



DOWN THE HOLE ROCK DRILLING TOOLS

2020



CONTENTS

WORKING WITH SAFETY IN MIND	4
HEALTH AND SAFETY INFORMATION	4
SANDVIK ROCK TOOLS: A SUSTAINABLE CHOICE	5
MASTERING CEMENTED CARBIDES	6
ROCK TOOLS SERVICES	9
STANDARD DTH HAMMERS AND DRILL BITS	9
PROPER CARE MEANS MAXIMIZED UPTIME	9
STANDARD DTH HAMMERS AND DRILL BITS	13
STANDARD DTH HAMMERS	15
STANDARD DTH BITS	49
DTH TUBEX SYSTEMS	70
DRILL PIPES	73
ACCESSORIES	79
PRODUCTS AND TOOLS FOR MORE EFFICIENT, SAFE WORK	80
SANDVIK ROCK DRILL PERFORMANCE FLUIDS	82
NON-STANDARD DTH HAMMERS AND DRILL BITS	85
NON-STANDARD DTH HAMMERS	85
NON-STANDARD DTH BITS	108
PART NUMBER KEYS	120

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

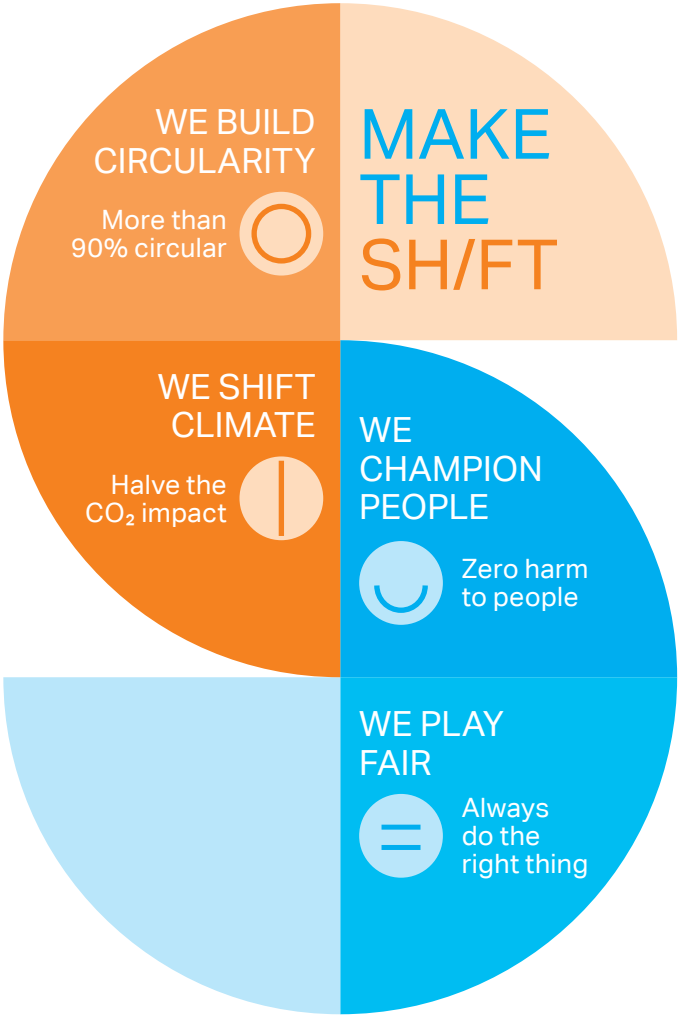
PRECAUTIONARY STATEMENTS

- 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.

SANDVIK ROCK TOOLS: A SUSTAINABLE CHOICE

Sandvik is committed to contributing to a sustainable world. This commitment is summarized by our sustainability agenda for 2030 with goals in four areas: "Make the Shift".



GLOBAL CARBIDE RECYCLING

Sandvik Rock Tools is world-leading in recycling cemented carbide. We view our customers' waste problem as an opportunity. By finding ways to make our own and our customers' businesses more energy efficient and environmentally friendly, we can grow together with high ethics and brand recognition.

The benefits are great with making tools from recycled solid carbide:

- 70% less energy
- 40% less CO2 emissions

OPTIMIZED LOGISTICS CHAIN

Sandvik Rock Tools work closely with both customers and suppliers to optimize the entire logistics chain in order to reduce our global footprint. Between 2017 and 2019, Sandvik Rock Tools reduced its airfreight with 140%, and in all transportation we have reduced the CO2 emissions with more than 33%!

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

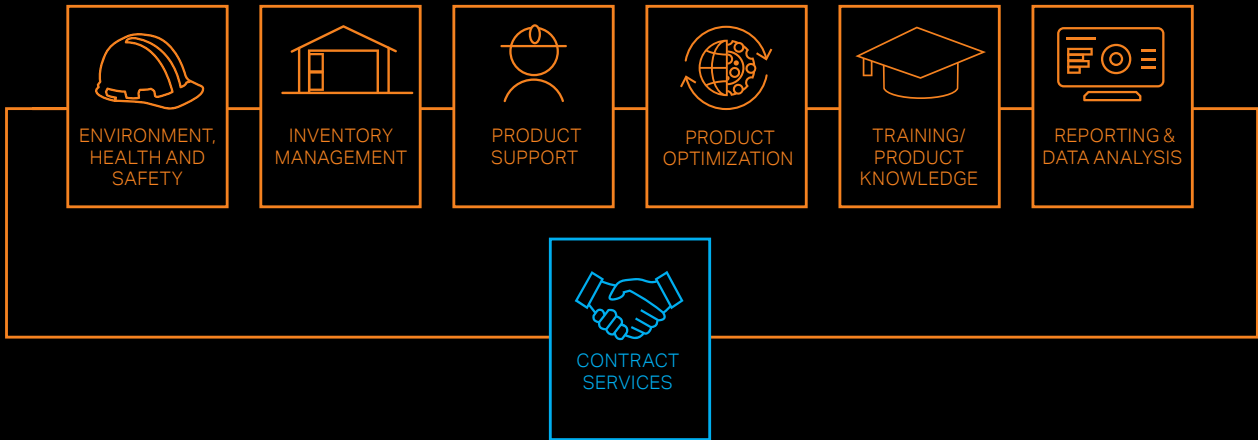
DP65 has similar toughness to XT48 but considerably higher wear resistance. This grade should be your first choice when drilling in very abrasive rock with large spherical inserts.





ROCK TOOLS SERVICES

Sandvik is a world-leader in the supply of mining and rock excavation tools and equipment. In addition to supplying your operation with the premium brand of rock tools, our range of added services and digital solutions support your drilling operations, everyday – all year round. And we can also take full responsibility for the supply and life cycle management of your tools with our Rock Tools Contract Services. Overall, we do everything we can to ensure you get maximum life, productivity and performance from your rock tools, so that you can achieve the lowest total drilling costs. With Sandvik Rock Tools Services, you will never work alone.



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 [m³/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	●	●	⦿	○	○	○	○
SANDVIK DI650i	30	28.3	●	●	●	○	○	○	○

- = 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 [m³/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 hammers and drill bits in 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 standard hammer and drill bit offering.

We offer one of the widest
range of hammers and drill bits
in the market.



TAKES DTH DRILLING TO NEW PERFORMANCE HEIGHTS

The Sandvik RH510 series of hammers deliver 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

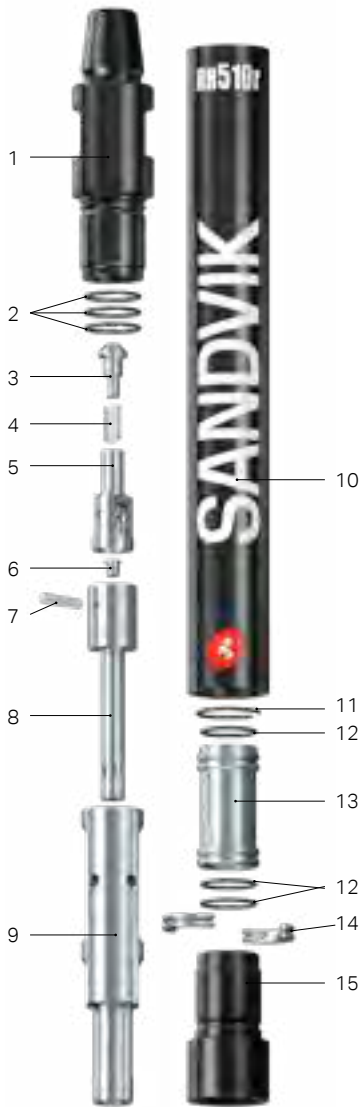
3" RH510 HAMMERS	24
4" RH510 HAMMERS	25
5" RH510 HAMMERS	26
6" RH510 HAMMERS	29
8" RH510 HAMMERS	33

Complete Hammer

2 3/8" API reg. pin top sub						32-5130-RMA-16S			
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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
25	55	81.3	3.2	823	32.4	875	34.4	911	35.9

AIR CONSUMPTION, CFM				AIR CONSUMPTION, M³/MIN		
150 psi	250 psi	350 psi		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
2. O-ring top sub (3) ID and OD			In seal kit
3. Check valve dart with spring	0.3	0.7	25-99006A
4. Check valve dart spring	0.02	0.01	22-99071
5. Check valve guide	0.23	0.5	39-3A001
6. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.2	29-48017A
7. Feed tube retainer pin	0.03	0.1	12-99021
8. Feed tube with retainer pin & blank choke	0.45	1	37-3A001A
9. Piston	3.86	8.5	BG00468603
10. Piston case with retainer ring	10.9	24	BG00468599
11. Piston retainer ring	0.05	0.1	23-99027
12. O-rings – guide sleeve, bit retainer			In seal kit
13. Guide sleeve with 2 O-rings (#12)	1	2.2	26-3A010A
14. Bit retainer ring with O-ring (#12)	0.09	0.2	27-3A006A
15. Driver sub	2.18	4.8	34-3A006

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

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

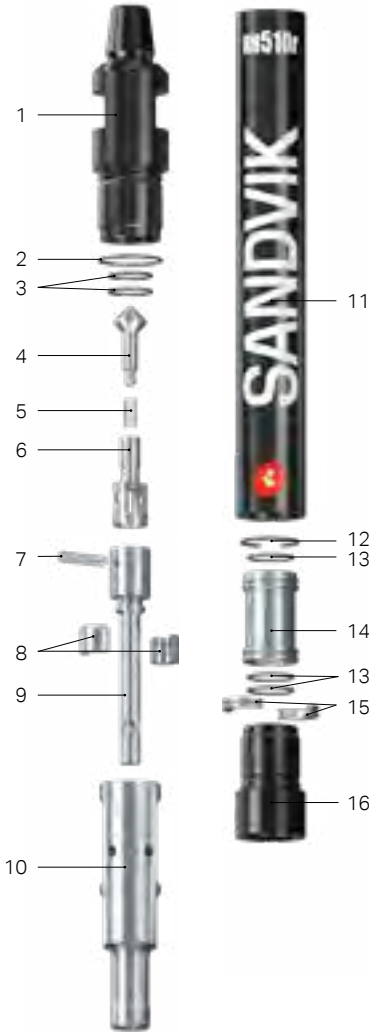
2 3/8" API reg. pin top sub						32-5140-RMA-16S			
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2 7/8" API reg. pin top sub						32-5140-RMA-11S			
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2 3/8" API reg. pin top sub and hard faced driver sub						32-5140-TMA-16S			
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WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
38	83	98	3.56	914	36	989	38.9	1029	40.5

AIR CONSUMPTION, CFM				AIR CONSUMPTION, M³/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.			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			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 #13	0.25	0.5	38-48056-1

Rebuild kit			
1 piece of #1, 1 of #11, 1 of #16 & 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			



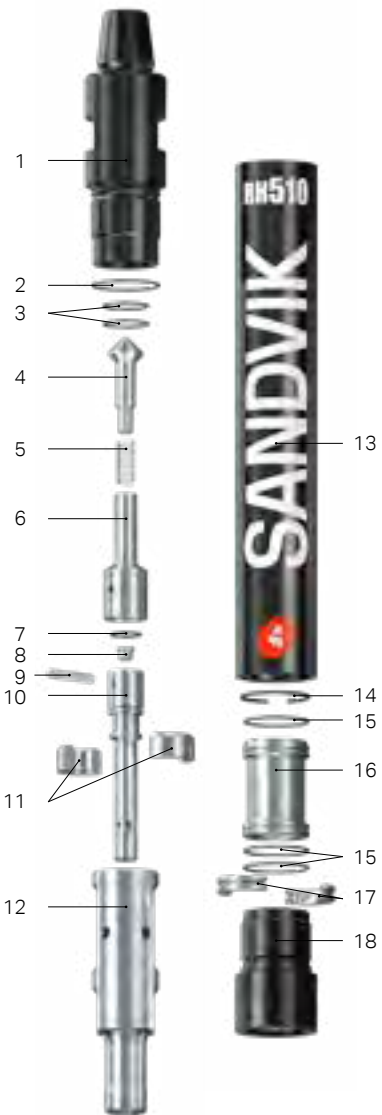
RH510

5"

Complete Hammer

3 1/2" API reg. pin top sub32-5150-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, M³/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.			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			

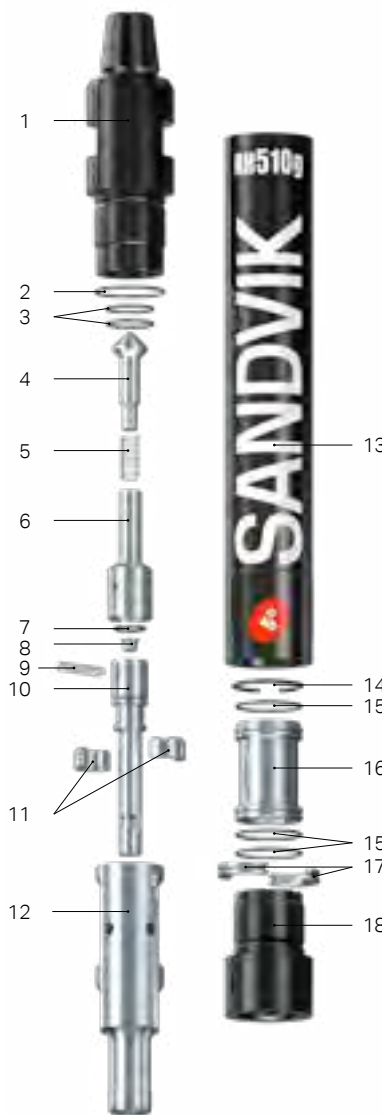
RH510g

5"

Complete Hammer

3 1/2" API reg. pin top sub32-5155-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, M³/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.			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			

RH510r

5"

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			
						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, M³/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	

RH510w

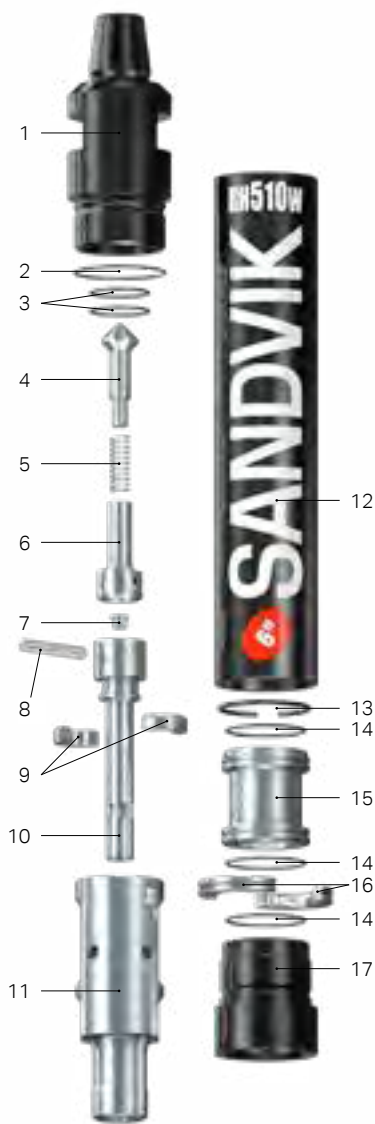
6"

Complete Hammer

3 1/2" API reg. pin32-5160-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, M³/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			
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M60



RH510g

6"

Complete Hammer

3 1/2" API reg. pin top sub32-5165-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
82	180	150	5.9	922	36.3	1008	39.7	1046	41.2

AIR CONSUMPTION, CFM			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			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

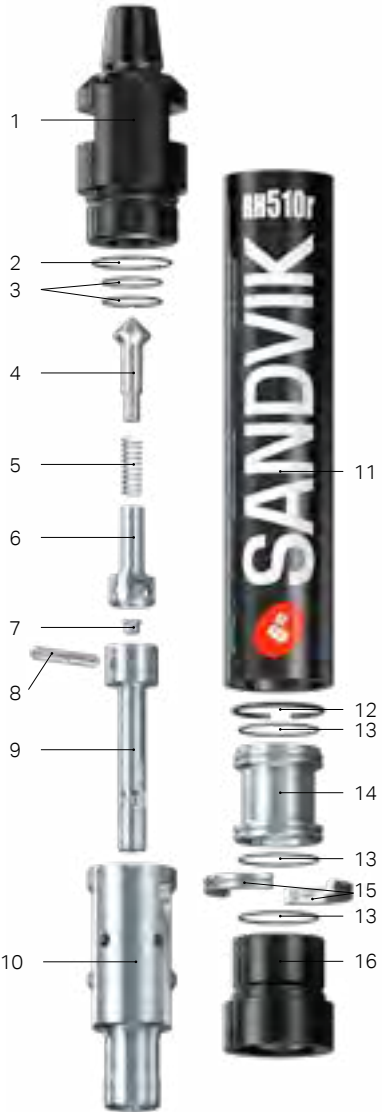
Rebuild kit			
1 piece of #1, 1 of #11, 1 of #16 & seal kit			
3 1/2" API reg. pin	62	136.4	BG00474803

Bit shank			
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M60



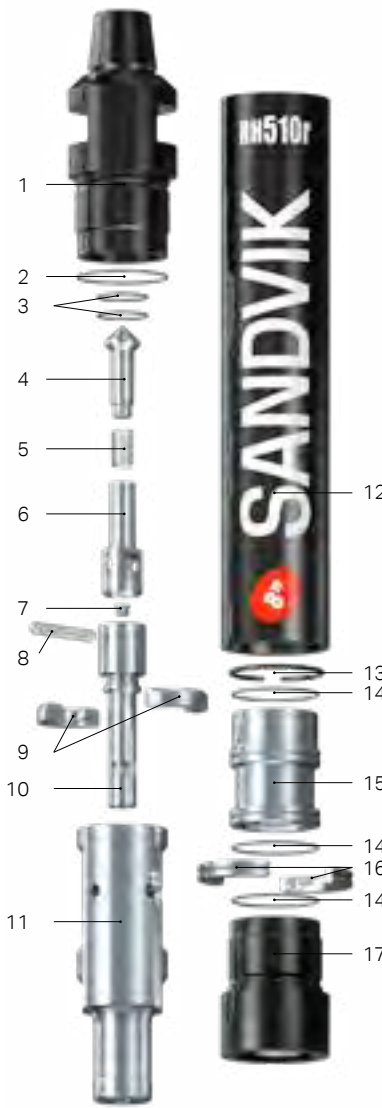
Complete Hammer									
3 1/2" API reg. pin top sub						32-5165-RMA-04C			
#28 Cubex. pin top sub						32-5165-RMA-56C			
3 1/2" BECO. pin top sub						32-5165-RMA-55C			
3 1/2" API reg. pin top sub and hard faced driver sub						32-5165-TMA-04C			
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH 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					AIR CONSUMPTION, M³/MIN				
150 psi		250 psi		350 psi		10 bar		18 bar	
343		659		972		9.8		18.7	
								24 bar	
								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)			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	BG00143988
12. Piston retainer ring	0.1	0.22	23-99028
13. O-rings – guide sleeve, bit retainer			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	34-68670
Driver sub hard faced	7.4	16.3	BG00370990
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, M³/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.			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	

RH510w

8"

Complete Hammer						32-5185-WMA-19S			
4 1/2" API reg. pin top sub									

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, M³/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.			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			
1 piece of #2, 2 of #3 & 3 of #13	0.25	0.55	38-88056

Rebuild kit			
1 piece of #1, 1 of #11, 1 of #16 & seal kit			
4 1/2" API reg. pin	115	253	BG00478484

Bit shank			
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	38
4" RH460 HAMMERS	39
5" RH460 HAMMERS	41
6" RH460 HAMMERS	43
8" RH460 HAMMERS	45

RH460

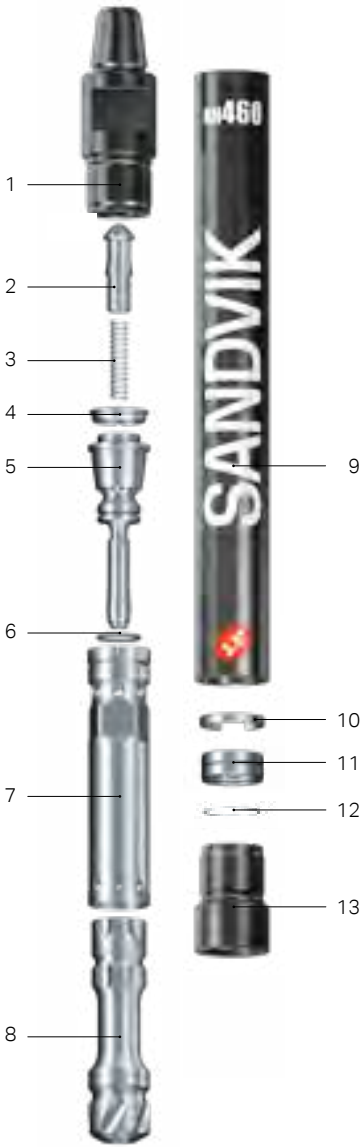
3.5"

Complete Hammer

2 3/8" API reg pin						32-4635-SDA-16S			
#21 Cubex Pin						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, M³/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	0.25	0.6	BG00320005
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
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			

RH460

4"

Complete Hammer

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

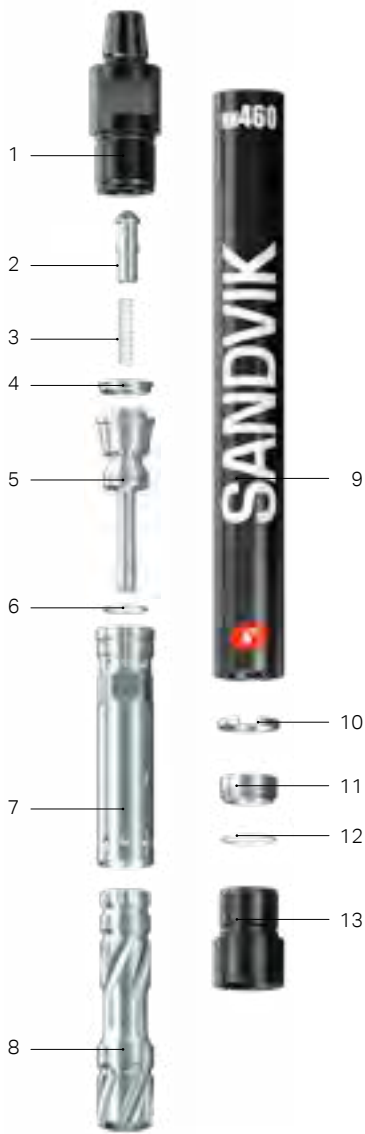
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
40	88	97.5	3.84	985	38.78	1075	42.16	1109	43.66

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/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 DHD340	7.8	17.2	BG00243036
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 DHD340	0.17	0.37	BG00014818
12. O-ring bit retainer ring			In seal kit
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					32-4640-STA-16S				
#24 Cubex pin					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, M³/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
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					32-4650-SQA-04S				
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, M³/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			

RH460g

5"

Complete Hammer

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

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

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/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	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 hard faced	5.50	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	0.40	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 reg pin	51.0	112	BG00081817
#24 Cubex pin	49.0	108	BG00166783

Bit shank			
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QL50



RH460

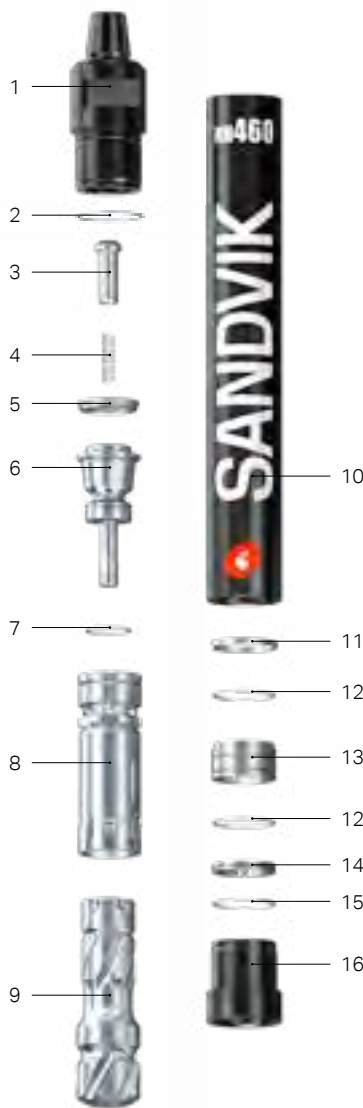
6"

Complete Hammer

3 1/2" API reg pin	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, M³/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 hard faced	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			
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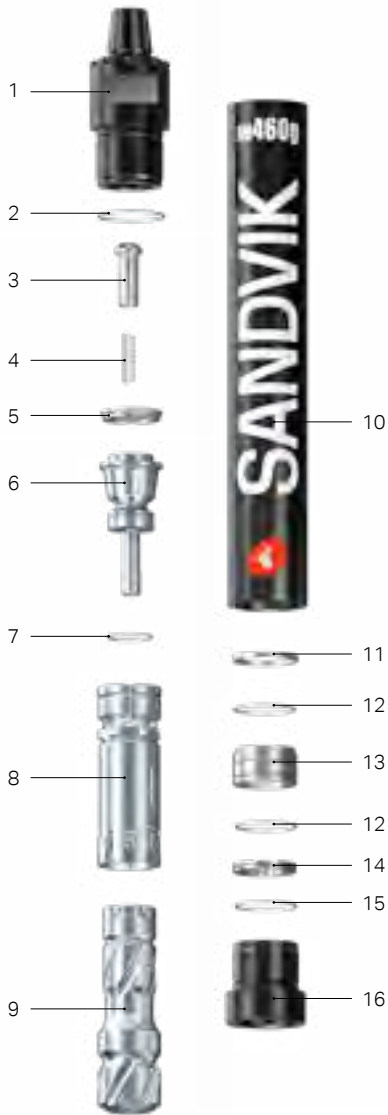
QL60



RH460g

6"

Complete Hammer									
3 1/2" API reg pin								32-4665-GQA-04C	
#28 Cubex pin								32-4665-GQA-56C	
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	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, M³/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			



RH460

8"

Complete Hammer									
4 1/2" API reg pin						32-4680-SQA-19S			
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						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, M³/MIN, DIN 1343				POWER OUTPUT (kW)	
150 psi		250 psi		350 psi		10 bar		18 bar	
365		852		1,290		10.3		24.1	



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			



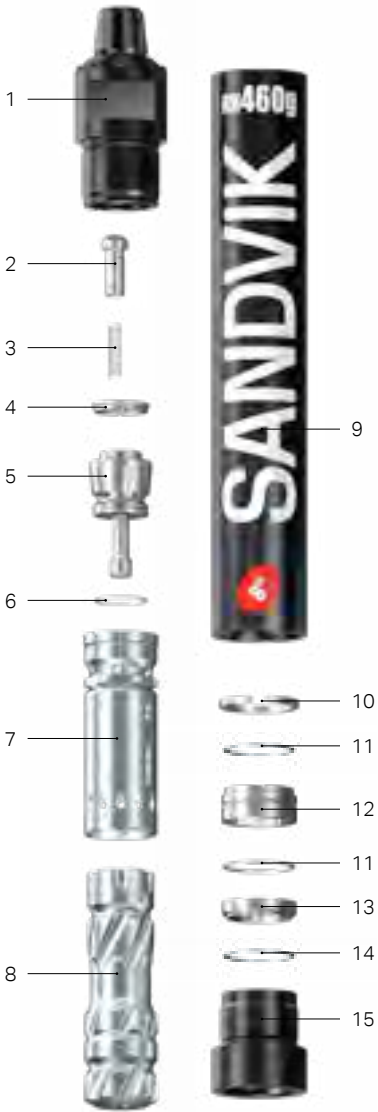
RH460g

8"

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

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						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, M³/MIN, DIN 1343			POWER OUTPUT (kW)
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar
365	852	1,290	10.3	24.1	36.5	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	0.80	1.76	BG00321984
	4. Make up ring	0.04	0.09	BG00652827
	5. Air distributor with O-ring	0.40	0.88	BG00015380
	6. O-ring air distributor	9.40	20.7	BG00078615
	7. Inner cylinder	In seal kit		
	8. Piston	10.5	23.1	BG00057803
	9. Piston case with retainer ring	50.0	110	BG00277131
	10. Piston retainer ring	94.2	207	BG00278268
	11. O-ring guide sleeve	0.20	0.44	BG00096748
	12. Guide sleeve with O-ring	In seal kit		
	13. Bit retainer ring with O-ring	3.00	6.60	BG00096749
	14. O-ring bit retainer ring	1.40	3.08	BG00096752
	15. Driver sub hard faced	In seal kit		

Optional				
	Choke set, blank, 3mm, 4.5mm and 6mm	15.9	35.0	BG00303677
	Check valve dart with choke hole	0.01	0.02	BG00081800
		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				





DRILL FASTER AND REDUCE YOUR COSTS

HIGHER PRODUCTIVITY, REDUCED DOWNTIME

The all-new RH560 DTH hammer has been developed to be a robust and reliable addition to your surface mining and long-haul production drilling operations. It helps you drill faster and lower your drilling cost per hole.

The RH560 hammer is made for jobs that require a more efficient air cycle, allowing you to get more energy out of each blow of the piston and increase your rate of penetration. Using less air, you still get a high output of power that is more energy efficient and uses less fuel.

It also does not use a foot valve in the bits, which will help prevent inconvenient and costly break-downs. Instead, designed so the airflow can be handled without the use of a foot valve. With less leakage, you'll enjoy better efficiency and lower energy costs.

- Other improvements have made the RH560 an even more reliable and functional workhorse in your operations:
- Industry-standard shanks proven and reliable technology
 - Robust piston, increased reliability
 - A new bit retaining system, that are able to carry high loads
 - A reduced number of inner components minimizes parts breakage
 - A V-lock system prevents component movement
 - Less air is required, allowing you to build pressure much faster and shorten start up phase for the drill

3.5" RH560 HAMMERS	16
4" RH560 HAMMERS	17
5" RH560 HAMMERS	19
6" RH560 HAMMERS	20

COMPLETE HAMMER

2 3/8" API Reg Pin						32-5635-SRA-16S			
#21 Cubex Pin						32-5635-SRA-63S			

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
29	63.8	85	3.3	914	36.0	979	38.5	1,004	39.5

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M3/MIN, DIN 1343		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
159	293	392	4.5	8.3	11.1



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
2 3/8" API Reg Pin	5.8	12.8	BG00014759
#21 Cubex Pin	5.8	12.8	BG00568016
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	1.9	4.2	BG00100316
6. O-Ring Air Distributor			
7. Inner Cylinder	1.9	4.2	BG00100315
8. Piston	5.3	11.7	BG00216128
9. Piston Case	10.2	22.4	BG00227151
10. Piston retaining ring			
11. O-Ring Guide Sleeve			In seal kit
12. Guide Sleeve with O-Ring	1.3	2.9	BG00216219
13. Bit Retainer Ring	0.2	0.4	BG00227169
14. O-Ring Bit Retainer Ring			
15. Driver Sub	1.9	4.2	BG00203662
Seal Kit			
1 Piece of 6, 14 & 2 of 11	0.01	0.02	BG01010257
Rebuild Kit			
1 piece of 1,9,15 & Seal Kit			
2 3/8" API Reg Pin	17.0	37.4	BG01010292
#21 Cubex Pin	17.0	37.4	BG01010301
Bit shank			
SS3.5			



COMPLETE HAMMER

2 3/8" API Reg Pin						32-5645-GTA-16S			
#24 Cubex Pin						32-5645-GTA-77S			

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
48	105.6	105	4.1	1,016	40	1,106	43.5	1,140	44.9

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M3/MIN, DIN 1343		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
237	441	597	6.7	12.5	16.9



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
2 3/8" API Reg Pin	9.4	20.7	BG00378463
#24 Cubex Pin	9.0	19.8	BG00906532
2. O-ring Top Sub			
3. O-ring Check Valve Dart			In seal kit
4. Check Valve Dart no Choke			
5. Check Valve Spring	0.04	0.1	BG00876172
6. Make Up Ring			
7. Air Distributor with O-Ring	2.8	6.2	BG00377566
8. O-Ring Air Distributor			
9. Inner Cylinder	2.6	5.7	BG00376970
10. Piston	8.5	18.7	BG00334820
11. Piston Case	19.5	42.9	BG00361296
12. O-Ring Guide Sleeve			
13. Guide Sleeve with O-Ring	1.3	2.9	BG00334637
14. Bit Retainer Ring	0.2	0.4	BG00811287
15. Driver Sub			
Seal Kit			
1 Piece of 2, 3, 8 & 12	0.01	0.02	BG00925938
Rebuild Kit			
1 piece of 1,11,16 & Seal Kit			
2 3/8" API Reg Pin	32.4	71.3	BG00933221
#24 Cubex Pin	32.0	70.4	BG00933225
Bit shank			
QLX560-4			



RH560w

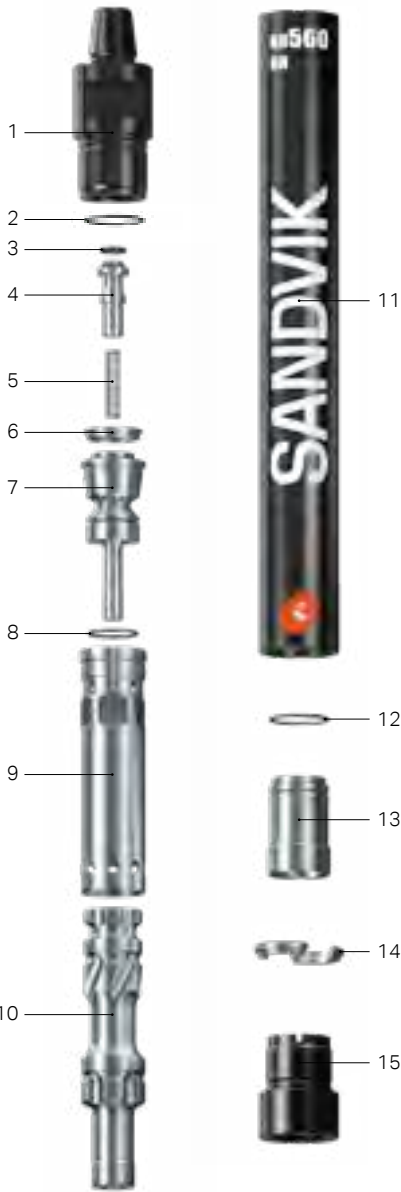
4"

COMPLETE HAMMER

2 3/8" API Reg Pin						32-5645-WTA-16S			
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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
48	105.6	105	4.1	1,016	40	1,106	43.5	1,140	44.9

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN, DIN 1343		
150 psi	250 psi	350 psi	24 bar	30 bar	35 bar
237	441	597	17.9	23.0	27.1



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
2 3/8" API Reg Pin	9.4	20.7	BG00378463
2. O-ring Top Sub			In seal kit
3. O-ring Check Valve Dart			In seal kit
4. Check Valve Dart no Choke	0.3	0.7	BG00904454
5. Check Valve Spring	0.04	0.1	BG00876172
6. Make Up Ring	0.1	0.2	BG00014825
7. Air Distributor with O-Ring	2.8	6.2	BG00978469
8. O-Ring Air Distributor			In seal kit
9. Inner Cylinder	2.6	5.7	BG00968811
10. Piston	8.5	18.7	BG00334820
11. Piston Case	19.5	42.9	BG00361296
12. O-Ring Guide Sleeve			In seal kit
13. Guide Sleeve with O-Ring	1.3	2.9	BG00967093
14. Bit Retainer Ring	0.2	0.4	BG00811287
15. Driver Sub	3.4	7.5	BG00803816

Seal Kit			
1 Piece of 2, 3, 8 & 12	0.01	0.02	BG00925938

Rebuild Kit			
1 piece of 1,11,16 & Seal Kit			
2 3/8" API Reg Pin	32.4	71.3	BG00933221

Bit shank			
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QLX560-4			
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RH560g

5"

COMPLETE HAMMER

3 1/2" API Reg Pin						32-5655-GQA-04C			
#24 Cubex Pin						32-5655-GQA-77C			

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
76	167	127	5.0	1,052	41.4	1,141	41	1,170	42.1

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN, DIN 1343		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
250	526	755	7.1	14.9	21.4



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
3 1/2" API Reg Pin	16.2	35.7	BG00419346
#24 Cubex Pin	15.2	33.5	BG01179147
2. O-ring Top Sub			In seal kit
3. O-ring Check Valve Dart			In seal kit
4. Check Valve Dart no Choke	0.5	1.1	BG00906719
5. Check Valve Spring	0.02	0.04	BG00854876
6. Make Up Ring	0.2	0.4	BG00014994
7. Air Distributor with O-Ring	4.6	10.1	BG00419578
8. O-Ring Air Distributor			In seal kit
9. Inner Cylinder	3.9	8.6	BG00419463
10. Piston	15.0	33.1	BG00418976
11. Piston Case	26.0	57.3	BG00418712
12. O-Ring Guide Sleeve			In seal kit
13. Guide Sleeve with O-Ring	3.2	7.1	BG00418725
14. Bit Retainer Ring	0.2	0.4	BG00817463
15. Driver Sub	5.6	12.3	BG00817456

Seal Kit			
1 Piece of 2, 3, 8 & 2 of 12	0.01	0.02	BG01074634

Rebuild Kit			
1 piece of 1,11,15 & Seal Kit			
3 1/2" API Reg Pin	48	106	BG01178984
#24 Cubex Pin	47	104	BG01179148

Bit shank			
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QL560-5			
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RH560g

6"

COMPLETE HAMMER

3 1/2" API Reg Pin	32-5665-GQA-04C
#28 Cubex Pin	32-5665-GQA-56C

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
117	257.9	150	5.9	1,158	45.6	1,266	49.8	1,307	51.5

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN, DIN 1343		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
310	629	847	8.8	17.8	24



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
3 1/2" API Reg Pin	25.4	56.0	BG00867633
#28 Cubex Pin	27	59.5	BG00859367
2. O-ring Top Sub			In seal kit
3. O-ring Check Valve Dart			In seal kit
4. Check Valve Dart no Choke	0.7	1.5	BG00904397
5. Check Valve Spring	0.03	0.07	BG00854872
6. Make Up Ring	0.4	0.9	BG00014865
7. Air Distributor with O-Ring	6.2	13.7	BG00386925
8. O-Ring Air Distributor			In seal kit
9. Inner Cylinder	5.8	12.8	BG00385028
10. Piston	23	50.7	BG00384750
11. Piston Case	43	94.8	BG00867630
12. O-Ring Guide Sleeve			In seal kit
13. Guide Sleeve with O-Ring	5	11.0	BG00695224
14. Bit Retainer Ring	0.4	0.9	BG00694800
15. Driver Sub	7.2	15.9	BG00867631
Seal Kit			
1 Piece of 2, 7 & 2 of 11	0.01	0.02	BG00874941
Rebuild Kit			
1 piece of 1, 10, 14 & Seal Kit			
3 1/2" API Reg Pin	75	165.3	BG00909795
#28 Cubex Pin	76	167.6	BG00909848

Bit shank
QL560-6




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

STANDARD DTH BITS

BIT SELECTION GUIDE	50
BIT SHANK IDENTIFICATION CHART	51
DTH BITS / M30	54
DTH BITS / M40	54
DTH BITS / M50	55
DTH BITS / M60	56
DTH BITS / M80	56
DTH BITS / DHD3.5 HD / DHD340 SHANKS	58
DTH BITS / QLX40 SHANKS	60
DTH BITS / QL50 SHANKS	61
DTH BITS / QL60 SHANKS	62
DTH BITS / QL80 SHANKS	63
DTH BITS / SS3.5	65
DTH BITS / 560-4	66
DTH BITS / 560-5	67
DTH BITS / 560-6	68
HOLE OPENERS	69
DTH TUBEX SYSTEMS	70

BIT SELECTION GUIDE

FACES	CARBIDES	ROCK HARDNESS		ROCK STRUCTURE		ROCK ABRASIVENESS	
Concave	Ballistic	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
	XT48						
	DP55						
Concave	Spherical	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
	XT48						
	DP65						
Convex	Ballistic	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
	XT48						
	DP55						
Convex	Spherical /Ballistic	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
	DP55 DP55						
Flat	Spherical	Very hard	Soft	Fissured	Homogeneous	Very abrasive	Non abrasive
	XT48						
	DP65						

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.

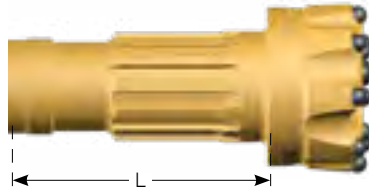
 Convex face with spherical gauge buttons and ballistic front buttons.

BIT SHANK IDENTIFICATION CHART

SS3.5 FOR RH560 • 3.5" L = 180 MM, 12 SPLINES QLX560-4 • 4" L = 209 MM, 12 SPLINES QL560-5 • 5" L = 240 MM, 12 SPLINES



QL560-6 • 6" L = 253 MM, 12 SPLINES



QLX40 • 4", L = 266 MM, 12 SPLINES



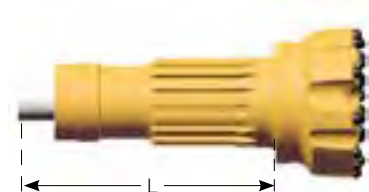
QL50 • 5", L = 293 MM, 12 SPLINES



QL60 • 6", L = 312 MM, 12 SPLINES



QL80 • 8", L = 384 MM, 16 SPLINES



STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

DRILL PIPES

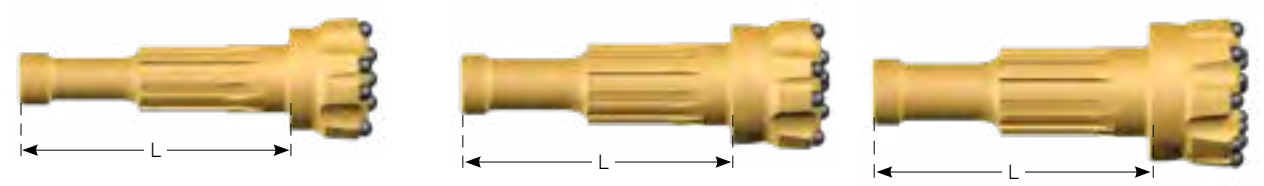
ACCESSORIES

NON-STANDARD
DTH HAMMERS

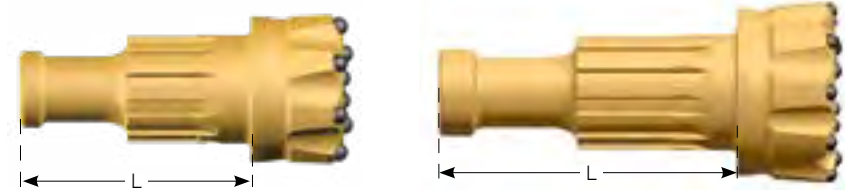
NON-STANDARD
DTH DRILL BITS

DTH BITS/M SHANKS

M30 • 3", L = 224 MM, 8 SPLINES M40 • 4", L = 228 MM, 12 SPLINES M50 • 5", L = 259 MM, 12 SPLINES



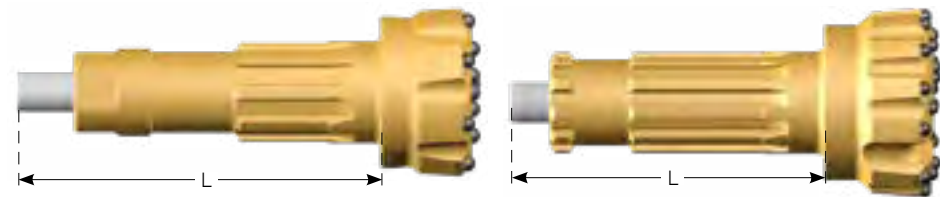
M60 • 6", L = 230 MM, 12 SPLINES M80 • 8", L = 329 MM, 12 SPLINES



DHD3.5 HD • 3.5", L = 240 MM, 8 SPLINES DHD340 • 4", L = 267 MM, 8 SPLINES DHD350 • 5", L = 316 MM, 8 SPLINES



DHD360 • 6", L = 365 MM, 8 SPLINES DHD380 • 8", L = 401 MM, 10 SPLINES



STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

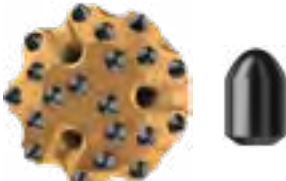
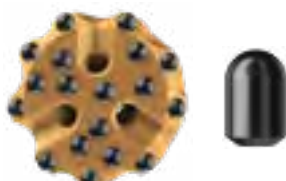
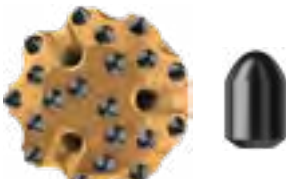
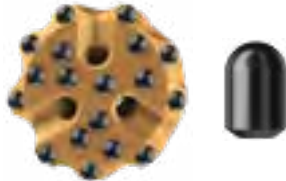
DRILL PIPES

ACCESSORIES

NON-STANDARD
DTH HAMMERS

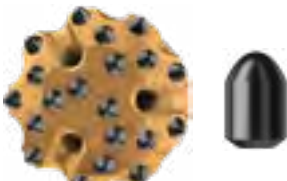
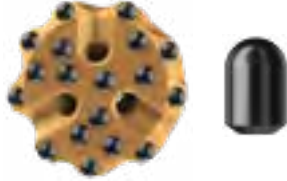
NON-STANDARD
DTH DRILL BITS

DTH BITS/M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
M30									
Convex face / Ballistic button									
	90	3 1/2	2	8	12	12	5.7	12.6	42-3A51090-R48
	95	3 3/4	2	8	12	12	5.8	12.8	42-3A51095-R48
	100	3 7/8	2	8	13	13	6.0	13.2	42-3A54100-R48
	105	4 1/8	2	8	14	14	6.1	13.4	42-3A5B105-R48
Flat face / Spherical button									
	90	3 1/2	2	8	11	11	5.7	12.6	42-3AF0090-S48
	95	3 3/4	2	8	12	12	5.9	13.0	42-3AF1095-S48
	100	3 7/8	2	8	13	13	6.1	13.4	42-3AF4100-S48
	105	4 1/8	2	8	14	14	6.2	13.7	42-3AFB105-S48
M40									
Concave face / Ballistic button									
	115	4 1/2	2	8	14	14	9.1	20.1	42-481B115-R48
	115	4 1/2	2	8	14	14	9.1	20.1	42-481B115-R55
	127	5	2	8	14	14	9.7	21.4	42-481B127-R48
	127	5	2	8	14	14	9.7	21.4	42-481B127-R55
Concave face / Spherical button									
	115	4 1/2	2	8	14	14	9.1	20.1	42-481B115-S48
	115	4 1/2	2	8	14	14	9.1	20.1	42-481B115-S48K
	115	4 1/2	2	8	14	14	9.1	20.1	42-481B115-S65
	127	5	2	8	14	14	9.7	21.4	42-481B127-S48
	127	5	2	8	14	14	9.7	21.4	42-481B127-S65
	133	5 1/4	2	8	16	13	10.6	23.4	42-4818133-S48
Convex face / Ballistic button									
	110	4 3/8	2	8	14	14	8.7	19.2	42-485B110-R48
	115	4 1/2	2	8	14	14	8.8	19.4	42-485B115-R48
	127	5	2	8	14	14	9.7	21.4	42-485B127-R48
Flat face / Spherical button									
	110	4 3/8	2	8	14	14	8.8	19.4	42-48FB110-S48
	115	4 1/2	2	8	14	14	9.0	19.8	42-48FB115-S48
	127	5	2	8	14	14	9.7	21.4	42-48FB127-S48
	130	5 1/8	2	8	16	14	10.4	22.9	42-48F9130-S48

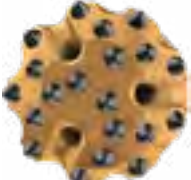
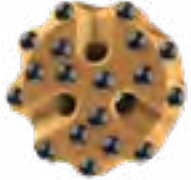
For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS/M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
M50									
Concave face / Ballistic button									
	140	5 1/2	2	8	16	14	14.8	32.6	42-5819140-R48
	140	5 1/2	2	8	16	14	14.8	32.6	42-5819140-R55
Concave face / Spherical button									
	140	5 1/2	2	8	16	14	14.7	32.4	42-5819140-S48
	140	5 1/2	2	8	16	14	14.7	32.4	42-5819140-S65
	146	5 3/4	2	8	16	14	15.0	33.1	42-5819146-S48
	152	6	2	8	18	16	15.3	33.7	42-581D152-S48
	165	6 1/2	2	8	18	16	16.3	35.9	42-581D165-S48
Convex face / Ballistic button									
	140	5 1/2	3	9	16	16	14.6	32.2	42-58LC140-R48
	140	5 1/2	3	9	16	16	14.6	32.2	42-58LC140-R55
Flat face / Spherical button									
	133	5 1/4	3	9	16	14	13.9	30.6	42-58F9133-S48
	140	5 1/2	3	9	16	14	15.0	33.0	42-5829140-S48
	152	6	3	9	18	16	15.7	34.6	42-582D152-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS/M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
M60									
Concave face / Spherical button									
 	152	6	2	8	18	18	20.3	44.8	42-681E152-S48
	155	6 1/8	2	8	18	18	20.4	45.0	42-681E155-S48
	155	6 1/8	2	8	18	18	20.4	49.2	42-681E155-S65
	165	6 1/2	3	9	18	18	22.3	49.2	42-68DE165-S48
	165	6 1/2	3	9	18	18	22.3	49.2	42-68DE165-S65
	172	6 3/4	3	9	18	18	22.9	50.5	42-68DE172-S48
	172	6 3/4	3	9	18	18	22.9	50.5	42-68DE172-S65
	203	8	3	9	18	18	28.6	63.1	42-68DE203-S48
Convex face / Ballistic button									
 	165	6 1/2	3	9	18	18	21.1	46.5	42-68GE165-R48K
	165	6 1/2	3	9	18	18	22.1	48.7	42-68GE165-R55
	172	6 3/4	3	9	18	18	22.3	49.2	42-68GE172-R48K
	172	6 3/4	3	9	18	18	22.8	50.3	42-68GE172-R48
	172	6 3/4	3	9	18	18	22.8	50.3	42-68GE172-R55
Convex face / Spherical button									
 	165	6 1/2	2	10	18	16	22.3	49.2	42-686D165-S48K
	165	6 1/2	3	9	18	18	22.1	48.7	42-68GE165-W55K
	172	6 3/4	2	10	18	16	23.0	50.7	42-686D172-S48K
	172	6 3/4	3	9	18	18	23.4	51.6	42-68GE172-W55
Flat face / Spherical button									
 	155	6 1/8	2	9	18	18	22.3	49.2	42-681E155-S48K
	165	6 1/2	3	9	18	18	22.3	49.2	42-682E165-S48
	165	6 1/2	3	9	18	18	22.3	49.2	42-682E165-S65
	172	6 3/4	3	9	18	18	22.9	50.5	42-682E172-S48
	203	8	3	9	18	18	29.7	65.5	42-682E203-S48
Bulldog / Spherical button									
 	165	6 1/2	2	12	18	18/16	21.3	47.0	42-68BV165-S48
	165	6 1/2	2	12	18	18/16	21.3	47.0	42-68BV165-S48K
	165	6 1/2	2	12	18	18/16	21.3	47.0	42-68BV165-S69
	165	6 1/2	2	10	18	16/16	21.3	47.0	42-68ED165-S69
	165	6 1/2	2	10	20	18/16	21.3	47.0	42-68EV165-S69
	172	6 3/4	2	12	18	18/16	21.9	48.3	42-68BV172-S48
	172	6 3/4	2	12	18	18/16	21.9	48.3	42-68BV172-S48K
M80									
Concave face / Spherical button									
 	203	8	3	9	18	18	44.3	97.7	42-88PE203-S48
	222	8 3/4	3	12	18	18	48.3	106.5	42-888E222-S48
	254	10	3	12	18	18	57.9	127.6	42-888E254-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS/DHD3.5 HD/DHD340 SHANKS



STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

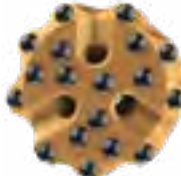
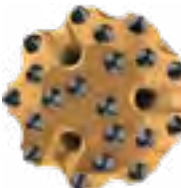
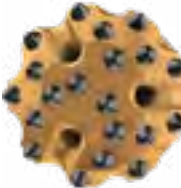
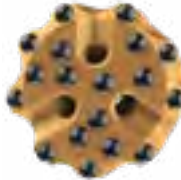
DRILL PIPES

ACCESSORIES

NON-STANDARD
DTH HAMMERS

NON-STANDARD
DTH DRILL BITS

DTH BITS/DHD3.5 HD/DHD340 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
DHD3.5 HD									
Flat face / Spherical button									
 	90	3 1/2	2	8	11	11	6.2	13.7	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	6.6	14.6	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	1.0	47-3H017
DHD340									
Concave face / Spherical button									
 	115	4 1/2	2	8	14	13	9.2	20.3	42-361A115-S48
Convex face / Ballistic button									
 	127	5	2	8	14	13	10.0	22.0	42-365A127-R48
Flat face / Spherical button									
 	115	4.5	2	8	14	13	9.2	20.3	42-36FA115-S48
	127	5	2	8	14	13	10.1	22.3	42-36FA127-S48
Foot valve									
							0.5	1.0	47-36017

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS/QLX/QL SHANKS



STANDARD
DTH HAMMERS

STANDARD
DTH BITS

DTH TUBEX SYSTEMS

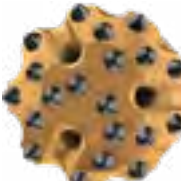
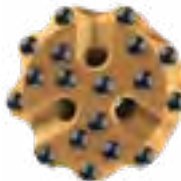
DRILL PIPES

ACCESSORIES

NON-STANDARD
DTH HAMMERS

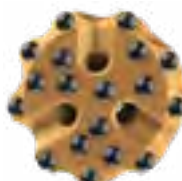
NON-STANDARD
DTH DRILL BITS

DTH BITS / QLX40 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
QLX 40									
Concave face / Spherical button									
 	115	4 1/2	2	8	14	13	9.3	20.5	42-4G1A115-S48
	115	4 1/2	2	8	14	13	9.3	20.5	42-4G1A115-S65
	127	5	2	8	14	13	10.2	22.5	42-4G1A127-S48
Convex face / Ballistic button									
 	115	4 1/2	2	8	14	13	9.5	20.9	42-4G5A115-R48
Flat face / Spherical button									
 	115	4 1/2	2	8	16	13	8.7	19.2	72-4GW8115-S48K
	115	4 1/2	2	8	16	13	9.5	20.9	42-4GF8115-S65
	127	5	2	8	14	13	10.3	22.7	42-4GFA127-S48
Foot valve									
							0.5	1.0	47-4G017

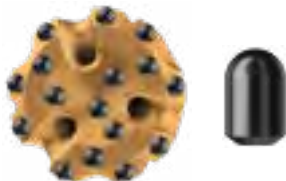
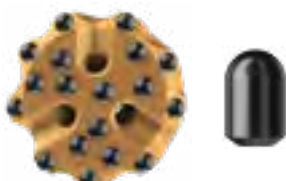
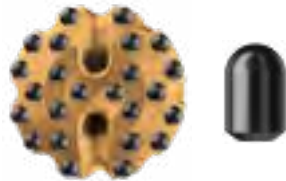
For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / QL50 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
QL50									
Concave face / Spherical button									
 	140	5 1/2	2	8	16	14	16.5	36.4	42-5019140-S48
	140	5 1/2	2	8	16	14	16.2	35.7	42-5019140-S65
	146	5 3/4	2	8	16	14	16.9	37.3	42-5019146-S65
	152	6	2	8	18	16	17.2	37.9	42-501D152-S48
Flat face / Spherical button									
 	140	5 1/2	3	9	16	14	16.8	37.0	42-5029140-S48
	146	5 3/4	3	9	16	14	17.2	37.9	42-5029146-S48
Foot valve									
							0.5	1.2	47-50017

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / QL60 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
QL60									
Concave face / Spherical button									
	165	6 1/2	3	9	18	18	24.6	54.2	42-76DE165-S48
	165	6 1/2	3	9	18	18	24.6	54.2	42-76DE165-S65
	172	6 3/4	3	9	18	18	25.3	55.8	42-76DE172-S48
	203	8	3	9	18	18	31.5	69.4	42-76DE203-S48
Flat face / Spherical button									
	165	6 1/2	3	9	18	18	23.7	52.2	42-762E165-S48
	165	6 1/2	3	9	18	18	24.1	53.1	42-762E165-S65
	203	8	3	9	18	18	31.5	69.4	42-762E203-S48
Bulldog face / Spherical button									
	165	6 1/2	2	12	18	18/16	23.7	52.2	42-76BV165-S48
	172	6 3/4	2	12	18	18/16	24.4	53.8	42-76BV172-S48
Foot valve									
							0.5	1.2	47-76017

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / QL80 SHANKS

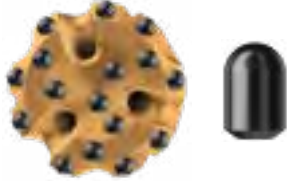
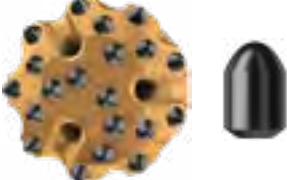
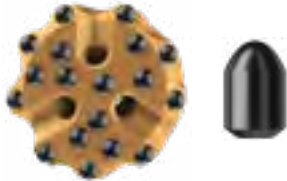
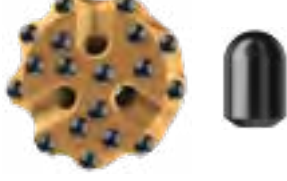
SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
QL80									
Concave face / Spherical button									
	203	8	3	9	18	18	50.6	111.6	42-83PE203-S48
	222	8 3/4	3	12	18	18	53.9	118.8	42-838E222-S48
	229	9	3	12	18	18	56.8	125.2	42-838E229-S48
	229	9	3	12	18	18	56.0	123.5	42-838E229-S65
	254	10	3	12	18	18	65.1	143.5	42-838E254-S48
	254	10	3	12	18	18	63.0	138.9	42-838E254-S65
Foot valve									
							0.5	1.2	47-83017

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / 560 SHANKS

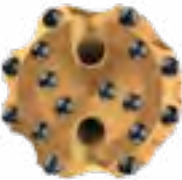
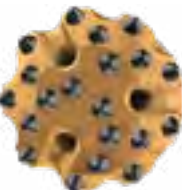
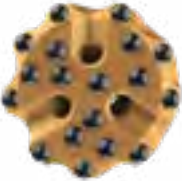
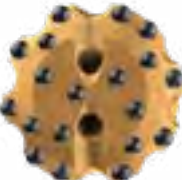


DTH BITS / SS3.5 SHANKS

SANDVIK RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
SS3.5 bits									
Concave face / Spherical button									
	100	3 7/8	2	8	13	12	6.7	14.7	42-3R13100-S48
	105	4 1/8	2	8	13	12	7.0	15.4	42-3R13105-S48
	115	4 1/2	2	8	14	13	7.4	16.3	42-3R1A115-S65
Convex face / Ballistic button									
	95	3 3/4	2	8	12	12	6.4	14.1	42-3R51095-R48
	100	3 7/8	2	8	13	12	6.6	14.5	42-3R53100-R48
	105	4 1/8	2	8	13	13	6.8	15.0	42-3R54105-R48
	115	4 1/2	2	8	14	12	6.2	10.7	42-3R5A115-RKK
Flat Face / Ballistic button									
	105	4 1/8	2	8	13	13	7.0	15.4	42-3RF4105-R48
Flat face / Spherical button									
	95	3 3/4	2	8	12	12	6.6	14.5	42-3RF1095-S48
	100	3 7/8	2	8	13	12	6.8	15.0	42-3RF3100-S48
	105	4 1/8	2	8	13	13	7.0	15.4	42-3RF4105-S48
Convex face / Spherical button									
	115	4 1/2	2	8	14	13	6.2	10.7	42-3R5A115-S55

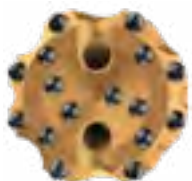
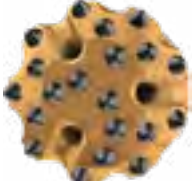
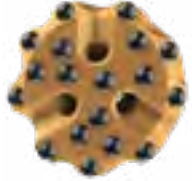
For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / 560-4 SHANKS

SANDVIK RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	
	mm	inch			gauge	front	kg	lb		
560-4 bits										
Concave face / Spherical button										
		115	4 1/2	2	8	14	13	9.8	21.6	42-4H1A115-S48
		115	4 1/2	2	8	14	13	9.8	21.6	42-4H1A115-S65
		121	4 3/4	2	8	14	13	8.9	19.6	72-4H1A121-S48K
		121	4 3/4	2	8	14	13	9.9	21.8	42-4H18121-S65
		127	5	2	8	14	13	10.4	22.9	42-4H1A127-S48
		127	5	2	8	14	14	10.3	22.7	42-4H1B127-S65
Concave face / Ballistic button										
		115	4 1/2	2	8	14	13	8.6	18.9	42-4H1A115-R48
		115	4 1/2	2	8	14	13	8.6	18.9	42-4H1A115-R55
		127	5	2	8	14	13	10.3	22.7	42-4H1B127-R48
Convex face / Ballistic button										
		115	4 1/2	2	8	14	13	9.5	20.9	42-4H5A115-R48
Flat face / Spherical button										
		115	4 1/2	2	8	14	13	9.8	21,6	42-4HFA115-S48
		115	4 1/2	2	8	16	13	9.7	21,3	42-4HF8115-S65
		115	4 1/2	2	8	16	13	8.7	19,1	72-4Hw8115-S48
		115	FF	2	8	16	13	8.7	19,1	72-4HW8115-S48K
		115	4 1/2	2	8	16	13	8.7	19,1	72-4Hw8115-S65
		127	5	2	8	14	14	10.3	22.7	42-4HFB127-S48
140	FF	2	8	16	13			9.9	21.8	42-4HF9140-S48C
Convex face / Spherical button										
		127	5	2	8	14	13	9.1	20.1	42-4H5A127-S48

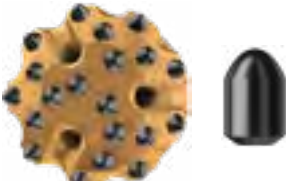
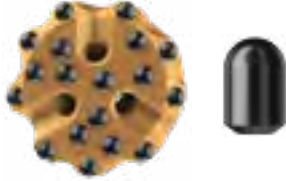
For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / 560-5 SHANKS

SANDVIK RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	
	mm	inch			gauge	front	kg	lb		
560-5 bits										
Concave face / Spherical button										
		140	5 1/2	2	8	16	14	16.2	35.6	42-5H19140-S48
		140	5 1/2	2	8	16	14	16.2	35.6	42-5H19140-S65
		146	5 3/4	2	8	16	14	16.6	36.5	42-5H19146-S48
		152	6	2	8	18	16	16.8	37.0	42-5H1D152-S48
		165	6 1/2	2	8	18	16	17.9	39.4	42-5H1D165-S48
Concave face / Ballistic button										
		140	5 1/2	2	8	16	14	16.3	35.9	42-5H19140-R55
Convex face / Ballistic button										
		140	5 1/2	3	9	16	16	16.1	35.4	42-5HLC140-R55
		146	5 3/4	3	9	16	16	16.7	36.7	42-5HLC146-R48
		146	5 3/4	3	9	16	16	16.7	36.7	42-5HLC146-R55
Flat face / Spherical button										
		140	5 1/2	3	9	16	14	16.5	36.3	42-5H29140-S48
		152	6	3	9	18	16	17.2	37.8	42-5H2D152-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / 560-6 SHANKS

SANDVIK RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
560-6 bits									
Concave face / Spherical button									
	165	6 1/2	3	9	18	18	24.1	53.0	42-63DE165-S48
	165	6 1/2	3	9	16	16	24.5	54.0	42-63DC165-S48
	165	6 1/2	3	9	20	18	23.4	51.6	42-63DP165-S65
	165	6 1/2	3	9	18	18	24.1	53.0	42-63DE165-S65
	172	6 3/4	3	9	18	18	24.8	54.6	42-63DE172-S48
Convex face / Ballistic button									
	165	6 1/2	3	9	18	18	24.2	53.2	42-63GE165-R55
	172	6 3/4	3	9	18	18	24.6	54.1	42-63GE172-R55
Convex face / Spherical button									
	172	6 3/4	3	9	18	18	25.8	56.8	42-63GE172-W55
	190	7 1/2	3	9	18	18	28.8	63.4	42-63GE190-W55
Flat face / Spherical button									
	165	6 1/2	3	9	18	18	25.2	55.4	42-632E165-S48
	172	6 3/4	3	9	18	18	26.0	57.2	42-632E172-S48
	203	8	3	9	18	18	31.4	69.1	42-632E203-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

HOLE OPENERS



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

DTH TUBEX SYSTEMS



TUBEX PRODUCT RANGE

	Tubex type	Casing, recom. size, mm		Min. wall thickness, mm	Max. drill diameter, mm A	Reaming diameter, mm
		Max. OD	Min. ID			
	90	115	102	5	90	123
	115	142	128	5	115	152
	140	171	157	5	140	187
	165	196	183	5.5	165	212
	180	219	194	6.3	180	232
	190	222	205	6.3	190	237
	240	273	260	6.3	240	306
	280	327	305	7.1	280	370

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

DTH TUBEX SYSTEMS

TUBEX	Part	Description	Weight (Kg)	Weight (lbs)	Part no.
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
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



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

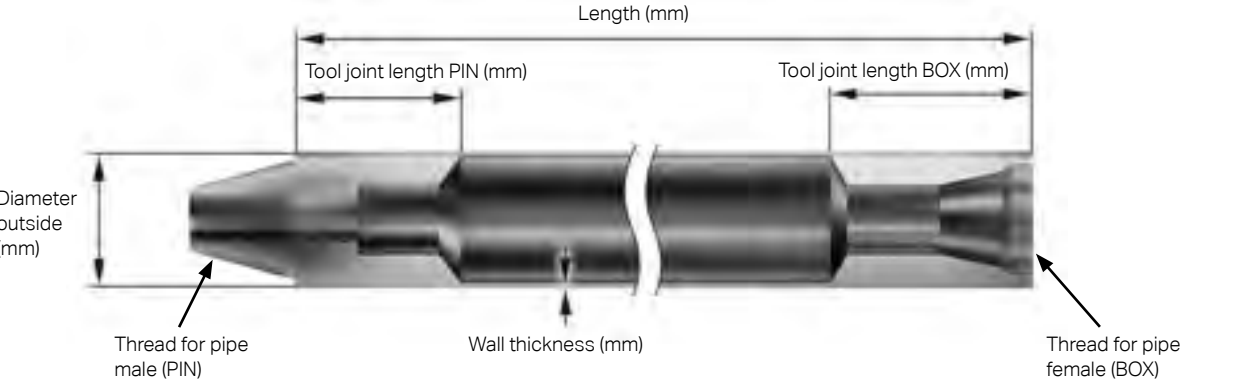
- High-strength, 100% metal-to-metal joint with parent metal properties
- Low-temperature process, gives a small HAZ (heat affected zone) that reduces the risk of failure

HEAVY-DUTY TOOL JOINTS

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

SANDVIK DRILL PIPES	74
SANDVIK ROTATION UNIT ADAPTERS	76
SANDVIK SUBS	77

SANDVIK DRILL PIPES

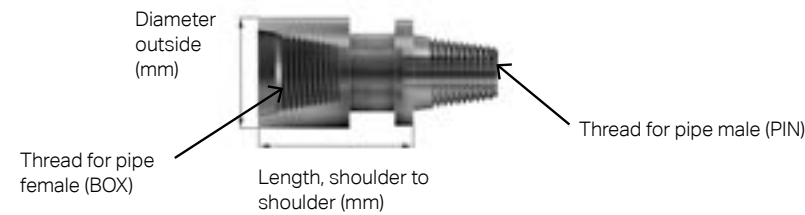


Diameter outside	Wall thickness	Length	Thread for pipe male	Thread for pipe female	Spanner Flat	Internal Spline	Tool joint length Pin	Tool joint length Box	Weight	Part no.	
mm	mm	mm	Pin	Box			mm	mm	kg	lb	
76	4.0	3000	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	165	24	53	52-076-101018
76	4.0	3000	API 2 3/8" 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

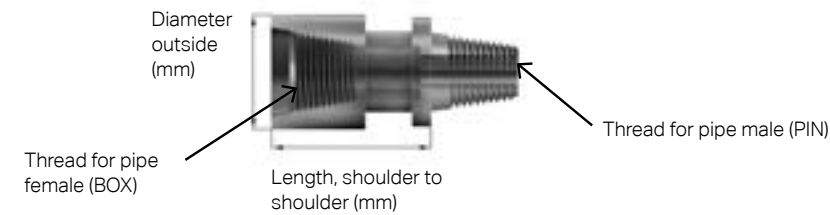
Diameter outside	Wall thickness	Length	Thread for pipe male	Thread for pipe female	Spanner Flat	Internal Spline	Tool joint length Pin	Tool joint length Box	Weight	Part no.	
mm	mm	mm	Pin	Box			mm	mm	kg	lb	
102	6.3	1524	CUBEX #24	CUBEX #24	Y	Y	150	220	32	69	52-20830-132
102	6.3	1828	CUBEX #24	CUBEX #24	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

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.
mm	Pin	Box	mm			kg	lb	
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

ACCESSORIES

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

PRODUCTS AND TOOLS FOR MORE EFFICIENT, SAFE WORK	80
SANDVIK ROCK DRILL PERFORMANCE FLUIDS	82



PRODUCTS AND TOOLS FOR MORE EFFICIENT, SAFE WORK

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.



Bit lifter



Air distributor removal tool



Foot valve assembly tool



Foot valve disassembly tool

Description	Weight		Part no.
	kg	lb	
Bit lifters			
QL80	4.2	9.2	BG00880289
TD90	3.7	8.2	BG00880287
DHD380	3.9	8.6	BG00880290
M80 Bit	3.6	7.9	BG00880859
QL60 Bit	3.7	8.2	BG00880852
DHD360	3.7	8.2	BG00880694
M60	3.6	7.9	BG00880865

Air distributor removal tool			
RH460-3.5"	2.8	6.2	BG00916087
RH460-4"	3.9	8.2	BG00909609
RH460-5"	7.2	15.9	BG00909715
RH460-6" I	8.6	19	BG00810644
RH460-8"	19.8	43.7	BG00812342
RH560-3.5"	2.9	6.4	BG01037472
RH560-4.5"	4.3	9.5	BG00909479
RH560-5.5"	6.7	14.8	BG01126401
RH560-6.5"	8.6	19	BG00909469
RH560-9"	24.2	53.4	BG00909116

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

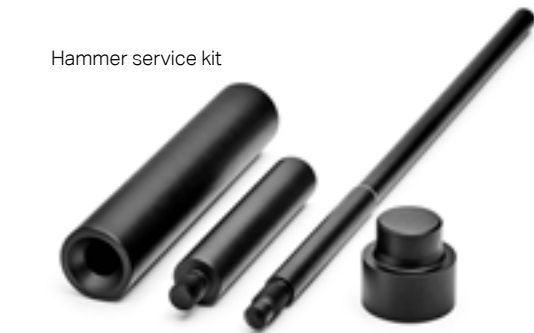
Foot valve disassembly tool			
DHD3.5 / DHD340	1.8	3.9	63-010KTA
QLX4 / QL5 / DHD350	2.5	5.5	63-020KTA
QL6 / DHD 360	3.2	7	63-030KTA
QL8 / DHD380	4.9	10.9	63-040KTA



Driver sub lifter



Hammer lifting bail



Hammer service kit



Grinding templates

Description	Weight		Part no.
	kg	lb	
Driver sub lifters			
RH460-8" Drive Sub Lifter ASSY	4.8	10.6	BG00668428
RH510G-8" Drive Sub Lifter ASSY	4.8	10.6	BG00821120
RH510R-8" Drive Sub Lifter ASSY	4.8	10.6	BG00821130

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

Grinding templates			
Grinding template, spherical buttons	0.1	0.2	795-1397
Grinding template, ballistic buttons	0.1	0.2	795-1398

SANDVIK PERFORMANCE FLUIDS HEAVY-DUTY ROCK DRILL LUBRICATION OIL

Sandvik heavy-duty rock drill lubrication oils are specially engineered for your Sandvik rock tools that operate under harsh mining conditions. With different viscosity classes for colder and warmer climates, this oil will increase the service life of your rock tools and maximize your return on investment.

SANDVIK ROCK DRILL PERFORMANCE FLUIDS HEAVY-DUTY SHANK LUBRICATION OIL			
Product name	Viscosity grade	Item number	Size
Sandvik OS32	ISO VG32	BG00636017	205 L
Sandvik OS32	ISO VG32	BG00636016	5 L e
Sandvik OS46	ISO VG46	BG00861758	205 L
Sandvik OS46	ISO VG46	BG00861769	5 L e
Sandvik OS68	ISO VG68	BG00861806	205 L
Sandvik OS68	ISO VG68	BG00861807	5 L e
Sandvik OS100	ISO VG100	BG00636013	205 L
Sandvik OS100	ISO VG100	BG00636014	5 L e
Sandvik OS150	ISO VG150	BG00861808	205 L
Sandvik OS150	ISO VG150	BG00861809	5 L e
Sandvik OS220	ISO VG220	BG00861810	205 L
Sandvik OS220	ISO VG220	BG00861811	5 L e
Sandvik OS320	ISO VG320	BG00861812	205 L
Sandvik OS320	ISO VG320	BG00861813	5 L e

Sandvik reserves the right to make changes to the information on this data specification without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.



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.

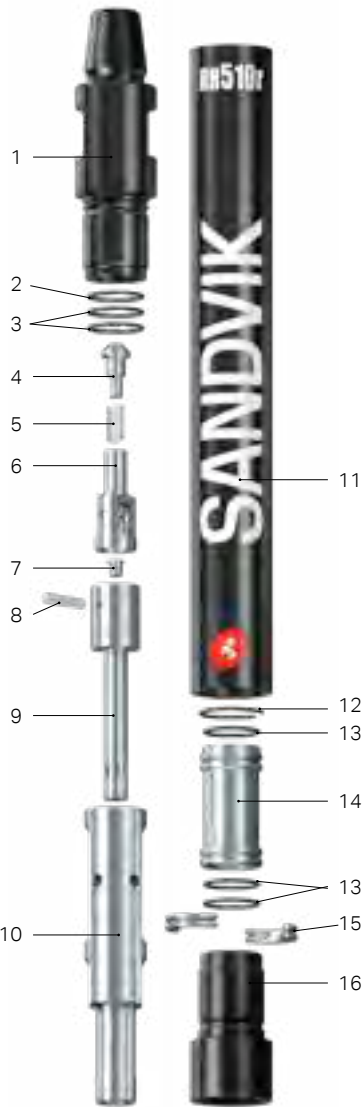
RH510	86
RH460	95
DTH BITS / M SHANKS	108
DTH BITS / DHD SHANKS	112
DTH BITS / QLX/QL SHANKS	117



Complete Hammer

#21 Cubex pin top sub	32-5130-RMA-63S
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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
25	55	81.3	3.2	823	32.4	875	34.4	911	35.9
AIR CONSUMPTION, CFM					AIR CONSUMPTION, M³/MIN				
150 psi		250 psi		350 psi		10 bar		18 bar	
172		304		436		4.87		8.61	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs			
#21 Cubex pin	5	11	33-3A001/63A
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	0.7	25-99006A
5. Check valve dart spring	0.02	0.01	22-99071
6. Check valve guide	0.23	0.5	39-3A001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.2	29-48017A
8. Feed tube retainer pin	0.03	0.1	12-99021
9. Feed tube with retainer pin & blank choke	0.45	1	37-3A001A
10. Piston	3.86	8.5	BG00468603
11. Piston case with retainer ring	10.9	24	BG00468599
12. Piston retainer ring	0.05	0.1	23-99027
13. O-rings – guide sleeve, bit retainer (3)			In seal kit
14. Guide sleeve with 2 O-rings (#12)	1	2.2	26-3A010A
15. Bit retainer ring with O-ring (#12)	0.09	0.2	27-3A006A
16. Driver sub	2.18	4.8	34-3A006
Seal kit			
3 piece of #2 & 3 of #12	0.25	0.5	38-3A056
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
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2 7/8" API pin T-version	32-5140-TMA-11S
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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
38	83	98	3.56	914	36	989	38.9	1029	40.5
AIR CONSUMPTION, CFM					AIR CONSUMPTION, M³/MIN				
150 psi		250 psi		350 psi		10 bar		18 bar	
180		370		560		5.1		10.5	
Low volume option		151		315		4.3		8.9	



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 #13	0.25	0.5	38-48056-1
Rebuild kit			
1 piece of #1, 1 of #11, 1 of #16 & seal kit			
#24 Cubex. pin	28	62	BG00475755
2 7/8" API reg. pin, T-version	28	62	BG00785642

Bit shank

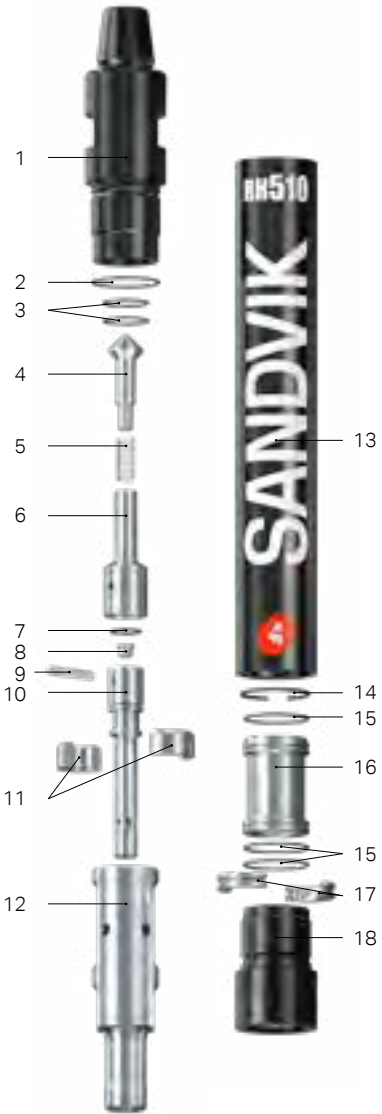
M40



RH510

5"

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, M³/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

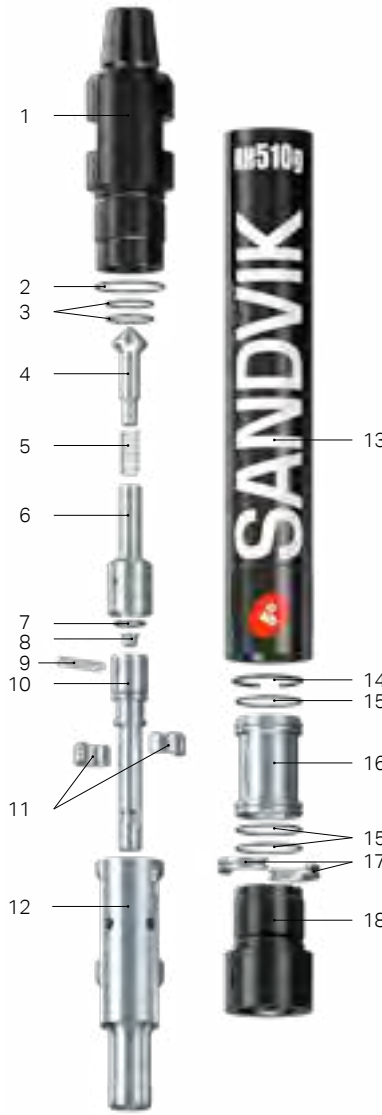


REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
2 7/8" API reg. pin	10	22	33-58D01/11A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
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			

RH510g

5"

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			
						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, M³/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



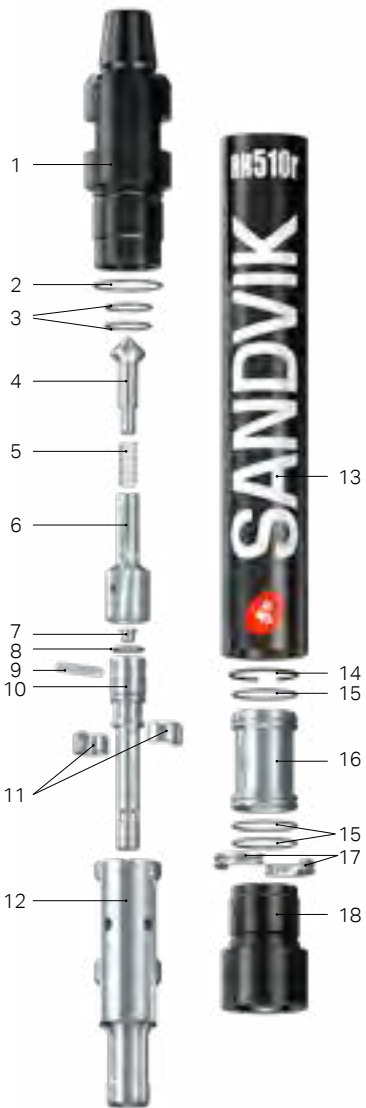
REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
#24 Cubex. pin	18	39.6	33-58D02/77CA
3 1/8 DIBH pin			33-58D02/83CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check 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			
#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, M³/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			

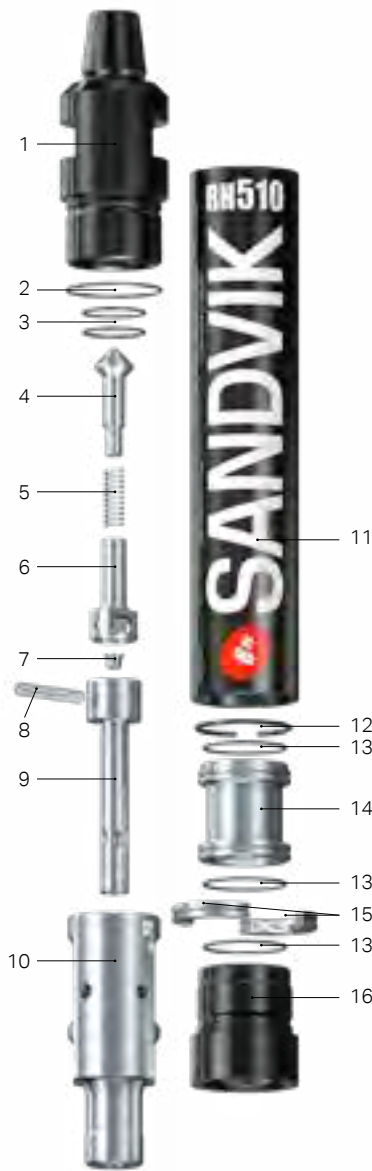


Complete Hammer

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

Bit shank			
M60			



RH510g

6"

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			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

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

Bit shank			
M60			



RH510r

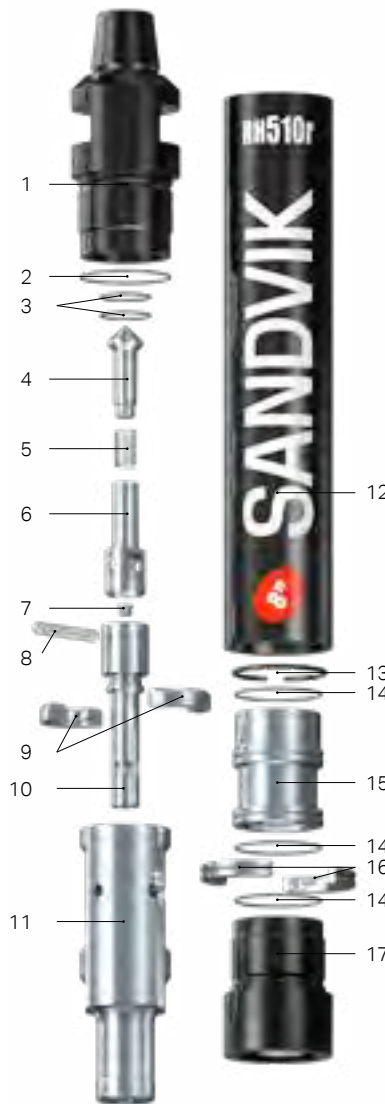
8"

Complete Hammer

4 1/2" BECO pin 32-5185-RMA-72C

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, M³/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

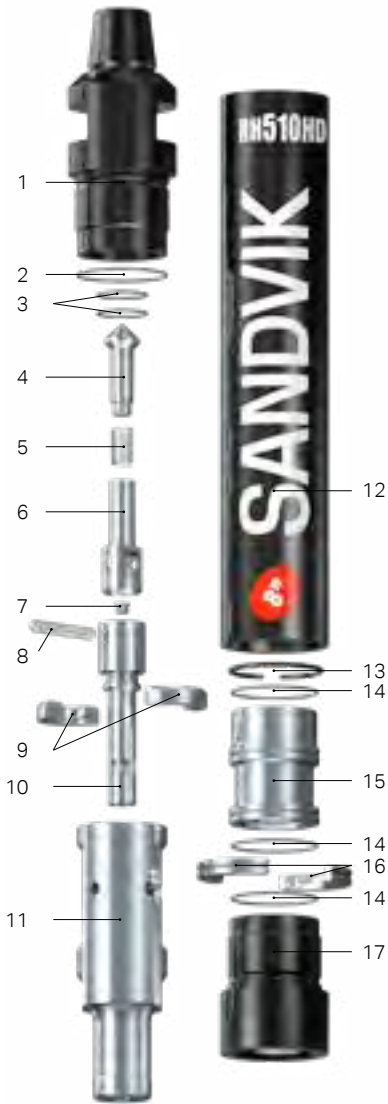
Bit shank			
M80			



RH510HD

8"

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, M³/MIN			
						150 psi	250 psi	350 psi	
						10 bar	18 bar	24 bar	
						460	850	1240	
Low volume option						13	23.8	35.1	
						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

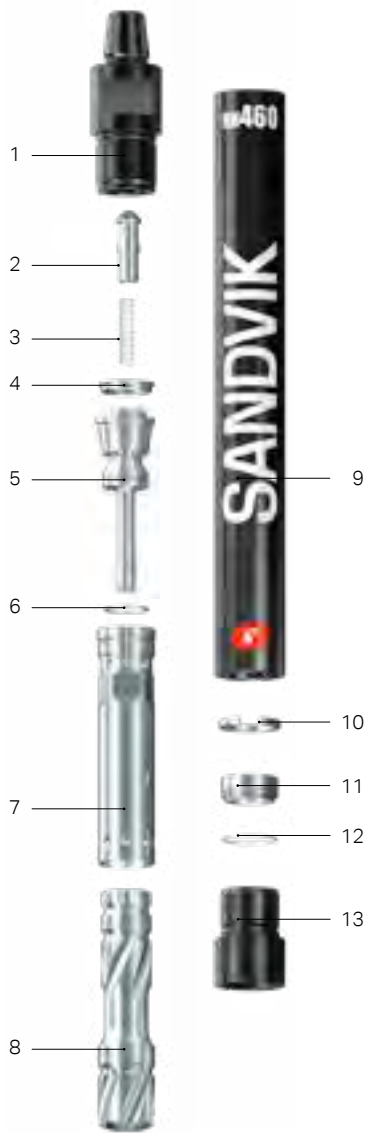
Bit shank			
M80			



RH460

4"

Complete Hammer									
2 3/8" API pin, single lead threads							BG00708123		
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, M³/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

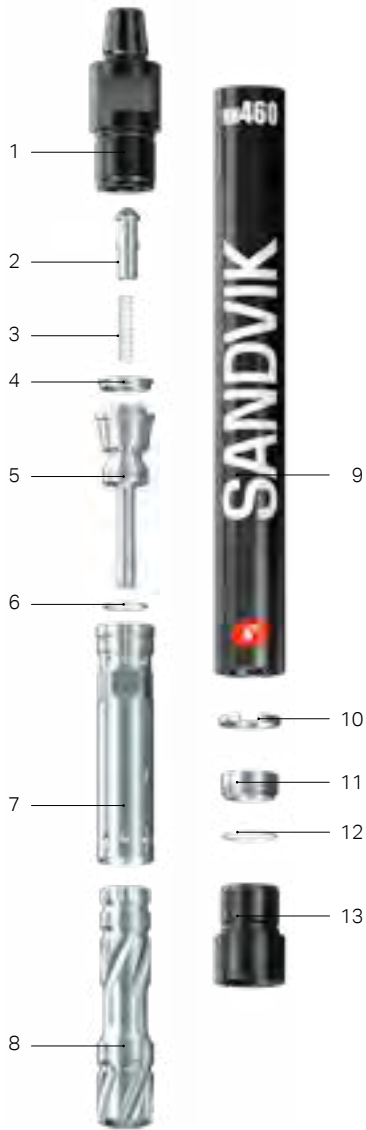
Bit shank			
DHD340			



RH460

4"

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, M³/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	

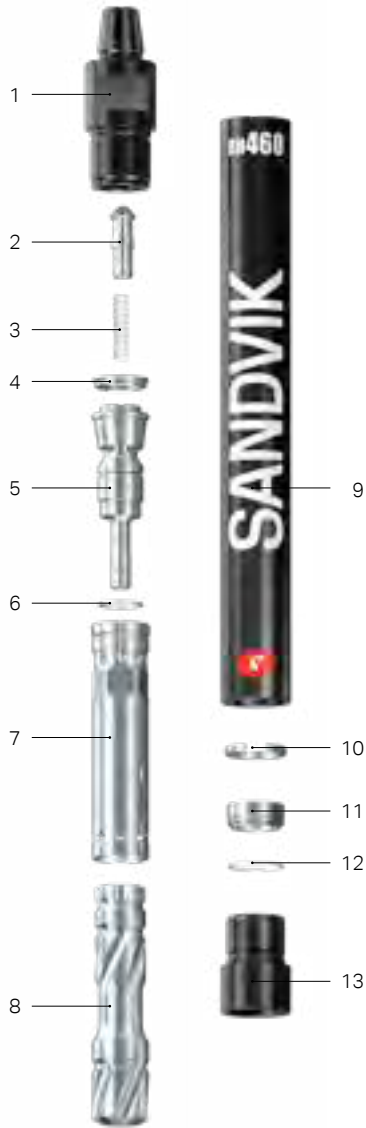


REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
2 3/8" API pin	7.9	17.4	BG00379867
2. Check valve dart no choke	0.24	0.53	BG00320005
3. Check valve spring	0.02	0.04	BG00876172
4. Make up ring	0.1	0.22	BG00014825
5. Air distributor with O-ring	2	4.4	BG00056811
6. O-ring 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			

RH460hp

4"

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			

RH460

5"

Complete Hammer

3 1/2" API pin with hard faced driver sub						BG00840043			
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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, M³/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 hard faced	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
Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
3 1/2" API reg pin	41.5	91.3	BG00840065
Bit shank			
QL50			

RH460g

5"

Complete Hammer

2 7/8" API pin						32-4655-GQA-11C			
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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
76	167	126	4.96	1067	42.01	1156	45.51	1185	46.65

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/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	

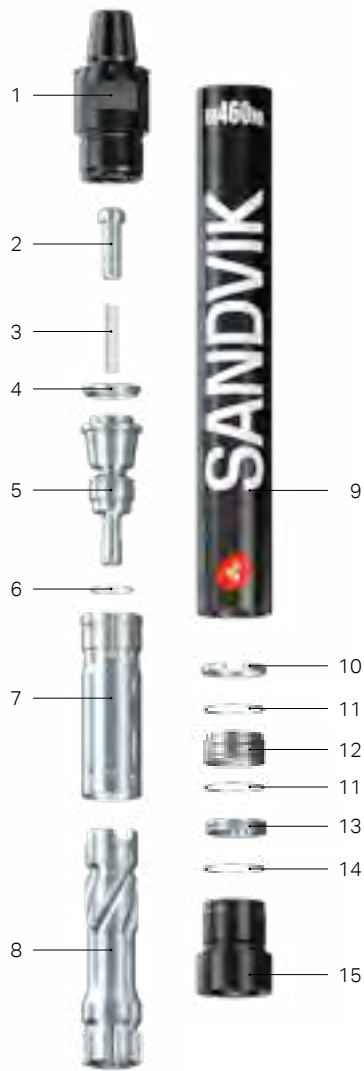


REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub			
3 1/2" API pin, No retrac	15.5	34.1	BG00827973
2 7/8" API pin	13.5	29.7	BG00389203
2. Check valve dart no choke	0.45	0.99	BG00319921
3. Check valve spring	0.03	0.07	BG00854876
4. Make up ring	0.20	0.44	BG00014994
5. Air distributor 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 hard faced	5.50	12.1	BG00827963
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
Rebuild kit			
1 piece of #1, #9, #15 & seal kit			
2 7/8" API pin	49.0	108	BG00389206
Bit shank			
QL50			

RH460hp

5"

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, M³/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.
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			



RH460 DHD

5"

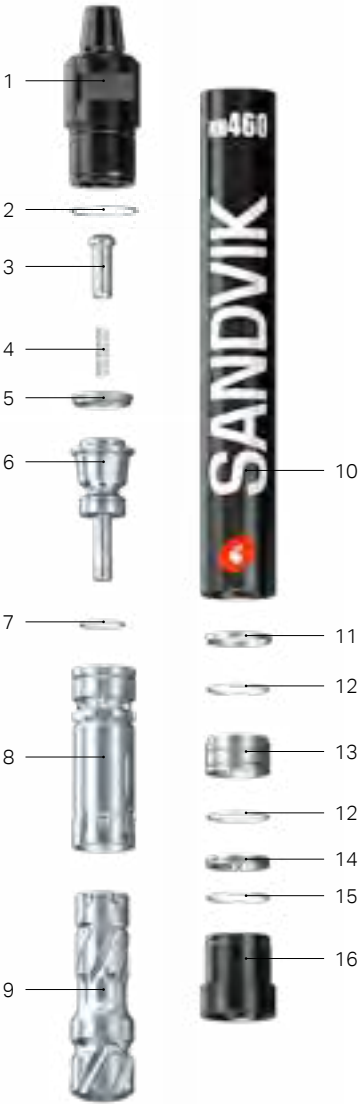
Complete hammer									
3 1/2" API Reg Pin					32-4655-GDA-04C				
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
76	167	126	4.96	1,098	43.2	1,187	46.7	1,216	47.9
AIR CONSUMPTION, CFM			AIR CONSUMPTION, M3/MIN, DIN 1343						
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar				
275	544	756	7.8	15.4	21.4				



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
3 1/2" API Reg Pin	15.5	34.1	BG00068455
2. Check Valve Dart no Choke	0.45	0.99	BG00906719
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 DHD350	14.3	31.5	BG00794561
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	BG00793243
13. Bit Retainer Ring with O-Ring	0.40	0.88	BG00014989
14. O-Ring Bit Retainer Ring			In Seal Kit
15. Driver Sub Hard Faced	5.5	12.1	BG00793240
Optional			
Choke Set, Blank, 3mm, 4.5mm and 6mm	0.01	0.02	BG00015430
Check Valve Dart with Choke Hole*	0.40	0.88	BG00014985
* Need to order choke set separatety			
Seal Kit			
1 Piece of 6, 11 & 14	0.01	0.02	BG00015014
Rebuild Kit			
1 piece of 1,9,15 & Seal Kit			
3 1/2" API Reg Pin	51.0	112	BG00917840
Bit shank			
DHD350			



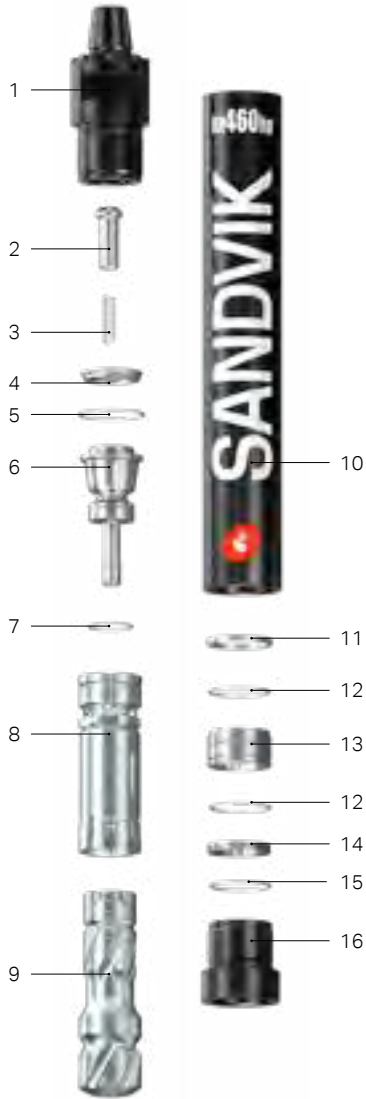
Complete Hammer									
3 1/2" API pin with hard faced driver sub					BG00840057				
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
100	220	142	5.59	1155	45.47	1263	49.72	1304	51.34
AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/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 hard faced	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
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									
3 1/2" API reg pin					32-4665-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
117	257	150	5.91	1155	45.47	1263	49.72	1304	51.34
AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/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 hard faced	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			



RH460 DHD

6"

Complete hammer									
3 1/2" API Reg Pin					32-4665-GDA-04C				

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
121	266	150	5.91	1,210	47.6	1,318	51.9	1,372	54

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M3/MIN, DIN 1343		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
307	625	883	8,7	17,7	25



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	BG00904397
4.	Check Valve Spring	0.05	0.11	BG00854872
5.	Make Up Ring	0.40	0.88	BG00014865
6.	Air Distributor with O-Ring	6.20	13.6	BG00054361
7.	O-Ring Air Distributor			In Seal Kit
8.	Inner Cylinder	6.40	14.1	BG00123002
9.	Piston DHD360	21.8	48.0	BG00731873
10.	Piston Case with Retainer Ring	48.9	108	BG00731824
11.	Piston Retainer Ring	0.10	0.22	BG00055711
12.	O-Ring Guide Sleeve			In Seal Kit
13.	Guide Sleeve with O-Ring	3.50	7.70	BG00731788
14.	Bit Retainer Ring with O-Ring	0.66	1.45	BG00731857
15.	O-Ring Bit Retainer Ring			In Seal Kit
16.	Driver Sub Hard Faced	8.10	17.8	BG00731848

Optional				
	Choke Set, Blank, 3mm, 4.5mm and 6mm	0.01	0.02	BG00081800
	Check Valve Dart with Choke Hole*	0.70	1.54	BG00014869

* Need to order choke set separatety

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	BG00918157

Bit shank				
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DHD360	
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RH460 DHD

8"

COMPLETE HAMMER									
4 1/2" API Reg Pin					32-4685-GDA-19C				

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
247	543	194	7.64	1,444	56.6	1,584	62.4	1,632	64.3

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M3/MIN, DIN 1343		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
365	852	1,290	10.3	24.1	36.5



REPLACEMENT PARTS	ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1.	Top Sub			
	4 1/2" API Reg Pin	57.0	125	BG00365764
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 DHD380	50.3	111	BG00713990
9.	Piston Case with Retainer Ring	94.2	207	BG00278268
10.	Piston Retainer Ring	0.20	0.44	BG00096748
11.	Guide Sleeve	1.30	2.86	BG00713842
12.	Bit Retainer Ring	1.65	3.63	BG00713977
13.	Driver Sub Hard Faced	21.8	48.0	BG00713911

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

* Need to order choke set separatety

Seal Kit				
	1 Piece of 6	0.01	0.02	BG00303706

Rebuild Kit				
	1 piece of 1, 9, 13 & Seal Kit			
	4 1/2" API Reg Pin	168	370	BG00919028

Bit shank				
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DHD380	
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RH460g

8"

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

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						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, M³/MIN, DIN 1343				POWER OUTPUT (kW)
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar
365	852	1,290	10.3	24.1	36.5	50

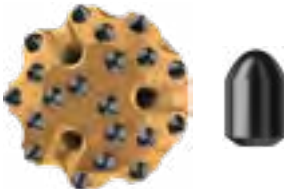
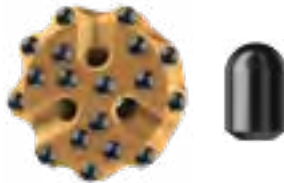
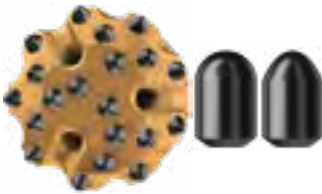


REPLACEMENT PARTS	ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top sub				
	4 1/2 BECO pin	57.0	125	BG00381892
	5 1/4" BECO pin	57.0	125	BG00394159
2. Check valve dart no choke				
		0.80	1.76	BG00321984
3. Check valve spring				
		0.04	0.09	BG00652827
4. Make up ring				
		0.40	0.88	BG00015380
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

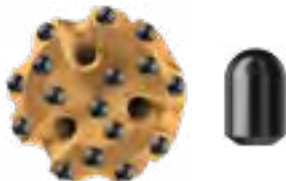
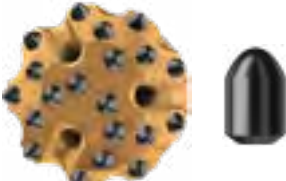
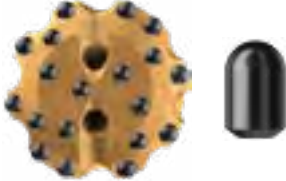
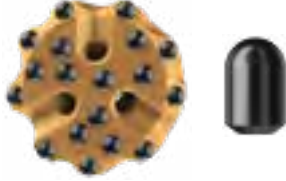
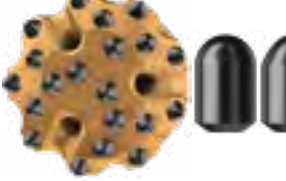


DTH BITS / M SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
M40									
Concave face / Spherical button									
	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
Flat face / Spherical button									
	115	4 1/2	2	8	14	14	9.0	19.8	42-48FB115-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 / Spherical / Ballistic buttons									
	127	5	2	8	14	14	9.6	21.2	42-485B127-L55
	127	5	2	8	14	14	9.6	21.2	42-485B127-L55K

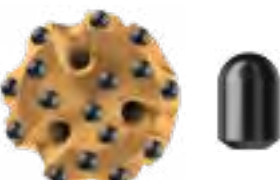
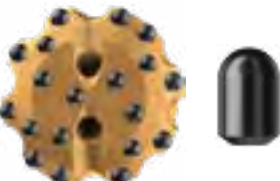
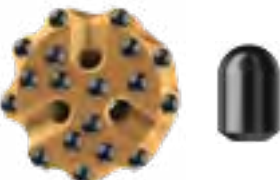
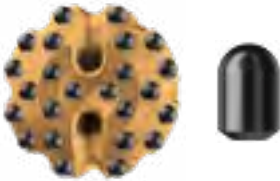
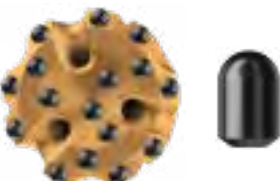
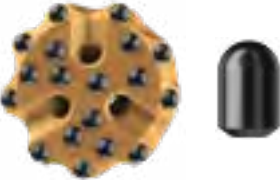
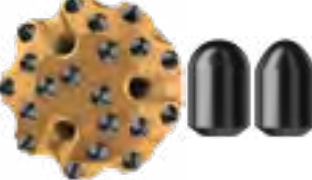
For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / M SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.	
	mm	inch			gauge	front	kg	lb		
M50										
Concave face / Spherical button										
		130	5 1/8	2	8	16	13	13.8	30.4	42-5818130-S48
		146	5 3/4	2	8	16	14	15.1	33.3	42-5819146-S65
		146	5 3/4	2	8	16	16	15.0	33.1	72-581C146-S48
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	15.4	34.0	42-58LE155-R55H
Convex face / Spherical button										
		140	5 1/2	3	9	18	18	15.0	33.1	42-58GE140-W55
		146	5 3/4	3	9	18	16	15.7	34.6	42-58LD146-W48
Flat face / Spherical button										
		140	5 1/2	3	9	16	14	15.0	33.1	42-5829140-S65
		146	5 3/4	3	9	16	14	15.3	33.7	42-5829146-S48
		152	6	3	9	18	16	15.7	34.6	42-582D152-S48H
Convex face / Spherical / Ballistic buttons										
	 	155	6 1/8	3	9	18	18	14.5	32.0	42-58LE155-L55K

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / M SHANKS

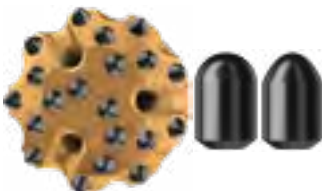
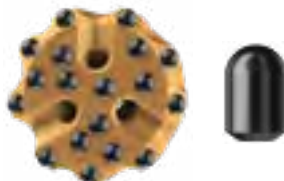
	Diameter		Air	Gauge	Button dia. mm		Weight		Part No.
	mm	inch	holes	buttons	gauge	front	kg	lb	
M60									
Concave face / Spherical button									
	152	6	2	8	18	18	20.3	44.7	42-681E152-S65
	159	6 1/4	2	8	18	18	20.5	45.2	42-681E159-S48
	159	6 1/4	2	8	18	18	20.5	45.2	42-681E159-S65
	165	6 1/2	3	9	20	18	22.2	48.9	42-68DP165-S48
	178	7	3	9	18	18	23.5	51.8	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
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
	165	6 1/2	3	9	22	22	22.3	49.2	42-68GM165-S48K
	172	6 3/4	2	10	18	16	23.0	50.7	42-686D172-SDDH
	172	6 3/4	3	9	22	18	22.0	48.5	42-68LL172-S48
Flat face / Spherical button									
	165	6 1/2	2	8	18	16	22.0	48.5	42-68FD165-S48K
	165	6 1/2	3	9	20	18	22.5	49.6	42-682P165-S48
	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	9	20	18	23.2	51.1	42-682P172-S48
Bulldog face / Spherical button									
	165	6 1/2	2	10	20	18/16	21.3	47.0	42-68EV165-S48
	165	6 1/2	2	12	18	16/16	21.3	47.0	42-68JV165-S69
	172	6 3/4	2	10	20	18/16	21.3	47.0	42-68EV172-S48
	172	6 3/4	2	10	20	18/16	21.3	47.0	42-68EV172-S48K
M80									
Concave face / Spherical button									
	203	8	3	9	22	18	44.1	97.2	42-88PL203-SDD
	219	8 5/8	3	9	18	18	46.1	101.6	42-88PE219-S48
	229	9	3	12	18	18	49.3	108.7	42-888E229-S65
	241	9 1/2	3	9	18	18	54.9	121.0	42-888E241-S48
	270	10 5/8	3	12	18	18	65.7	144.8	42-888E270-S48
Flat face / Spherical button									
	205	8	3	9	18	18	45.0	99.2	42-882E205-S65
Convex face / Spherical / Ballistic button									
	222	8 3/4	3	12	18	18	49.9	110.0	42-88CE222-L55

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / DHD SHANKS

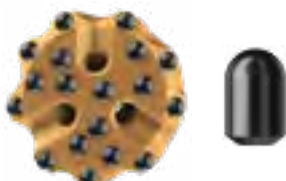
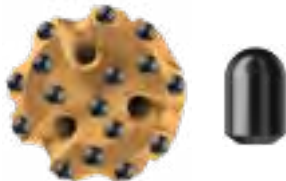


DTH BITS / DHD SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
DHD3.5 HD									
Convex face / Spherical / Ballistic button									
	105	4 1/8	2	8	14	14	6.6	14.6	42-3H5B105-L55
Foot valve									
							0.5	1.0	47-3H017
DHD340									
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	9.2	20.3	42-36FA115-S65
	130	5 1/8	2	8	16	13	10.8	23.8	42-36F8130-S48
Foot valve									
							0.5	1.0	47-36017

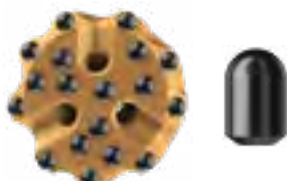
For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS /DHD350 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
DHD 350									
Flat face / Spherical button									
	140	5 1/2	3	9	16	14	16.7	36.8	42-6929140-S48
	146	5 3/4	2	8	16	14	17.3	38.0	42-69F9146-S48
Concave face / Spherical button									
	140	5 1/2	2	8	16	14	16.5	36.3	42-6919140-S48
	146	5 3/4	2	8	16	14	16.8	37.0	42-6919146-S48
	152	6	2	8	16	16	17.4	38.3	42-691C152-S48
	165	6 1/2	2	8	16	16	18.6	40.9	42-691C165-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS /DHD360 SHANKS

SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
DHD bits 6"									
Flat face / Spherical button									
	165	6 1/2	2	8	16	16	26.1	57.4	42-73FC165-S48
Concave face / Spherical button									
	172	6 3/4	2	8	16	16	25.7	56.5	42-731C172-S48
	178	7	2	8	16	16	26.3	57.9	42-731C178-S48
	190	7 1/2	2	8	16	16	30.3	66.7	42-731C190-S48
	203	8	2	10	16	16	32.8	72.2	42-73TC203-S48
	216	8 1/2	2	10	16	16	35.0	77.0	42-73TC216-S48
	219	8 5/8	2	10	16	16	35.5	78.1	42-73TC219-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / DHD380 SHANKS

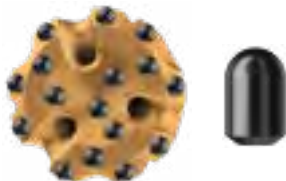
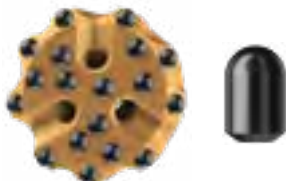
SANDVIK RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
DHD bits 8"									
Concave face / Spherical button									
	203	8	3	9	18	18	49,8	109.6	42-87PE203-S48
	216	8 1/2	3	9	18	18	52,9	116.4	42-87PE216-S48
	219	8 5/8	3	9	18	18	53,9	118.6	42-87PE219-S48
	241	9 1/2	3	12	18	18	60,8	133.8	42-878E241-S48
	254	10	3	12	18	18	63,3	139.3	42-878E254-S48
	270	10 5/8	3	12	18	18	71,5	157.3	42-878E270-S48

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / Q LX/QL SHANKS

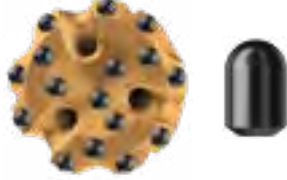
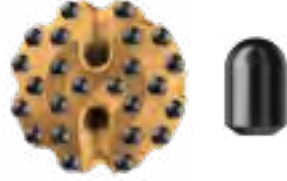
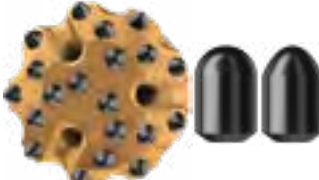
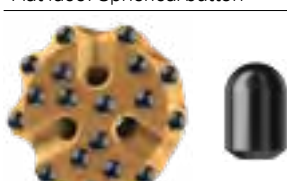


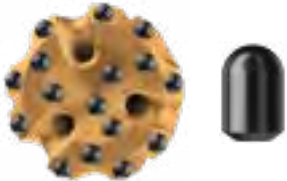
DTH BITS / QLX/QL SHANKS

	Diameter		Air	Gauge	Button dia. mm		Weight		Part No.
	mm	inch	holes	buttons	gauge	front	kg	lb	
QLX 40									
Concave face / Spherical button									
	130	5 1/8	2	8	16	13	11.0	24.3	42-4G18130-S48
Foot valve									
							0.5	1.0	47-4G017
QL 50									
Concave face / Spherical button									
	130	5 1/8	2	8	16	13	15.6	34.4	42-5018130-S48
	133	5 1/4	2	8	16	13	15.8	34.8	42-5018133-S48
	152	6	2	8	18	16	17.2	37.9	42-501D152-S65
Convex face / Spherical button									
	140	5 1/2	3	9	18	18	16.7	36.8	42-50GE140-W55
Flat face / Spherical button									
	152	6	3	9	18	16	17.2	37.9	42-502D152-S48
Foot valve									
							0.5	1.2	47-50017

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

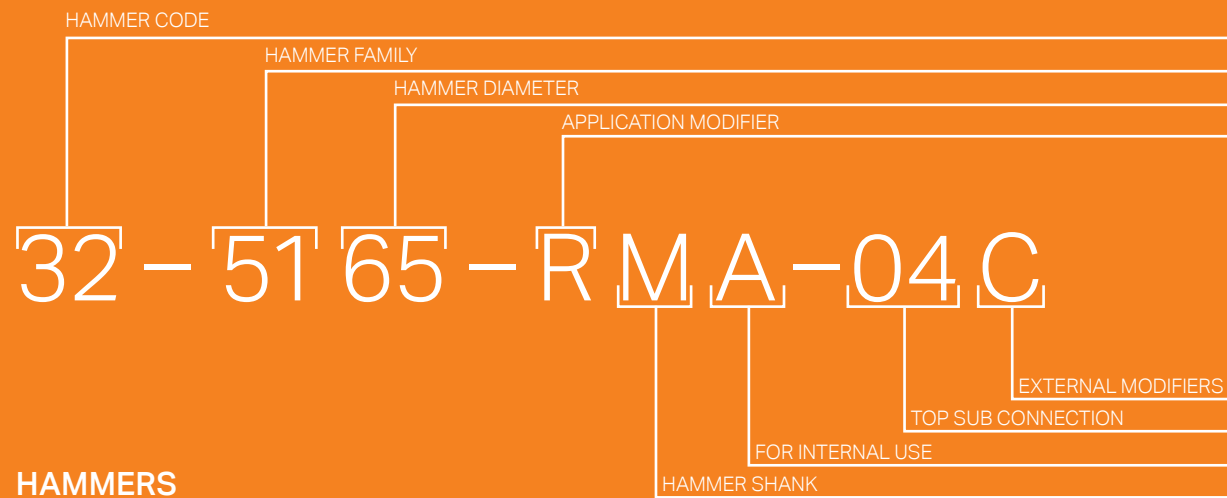
DTH BITS / QLX/QL SHANKS

	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
QL60									
Concave face / Spherical button									
	155	6 1/8	2	8	18	18	22.8	50.3	42-761E155-S65
	159	6 1/4	2	8	18	18	23.0	50.7	42-761E159-S65
	165	6 1/2	3	9	16	16	24-3	53.6	42-76DC165-S65
	172	6 3/4	3	9	18	18	25.3	55.8	42-76DE172-S65
	190	7 1/2	3	9	18	18	29.6	65.3	42-76DE190-S48
Bulldog face / Spherical button									
	165	6 1/2	2	12	18	18/16	23.7	52.2	42-76BV165-S48
Convex face / Spherical / Ballistic button									
	172	6 3/4	3	12	18	18	25.4	56.0	42-76GE172-L48H
Convex face / Spherical button									
	165	6 1/2	3	9	22	22	23.0	50.7	42-76GM165-S48
	165	6 1/2	3	9	22	18	23.6	52.0	42-76LL165-S48
	172	6 3/4	3	9	22	22	23.9	52.7	42-76GM172-S48
	172	6 3/4	3	9	18	18	25.2	55.6	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									
	172	6 3/4	3	9	18	18	25.2	55.6	42-762E172-S48H
	172	6 3/4	3	9	18	18	25.2	55.6	42-762E172-S48H
	178	7	3	9	18	18	25.9	57.1	42-762E178-S48
Foot valve									
							0.5	1.2	47-76017

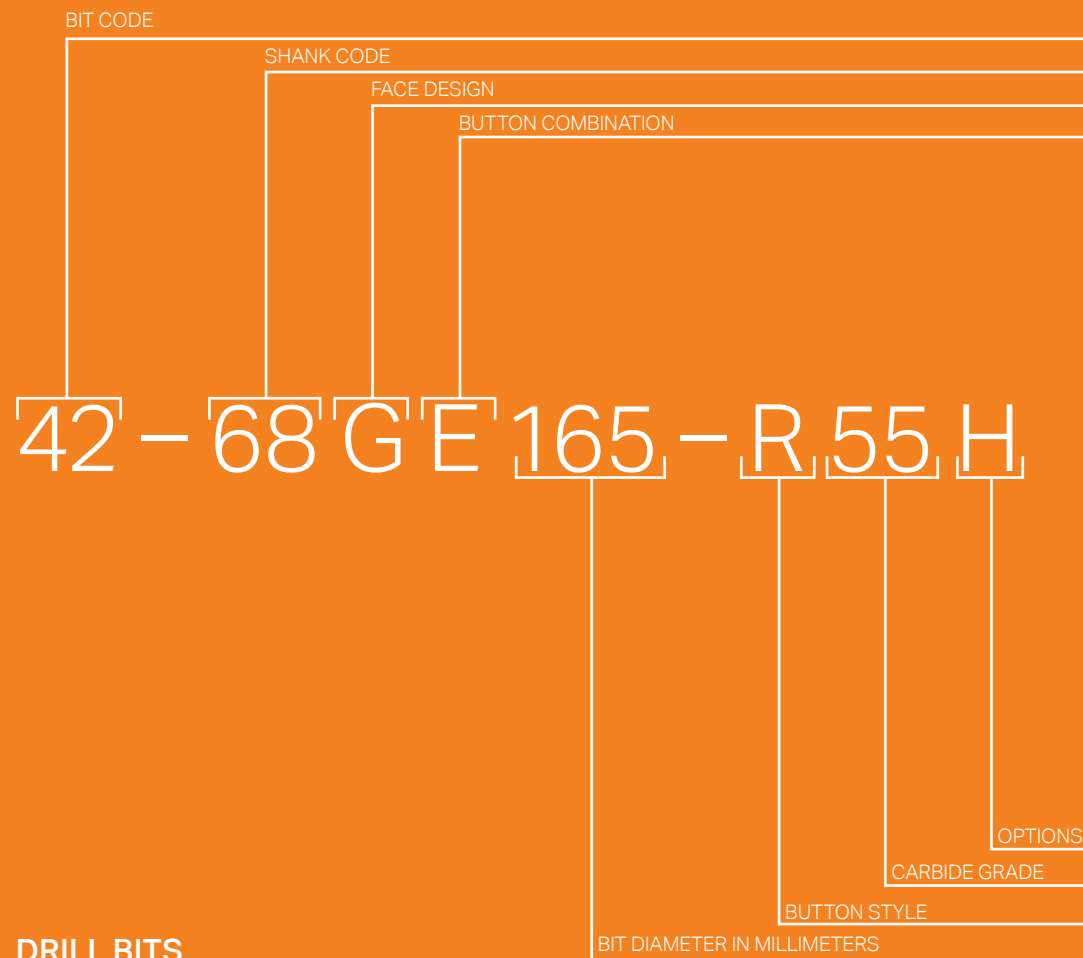
QL80									
Concave face / Spherical button									
	270	10 5/8	3	12	18	18	71.3	159.4	42-838E270-S48
Foot valve									
							0.5	1.2	47-83017

For all the bit pages,a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

PART NO. KEYS



HAMMERS



DRILL BITS

HAMMER CODE					
		HAMMER DIAMETER		HAMMER FAMILY	
APPLICATION MODIFIER		30 = 3"	70 = 7" HD	51 = RH510	
R Reversible		35 = 3.5"	80 = 8"	46 = RH460	
G HD (Large OD)		40 = 4"	85 = 8" HD	56 = RH560	
W Deep hole		50 = 5"	10 = 10"		
H Horizontal		55 = 5" HD	12 = 12"		
S Standard		60 = 6"	15 = 15"		
E expanded pressure range		65 = 6" HD	18 = 18"		
				EXTERNAL MODIFIERS	
				S Standard	
				C Retract carbides in top sub	
FOR INTERNAL USE		TOP SUB CONNECTION			
HAMMER SHANK		04 = 3 ½ API REG PIN			
M Mission		11 = 2 ⅞ API REG PIN			
Q QL		16 = 2 ¾ API REG PIN			
D DHD		19 = 4 ½ API REG PIN			
T QLX		39 = 6 ⅝ API REG PIN			
		25 = 3 ½ API REG BOX			
		74 = 3 ½ API IF PIN			
		55 = 3 ½ BECO PIN			
		72 = 4 ½ BECO PIN			
		77 = #24 CUBEX PIN			
		63 = #21 CUBEX PIN			
		56 = #28 CUBEX PIN			
		84 = 5 1/4" BECO PIN			
				BIT CODE	
BUTTON COMBINATION		FACE DESIGN		SHANK CODE	
0 = 11 / 11 B = 14 / 14		Face code	Flushing holes	Gauge buttons	3A = M30 4G = QLX40
1 = 12 / 12 C = 16 / 16		Concave face			48 = M40 50 = QL50
3 = 13 / 12 D = 18 / 16		1	2	8	58 = M50 76 = QL60
4 = 13 / 13 E = 18 / 18		D	3	9	68 = M60 83 = QL80
8 = 16 / 13 L = 22 / 18		T	2	10	88 = M80 3R = SS3.5
9 = 16 / 14 M = 22 / 22		8	3	12	3H = DHD3.5HD 4H = QLX560-4
A = 14 / 13 P = 20 / 18		P, J	3	varies	36 = DHD340 5H = QL560-5
		Flat face			69 = DHD350 63 = QL560-6
		A	2	10	73 = DHD360
		F	2	8	87 = DHD380
		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	
				OPTIONS	
BUTTON STYLE		CARBIDE GRADE		H = Extra hard body	
Shape		Std	With wear protection	F = Rope fishing thread	
Spherical		S	W	K = Wear resistant	
Ballistic		R	U		
Spherical gauge					
Ballistical face		L	T		
BIT DIAMETER IN MM		48 = XT48			
		55 = DP55			
		65 = DP65			
		D2 = Diamond			
		69 = SH69			

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for writing. The background is a clean, solid white color. There are no margins, text, or other markings present on the sheet.

[illegible]

