028
13. O-rings - guide sleeve, bit retainer (3)			In seal kit
14. Guide sleeve with 2 O-rings (#13)	4	8.8	26-68J10A
15. Bit retainer ring with O-ring (#13)	1	2.2	27-68006A
16. Driver sub	6	13.2	34-68D69

Seal kit	Weight, kg	Weight, lb	Part No.
1 piece of #2, 2 of #3 & 3 of #13	0.25	0.55	38-68656

Bit shank	Weight, kg	Weight, lb	Part No.
M60			



Complete Hammer

#28 Cubex. pin top sub

32-5165-GMA-56C

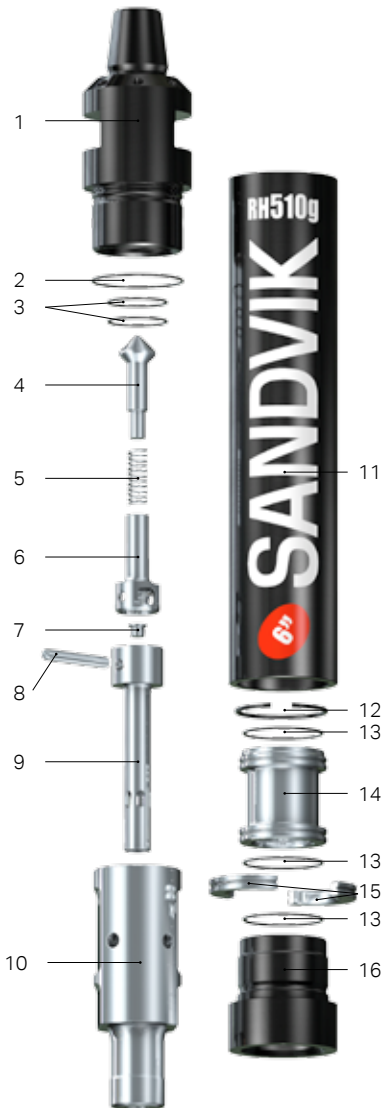
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
82	180	150	5.9	922	36.3	1008	39.7	1046	41.2

AIR CONSUMPTION, CFM

150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
343	659	972	9.8	18.7	27.5

AIR CONSUMPTION, M³/MIN

150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
343	659	972	9.8	18.7	27.5



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
#28 Cubex. pin	22	48.4	33-6L009/56CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart with spring	0.3	0.66	25-99002A
5. Check valve dart spring	0.02	0.044	BG00348123
6. Check valve guide	0.3	0.66	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99013
9. Feed tube with retainer pin and blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case with retainer ring	33	72.6	BG00465129
12. Piston retainer ring	0.1	0.22	23-99028
13. O-rings – guide sleeve, bit retainer (3)			In seal kit
14. Guide sleeve with 2 O-rings (#13)	4	8.8	26-68J10A
15. Bit retainer ring with O-ring (#13)	1	2.2	27-68006A
16. Driver sub	6	13.2	34-6LD70

Seal kit

1 pieces of #2, 2 of #3 & 3 of #13	0.25	0.5	38-68656
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Rebuild kit

1 piece of #1, 1 of #11, 1 of #16 & seal kit			
#28 Cubex. pin	62	136.4	BG00474819

Bit shank

M60



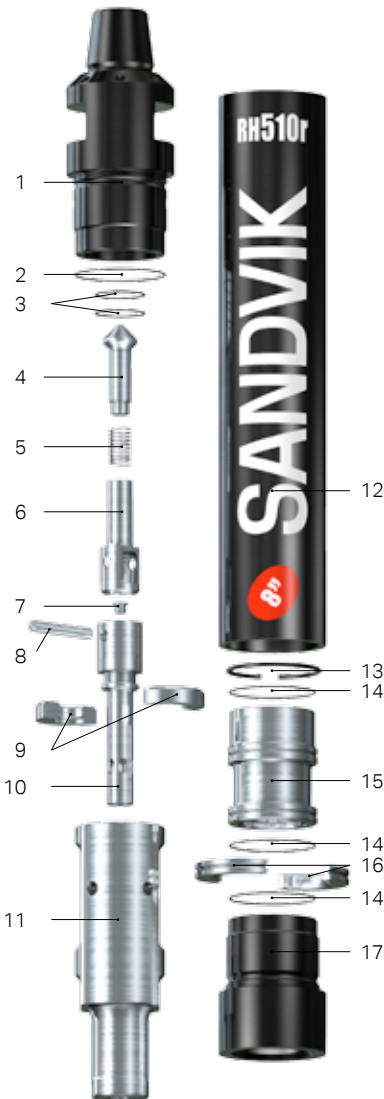
Complete Hammer

4 1/2" BECO pin

32-5185-RMA-72C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
173	380	181	7.12	1219	48	1310	51.6	1354	53.3

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	460	850	1240	13	23.8	35.1
Low volume option	300	560	830	08.05	15.9	23.5



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
4 1/2" BECO pin	42	92.4	33-88002/72CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.5	1.1	38-11663A
5. Check valve spring	0.1	0.22	38-1/1235-073
6. Check valve guide	0.7	1.54	39-88001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99016
9. Tuning ring for low volume (optional)	0.8	1.76	56-88552
10. Feed tube with retainer pin and blank choke	2.2	4.84	37-88001A
11. Piston	42	92.4	BG00473429
12. Piston case with retainer ring	56	123.2	BG00473546
13. Piston retainer ring	0.2	0.44	23-99030
14. O-rings guide sleeve & bit ret. (3)			In seal kit
15. Guide sleeve with 2 O-rings (#14)	11	24.2	26-88J10A
16. Bit retainer ring with O-ring (#14)	1.9	4.18	27-88006A
17. Driver sub	17	37.4	34-88007
Seal kit			
1 piece of #2, 2 of #3 & 3 of #14	0.25	0.55	38-88056
Rebuild kit			
1 piece of #1, 1 of #12, 1 of #17 & seal kit			
4 1/2" BECO pin	115	253	BG00629764
Bit shank			

M80

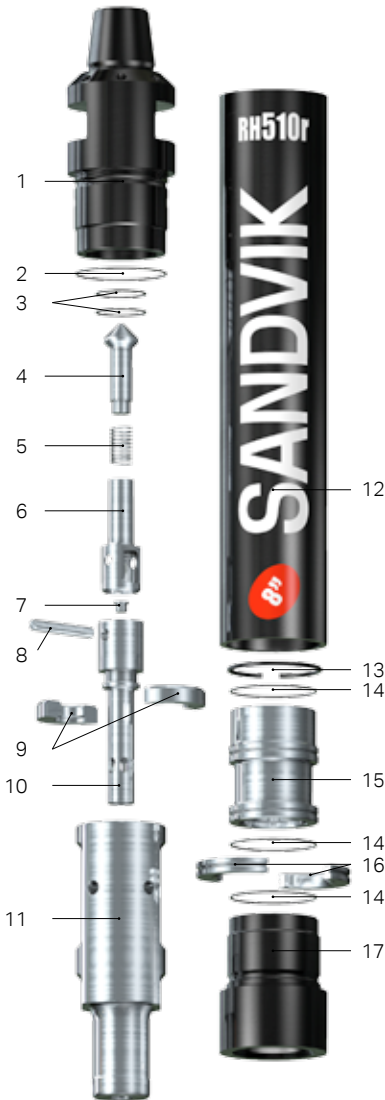


Complete Hammer

5 1/4" BECO pin	32-5185-XMA-84S
4 1/2" API pin	32-5185-XMA-19C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
213	470	193	7.60	1219	48	1310	51.6	1354	53.3

	AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN		
	150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
	460	850	1240	13	23.8	35.1
Low volume option	300	560	830	08.05	15.9	23.5



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub with 3 O-rings			
5 1/4" BECO pin	52.2	115.1	BG00485592
4 1/2" API pin	45.3	100	BG00044555
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.5	1.1	38-11663A
5. Check valve spring	0.1	0.22	38-1/1235-073
6. Check valve guide	0.7	1.54	39-88001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99016
9. Tuning ring for low volume (optional)	0.8	1.76	56-88552
10. Feed tube with retainer pin and blank choke	2.2	4.84	37-88001A
11. Piston	42	92.4	BG00473429
12. Piston case with retainer ring	82	180.8	BG00473740
13. Piston retainer ring	0.2	0.44	23-99030
14. O-rings guide sleeve & bit ret. (3)			In seal kit
15. Guide sleeve with 2 O-rings (#14)	11	24.2	26-88J10A
16. Bit retainer ring with O-ring (#14)	1.9	4.18	27-88006A
17. Driver sub	17	37.4	BG00120731

Seal kit			
1 piece of #2, 2 of #3 & 3 of #14	0.25	0.55	38-88056

Rebuild kit			
1 piece of #1, 1 of #12, 1 of #17 & seal kit			
5 1/4" BECO pin	154.4	340.4	BG00645811
4 1/2" API pin	147.5	325.2	BG00775126

Bit shank			
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M80



Complete Hammer

2 3/8" API reg pin

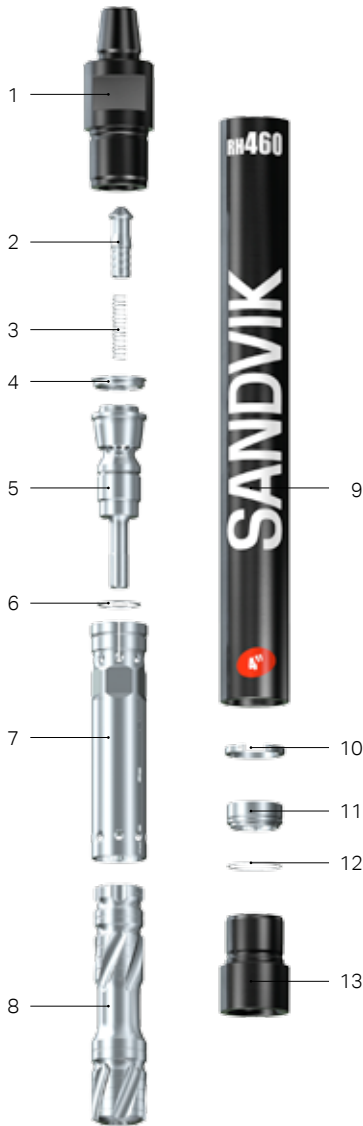
32-4640-ETB-16S


WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
41	90	97.5	3.84	985	38.78	1075	42.16	1109	43.66

AIR CONSUMPTION, CFM

AIR CONSUMPTION, M³/MIN, DIN 1343

250 psi	350 psi	500 psi	18 bar	24 bar	35 bar
364	519	805	10.3	14.7	22.8



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API reg pin	8.2	18	BG00014822
2. Check valve dart no choke	0.24	0.53	BG00320005
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring	0.1	0.22	BG00014825
5. Air distributor with O-ring	2	4.4	BG00175586
6. O-ring air distributor			In seal kit
7. Inner cylinder	2.1	4.62	BG00110688
8. Piston QLX40	7.7	16.9	BG00242889
9. Piston case with retainer ring	15.4	33.9	BG00050403
10. Piston retainer ring	0.1	0.22	BG00014819
11. Bit retainer ring with O-ring QLX40	0.2	0.44	BG00059039
12. O-ring bit retainer ring			In seal kit
13. Driver sub hard faced QLX40	2.8	6.16	BG00242001
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.24	0.53	BG00119068
Seal kit			
1 piece of #6, #12	0.02	0.04	BG00014848
Rebuild kit			
1 piece of #1, #9, #13 & seal kit			
2 3/8" API reg pin	26.5	58.3	BG00242285
Bit shank			
QLX40			

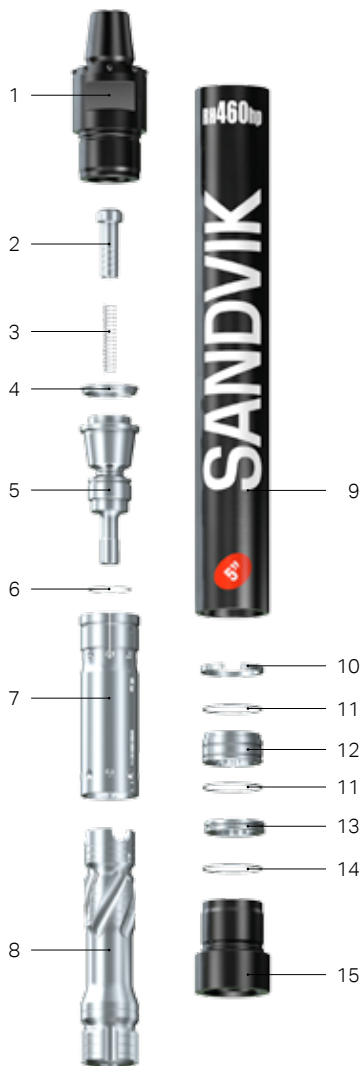
Complete Hammer

3 1/2" API reg pin

32-4655-EQB-04C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
76	168	126	4.96	1067	42.01	1156	45.51	1185	46.65

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
250 psi	350 psi	500 psi	18 bar	24 bar	35 bar	35 bar	
501	692	1102	14.2	19.6	31.2	41.6	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
REPLACEMENT PARTS ITEM DESCRIPTION			
1. Top sub			
3 1/2" API reg pin	15.5	34.1	BG00068455
2. Check valve dart no choke	0.45	0.99	BG00319921
3. Check valve spring	0.03	0.07	BG00854876
4. Make up ring	0.2	0.44	BG00014994
5. Air distributor with O-ring	3.6	7.92	BG00093776
6. O-ring air distributor			In seal kit
7. Inner cylinder	4.2	9.24	BG00025161
8. Piston	14.3	31.5	BG00062889
9. Piston case with retainer ring	30	66	BG00068439
10. Piston retainer ring	0.1	0.22	BG00014998
11. O-ring guide sleeve			In seal kit
12. Guide sleeve with O-ring	1	2.2	BG00014988
13. Bit retainer ring with O-ring	0.4	0.88	BG00014989
14. O-ring bit retainer ring			In seal kit
15. Driver sub hard faced	5.5	12.1	BG00068435

Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.4	0.88	BG00014985

Seal kit			
1 piece of #6, #14 & 2 of #11	0.01	0.02	BG00015014

Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
3 1/2" API reg pin	51	112	BG00081817

Bit shank

QL50



RH460hp

6"

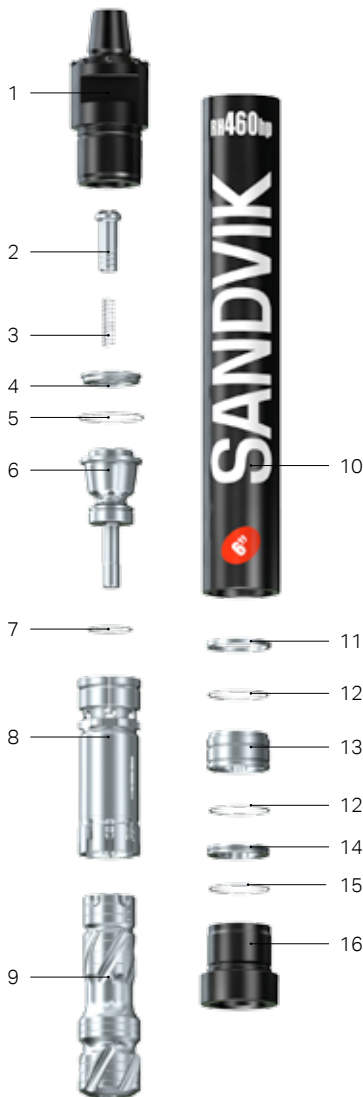
Complete Hammer

3 1/2" API reg pin

32-4665-EQB-04C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
117	257	150	5,91	1155	45,47	1263	49,72	1304	51,34

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
250 psi	350 psi	500 psi	18 bar	24 bar	35 bar	35 bar	
508	713	1085	14,4	20,2	30,7	47,3	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API reg pin	25,4	55,9	BG00224812
2. O-ring top sub			In seal kit
3. Check valve dart no choke	0,70	1,54	BG00321398
4. Check valve spring	0,03	0,07	BG00854872
5. Make up ring	0,40	0,88	BG00014865
6. Air distributor with O-ring	6,20	13,6	BG00419123
7. O-ring air distributor			In seal kit
8. Inner cylinder	6,40	14,1	BG00419144
9. Piston	21,4	47,1	BG00243084
10. Piston case with retainer ring	46,4	102	BG00224808
11. Piston retainer ring	0,10	0,22	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve with O-ring	2,30	5,06	BG00055719
14. Bit retainer ring with O-ring	0,60	1,32	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub	7,20	15,8	BG00224798
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0,01	0,02	BG00081800
Check valve dart with choke hole	0,70	1,54	BG00014869
Seal kit			
1 piece of 2, 7, 15 & 2 of 12	0,01	0,02	BG00014894
Rebuild kit			
1 piece of 1,10,16 & seal kit			
3 1/2" API reg pin	79,0	174	BG00240400

Bit shank

QL60



STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

DRILL PIPES

ACCESSORIES

GRINDING
EQUIPMENT

NON-STANDARD
DTH HAMMERS

NON-STANDARD
DTH DRILL BITS

Complete Hammer


2 3/8" API pin, single lead threads

BG00708123

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
40	88	97.5	3.84	985	38.78	1075	42.16	1109	43.66

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar
190	395	565	5.4	11.2	16	25



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API reg pin	8.2	18	BG00707804
2. Check valve dart no choke	0.24	0.53	BG00320005
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring	0.1	0.22	BG00014825
5. Air distributor with O-ring	2	4.4	BG00056811
6. O-ring air distributor			In seal kit
7. Inner cylinder	2.1	4.62	BG00110688
8. Piston DHD340	7.8	17.2	BG00243036
9. Piston case with retainer ring	15.4	33.9	BG00707798
10. Piston retainer ring	0.1	0.22	BG00014819
11. Bit retainer ring with O-ring DHD340	0.17	0.37	BG00014818
12. O-ring bit retainer ring			In seal kit
13. Driver sub	3.5	7.7	BG00707830
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.24	0.53	BG00119068
Seal kit			
1 piece of #6, #12	0.02	0.04	BG00014848
Rebuild kit			
1 piece of #1, #9, #13 & seal kit			
2 3/8" API reg pin	27	59.4	BG00708138
Bit shank			
DHD340			

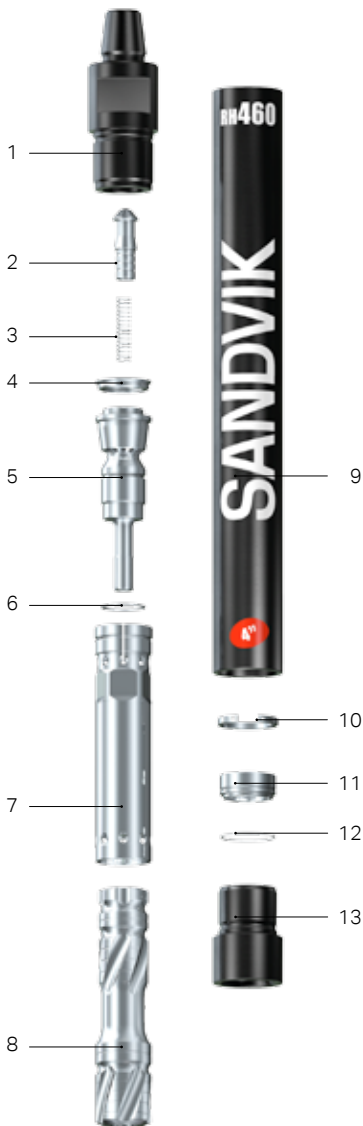
Complete Hammer

2 3/8" API pin, double – triple lead thread

BG00358362

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
40	88	97.5	3.84	985	38.78	1075	42.16	1109	43.66

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
190	395	565	5.4	11.2	16	25	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API pin	7.9	17.4	BG00379867
2. Check valve dart no choke	0.24	0.53	BG00320005
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring	0.1	0.22	BG00014825
5. Air distributor with O-ring	2	4.4	BG00056811
6. O-ring air distributor			In seal kit
7. Inner cylinder	2.1	4.62	BG00110688
8. Piston QLX40	7.7	16.9	BG00242889
9. Piston case with retainer ring	15.4	33.9	BG00358368
10. Piston retainer ring	0.1	0.22	BG00014819
11. Bit retainer ring with O-ring QLX40	0.2	0.44	BG00059039
12. O-ring bit retainer ring			In seal kit
13. Driver sub	2.8	6.16	BG00358367
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.24	0.53	BG00119068
Seal kit			
1 piece of #6, #12	0.02	0.04	BG00014848
Rebuild kit			
1 piece of #1, #9, #13 & seal kit			
2 3/8" API pin, double – triple lead thread	27	59.4	BG00358587

Bit shank

QLX40



Complete Hammer

3 1/2" API pin

BG00840043

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
66	145	120	4.72	1067	42.01	1156	45.51	1185	46.65

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
275	544	756	7.8	15.4	21.4	32.3	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API reg pin	14.8	32.56	BG00014995
2. Check valve dart no choke	0.45	0.99	BG00319921
3. Check valve spring	0.03	0.07	BG00854876
4. Make up ring	0.20	0.44	BG00014994
5. Air distributor with O-ring	3.60	7.92	BG00014996
6. O-ring air distributor			In seal kit
7. Inner cylinder	4.2	9.24	BG00025161
8. Piston	14.3	31.46	BG00062889
9. Piston case with retainer ring	22	48.4	BG00014999
10. Piston retainer ring	0.10	0.22	BG00014998
11. O-ring guide sleeve			In seal kit
12. Guide sleeve with O-ring	1	2.2	BG00014988
13. Bit retainer ring with O-ring	0.4	0.88	BG00014989
14. O-ring bit retainer ring			In seal kit
15. Driver sub	5	11	BG00162923

Optional

Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.4	0.88	BG00014985
Driver sub hard faced	5	11	BG00162923

Seal kit

1 piece of #6, #14 & 2 of #11	0.01	0.02	BG00015014
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Rebuild kit

1 piece of #1, #9, #15 & seal kit			
3 1/2" API reg pin	41.5	91.3	BG00840065

Bit shank

QL50



Complete Hammer

3 1/2" API pin, No retrac/No hard face	BG00827994
2 7/8" API pin	32-4655-GQA-11C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
76	167	126	4.96	1067	42.01	1156	45.51	1185	46.65

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
275	544	756	7.8	15.4	21.4	32.3	




REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API pin, No retrac	15.5	34.1	BG00827973
2 7/8" API pin	13.5	29.7	BG00389203
2. Check valve dart no choke	0.45	0.99	BG00319921
3. Check valve spring	0.03	0.07	BG00854876
4. Make up ring	0.20	0.44	BG00014994
5. Air distributor with O-ring	3.60	7.92	BG00014996
6. O-ring air distributor			In seal kit
7. Inner cylinder	4.20	9.24	BG00025161
8. Piston	14.3	31.5	BG00062889
9. Piston case with retainer ring	30.0	66.0	BG00068439
10. Piston retainer ring	0.10	0.22	BG00014998
11. O-ring guide sleeve			In seal kit
12. Guide sleeve with O-ring	1.00	2.20	BG00014988
13. Bit retainer ring with O-ring	0.40	0.88	BG00014989
14. O-ring bit retainer ring			In seal kit
15. Driver sub	5.50	12.1	BG00827963
Driver sub hard faced	5.50	12.1	BG00068435

Optional			
10. Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
11. Check valve dart with choke hole	0.40	0.88	BG00014985

Seal kit			
1 piece of #6, #14 & 2 of #11	0.01	0.02	BG00015014

Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
3 1/2" API pin, No retrac/No hard face	51.0	112	BG00828090
2 7/8" API pin	49.0	108	BG00389206

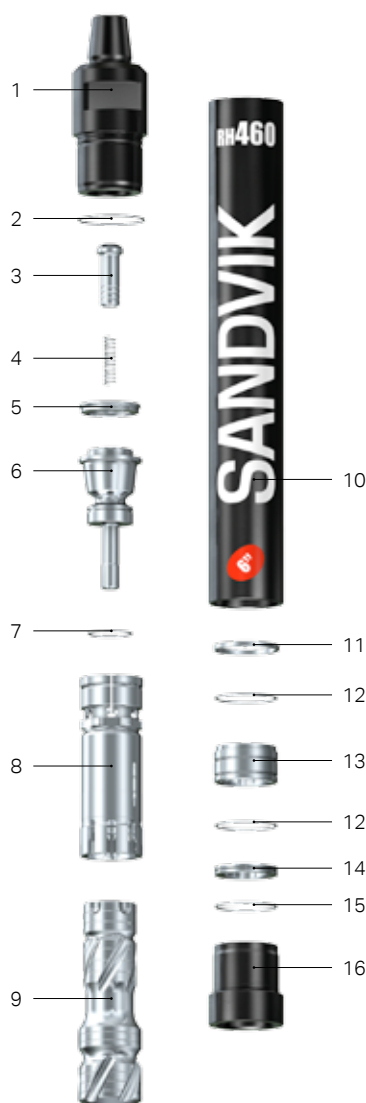
Bit shank	
QL50	

Complete Hammer

3 1/2" API pin	100	220	BG00840057
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WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
100	220	142	5.59	1155	45.47	1263	49.72	1304	51.34

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
307	625	879	8.7	17.7	25	42.4	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API pin	25.4	55.9	BG00014888
2. O-ring top sub			In seal kit
3. Check valve dart no choke	0.7	1.54	BG00321398
4. Check valve spring	0.1	0.22	BG00854872
5. Make up ring	0.4	0.88	BG00014865
6. Air distributor with O-ring	6.2	13.6	BG00054361
7. O-ring air distributor			In seal kit
8. Inner cylinder	6.4	14.1	BG00123002
9. Piston	21.4	47.1	BG00243084
10. Piston case with retainer ring	32.4	71.3	BG00054318
11. Piston retainer ring	0.1	0.22	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve with O-ring	2.3	5.06	BG00055719
14. Bit retainer ring with O-ring	0.6	1.32	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub	6.5	14.3	BG00242302
Optional			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.7	1.54	BG00014869
Driver sub hard faced	6.50	14.3	BG00014887
Seal kit			
1 piece of #2, #7, #15 & 2 of #12	0.01	0.02	BG00014894
Rebuild kit			
1 piece of #1, #10, #16 & seal kit			
3 1/2" API reg pin	63.0	139	BG00841109

Bit shank

QL60

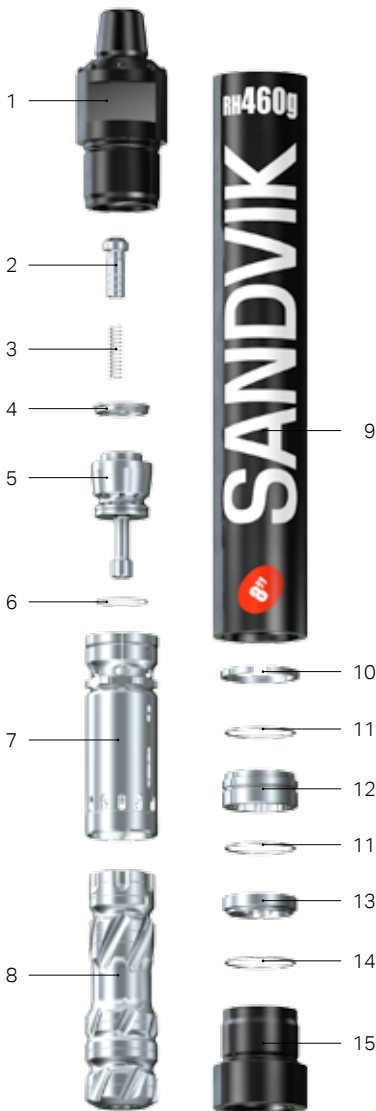


Complete Hammer

4 1/2" BECO pin	BG00319133
5 1/4" BECO pin	BG00394481








WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
kg	lb	mm	inch	mm	inch	Bit closed		Bit extended	
						mm	inch	mm	inch
244	537	194	7.64	1426	56.14	1566	61.65	1608	63.31

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M ³ /MIN, DIN 1343			POWER OUTPUT (kW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
424	953	1448	12	27	41	50	









REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
4 1/2" API reg pin	57.0	125	BG00381892
5 1/4" BECO pin	57.0	125	BG00394159
2. Check valve dart no choke	0.80	1.76	BG00321984
3. Check valve spring	0.04	0.09	BG00652827
4. Make up ring	0.40	0.88	BG00015380
5. Air distributor with O-ring	9.40	20.7	BG00078615
6. O-ring air distributor			In seal kit
7. Inner cylinder	10.5	23.1	BG00057803
8. Piston	50.0	110	BG00277131
9. Piston case with retainer ring	94.2	207	BG00358368
10. Piston retainer ring	0.20	0.44	BG00096748
11. O-ring guide sleeve			In seal kit
12. Guide sleeve with O-ring	3.00	6.60	BG00096749
13. Bit retainer ring with O-ring	1.40	3.08	BG00096752
14. O-ring bit retainer ring			In seal kit
15. Driver sub hard faced	15.9	35.0	BG00303677
Optional			
Choke set, blank, 3mm, 4.5mm and 6mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.80	1.76	BG00015375
Seal kit			
1 piece of #6, #11 & #14	0.01	0.02	BG00303706
Bit shank			
QL80			

DTH BITS / M SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank	
	mm	inch			gauge	front	kg	lb			
M30											
Concave face / Ballistic button											
	105	4 1/8	2	8	14	14	6.1	13.4	42-3A5B105-R55	M30 	
<hr/>											
M40											
Concave face / Spherical button											
	121	4 3/4	2	8	14	14	9.4	20.7	42-481B121-S48	M40 	
	121	4 3/4	2	8	14	14	9.4	20.7	42-481B121-S65		
	130	5 1/8	2	8	16	13	10.4	22.9	42-4818130-S48		
	152	6	2	8	16	13	12.3	27.1	42-4818152-S48		
Convex face / Ballistic button											
	115	4 1/2	2	8	14	14	8.9	19.6	42-485B115-R55		
	130	5 1/8	3	9	16	14	10.4	22.9	42-48L9130-R48		
Flat face / Spherical button											
	115	4 1/2	2	8	14	14	9	19.8	42-48FB115-S65		
	121	4 3/4	2	8	14	14	9.4	20.7	42-48FB121-S48		
	127	5	2	8	14	14	9.7	21.4	42-48FB127-S65		
	133	5 1/4	2	8	16	14	10.6	23.4	42-48F9133-S48		
	140	5 1/2	2	8	16	14	11.1	24.5	42-48F9140-S48		
Convex face / Ballistic and spherical button											
	127	5	2	8	14	14	9.6	21.2	42-485B127-L55		

DTH BITS / M SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
M50										
Concave face / Ballistic button										M50
	146	5 3/4	2	8	16	14	15.1	33.3	42-5819146-R55	
Concave face / Spherical button										
	130	5 1/8	2	8	16	13	13.8	30.4	42-5818130-S48	
	133	5 1/4	2	8	16	13	13.9	30.6	42-5818133-S48	
	146	5 3/4	2	8	16	14	15.1	33.3	42-5819146-S65	
Convex face / Ballistic button										
	146	5 3/4	3	9	16	16	15.1	33.3	42-58LC146-R48	
	146	5 3/4	3	9	16	16	15.1	33.3	42-58LC146-R55	
	152	6	3	9	18	16	15.4	33.9	42-58LD152-R48	
	155	6 1/8	3	9	18	18	15.5	34.2	42-58LE155-R55H	
Convex face / Spherical button										
	140	5 1/2	3	9	18	18	15	33.1	42-58GE140-W55	
Flat face / Spherical button										
	140	5 1/2	3	9	16	14	15	33.1	42-5829140-S65	
	146	5 3/4	3	9	16	14	15.3	33.7	42-5829146-S48	

STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

DRILL PIPES

ACCESSORIES

GRINDING
EQUIPMENT








NON-STANDARD
DTH HAMMERS

NON-STANDARD
DTH DRILL BITS

DTH BITS / M SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
M60										
Concave face/Spherical button										M60
	152	6	2	8	18	18	20.3	44.7	42-681E152-S65	
	159	6 1/4	2	8	18	18	20.6	45.4	42-681E159-S48	
	159	6 1/4	2	8	18	18	20.6	45.4	42-681E159-S65	
	178	7	3	9	18	18	23.6	52.0	42-68DE178-S48	
	190	7 1/2	3	9	18	18	27.3	60.2	42-68DE190-S48	
	219	8 5/8	3	9	18	18	31.5	69.4	42-68DE219-S48	
Concave face/Ballistic button										
	155	6 1/8	3	9	18	18	22.2	48.9	42-68LE155-R55	
	159	6 1/4	3	9	18	18	22.9	50.5	42-68LE159-R48	
Convex face/Spherical button										
	165	6 1/2	3	9	18	18	22.7	50.0	42-68GE165-W55	
	165	6 1/2	2	10	18	16	22.3	49.2	42-686D165-SDDH	
	165	6 1/2	3	9	22	18	21.7	47.8	42-68LL165-S48	
	172	6 3/4	2	10	18	16	22.9	50.5	42-686D172-SDDH	
	172	6 3/4	3	9	22	18	22.2	48.9	42-68LL172-S48	
	190	7 1/2	3	9	18	18	28.1	61.9	42-68GE190-W55	
Flat face/Spherical button										
	152	6	3	9	18	18	20.9	46.1	42-682D152-S48	
	155	6 1/8	3	9	18	18	21.0	46.3	42-682D155-S48	
	165	6 1/2	3	9	18	18	22.3	49.2	42-682E165-S48H	
	165	6 1/2	3	12	18	18	22.6	49.8	42-68XE165-S48	
	172	6 3/4	3	9	18	18	22.9	50.5	42-682E172-S48H	
	172	6 3/4	3	12	18	18	23.4	51.6	42-68XE172-S48	
	172	6 3/4	3	9	18	18	22.9	50.5	42-682E172-S65	
	178	7	3	9	18	18	23.6	52.0	42-682E178-S48	
	190	7 1/2	3	9	18	18	27.5	60.6	42-682E190-S48	
M80										
Concave face / Spherical button										M80
	203	8	3	9	18	18	46.6	102.7	42-88PE216-S48	
	203	8	3	9	18	18	47.3	104.3	42-88PE219-S48	
	222	8 3/4	3	12	18	18	65.7	144.8	42-888E270-S48	
Flat face / Spherical button										
	216	8,5	3	9	18	18	47.6	102.7	42-882E216-S48	

DTH BITS / DHD SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank	
	mm	inch			gauge	front	kg	lb			
DHD3.5 HD											
Convex face / Spherical / Ballistic button										DHD3.5 HD	
	98	3 7/8	2	8	11	11	6.3	13.9	42-3H54098-L55		
	105	4 1/8	2	8	12	12	6.4	14.1	42-3H5B105-L55		
Foot valve											
							0.5	1	47-3H017		
DHD340											
Concave face / Ballistic button											DHD340
	115	4 1/2	2	8	14	13	9.0	19.8	42-361A115-R48		
	127	5	2	8	14	13	9.8	21.6	42-361A127-R48		
Flat face/Spherical button											
	110	4 3/8	2	8	14	13	8.8	19.4	42-36FA110-S48		
	115	4 1/2	2	8	14	13	9.0	19.8	42-36FA115-S65		
	115	4 1/2	2	8	16	13	8.9	19.6	42-36F8115-S65		
	127	5	2	8	14	13	9.9	21.8	42-36FA127-S65		
130	5 1/8	2	8	16	13	10.6	23.4	42-36F8130-S48			
Foot valve											
							0.5	1	47-36017		

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DTH BITS / QLX/QL SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank	
	mm	inch			gauge	front	kg	lb			
QLX 40											
Concave face / Spherical button										QLX 40	
	121	4 3/4	2	8	14	13	9.9	21.8	42-4G1A121-S65		
	130	5 1/8	2	8	16	13	10.6	23.4	42-4G18130-S48		
Flat face / Spherical button											
	127	5	2	8	14	13	10.3	22.7	42-4GFA127-S65		
	130	5 1/8	2	8	16	13	11.0	24.2	42-4GF8130-S48		
Foot valve											
							0.5	1	47-4G017		
QL 50											
Concave face / Spherical button											QL50
	130	5 1/8	2	8	16	13	15.5	34.2	42-5018130-S48		
	133	5 1/4	2	8	16	13	15.5	34.2	42-5018133-S48		
	152	6	2	8	18	16	16.9	37.3	42-501D152-S65		
Concave face / Ballistic button											
	140	5 1/2	2	8	16	14	16.3	35.9	42-5019140-R55		
	146	5 3/4	2	8	16	14	16.6	36.6	42-5019146-R55		
Convex face / Ballistic button											
	130	5 1/8	3	9	16	14	15.3	33.7	42-50L9130-R48		
	140	5 1/2	3	9	16	16	16.1	35.5	42-50LC140-R48		
	146	5 3/4	3	9	16	16	16.7	36.8	42-50LC146-R48		
	146	5 3/4	3	9	16	16	16.7	36.8	42-50LC146-R55		
	152	6	3	9	18	16	16.9	37.3	42-50LD152-R48		
Convex face / Spherical button											
	146	5 3/4	3	9	16	16	17.5	38.6	42-50LC146-W55		
Flat face / Spherical button											
	130	5 1/8	2	8	16	14	15.3	33.7	42-50F9130-S48		
	140	5 1/2	3	9	16	14	16.5	36.4	42-5029140-S65		
	152	6	3	9	18	16	17.2	37.9	42-502D152-S48		
Foot valve											
							0.5	1.2	47-50017		

DTH BITS / QLX/QL SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	Shank
	mm	inch			gauge	front	kg	lb		
QL60										
Concave face / Spherical button										QL60
	152	6	2	8	18	18	22.3	49.2	42-761E152-S65	
	155	6 1/8	2	8	18	18	22.2	48.9	42-761E155-S48	
	155	6 1/8	2	8	18	18	22.2	48.9	42-761E155-S65	
	159	6 1/4	2	8	18	18	22.5	49.6	42-761E159-S48	
	159	6 1/4	2	8	18	18	22.5	49.6	42-761E159-S65	
	172	6 3/4	3	9	18	18	24.7	54.4	42-76DE172-S65	
	178	7	3	9	18	18	25.3	55.8	42-76DE178-S48	
	190	7 1/2	3	9	18	18	29.1	64.1	42-76DE190-S48	
Convex face / Ballistic button										
	165	6 1/2	3	9	18	18	24.2	53.3	42-76GE165-R48	
	165	6 1/2	3	9	18	18	24.2	53.3	42-76GE165-R55	
	172	6 3/4	3	9	18	18	24.7	54.4	42-76GE172-R48	
	172	6 3/4	3	9	18	18	24.7	54.4	42-76GE172-R55	
Convex face / Spherical button										
	165	6 1/2	3	9	22	18	23.6	52.0	42-76LL165-S48	
	172	6 3/4	3	9	18	18	25.1	55.3	42-76GE172-W55	
	172	6 3/4	3	9	18	18	24.6	54.2	42-76GE172-S65	
	172	6 3/4	3	9	22	18	24.1	53.1	42-76LL172-S48	
Flat face / Spherical button										
	165	6 1/2	3	9	18	18	24.1	53.1	42-762E165-S48H	
	172	6 3/4	3	9	18	18	24.7	54.4	42-762E172-S48H	
	178	7	3	9	18	18	25.4	56.0	42-762E178-S48	
Foot valve										
							0.5	1.2	47-76017	
QL80										
Concave face / Spherical button										QL80
	219	8 5/8	3	9	18	18	52.9	116.6	42-83PE219-S48	
	270	10 5/8	3	12	18	18	71.2	157.0	42-838E270-S48	
Foot valve										
							0.5	1.2	47-83017	

STANDARD
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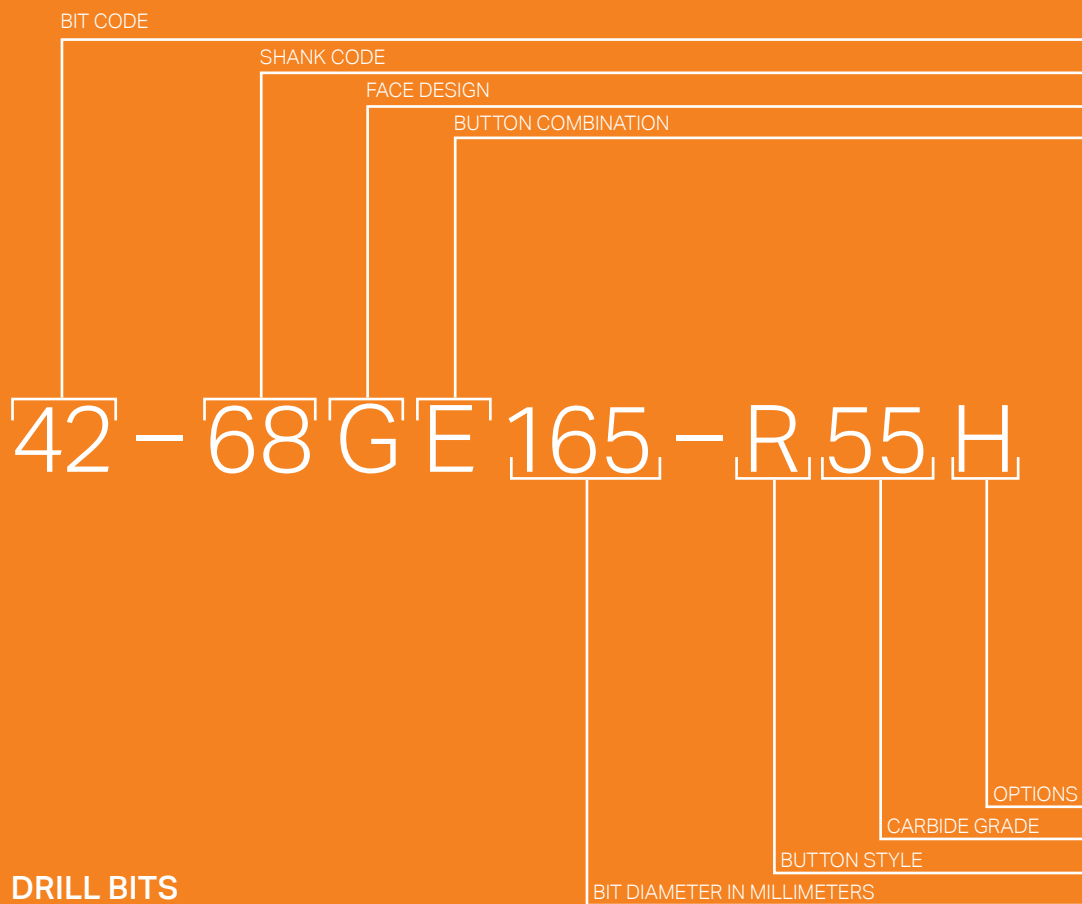
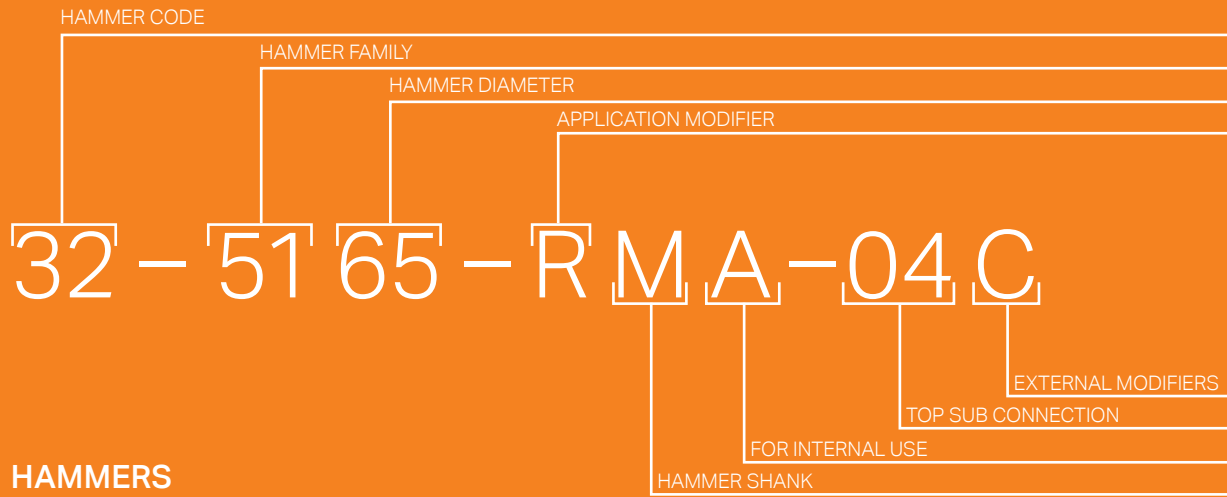
DRILL PIPES

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PART NO. KEYS

HAMMER CODE

APPLICATION MODIFIER	HAMMER DIAMETER		HAMMER FAMILY
R Reversible	30 = 3"	70 = 7" HD	51 = RH510
G HD (Large OD)	35 = 3.5"	80 = 8"	46 = RH460
W Deep hole	40 = 4"	85 = 8" HD	35 = RH350
H Horizontal	50 = 5"	10 = 10"	
S Standard	55 = 5" HD	12 = 12"	
E expanded pressure range	60 = 6"	15 = 15"	
	65 = 6" HD	18 = 18"	

HAMMER SHANK	FOR INTERNAL USE	TOP SUB CONNECTION	EXTERNAL MODIFIERS
M Mission		04 = 3 1/2 API REG PIN	S Standard
Q QL		11 = 2 7/8 API REG PIN	C Retract carbides in top sub
D DHD		16 = 2 3/8 API REG PIN	
T QLX		19 = 4 1/2 API REG PIN	
		39 = 6 5/8 API REG PIN	
		25 = 3 1/2 API REG BOX	
		74 = 3 1/2 API IF PIN	
		55 = 3 1/2 BECO PIN	
		72 = 4 1/2 BECO PIN	
		77 = #24 CUBEX PIN	
		63 = #21 CUBEX PIN	
		56 = #28 CUBEX PIN	
		84 = 5 1/4" BECO PIN	

BUTTON COMBINATION	FACE DESIGN			SHANK CODE	
	Face code	Flushing holes	Gauge buttons		
0 = 11 / 11 9 = 16 / 14	Concave face			3A = M 30	36 = DHD 340
1 = 12 / 12 A = 14 / 13	1	2	8	3H = DHD 3.5 HD	69 = DHD 350
2 = 13 / 11 B = 14 / 14	D	3	9	4G = QLX40	73 = DHD 360
3 = 13 / 12 C = 16 / 16	T	2	10	48 = M 40	87 = DHD 380
4 = 13 / 13 D = 18 / 16	8	3	12	58 = M 50	50 = QL 50
5 = 14 / 11 E = 18 / 18	P, J	3	varies	68 = M 60	76 = QL 60
6 = 14 / 12 F = 18 / 14	Flat face			88 = M 80	83 = QL 80
7 = 16 / 12 G = 12 / 11	A	2	10	24 = DHD 3.5	
8 = 16 / 13	F	2	8		
	2	3	9		
	K	3	12		
	Convex face				
	3	2	7		
	5	2	8		
	6	2	10		
	C	3	12		
	L	3	9		
	G	3	9		

BIT DIAMETER IN MM	BUTTON STYLE	CARBIDE GRADE	OPTIONS
	Shape	48 = XT48	H = Extra hard body
	Spherical	55 = DP55	F = Rope fishing thread
	Ballistic	65 = DP65	
	Spherical gauge	D2 = Diamond	
	Ballistical face		
	Std		
	With wear protection		
	S		
	R		
	L		
	T		

