



DOWN THE HOLE ROCK DRILLING TOOLS

2023 / DIGITAL



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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.

SANDVIK ROCK TOOLS: A SUSTAINABLE CHOICE

Sandvik Rock Tools is committed to contributing to a sustainable world. This commitment is in line with our Sandvik Group sustainability agenda, and we are determined to take action to make the mining industry as sustainable as possible and secure the necessary minerals we needed to make the shift towards a sustainable future.

With three clearly defined focus areas for our sustainability work, we embark on this important journey: We Lead the Way, We Build Circularity and We Shift Climate.



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.

SUSTAINABILITY MISSION STATEMENT

Sandvik Rock Tools has developed a Sustainability Mission Statement. This states that "we should be a forerunner in making the shift to sustainable business in our industry by being an innovative business partner, who delivers sustainable values (people, planet, profit) for all stakeholders in our industry".

The Sustainability Mission Statement also clarifies how we drive the sustainability progress within our division through the following four areas:

WE ARE A PART OF THE SOLUTION

We commit to climate action to reach or exceed targets agreed in the Paris Agreement. We will reach carbon neutrality in our entire value chain by 2045.

WE TAKE RESPONSIBILITY FOR OUR BUSINESS IMPACTS

We drive continuous improvement of sustainable mining and construction practices. Our offerings will not only be of the highest quality and effectiveness but also the most resource-efficient and circular.

WE OPTIMIZE OUR OPERATIONS

Our operations, logistics and supplier base will be climate neutral, resource-lean and, as a result, nearly zero waste. We aim for zero harm to people.

WE ARE SUSTAINABLE PEOPLE

We shall be a true learning organization with the highest level of knowledge and awareness within sustainability. Sustainability is always part of what we do.

Learn more about our sustainability work and read our full sustainability report online.



EXPERIENCE THE CALMNESS OF RECYCLING

Few dispute the fact that we need to change the way we operate to further reduce our impact on the planet. We know that small streams make great rivers – and when working together, we make an impact. With our Rock Tools Recycling Program, we support a secure source of scarce minerals, lower the environmental impact and reduce waste.

RECYCLING INCLUDED

Doing the right thing should be easy. That is why our carbide recycling program is now included with all our carbide rock tools. It is completely free – you even get paid for the collected minerals.

Experience the calming effects of recycling, while you know that your worn-out rock tools will be taken care of.



FOR THE FUTURE

Carbide rock tools contain tungsten – a scarce and finite mineral expected to run out in 40 to 100 years. With our Recycling Program, we build circularity. It guarantees the production of premium tools that you can use again, and again, and again – today and in the future.

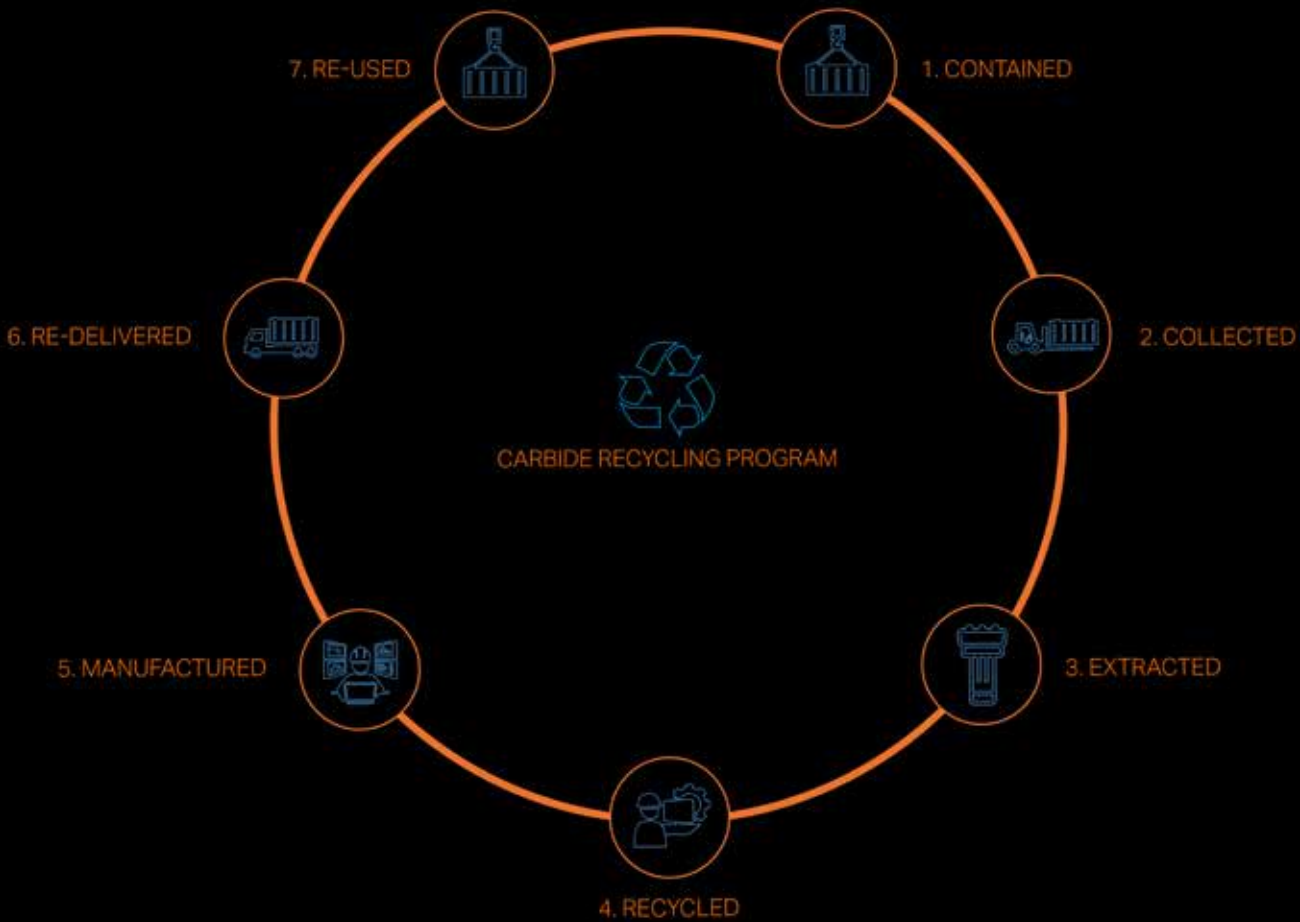


ROCK TOOLS CARBIDE RECYCLING

HOW DOES IT WORK?

We provide containers for your site in which you place your worn-out carbide tools. The worn-out tools are regularly collected, and the carbide inserts are removed locally by using our unique local extraction method. The inserts are then transported to our ISO certified factory, where the cemented carbide is recycled and brought back into production of new carbide rock tools.*

This is one important action of making sure that raw materials are used in an efficient and sustainable way, and that our products are recycled when they reach end-of-life.



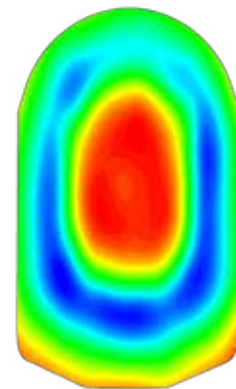
*Please contact your local Sandvik representative for specific terms and conditions for your local market.

POWERCARBIDE®

PowerCarbide® is the gathering of our most powerful carbide grades, representing the very best materials technology we have to offer. The innovative PowerCarbide® grades enable the buttons to retain their shape as long as possible. This ensures longer grinding intervals, fewer bit changes and improved safety.

DUAL PROPERTY GRADES

DP55 has wear resistance similar to our standard grades but offers greater toughness. It is especially suited to large ballistic inserts, accommodating the higher loads the insert may be exposed to due to a longer protrusion. DP65 has similar toughness to our standard grades, but a considerably higher wear resistance. This grade works best when drilling in very abrasive rock with large spherical inserts.

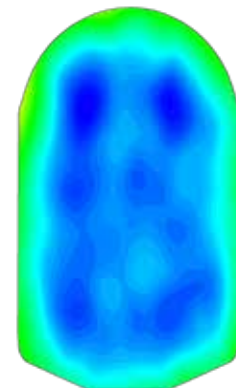


DP55 Grade

SELF-HARDENING GRADES

SH69 is a grade with homogeneous properties throughout the material. It is "self-hardening" as it has the ability to become both more wear resistant and tougher as drilling progresses.

The hardness of the insert surface continuously increases during drilling, which means that the hard top never wears off. The self-hardening effect is greatest in hard and competent ground.



SH69 Grade

XT GRADES

XT48 is our standard cemented carbide grade for most drilling conditions. It 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.



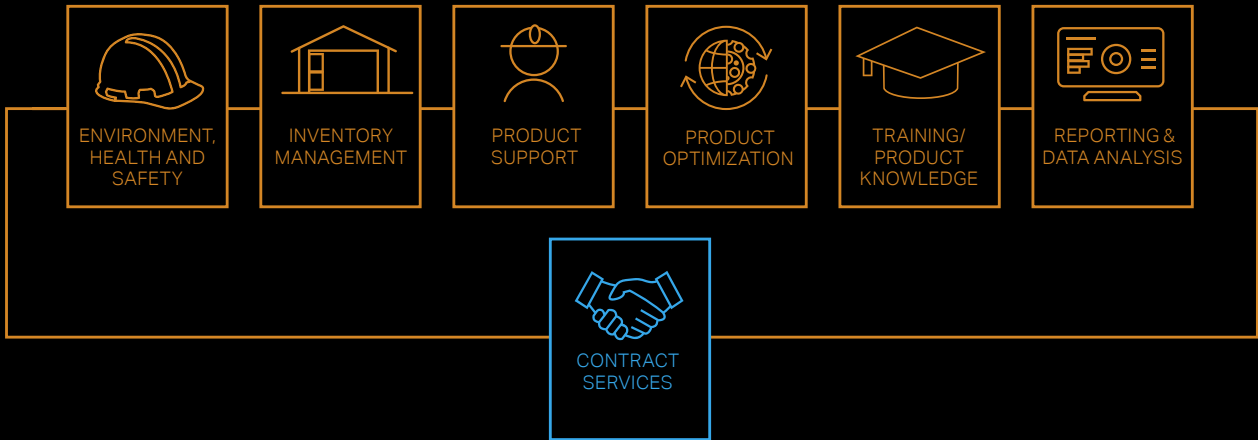
XT48 Grade





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.



ONLY THE BEST IS GOOD ENOUGH

For efficient Down-The-Hole (DTH) drilling, you need high performing drilling tools. Tools that increase your productivity and sustainability, while reducing your total operation cost and emissions. Within Sandvik, we offer one the widest range of DTH hammers and bits on the market – because we want you to have best possible outcome of your DTH drilling.

Choosing the right DTH tools for your specific needs and conditions can be a challenge, but we are here to support you every step of the way. In our extensive DTH range, you find a suitable solution for all ground conditions, and with our knowledge and experience, we guide you through to optimal accuracy and penetration.


CONTACT US

Find your closest sales office to discover more about what we can do for you!



OUR DOWN-THE-HOLE HAMMER RANGE OVERVIEW

RH560

-  SPEED
-  AIR EFFICIENCY
-  SUSTAINABILITY



The 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.

RH510

-  SPEED
-  AIR EFFICIENCY
-  SUSTAINABILITY



The RH510 DTH hammer is engineered for high penetration rates and maximum productivity.

RH460

-  SPEED
-  AIR EFFICIENCY
-  SUSTAINABILITY



The RH460 DTH hammer has been developed with a focus on reliability and economy. It gives higher impact energy, giving high productivity in variable ground conditions.



DRILL FASTER AND REDUCE YOUR COSTS

HIGHER PRODUCTIVITY, REDUCED DOWNTIME

The 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	18
4" RH560 HAMMERS	19
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6" RH560 HAMMERS	22
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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			POWER OUTPUT (KW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
159	293	392	4.5	8.3	11.1	20.9	



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	0.3	0.7	BG00904454
3. Check Valve Spring	0.02	0.04	BG00876172
4. Make Up Ring	0.1	0.2	BG00014763
5. Air Distributor with O-Ring	1.9	4.2	BG00100316
6. O-Ring Air Distributor			In seal kit
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			BG00014773
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			In seal kit
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			
560-3.5			

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			POWER OUTPUT (KW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
237	441	597	6.7	12.5	16.9	29.1	



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top Sub			
2 3/8" API Reg Pin	9.4	20.7	BG00378463
#24 Cubex Pin	9.0	19.8	BG00906532
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	BG00377566
8. O-Ring Air Distributor			In seal kit
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			In seal kit
13. Guide Sleeve with O-Ring	1.3	2.9	BG00334637
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
#24 Cubex Pin	32.0	70.4	BG00933225
Bit shank			
560-4			

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			POWER OUTPUT (KW)	
150 psi	250 psi	350 psi	24 bar	30 bar	35 bar	35 bar	
237	441	597	17.9	23.0	27.1	45.3	



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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560-4			
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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			POWER OUTPUT (KW)	
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar	
250	526	755	7.1	14.9	21.4	31.7	



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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560-5			
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RH560g

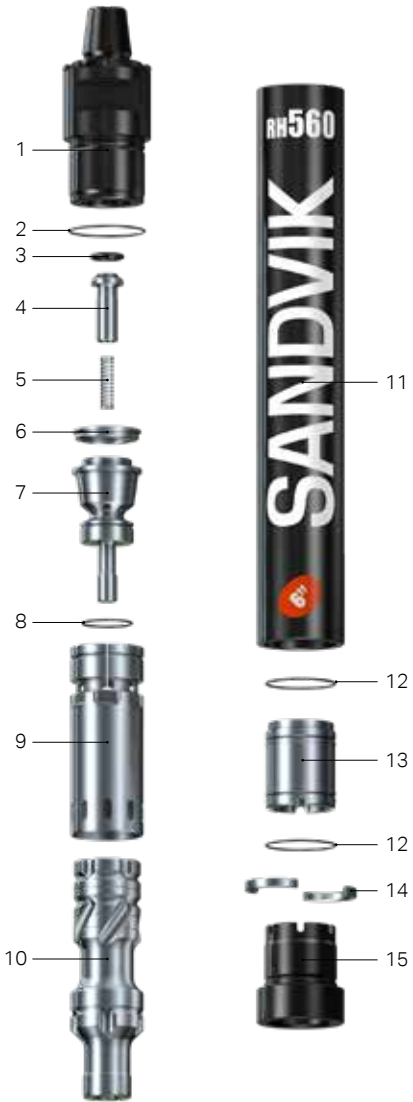
6"

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			POWER OUTPUT (KW)
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar	24 bar
310	629	847	8.8	17.8	24	34.5



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	BG01054565
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	
560-6	

RH560

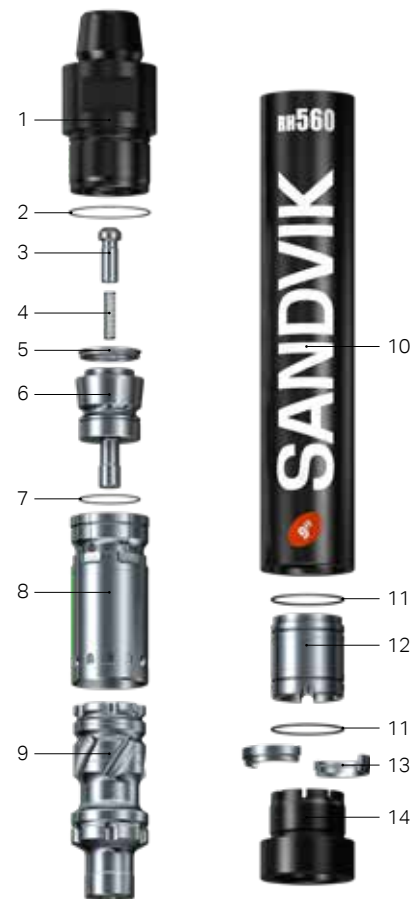
9"

COMPLETE HAMMER

5 1/4" BECO Pin				32-5690-SRA-84S			
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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
276	609	210	8.3	1,366	53.8	1,506	59.3	1,548	60.9

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
622	925	1,148	17.6	26.2	32.5	54.8



REPLACEMENT PARTS	ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1.	Top Sub			
	5 1/4" BECO Pin	68.0	150	BG00735274
2.	O-ring Top Sub			In seal kit
3.	Check Valve Dart	0.7	1.50	BG00321984
4.	Check Valve Spring	0.03	0.07	BG00652827
5.	Make Up Ring	0.5	1.10	BG00440285
6.	Air Distributor with O-Ring	18.0	39.7	BG00440270
7.	O-Ring Air Distributor			In Seal Kit
8.	Inner Cylinder	12.0	26.5	BG00440231
9.	Piston	55.0	121.3	BG00434983
10.	Piston Case	82.5	182.0	BG00872359
11.	O-Ring Guide Sleeve			In Seal Kit
12.	Guide Sleeve with O-Ring	12.7	28.0	BG00782271
13.	Bit Retainer Ring	1.8	4.0	BG00854834
14.	Driver Sub	20.2	44.5	BG01478916

Seal Kit	
1 Piece of 2, 7 & 2 of 11	0.01 0.02 BG00875031

Rebuild Kit	
1 piece of 1, 10, 14 & Seal Kit	
5 1/4" BECO Pin	174 384 BG01152012

Bit shank	
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560-9	
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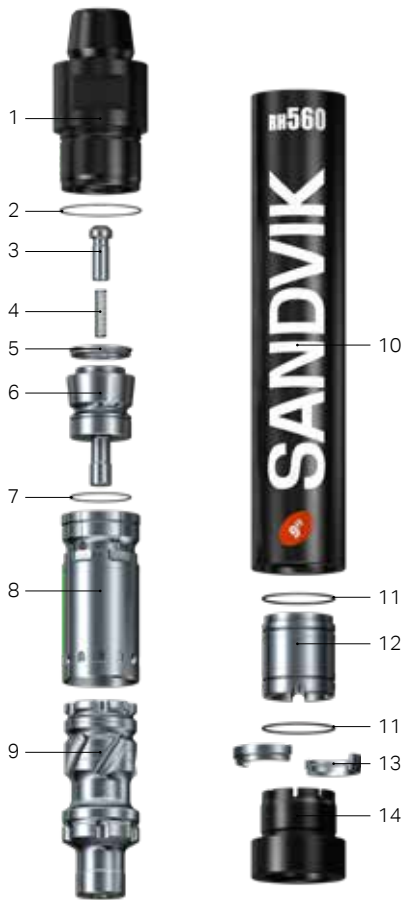
RH560g

9"

COMPLETE HAMMER									
5 1/4" BECO Pin					32-5695-GRA-84S				

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
310.6	683.4	220	8.7	1,366	53.8	1,506	59.3	1,548	60.9

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
622	925	1,148	17.6	26.2	32.5	54.8



REPLACEMENT PARTS	ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1.	Top Sub			
	5 1/4" BECO Pin	74.1	163.1	BG01792066
2.	O-ring Top Sub			In seal kit
3.	Check Valve Dart	0.7	1.5	BG00321984
4.	Check Valve Spring	0.03	0.07	BG00652827
5.	Make Up Ring	0.5	1.1	BG00440285
6.	Air Distributor with O-Ring	18.0	39.7	BG00440270
7.	O-Ring Air Distributor			In Seal Kit
8.	Inner Cylinder	12.0	26.5	BG00440231
9.	Piston	55.0	121.3	BG00434983
10.	Piston Case	112.3	246.9	BG00868579
11.	O-Ring Guide Sleeve			In Seal Kit
12.	Guide Sleeve with O-Ring	12.7	28.0	BG00782271
13.	Bit Retainer Ring	1.8	4.0	BG00854834
14.	Driver Sub	21.0	46.3	BG01151957
Seal Kit				
	1 Piece of 2, 7 & 2 of 11	0.01	0.02	BG00875031
Rebuild Kit				
	1 piece of 1, 10, 14 & Seal Kit			
	5 1/4" BECO Pin	174	384	BG01152012
Bit shank				
	560-9			





RH510 DELIVERS ADDED VALUE TO MOST DRILLING APPLICATIONS

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.

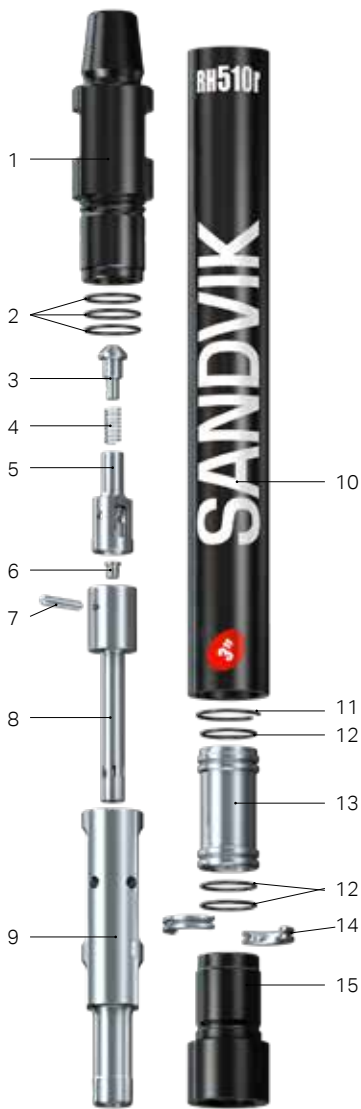
- Key features:
- Foot valve less bit shank
 - High performance
 - Simple design
 - Easy to service
 - Mirror impact concept

3" RH510 HAMMERS	28
4" RH510 HAMMERS	29
5" RH510 HAMMERS	30
6" RH510 HAMMERS	33
8" RH510 HAMMERS	37

Complete Hammer

2 3/8" API reg. pin top sub 32-5130-RMA-16S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
25	55	81.3	3.2	823	32.4	875	34.4	911	35.9
AIR CONSUMPTION, CFM					AIR CONSUMPTION, M³/MIN				
150 psi		250 psi		350 psi		10 bar		18 bar	
172		304		436		4.9		8.6	
								24 bar	
								12.3	



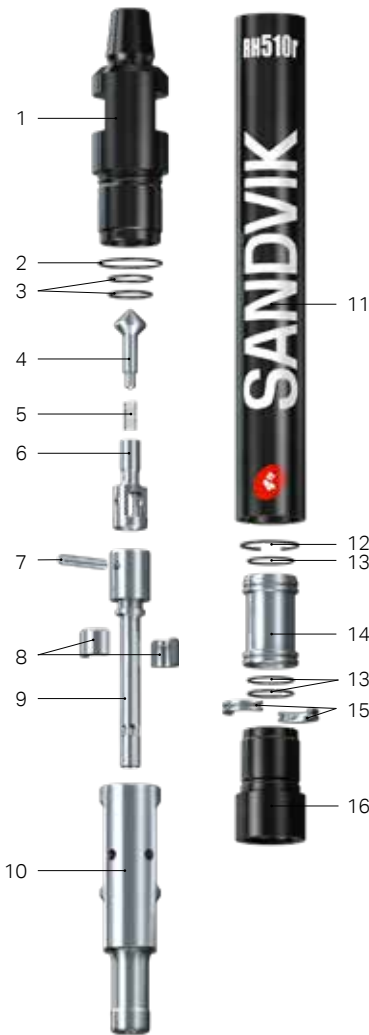
REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs			
2 3/8" API reg. pin	5	11	33-3A001/16A
2. O-ring top sub (3) ID and OD			In seal kit
3. Check valve dart with spring	0.3	0.7	25-99006A
4. Check valve dart spring	0.02	0.01	22-99071
5. Check valve guide	0.23	0.5	39-3A001
6. 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

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	1,029	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	
								24 bar	
								15.9	
								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. 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
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
Bit shank			
M40			



RH510

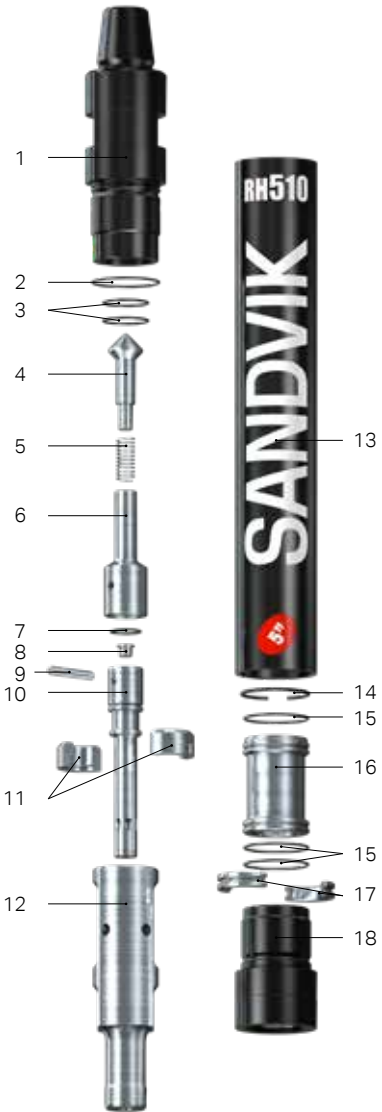
5"

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	4.7	987	38.9	1,082	42.6	1,122	44.2

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
305	580	855	8.6	16.4	24.2
Low volume option		285	540	790	8.115.322.4



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

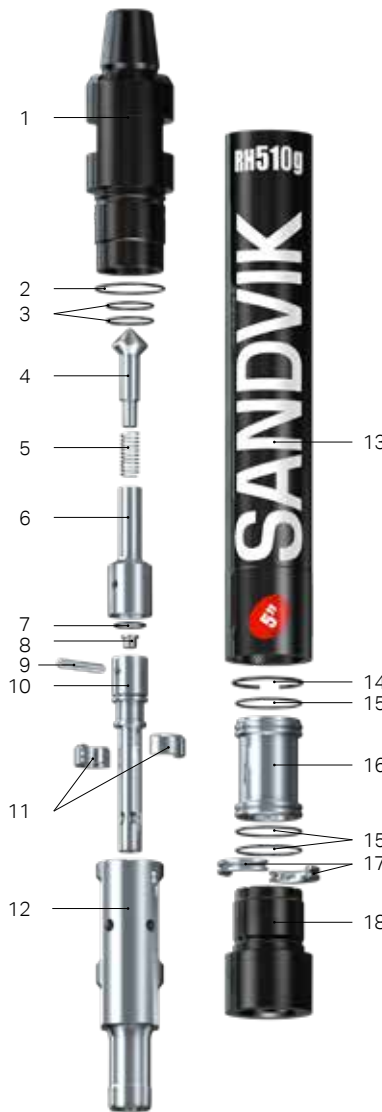
5"

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	5	987	38.9	1,082	42.6	1,122	44.2

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
305	580	855	8.6	16.4	24.2
Low volume option		285	540	790	8.115.322.4



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

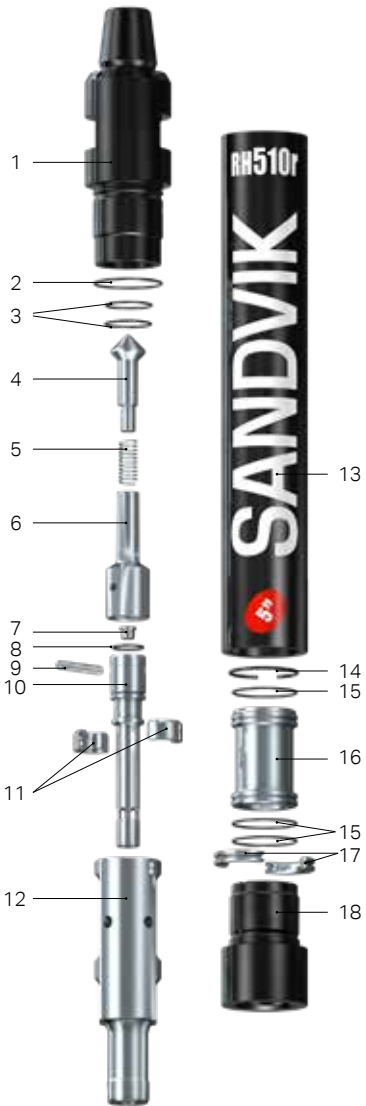
Bit shank			
M50			

Complete Hammer

3 1/2" API reg. pin top sub 32-5155-RMA-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	5	987	38.9	1,082	42.6	1,122	44.2

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
305	580	855	8.6	16.4	24.2
Low volume option		285	540	790	8.1 15.3 22.4



REPLACEMENT PARTS ITEM DESCRIPTION	Weight, kg	Weight, lb	Part No.
1. Top subs with 3 O-rings			
3 1/2" API reg. pin	18	39.6	33-58S02/04CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart (with spring)	0.3	0.66	25-99002A
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.66	39-58S01
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.26	29-68017A
8. O-ring feed tube (1)			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Feed tube with retainer pin and blank choke	1	2.2	37-58001A
11. Tuning ring for low volume (optional)	0.03	0.07	56-58552
12. Piston	12	26.4	BG00387748
13. Piston case with retainer ring	29	63.8	BG00409895
14. Piston retainer ring	0.05	0.11	23-99032
15. O-rings guide sleeve & bit ret.			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			
3 1/2" API reg. pin	54	118.8	BG00475756

Bit shank

M50

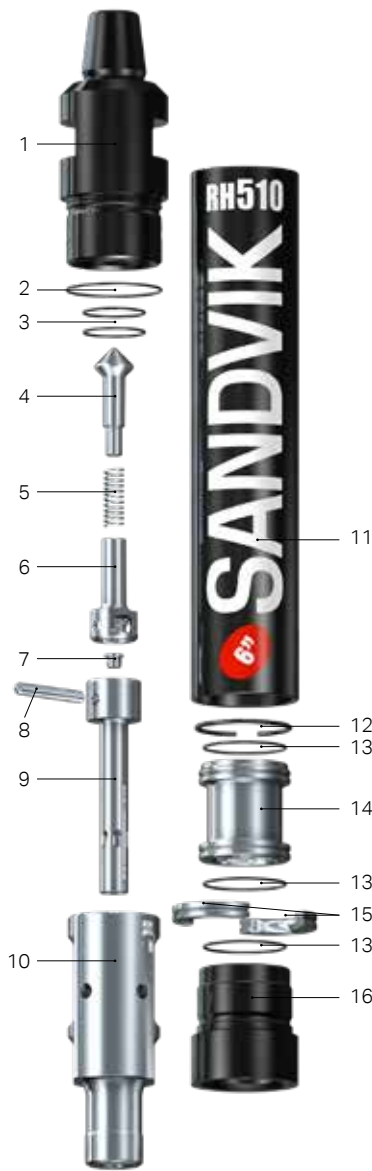


Complete Hammer

3 1/2" API reg. pin top sub 32-5160-SMA-04S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
72	158	142	5.6	922	36.3	1,008	39.7	1,046	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	20	44	33-68D08/04A
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart with spring	0.3	0.66	22-99072
5. Check valve dart spring	0.02	0.044	BG00348123
6. Check valve guide	0.3	0.66	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.12	0.264	29-68017A
8. Feed tube retainer pin	0.2	0.44	12-99013
9. Feed tube with retainer pin and blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case with retainer ring	33	72.6	BG00214914
12. Piston retainer ring	0.1	0.22	23-99028
13. O-rings – guide sleeve, bit retainer			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

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

Bit shank

M60



RH510w

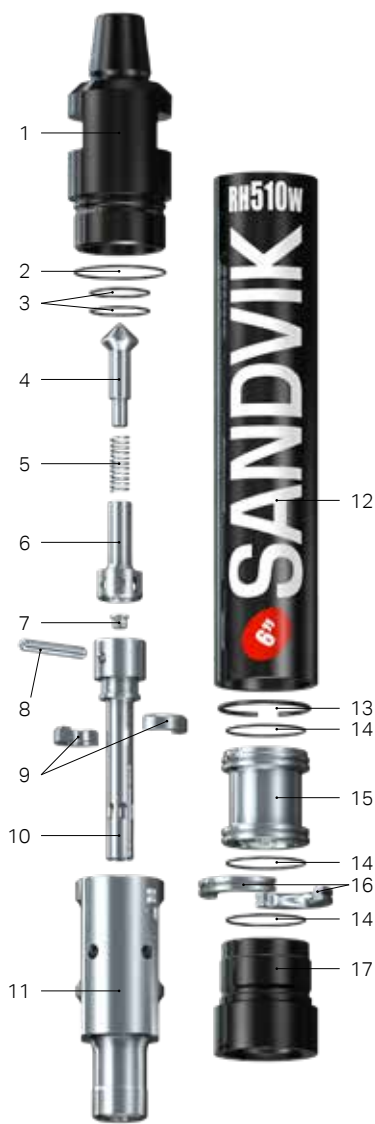
6"

Complete Hammer

3 1/2" API reg. pin 32-5160-WMA-04S

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
72	158	142	5.6	922	36.3	1,008	39.7	1,046	41.2

AIR CONSUMPTION, CFM			AIR CONSUMPTION, M³/MIN		
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
395	759	1,120	11.2	21.5	31.7
Low volume option			345	680	1,000
			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

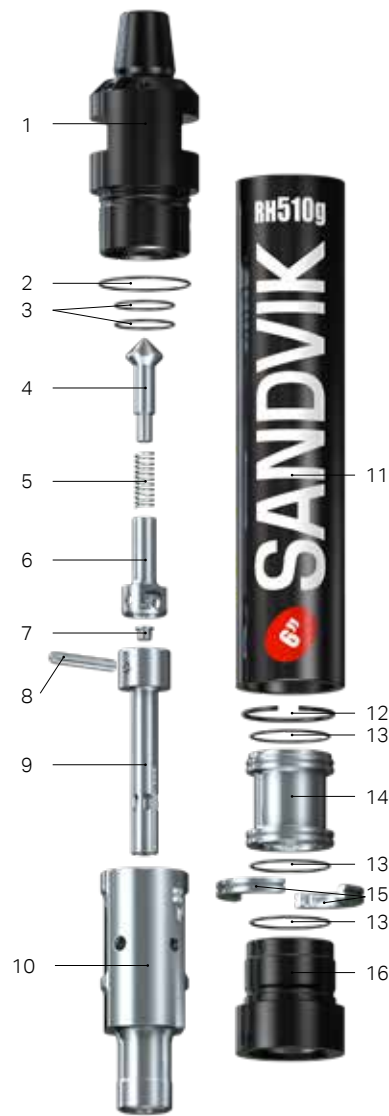
6"

Complete Hammer

3 1/2" API reg. pin top sub 32-5165-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	1,008	39.7	1,046	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

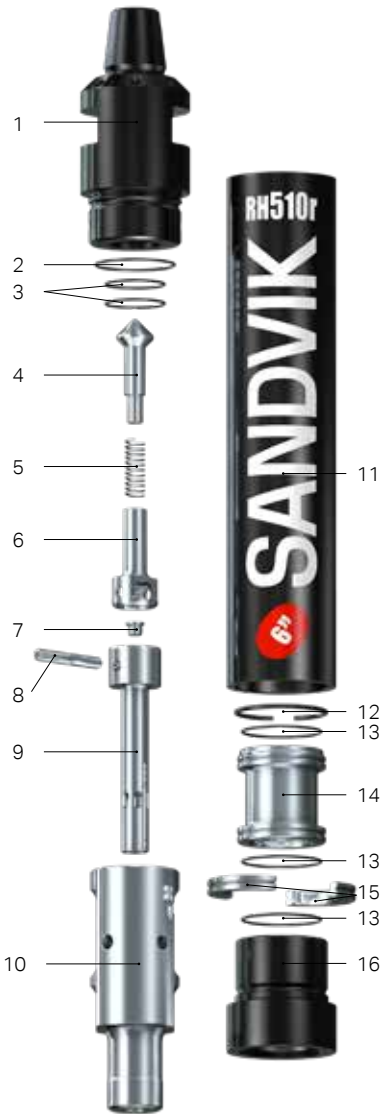
Rebuild kit			
1 piece of 1, 1 of 11, 1 of 16 & seal kit			
3 1/2" API reg. pin	62	136.4	BG00474803

Bit shank			
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M60

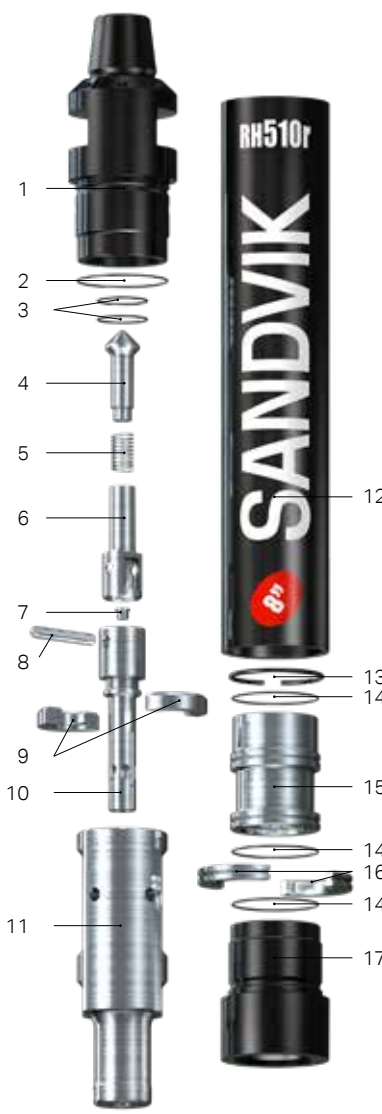


Complete Hammer										
3 1/2" API reg. pin top sub							32-5165-RMA-04C			
#28 Cubex. pin top sub							32-5165-RMA-56C			
WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT				
						Bit closed		Bit extended		
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch	
82	180	150	5.9	922	36.3	1,008	39.7	1,046	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	33-68602/04CA
#28 Cubex. pin	22	48.4	33-68602/56CA
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 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
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
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	1,219	48	1310	51.6	1,354	53.3
AIR CONSUMPTION, CFM						AIR CONSUMPTION, M³/MIN			
		150 psi	250 psi	350 psi		10 bar	18 bar	24 bar	
		460	850	1,240		13	23.8	35.1	
Low volume option		300	560	830		8.1	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			

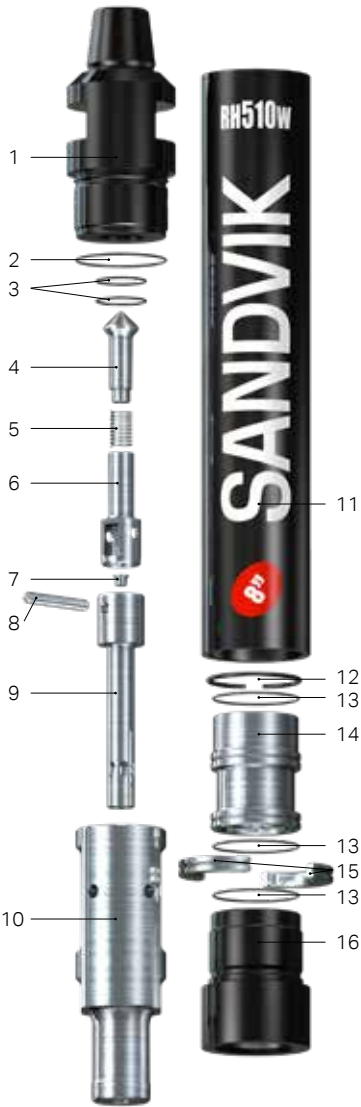
RH510w

8"

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

WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
173	380	181	7.1	1,270	50	1361	53.6	1,405	55.3


AIR CONSUMPTION, CFM				AIR CONSUMPTION, M³/MIN		
150 psi	250 psi	350 psi		10 bar	18 bar	24 bar
525	975	1,540		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.

The design has been optimized to deliver high performance with maximum efficiency. The RH460 hammers are designed to operate at 24 bar (350 psi) and have the capability to drill in all directions.

- Key features:
- Industry standard shank
 - High reliability
 - Optimized air cycle

4" RH460 HAMMERS	42
5" RH460 HAMMERS	43
6" RH460 HAMMERS	45
8" RH460 HAMMERS	47

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	3.8	985	38.8	1,075	42.2	1,109	43.7
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	4.7	1,067	42	1,156	45.5	1,185	46.7
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	5	1,067	42	1,156	45.5	1,185	46.7

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

QL50



RH460

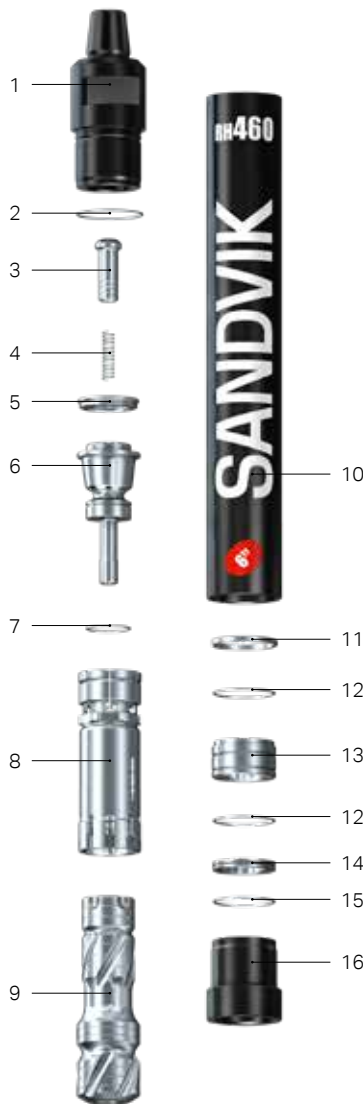
6"

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	5.6	1,155	45.5	1,263	49.7	1,304	51.3

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

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	5.9	1,155	45.5	1,263	49.7	1,304	51.3

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
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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
213	469	183	7.20	1,426	56.1	1,566	61.7	1,608	63.3

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	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	

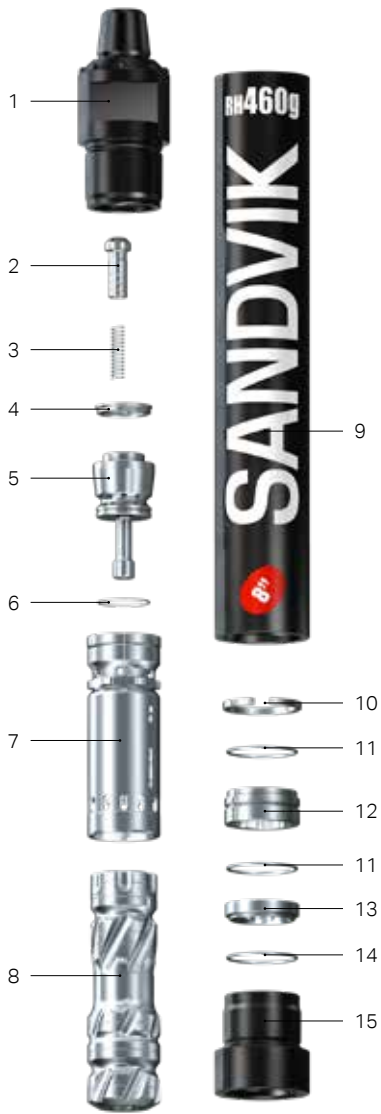
RH460g

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	7.6	1,426	56.1	1,566	61.7	1,608	63.3

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	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	BG00278268
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

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

Bit shank				
QL80				
				



INVEST IN LONG-TERM DRILLING CAPACITY

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

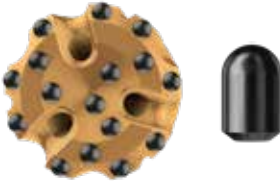
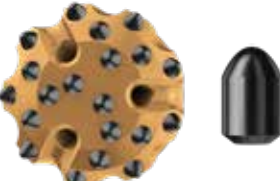

Drill bit bodies make use of precision hardened steel and compound curve body designs to maximize cutting efficiency and cuttings removal. Each bit is uniquely designed to maximize penetration and increase flushing. The Sandvik DTH button bit designs are well known and extensively used around the world.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

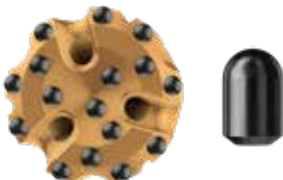
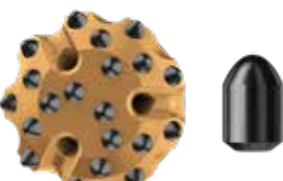
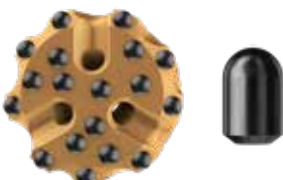
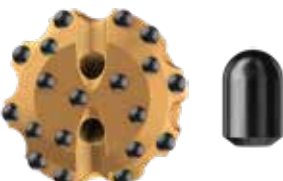
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DTH BITS / M40	58
DTH BITS / M50	59
DTH BITS / M60	60
DTH BITS / M80	60
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DTH BITS / 560-3.5 SHANKS

SANDVIK RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
560-3.5 bits									
Concave face / Spherical button									
	105	4 1/8	2	8	13	12	7.0	15.4	42-3R13105-S48
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
Flat face / Spherical button									
	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

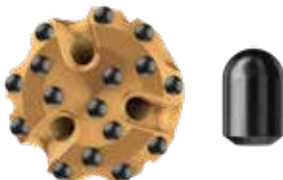
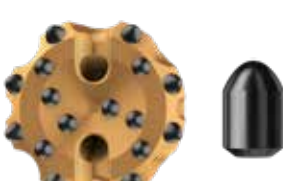
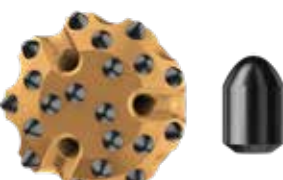
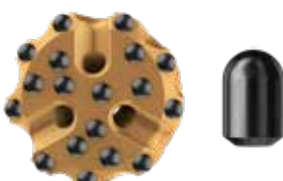
For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

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-S48K
	115	4 1/2	2	8	14	13	9.8	21.6	42-4H1A115-S69
	127	5	2	8	14	13	10.4	22.9	42-4H1A127-S48
Convex face / Ballistic button									
	115	4 1/2	2	8	14	13	9.5	20.9	42-4H5A115-R48
Flat face / Spherical button									
	115	FF	2	8	16	13	9.7	19,1	42-4HW8115-S48K
	115	FF	2	8	16	13	9.7	19,1	72-4HW8115-S69K
	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

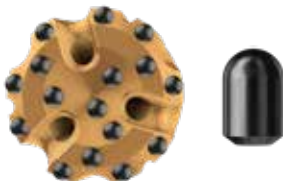
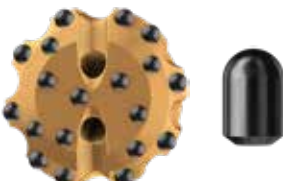
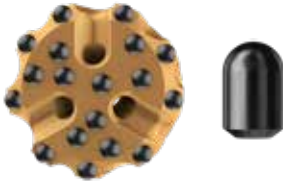
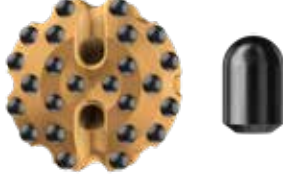
For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

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-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	16	16	24.5	54.0	42-63DC165-S69K
	165	6 1/2	3	9	18	18	24.1	53.0	42-63DE165-S65
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
Bulldog / Spherical button									
	165	6 1/2	2	10	18	16	25.2	55.4	42-63ED165-S69K
	165	6 1/2	2	10	18	16	25.2	55.4	42-63ED165-S69

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 / 560-9 SHANKS

SANDVIK RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
560-9 bits									
Concave face / Spherical button									
	229	9	3	12	20	18	54.1	119	42-9H8P229-S65
	241	9 1/2	3	12	20	18	54.5	120	42-9H8P241-S65
	254	10	3	12	20	18	57.3	126	42-9H8E254-S69

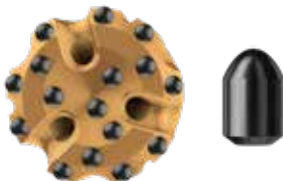
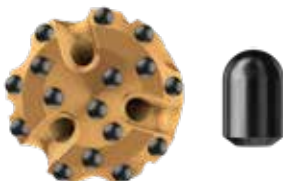
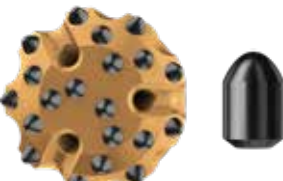
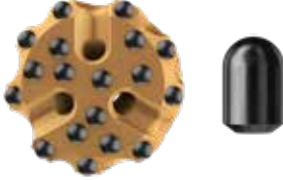
For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / M SHANKS

SANDVIK RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
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-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

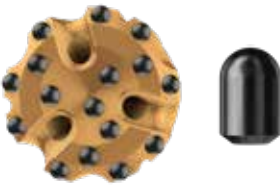
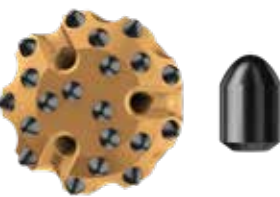
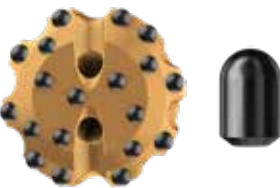
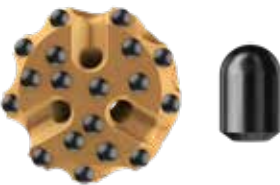
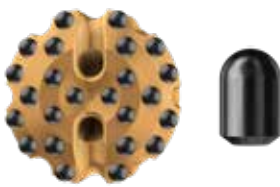
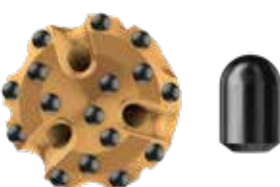
For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

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									
	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



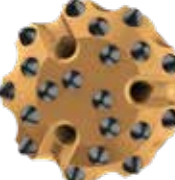




For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

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-R55
Convex face / Spherical button									
	172	6 3/4	3	9	18	18	23.4	51.6	42-68GE172-W55
Flat face / Spherical button									
	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
Bulldog / Spherical button									
	165	6 1/2	2	12	18	18/16	21.3	47.0	42-68BV165-S48
	172	6 3/4	2	12	18	18/16	21.9	48.3	42-68BV172-S48
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

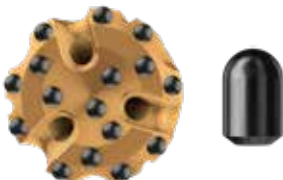
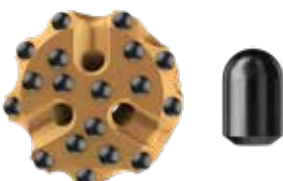

For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

DTH BITS / 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-S48K
	115	4 1/2	2	8	14	13	9.3	20.5	42-4G1A115-S65
	115	4 1/2	2	8	14	13	9.3	20.5	42-4G1A115-S69
	115	4 1/2	2	8	14	13	9.3	20.5	42-4G1A115-S69K
	127	5	2	8	14	13	10.2	22.5	42-4G1A127-S48
	127	5	2	8	14	13	10.2	22.5	42-4G1A127-S48K
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	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

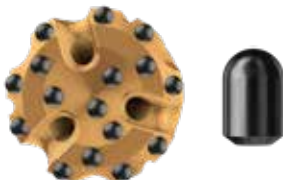
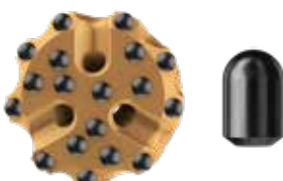
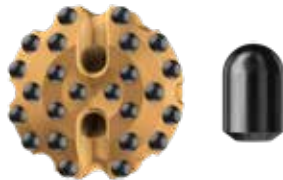

For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

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
	140	5 1/2	2	8	16	14	16.5	36.4	42-5019140-S69
	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

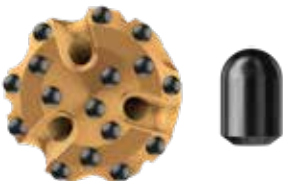
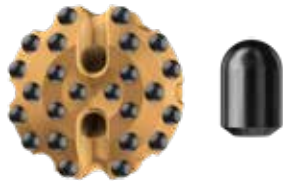

For all the bit pages, a generic bit front design has been used in our catalogue. Please read the specifications of every part number to get more details.

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
Bulldog face / Spherical button									
	165	6 1/2	2	12	18	18/16	23.7	52.2	42-76BV165-S48K
	165	6 1/2	2	10	18	18/16	23.7	52.2	42-76ED165-S69K
	172	6 3/4	2	12	18	18/16	24.4	53.8	42-76BV172-S48K
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									
	222	8 3/4	3	12	18	18	53.9	118.8	42-838E222-S48
	229	9	3	12	18	18	56.0	123.5	42-838E229-S48
	229	9	3	12	18	18	56.0	123.5	42-838E229-S65
	229	9	3	12	18	18	56.0	123.5	42-838E229-S69
	254	10	3	12	18	18	63.0	138.9	42-838E254-S69
Bulldog / Spherical button									
	216	8 1/2	2	12	18	18	53.5	117.7	42-83BE216-S69
	254	10	2	12	18	18	56.1	123.4	42-83BE254-S69
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.

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	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	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	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	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					
	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	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	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

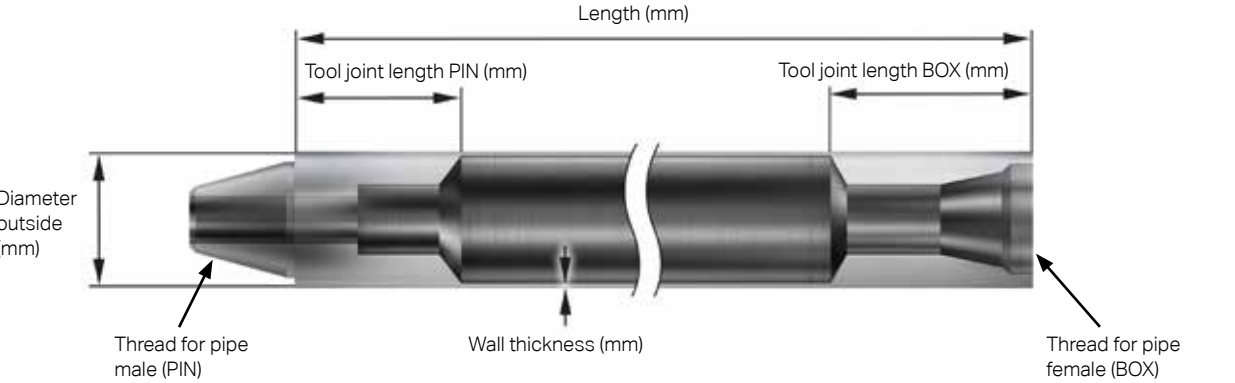
- High-strength, 100% metal-to-metal joint with parent metal properties
- Low-temperature process, gives a small HAZ (heat affected zone) that reduces the risk of failure

HEAVY-DUTY TOOL JOINTS

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

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SANDVIK DRILL PIPES

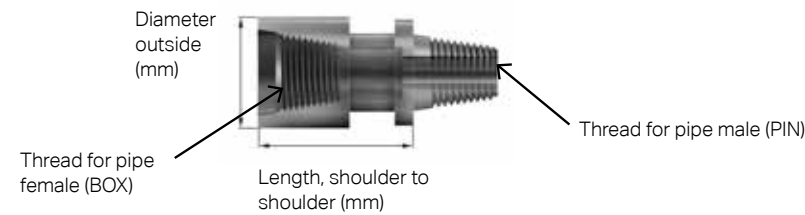


Diameter outside	Wall thickness	Length	Thread for pipe male	Thread for pipe female	Spanner Flat	Internal Spline	Tool joint length Pin	Tool joint length Box	Weight	Part no.	
mm	mm	mm	Pin	Box			mm	mm	kg	lb	
76	4.0	3000	API 2 3/8" Reg	API 2 3/8" Reg	Y	N	107	165	24	53	52-076-101018
76	4.0	3000	API 2 3/8"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

SANDVIK DRILL PIPES

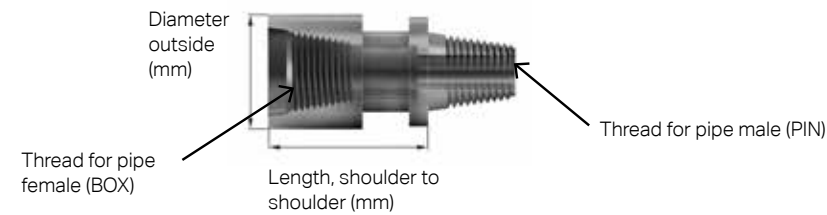
Diameter outside	Wall thickness	Length	Thread for pipe male	Thread for pipe female	Spanner Flat	Internal Spline	Tool joint length Pin	Tool joint length Box	Weight	Part no.	
mm	mm	mm	Pin	Box			mm	mm	kg	lb	
102	6.3	1524	CUBEX #24	CUBEX #24	Y	Y	150	220	32	69	52-20830-132
102	6.3	1828	CUBEX #24	CUBEX #24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

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.

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PRODUCTS AND TOOLS FOR SAFE AND EFFICIENT 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

BIT LIFTERS

Hammer	Description	Weight		Part no.
		kg	lb	
RH460-6"	QL60	3.7	8.2	BG00880852
RH460-8"	QL80	4.2	9.2	BG00880289
RH560-9"	560-9	3.7	8.2	BG00880287

AIR DISTRIBUTOR REMOVAL TOOL

Hammer	Hammer code	Weight		Part no.
		kg	lb	
RH460-3.5"	32-4635-SDA-XXX	2,8	6.2	BG00916087
RH460-4"	32-4640-XXA-XXX	3,9	8.6	BG00909609
RH460-4"	Single lead thread	3,9	8.6	BG01648029
RH460-4"	Tripple lead thread	3,9	8.6	BG01648065
RH460-5"	32-465X-XQA-XXX	7,2	15.9	BG00909715
RH460-6"	32-466X-XQA-XXX	8,6	19	BG00810644
RH460-8"	32-468X-XXA-XXX	19,8	43.7	BG00812342
RH560-3.5"	32-5665-SRA-XXX	2,9	6.4	BG01037472
RH560-4.5"	32-5645-XTA-XXX	4,3	9.5	BG00909479
RH560-5.5"	32-5655-GQA-XXX	6,7	14.8	BG01126401
RH560-5.5"	32-5655-GQB-XXX	6,7	14.8	BG01671406
RH560-6.5"	32-5665-GQA-XXX	8,6	19	BG00909469
RH560-6.5"	32-5665-GQB-XXX	8,6	19	BG01305403
RH560-6.5"	32-5665-GQC-XXX	8,6	19	BG00810644
RH560-9"	32-5665-XRA-XXX	24,2	53.4	BG00909116

FOOT VALVE ASSEMBLY TOOL

Description	Weight		Part no.
	kg	lb	
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

Description	Weight		Part no.
	kg	lb	
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



Bit assembly tool



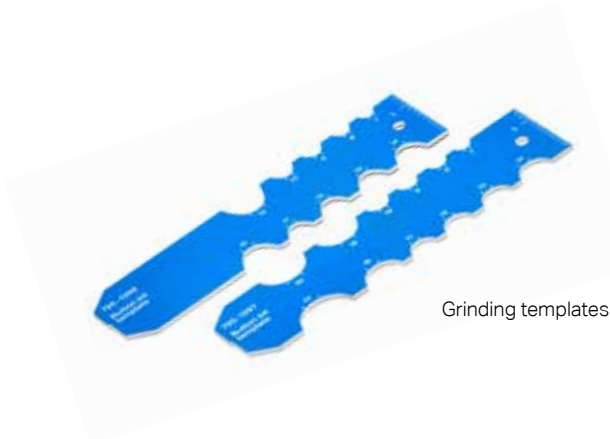
Driver sub lifter



Hammer lifting bail



Hammer service kit



Grinding templates

BIT ASSEMBLY TOOL

Hammer	Hammer code	Part no.
RH560-5.5"	32-5655-GQX-XXX	BG01683534
RH560-6.5"	32-5665-GQX-XXX	BG01683377

DRIVER SUB LIFTERS

Hammer	Hammer code	Weight		Part no.
		kg	lb	
RH460-8"	32-468X-XXA-XXX	4.8	10.6	BG00668428
RH560-9"	32-5665-XRA-XXX	4.8	10.6	BG00821070

HAMMER LIFTING BAIL 3600 KG

2-3/8" Reg box	5.1	11.2	BG00016425
2-7/8" Reg box	8	17.6	BG00016426
3-1/2" Reg box	14	30.8	BG00016427
3-1/2" IF box	10	22	BG00016428
4-1/2" Reg box	19	41.8	BG00016429
CUBEX #24 box	13	28.6	BG00294441
CUBEX #21 box	13	28.6	BG00294442
CUBEX #28 box	13	28.6	BG00294450
4 1/2" BECO box	25	55	BG00294443

HAMMER SERVICE KIT

Hammer	Hammer code	Weight		Part no.
		kg	lb	
RH460-3.5"	32-4635-SDA-XXX	3,8	8.2	BG01671422
RH460-4"	32-4640-XXA-XXX	5,2	11.5	BG00303552
RH460-4"	Single lead thread	5,2	11.5	BG01648028
RH460-4"	Tripple lead thread	5,2	11.5	BG01648063
RH460-5"	32-465X-XQA-XXX	N/A	N/A	BG00274811
RH460-6"	32-466X-XQA-XXX	N/A	N/A	BG00275989
RH460-8"	32-468X-XXA-XXX	N/A	N/A	BG00324800
RH560-3.5"	32-5665-SRA-XXX	5,8	12.9	BG01669911
RH560-4.5"	32-5645-XTA-XXX	7,2	15.9	BG00995594
RH560-5.5"	32-5655-GQA-XXX	10,4	22.9	BG01670792
RH560-5.5"	32-5655-GQB-XXX	10,4	22.9	BG01671405
RH560-6.5"	32-5665-GQA-XXX	12,3	27.1	BG01671039
RH560-6.5"	32-5665-GQB-XXX	12,3	27.1	BG01671390
RH560-6.5"	32-5665-GQC-XXX	12,3	27.1	BG01671397
RH560-9"	32-5665-XRA-XXX	33	73.2	BG01671257

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

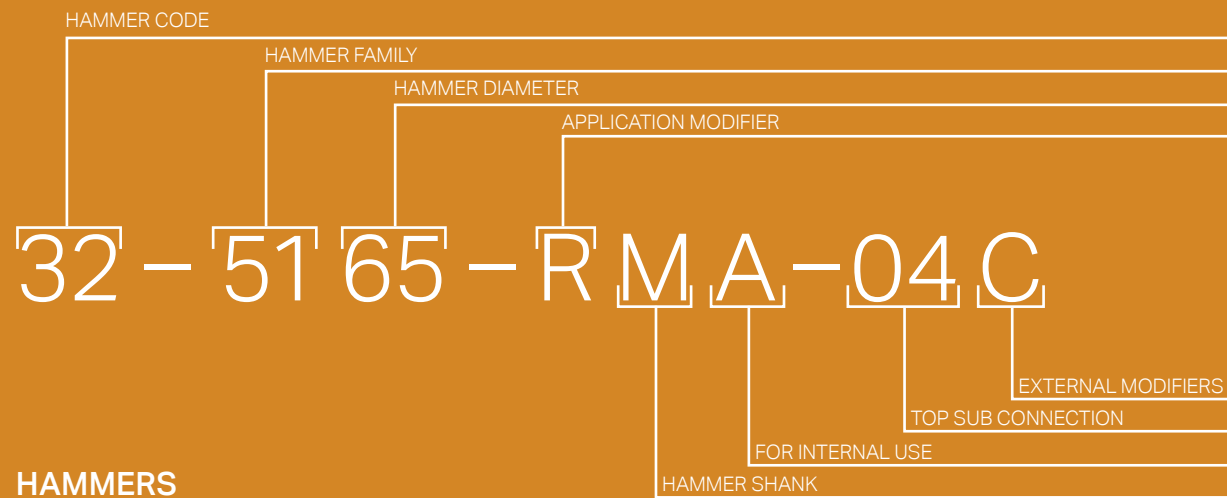
Sandvik heavy-duty rock drill lubrication oils are specially engineered for your Sandvik rock tools that operate under harsh mining conditions. With different viscosity classes for colder and warmer climates, this oil will increase the service life of your rock tools and maximize your return on investment.

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

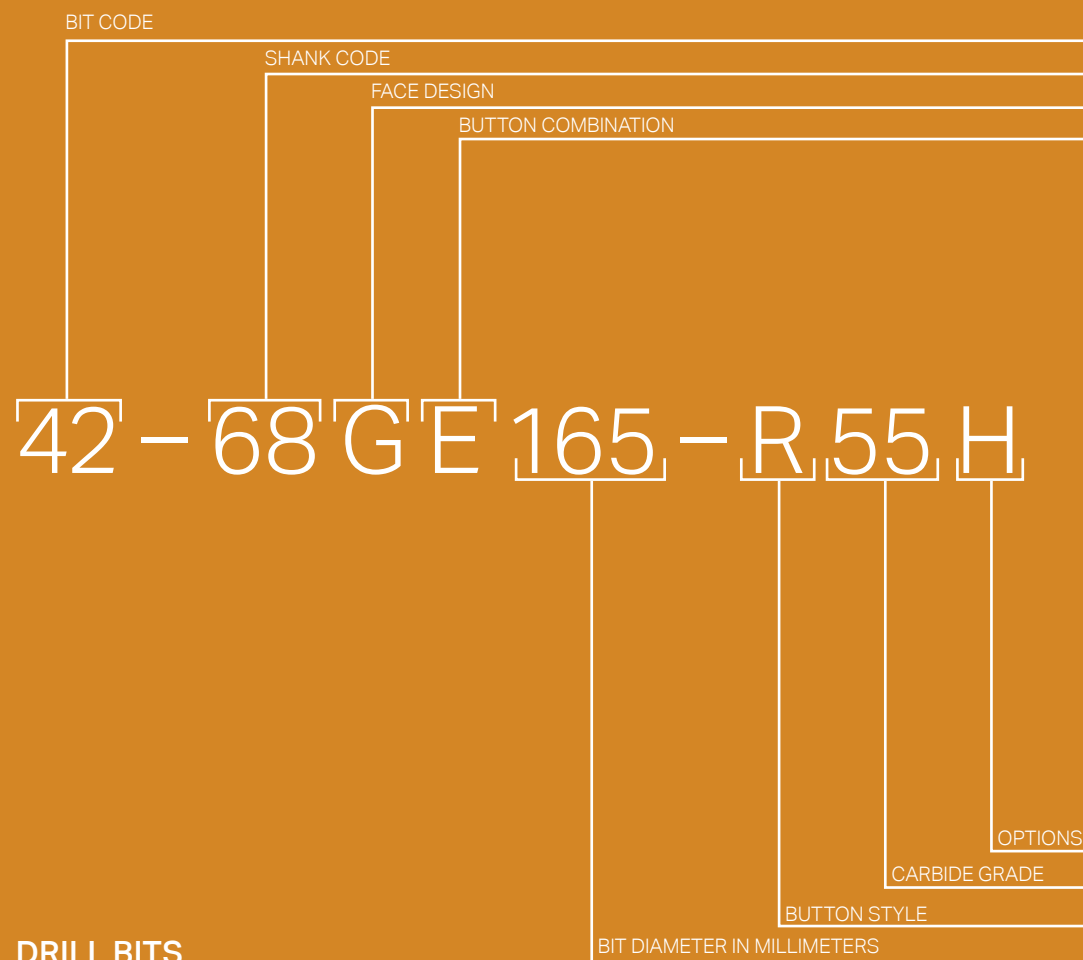
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PART NO. KEYS



HAMMERS



DRILL BITS

		HAMMER CODE
		HAMMER FAMILY
APPLICATION MODIFIER	HAMMER DIAMETER	56 = RH560
R Reversible	30 = 3" 70 = 7" HD	51 = RH510
G HD (Large OD)	35 = 3.5" 80 = 8"	46 = RH460
W Deep hole	40 = 4" 85 = 8.5" HD	
H Horizontal	50 = 5" 10 = 10"	
S Standard	55 = 5.5" HD 12 = 12"	
E expanded pressure range	60 = 6" 15 = 15"	
	65 = 6.5" HD 18 = 18"	

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

BIT CODE			SHANK CODE	
BUTTON COMBINATION				
0 = 11 / 11	B = 14 / 14		3R = 560-3.5	3H = DHD3.5HD
1 = 12 / 12	C = 16 / 16		4H = 560-4	36 = DHD340
3 = 13 / 12	D = 18 / 16		5H = 560-5	4G = QXL40
4 = 13 / 13	E = 18 / 18		63 = 560-6	50 = QL50
8 = 16 / 13	L = 22 / 18		9H = 560-9	76 = QL60
9 = 16 / 14	M = 22 / 22		3A = M30	83 = QL80
A = 14 / 13	P = 20 / 18		48 = M40	
FACE DESIGN			58 = M50	
Face code	Flushing holes	Gauge buttons	68 = M60	
Concave face			88 = M80	
1	2	8		
D	3	9		
T	2	10		
8	3	12		
Flat face				
A	2	10		
F	2	8		
2	3	9		
Convex face				
3	2	7		
5	2	8		
6	2	10		
C	3	12		
L	3	9		
G	1-4	HD		
Bulldog				
9	3	9		
B	2	12		
6	2	10		

				OPTIONS	
				CARBIDE GRADE	H = Extra hard body
BUTTON STYLE				48 = XT48	F = Rope fishing thread
BIT DIAMETER IN MM			With wear protection	55 = DP55	K = Wear resistant
	Shape	Std		65 = DP65	
	Spherical	S	W	D2 = Diamond	
	Ballistic	R	U	69 = SH69	
	Spherical gauge				
	Ballistical face	L	T		

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