

# Down-the-hole drilling tools

2025





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# Health and safety information

<b>Routes of exposure</b>	Grinding or heating hardmetal blanks or hardmetal products will produce dust or fumes with dangerous particles that can be inhaled or swallowed, or which might come in contact with the skin or eyes.	<b>Operating the hammer</b>	<ul style="list-style-type: none"> <li>– Only operate the controls while the engine is running</li> <li>– Proper PPE must be worn when you are operating the drill rig and the hammer</li> <li>– Before you move the drill rig with the hammer, ensure that no one will be endangered</li> <li>– Do not go close to the edge of a cliff, an excavation or an overhang</li> <li>– 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</li> <li>– Know the maximum operating dimensions of your drill rig when the hammer is installed</li> <li>– Ensure that there is adequate clearance between the drill rig and any stationary objects when you are manoeuvring the machine</li> <li>– Know the appropriate work site hand signals, and the personnel who are authorized to give these hand signals</li> </ul>
<b>Acute toxicity</b>	The dust is toxic by inhalation. Inhalation may cause Irritation and inflammation in the airways. Skin contact can cause irritation and rash. Sensitive people may experience an allergic reaction.	<b>Prohibited use of machinery</b>	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.
<b>Chronic toxicity</b>	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.	<b>Hammer maintenance</b>	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.
<b>Classification</b>	<p>Following hazard classification according to GHS/CLP applies to the hardmetal powder (3 % ≤ Co &lt; 10 %):</p> <ul style="list-style-type: none"> <li>– Acute Inhalation 3, H331: Toxic if inhaled</li> <li>– Carcinogenicity 1B, H350i, May cause cancer by inhalation</li> <li>– Repr. 2, H361f; Suspected of damaging fertility</li> <li>– STOT RE 1, H372: Causes damage to lungs through prolonged or repeated exposure through inhalation</li> <li>– Resp. Sens. 1B, H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled</li> <li>– Skin Sens.1, H317: May cause an allergic skin reaction.</li> <li>– Aquatic Acute 1, H400: Very toxic to aquatic life</li> <li>– Aquatic Chronic 2, H411: Toxic to aquatic life, with long lasting effects.</li> </ul>		
<b>Precautionary statements</b>	<ul style="list-style-type: none"> <li>– Do not breathe the dust</li> <li>– Wear protective gloves/protective clothing/eye protection</li> <li>– In case of inadequate ventilation, wear respiratory protection</li> <li>– Avoid release into the environment</li> </ul> <p>If inhaled and breathing is difficult, please move exposed person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call emergency center immediately.</p>		



# Rock Tools: a sustainable choice

Within Rock Tools, we are committed to driving real, meaningful change when it comes to sustainability. With the Our Way Report, we capture our journey, progress, and priorities as we work to support a more sustainable mining industry. The report highlights how we are contributing to Sandvik's overall sustainability goals within three key areas: sustainable solutions, net zero and circularity.



## **An honest sustainability story**

We believe that accountability begins with transparency. That is why we publish the Our Way Report, a clear account of our progress toward a more sustainable business.

It not only outlines the actual results we have achieved - such as reduced emissions, increased recycling rates, and product innovations, but also highlights key initiatives we are driving across the organization to take further steps toward net zero.

The report is both a reflection of where we stand today and a roadmap for what lies ahead. It is our way of turning ambition into measurable action.

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 a difference. 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.



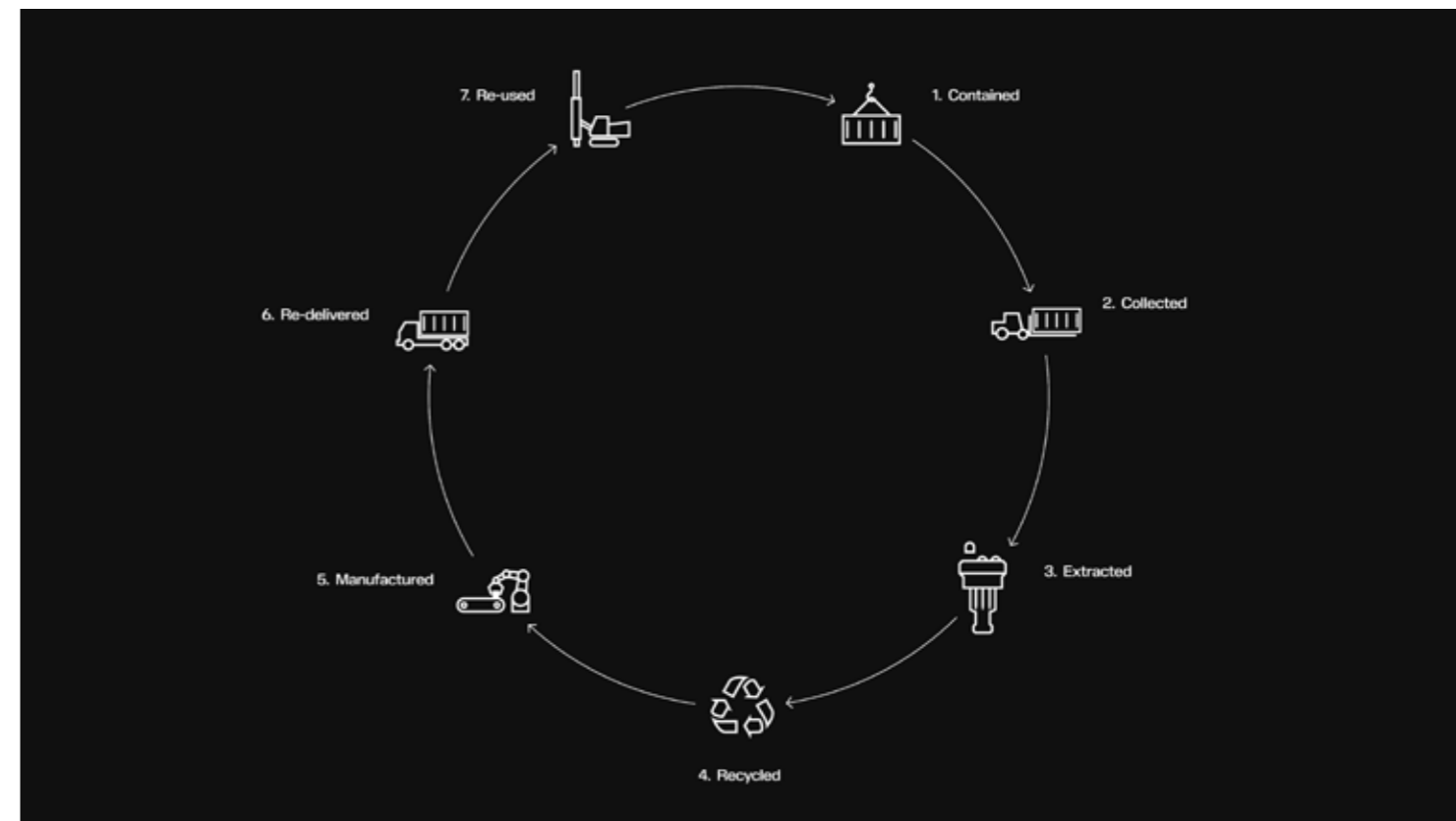
# Rock Tools carbide recycling

## 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.

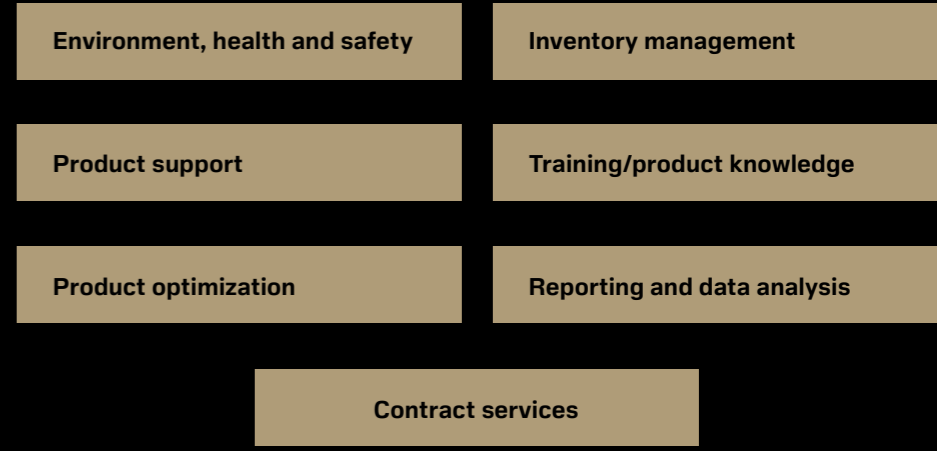




# Rock Tools services

## Rock Tools Contract Services

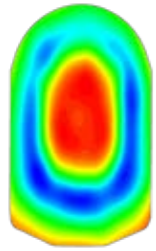
Sandvik is a world-leader in the supply of mining and rock excavation tools and equipment. In addition to supplying your operation with the premium brand of rock tools, our range of added services and digital solutions support your drilling operations, everyday – all year round. And we can also take 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.



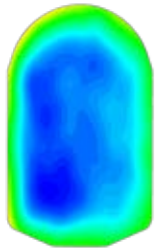


# PowerCarbide®

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.



DP® 55 Grade



SH69 Grade



XT48 Grade

## Dual Property® grades

Dual Property® 55, also called DP® 55, 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.

## 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.

## 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.



Toughness

Hardness





# 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 of 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.

# Hammer families

## Malleo™ RH570

Malleo™RH570 hammer is the fastest in the industry. The optimized design and energy efficiency supports a lower fuel consumption and reduces the environmental footprint, while still ensuring enhanced durability, minimized downtime and consistent drilling performance.



## RH560

The RH560 DTH hammer is a robust and reliable addition to your mining and long-hole production drilling operations. It drills fast and lowers your drilling cost per hole.



## RH510

The RH510 hammer, with a ported piston and no foot valve, brings high penetration rates and consistent productivity to your operations.



## RH460

The RH460 DTH hammer, with its business standard QL/QLX shank and foot valve, is a reliable and productive hammer that ensures a job well done.



## Contact us

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



# Drilling speed makes all the difference

Malleo™ RH570 DTH hammer addresses the growing demand for higher productivity, greater reliability and increased sustainability in your daily operations. Experience the difference by the highest rate of penetration and more drillmeters achieved per hour, while still ensuring enhanced durability, minimized downtime and consistent performance.

power of today's drill rig compressors. Consistency by fewer interruptions and less troubleshooting ensure minimal downtime, improved on-site safety and less time spent in front of the rig. The optimized energy efficiency of the hammer also supports a lower fuel consumption and reduces the environmental footprint, which makes it an essential drilling tool for a sustainable mining future.

Malleo™ RH570 hammer is equipped with boosted internal components, including a completely re-imagined bit shank, for higher load resistance and to perfectly match the increased

Reach your drilling targets, extract more ore in less time, and finalize the job quicker, while reducing your drilling economy and still improving both safety and sustainability.

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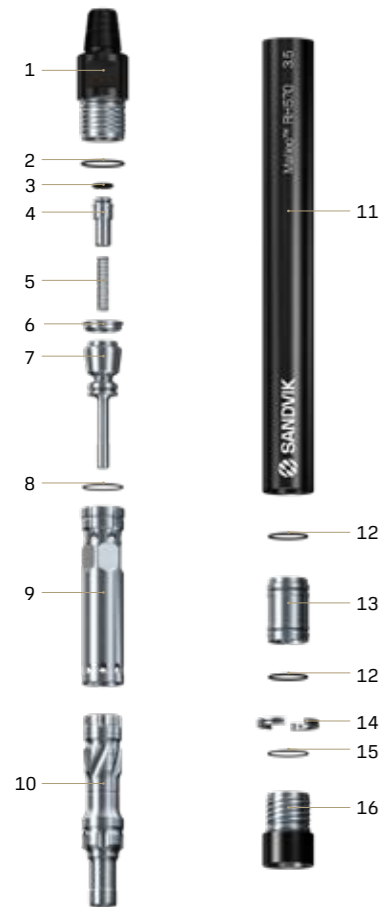
# Malleo™ RH570 3.5 (2 3/8 API)

## Complete hammer

RH570 3.5" Hammer 2 3/8 API reg pin

32-5735-SFA-16S

Weight		Outside diameter		Hammer length		Hammer length with bit					
						Bit closed		Bit extended			
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch		
28	61.73	85	3.3	888	35	953	37.5	979	38.5		
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)				
150 psi		250 psi		350 psi		10 bar		18 bar		24 bar	
159	292	392		4.5	8.3	11.1		20.9			



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
2 3/8 API reg pin	5.3	11.7	BG02017663
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.3	0.7	BG01981929
5. Check valve spring	0.04	0.09	BG00876172
6. Make up ring	0.1	0.2	BG00014763
7. Air distributor	1.2	2.6	BG02017390
8. O-ring air distributor			In seal kit
9. Inner cylinder	1.9	4.2	BG01994176
10. Piston	5.3	11.7	BG01867625
11. Piston case	10.1	22.3	BG01865835
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1.3	2.9	BG00216219
14. Bit retainer ring	0.15	0.3	BG01868771
15. O-ring bit retainer ring			
16. Driver sub (triple lead thread)	1.9	4.2	BG01865721

### Seal kit

1 piece of 2, 3, 8, 15, and 2 of 12	0.01	0.02	BG01872057
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### Rebuild kit

1 piece of 1, 11, 16 and seal kit			
2 3/8 API reg pin	17.4	38.4	BG02024417

## Bit shank



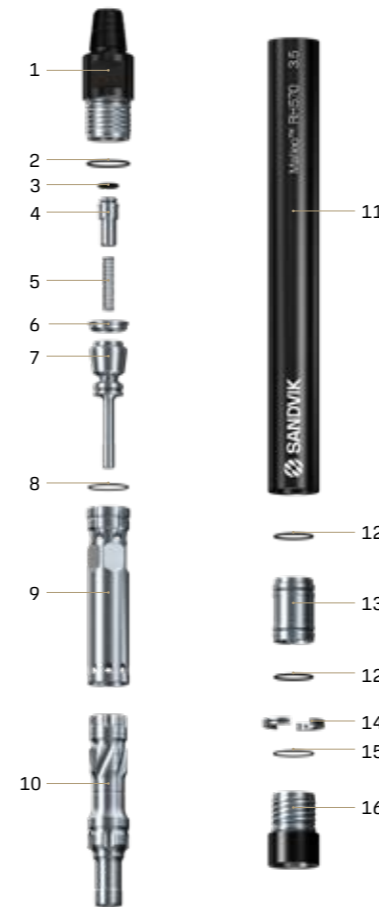
# Malleo™ RH570 3.5 (#21 Cubex)

## Complete hammer

RH570 3.5" Hammer #21 Cubex pin

32-5735-SFA-63S

Weight		Outside diameter		Hammer length		Hammer length with bit					
						Bit closed		Bit extended			
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch		
28	61.73	85	3.3	888	35	953	37.5	979	38.5		
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)				
150 psi		250 psi		350 psi		10 bar		18 bar		24 bar	
159	292	392		4.5	8.3	11.1		20.9			



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
#21 Cubex pin	5.3	11.7	BG01869146
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.3	0.7	BG01981929
5. Check valve spring	0.04	0.09	BG00876172
6. Make up ring	0.1	0.2	BG00014763
7. Air distributor	1.2	2.6	BG02017390
8. O-ring air distributor			In seal kit
9. Inner cylinder	1.9	4.2	BG01994176
10. Piston	5.3	11.7	BG01867625
11. Piston case	10.1	22.3	BG01865835
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1.3	2.9	BG00216219
14. Bit retainer ring	0.15	0.3	BG01868771
15. O-ring bit retainer ring			
16. Driver sub (triple lead thread)	1.9	4.2	BG01865721

### Seal kit

1 piece of 2, 3, 8, 15, and 2 of 12	0.01	0.02	BG01872057
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### Rebuild kit

1 piece of 1, 11, 16 and seal kit			
#21 Cubex pin	17.4	38.4	BG02024421

## Bit shank



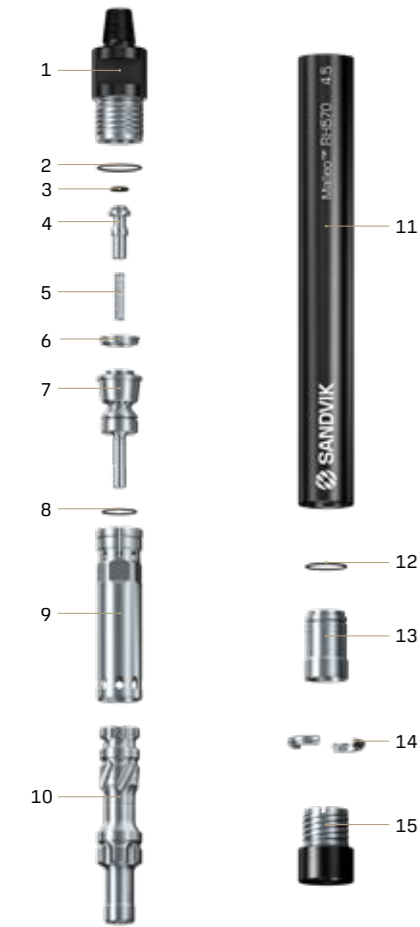
# Malleo™ RH570 4.5 (2 3/8 API)

## Complete hammer

RH570 4.5" Hammer 2 3/8 API reg pin

32-5745-SFA-16S

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
48.5	106.92	105	4.13	1,019	40.1	1,082	42.6	1,122	44.1
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (single lead thread)			
2 3/8 API reg pin	9.5	20.9	BG00378463
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.3	0.7	BG00904454
5. Check valve spring	0.04	0.09	BG00876172
6. Make up ring	0.1	0.2	BG00014825
7. Air distributor	2.8	6.2	BG00377566
8. O-ring air distributor			In seal kit
9. Inner cylinder	2.6	5.7	BG00376970
10. Piston	8.6	19.0	BG01508365
11. Piston case	18.9	41.7	BG01928199
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1.6	3.5	BG01758268
14. Bit retainer ring	0.2	0.4	BG00811287
15. Driver sub (triple lead thread)	3.4	7.5	BG01758146

### Seal kit

1 piece of 2, 3, 8 and 12	0.01	0.02	BG00925938
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### Rebuild kit

1 piece of 1, 11, 15 and seal kit			
2 3/8 API reg pin	32.1	70.8	BG02021922

## Bit shank



570-4.5

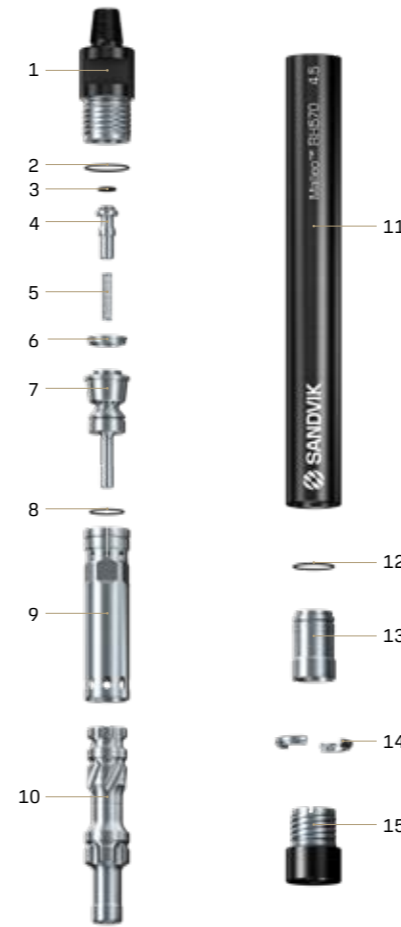
# Malleo™ RH570 4.5 (#24 Cubex)

## Complete hammer

RH570 4.5" Hammer #24 Cubex pin

32-5745-SFA-77S

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
47.8	105.4	105	4.13	1,019	40.1	1,082	42.6	1,122	44.1
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (single lead thread)			
#24 Cubex pin (auto feed)	8.8	19.4	BG02022078
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.3	0.7	BG00904454
5. Check valve spring	0.04	0.09	BG00876172
6. Make up ring	0.1	0.2	BG00014825
7. Air distributor	2.8	6.2	BG00377566
8. O-ring air distributor			In seal kit
9. Inner cylinder	2.6	5.7	BG00376970
10. Piston	8.6	19.0	BG01508365
11. Piston case	18.9	41.7	BG01928199
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1.6	3.5	BG01758268
14. Bit retainer ring	0.2	0.4	BG00811287
15. Driver sub (triple lead thread)	3.4	7.5	BG01758146

### Seal kit

1 piece of 2, 3, 8 and 12	0.01	0.02	BG00925938
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### Rebuild kit

1 piece of 1, 11, 15 and seal kit			
#24 Cubex pin	31.4	69.2	BG02022098

## Bit shank



570-4.5

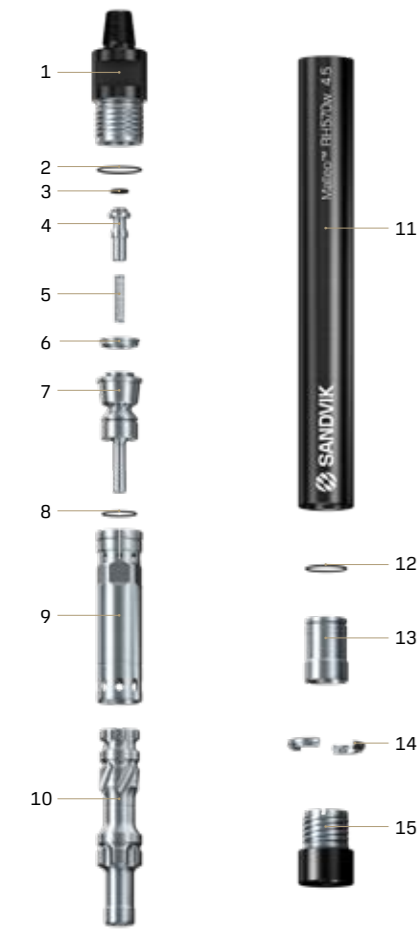
# Malleo™ RH570w 4.5 (2 3/8 API)

## Complete hammer

RH570w 4.5" Hammer 2 3/8 API reg pin

32-5745-WFA-16S

Weight		Outside diameter		Hammer length		Hammer length with bit				
						Bit closed		Bit extended		
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch	
48.5	106.9	105	4.1	1,019	40.1	1,082	42.6	1,122	44.2	
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)			Power output (kW)				
350 psi		435 psi	500 psi	24 bar	30 bar	35 bar	35 bar			
695.9	812	957	19.2	23.0	27.1	43.3				



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
2 3/8 API reg pin	9.5	20.9	BG00378463
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.3	0.7	BG00904454
5. Check valve spring	0.04	0.09	BG00876172
6. Make up ring	0.1	0.2	BG00014825
7. Air distributor	2.8	6.2	BG00978469
8. O-ring air distributor			In seal kit
9. Inner cylinder	2.6	5.7	BG01342304
10. Piston	8.6	18.9	BG01508365
11. Piston case	18.9	41.7	BG00361296
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1.5	3.3	BG01875974
14. Bit retainer ring	0.2	0.4	BG00811287
15. Driver sub (triple lead thread)	3.4	7.5	BG01758146
<b>Seal kit</b>			
1 piece of 2, 3 and 12	0.01	0.02	BG00925938

## Bit shank

570-4.5



Rebuild kit	Weight, kg	Weight, lb	Part no.
1 piece of 1, 11, 15 and seal kit			
2 3/8 API reg pin	32.1	70.8	BG02021922

# Malleo™ RH570 5.5 (3 1/2 API)

## Complete hammer

RH570 5.5" Hammer 3 1/2 API reg pin

32-5755-SFA-04C

Weight		Outside diameter		Hammer length		Hammer length with bit				
						Bit closed		Bit extended		
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch	
73.9	162.9	127	5	1,033	40.7	1,113	43.8	1,145	45.1	
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)			Power output (kW)				
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar			
251	526	756	7.1	14.9	21.4	31.7				



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
3 1/2 API reg pin	16.6	36.6	BG00378463
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	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	4.6	10.1	BG00419578
8. O-ring air distributor			In seal kit
9. Inner cylinder	4	8.8	BG00419463
10. Piston	14.8	32.6	BG01750808
11. Piston case	25	55.1	BG01753821
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	2.9	6.4	BG01750810
14. Bit retainer ring	0.2	0.4	BG00817463
15. Driver sub (triple lead thread)	5.2	11.5	BG01752502
<b>Seal kit</b>			
1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG01074634

## Bit shank

570-5.5



Rebuild kit	Weight, kg	Weight, lb	Part no.
1 piece of 1, 11, 15 and seal kit			
3 1/2 API reg pin	47.1	103.8	BG02021707

# Malleo™ RH570 5.5 (2 7/8 API)

## Complete hammer

RH570 5.5" Hammer 2 7/8 API reg pin

32-5755-SFA-11C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
73.7	162.5	127	5	1,033	40.7	1,113	43.8	1,145	45.1
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
251	526	756		7.1	14.9	21.4	31.7		



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1.Top sub (single lead thread)			
2 7/8 API reg pin	16	35.3	BG01273706
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	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	4.6	10.1	BG00419578
8. O-ring air distributor			In seal kit
9. Inner cylinder	4	8.8	BG00419463
10. Piston	14.8	32.6	BG01750808
11. Piston case	25	55.1	BG01753821
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	2.9	6.4	BG01750810
14. Bit retainer ring	0.2	0.4	BG00817463
15. Driver sub (triple lead thread)	5.2	11.5	BG01752502
<b>Seal kit</b>			
1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG01074634
<b>Rebuild kit</b>			
1 piece of 1, 11, 15 and seal kit			
2 7/8 API reg pin	46.5	102.5	BG02021849

## Bit shank

570-5.5



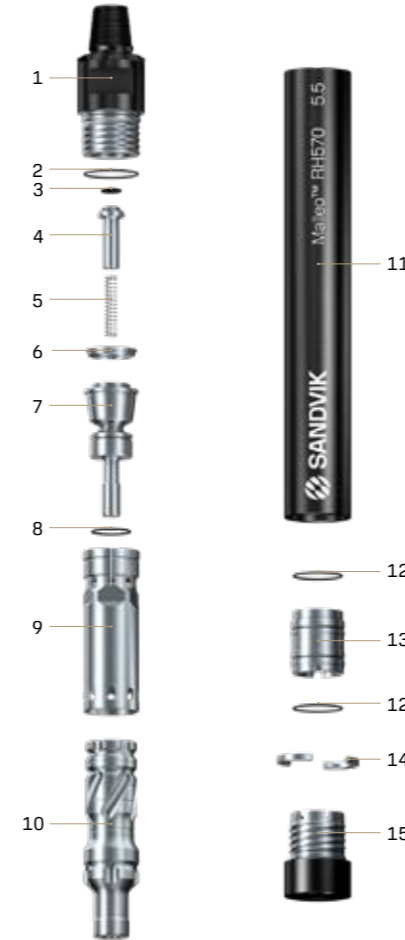
# Malleo™ RH570 5.5 (#24 Cubex)

## Complete hammer

RH570 5.5" Hammer #24 Cubex pin

32-5755-SFA-77C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
70.3	155	127	5	1,033	40.7	1,113	43.8	1,145	45.1
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
251	526	756		7.1	14.9	21.4	31.7		



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
#24 Cubex pin	12.5	27.6	BG02022117
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	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	4.6	10.1	BG00419578
8. O-ring air distributor			In seal kit
9. Inner cylinder	4	8.8	BG00419463
10. Piston	14.8	32.6	BG01750808
11. Piston case	25	55.1	BG01753821
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	2.9	6.4	BG01750810
14. Bit retainer ring	0.2	0.4	BG00817463
15. Driver sub (triple lead thread)	5.2	11.5	BG01752502
<b>Seal kit</b>			
1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG01074634
<b>Rebuild kit</b>			
1 piece of 1, 11, 15 and seal kit			
#24 Cubex pin	43	94.8	BG02021721

## Bit shank

570-5.5



# Malleo™ RH570 6.5 (3 1/2 API)

## Complete hammer

RH570 6.5" Hammer 3 1/2 API reg pin

32-5765-SFA-04C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
114	251.33	150.3	5.9	1,133	44.6	1,217	47.9	1,253	49.3
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
345	613	823	9.8	17.5	23.3	34.5			



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
3 1/2 API reg pin	27.4	60.4	BG00867633
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.8	1.8	BG00904397
5. Check valve spring	0.03	0.07	BG00854872
6. Make up ring	0.4	0.9	BG00014865
7. Air distributor	6.4	14.1	BG00386925
8. O-ring air distributor			In seal kit
9. Inner cylinder	5.9	13.0	BG00385028
10. Piston	22.8	50.3	BG01762466
11. Piston case	38.2	84.2	BG01762373
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	4.2	9.3	BG01762367
14. Bit retainer ring	0.4	0.9	BG00694800
15. Driver sub (triple lead thread)	7.3	16.1	BG01762048

### Seal kit

1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG00874941
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### Rebuild kit

1 piece of 1, 11, 15 and seal kit			
3 1/2 API reg pin	72.9	160.72	BG02021549

## Bit shank

570-6.5



# Malleo™ RH570 6.5 (3 1/2 API DLT)

## Complete hammer

RH570 6.5" Hammer 3 1/2 API reg pin DLT

32-5765-SFC-04C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
114	251.3	150.3	5.9	1,133	44.6	1,217	47.9	1,253	49.3
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
345	613	823	9.8	17.5	23.3	34.5			



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
3 1/2 API reg pin DLT	27.4	60.4	BG00867633
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.8	1.8	BG00904397
5. Check valve spring	0.03	0.07	BG00854872
6. Make up ring	0.4	0.9	BG00014865
7. Air distributor	6.4	14.1	BG00386925
8. O-ring air distributor			In seal kit
9. Inner cylinder	5.9	13.0	BG00385028
10. Piston	22.8	50.3	BG01762466
11. Piston case	38.2	84.2	BG02023274
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	4.2	9.3	BG01762367
14. Bit retainer ring	0.4	0.9	BG00694800
15. Driver sub (double lead thread)	7.3	16.1	BG02023275

### Seal kit

1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG00874941
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### Rebuild kit

1 piece of 1, 11, 15 and seal kit			
3 1/2 API reg pin DLT	72.9	160.7	BG02023281

## Bit shank

570-6.5



# Malleo™ RH570 6.5 (3 1/2 BECO)

## Complete hammer

RH570 6.5" Hammer 3 1/2 BECO pin  
32-5765-SFA-55C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
114	251.3	150.3	5.9	1,133	44.6	1,217	47.9	1,253	49.3
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
345	613	823	9.8	17.5	23.3	34.5			



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
3 1/2 BECO pin	28.1	62	BG00872674
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.8	1.8	BG00904397
5. Check valve spring	0.03	0.07	BG00854872
6. Make up ring	0.4	0.9	BG00014865
7. Air distributor	6.4	14.1	BG00386925
8. O-ring air distributor			In seal kit
9. Inner cylinder	5.9	13.0	BG00385028
10. Piston	22.8	50.3	BG01762466
11. Piston case	38.2	84.2	BG01762373
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	4.2	9.3	BG01762367
14. Bit retainer ring	0.4	0.9	BG00694800
15. Driver sub (triple lead thread)	7.3	16.1	BG01762048
<b>Seal kit</b>			
1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG00874941
<b>Rebuild kit</b>			
1 piece of 1, 11, 15 and seal kit			
3 1/2 BECO pin	74	163.1	BG02021676

## Bit shank

570-6.5 

# Malleo™ RH570 6.5 (#28 Cubex)

## Complete hammer

RH570 6.5" Hammer #28 Cubex pin  
32-5765-SFA-56C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
114	251.3	150.3	5.9	1,133	44.6	1,217	47.9	1,253	49.3
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
345	613	823	9.8	17.5	23.3	34.5			



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
#28 Cubex pin (autofeed)	27	59.5	BG01321599
2. O-ring top sub			In seal kit
3. O-ring check valve dart			In seal kit
4. Check valve dart	0.8	1.8	BG00904397
5. Check valve spring	0.03	0.07	BG00854872
6. Make up ring	0.4	0.9	BG00014865
7. Air distributor	6.4	14.1	BG00386925
8. O-ring air distributor			In seal kit
9. Inner cylinder	5.9	13.0	BG00385028
10. Piston	22.8	50.3	BG01762466
11. Piston case	38.2	84.2	BG01762373
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	4.2	9.3	BG01762367
14. Bit retainer ring	0.4	0.9	BG00694800
15. Driver sub (triple lead thread)	7.3	16.1	BG01762048
<b>Seal kit</b>			
1 piece of 2, 3, 8, and 2 of 12	0.01	0.02	BG00874941
<b>Rebuild kit</b>			
1 piece of 1, 11, 15 and seal kit			
#28 Cubex pin (autofeed)	72.9	160.7	BG02021590

## Bit shank

570-6.5 

# Malleo™ RH570 9 (5 1/4 BECO)

## Complete hammer

RH570 9" Hammer 5 1/4 BECO  
32-5790-SFA-84S

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
253	557.8	210	8.3	1,266	49.8	1,368	53.9	1,411	55.6
Air consumption, CFM			Air consumption, m³/min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
590	925	1,148		17.6	26.2	32.5		54.8	



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
5 1/4 BECO	60	132.3	BG01989429
2. O-ring top sub			In seal kit
3. Check valve dart	0.9	2.0	BG00321984
4. Check valve spring	0.03	0.07	BG00652827
5. Make up ring	0.5	1.1	BG00440285
6. Air distributor	16.2	35.7	BG01989008
7. O-ring air distributor			In seal kit
8. Inner cylinder	11.6	25.6	BG01989002
9. Piston	55	121.3	BG00434983
10. Piston case	77	169.8	BG01865573
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	10.1	22.3	BG01865582
13. Bit retainer ring	1.8	4.0	BG00854834
14. Driver sub (triple lead thread)	19.2	42.3	BG01865410

**Seal kit**  
1 piece of 2, 7 and 2 of 11 0.01 0.02 BG00875031

**Rebuild kit**  
1 piece of 1, 10, 14 and seal kit  
5 1/4 BECO 156 343.9 BG02024593

## Bit shank

570-9.5

# Malleo™ RH570g 9.5 (5 1/4 BECO)

## Complete hammer

RH570g 9.5" Hammer 5 1/4 BECO  
32-5795-GFA-84S

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
285	628.3	220	8.7	1,267	49.9	1,369	53.9	1,412	55.6
Air consumption, CFM			Air consumption, m³/min (DIN1343)				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 (single lead thread)			
5 1/4 BECO	61.8	136.2	BG02024603
2. O-ring top sub			In seal kit
3. Check valve dart	0.9	2.0	BG00321984
4. Check valve spring	0.03	0.07	BG00652827
5. Make up ring	0.5	1.1	BG00440285
6. Air distributor	16.2	35.7	BG01989008
7. O-ring air distributor			In seal kit
8. Inner cylinder	11.6	25.6	BG01989002
9. Piston	55	121.3	BG00434983
10. Piston case	105	231.5	BG02024599
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	10.1	22.3	BG01865582
13. Bit retainer ring	1.8	4.0	BG00854834
14. Driver sub (triple lead thread)	21.3	47.0	BG02024602

**Seal kit**  
1 piece of 2, 7, and 2 of 11 0.01 0.02 BG00875031

**Rebuild kit**  
1 piece of 1, 10, 14 and seal kit  
5 1/4 BECO 188.5 415.6 BG02024604

## Bit shank

570-9.5





# A trusted productivity enhancer

The RH560 hammer is a solid and trusted DTH hammer, tailored for higher drilling efficiency and reduced overall costs in surface mining and long-hole production drilling operations. By increased penetration rates, as well as reduced air usage and fuel consumption, this hammer is engineered to support your energy output per piston blow.

The RH560 hammer is designed with an industry-standard shank, no foot valve, a robust piston and a V-lock system to prevent component movement. It incorporates a seamless airflow to mitigate the risk of disruptive and costly break-downs, and that results in improved efficiency and reduced energy usage.

RH560g 3.5 hammer (2 3/8 API)	38
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RH560g 4 hammer (#24 Cubex)	41
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RH560g 5 hammer (3 1/2 API)	43
RH560g 5 hammer (#24 Cubex)	44
RH560g 6 hammer (3 1/2 API)	45
RH560g 6 hammer (#28 Cubex)	46

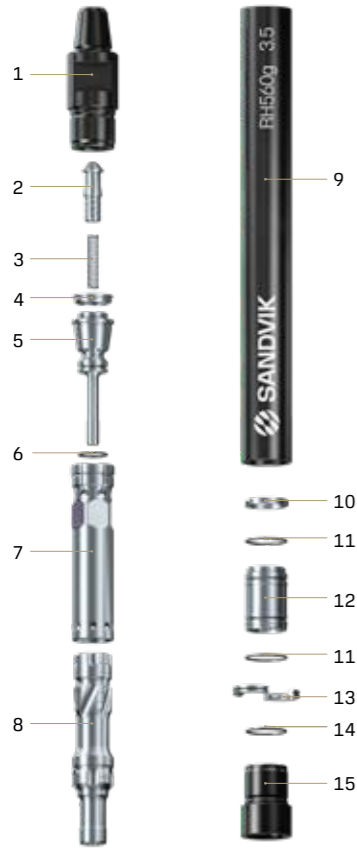
## RH560g 3.5 (2 3/8 API)

## Complete hammer

RH560g 3.5" Hammer 2 3/8 API reg pin

32-5635-SRA-16S

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	979	38.5	1,004	39.5
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
2 3/8 API reg pin	5.8	12.8	BG00014759
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	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 retainer ring			BG00014773
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	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 (double lead thread)	1.9	4.2	BG00203662

## Seal kit

1 piece of 6, 14, and 2 of 11	0.01	0.02	BG01010257
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## Rebuild kit

1 piece of 1, 9, 15 and seal kit			
2 3/8 API reg pin	17.0	37.4	BG01010292

## Bit shank



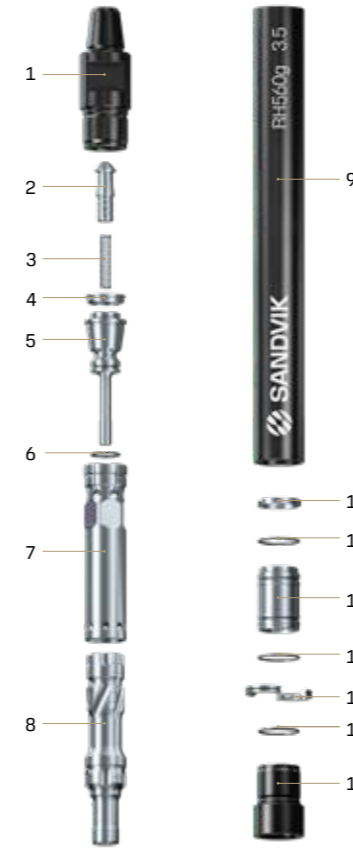
## RH560g 3.5 (#21 Cubex)

## Complete hammer

RH560g 3.5" Hammer #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	979	38.5	1,004	39.5
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
#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	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 retainer ring			BG00014773
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	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 (double lead thread)	1.9	4.2	BG00203662

## Seal kit

1 piece of 6, 14, and 2 of 11	0.01	0.02	BG01010257
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## Rebuild kit

1 piece of 1, 9, 15 and seal kit			
#21 Cubex pin	17.0	37.4	BG01010301

## Bit shank



## RH560g 4 (2 3/8 API)

## Complete hammer

RH560g 4" Hammer 2 3/8 API reg pin

32-5645-GTA-16S

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, m <sup>3</sup> /min (DIN1343)				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			



## Bit shank

560-4



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
2 3/8 API reg pin	9.4	20.7	BG00378463
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.3	0.7	BG00904454
4. Check valve spring	0.04	0.1	BG00876172
5. Make up ring	0.1	0.2	BG00014825
6. Air distributor	2.8	6.2	BG00377566
7. O-ring air distributor			In seal kit
8. Inner cylinder	2.6	5.7	BG00376970
9. Piston	8.5	18.7	BG00334820
10. Piston case	19.5	42.9	BG00361296
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	1.3	2.9	BG00334637
13. Bit retainer ring	0.2	0.4	BG00811287
14. Driver sub (triple lead thread)	3.4	7.5	BG00803816
<b>Seal kit</b>			
1 piece of 2, 7, 11	0.01	0.02	BG00925938
<b>Rebuild kit</b>			
1 piece of 1, 10, 14 and seal kit			
2 3/8 API reg pin	32.4	71.3	BG00933221

## RH560g 4 (#24 Cubex)

## Complete hammer

RH560g 4" Hammer #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, m <sup>3</sup> /min (DIN1343)				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			



## Bit shank

560-4



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
#24 Cubex pin	9.0	19.8	BG00906532
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.3	0.7	BG00904454
4. Check valve spring	0.04	0.1	BG00876172
5. Make up ring	0.1	0.2	BG00014825
6. Air distributor	2.8	6.2	BG00377566
7. O-ring air distributor			In seal kit
8. Inner cylinder	2.6	5.7	BG00376970
9. Piston	8.5	18.7	BG00334820
10. Piston case	19.5	42.9	BG00361296
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	1.3	2.9	BG00334637
13. Bit retainer ring	0.2	0.4	BG00811287
14. Driver sub (triple lead thread)	3.4	7.5	BG00803816
<b>Seal kit</b>			
1 piece of 2, 7, 11	0.01	0.02	BG00925938
<b>Rebuild kit</b>			
1 piece of 1, 10, 14 and seal kit			
#24 Cubex pin	32.0	70.4	BG00933225

## RH560w 4 (2 3/8 API)

### Complete hammer

RH560w 4" Hammer 2 3/8 API reg pin

32-5645-WTA-16S

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, m <sup>3</sup> /min (DIN1343)				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	43.3		



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (single lead thread)			
2 3/8 API reg pin	9.4	20.7	BG00378463
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.3	0.7	BG00904454
4. Check valve spring	0.04	0.1	BG00876172
6. Make up ring	0.1	0.2	BG00014825
6. Air distributor	2.8	6.2	BG00978469
7. O-ring air distributor			In seal kit
8. Inner cylinder	2.6	5.7	BG00968811
9. Piston	8.5	18.7	BG00334820
10. Piston case	19.5	42.9	BG00361296
11. O-ring guide sleeve			In seal kit
12. Guide sleeve	1.3	2.9	BG00967093
13. Bit retainer ring	0.2	0.4	BG00811287
14. Driver sub (triple lead thread)	3.4	7.5	BG00803816
<b>Seal kit</b>			
1 piece of 2, 7 and 11	0.01	0.02	BG00925938
<b>Rebuild kit</b>			
1 piece of 1, 10, 14 and seal kit			
2 3/8 API reg pin	32.4	71.3	BG00933221

### Bit shank

560-4



## RH560g 5 (3 1/2 API)

### Complete hammer

RH560g 5" Hammer 3 1/2 API reg pin

32-5655-GQA-04C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
76	167	127	5.0	1,052	41.4	1,141	41	1,170	42.1
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (single lead thread)			
3 1/2 API reg pin	16.2	35.7	BG00419346
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	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	3.2	7.1	BG00418725
14. Bit retainer ring	0.2	0.4	BG00817463
15. Driver sub (triple lead thread)	5.6	12.3	BG00817456
<b>Seal kit</b>			
1 piece of 2, 3, 8 and 2 of 12	0.01	0.02	BG01074634
<b>Rebuild kit</b>			
1 piece of 1, 11, 15 and seal kit			
3 1/2 API reg pin	48	106	BG01178984

### Bit shank

560-5



## RH560g 5 (#24 Cubex)

## Complete hammer

RH560g 5" Hammer #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, m <sup>3</sup> /min (DIN1343)				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 (single lead thread)			
#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	4.6	10.1	BG00419578
8. O-ring air distributor			In seal kit
9. Inner cylinder	3.9	8.6	BG00419463
10. Piston	15	33.1	BG00418976
11. Piston case	26	57.3	BG00418712
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	3.2	7.1	BG00418725
14. Bit retainer ring	0.2	0.4	BG00817463
15. Driver sub (triple lead thread)	5.6	12.3	BG00817456

## Seal kit

1 piece of 2, 3, 8 and 2 of 12	0.01	0.02	BG01074634
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## Rebuild kit

1 piece of 1, 11, 15 and seal kit			
#24 Cubex pin	47	104	BG01179148

## Bit shank



560-5

## RH560g 6 (3 1/2 API)

## Complete hammer

RH560g 5" Hammer 3 1/2 API reg pin

32-5665-GQA-04C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
117	257.9	150	5.9	1,158	45.6	1,266	49.8	1,307	51.5
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (single lead thread)			
3 1/2 API reg pin	25.4	56.0	BG00867633
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	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	5	11	BG00695224
14. Bit retainer ring	0.4	0.9	BG00694800
15. Driver sub (triple lead thread)	7.2	15.9	BG01054565

## Seal kit

1 piece of 2, 3, 8 and 2 of 12	0.01	0.02	BG00874941
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## Rebuild kit

1 piece of 1, 11, 15 and seal kit			
3 1/2 API reg pin	75	165.3	BG00909795

## Bit shank



560-6

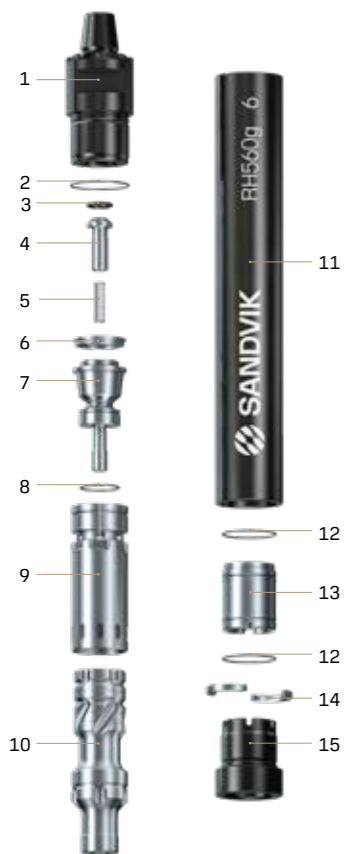
# RH560g 6 (#28 Cubex)

**Complete hammer**

RH560g 6" Hammer #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, m <sup>3</sup> /min (DIN1343)				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 (single lead thread)			
#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	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	5	11	BG00695224
14. Bit retainer ring	0.4	0.9	BG00694800
15. Driver sub (triple lead thread)	7.2	15.9	BG01054565
<b>Seal kit</b>			
1 piece of 2, 3, 8 and 2 of 12	0.01	0.02	BG00874941
<b>Rebuild kit</b>			
1 piece of 1, 11, 15 and seal kit			
#28 Cubex pin	76	167.6	BG00909848

**Bit shank**

560-6





# Additional value to most drilling applications

Engineered to withstand operating pressures of up to 24 bar (350 psi), the RH510 hammer is a testament to reliability and efficiency. With the absence of a foot valve in the bit, downtime is significantly reduced, and your operations can continue uninterrupted. Its innovative design prioritizes energy efficiency, fuel savings, and overall cost-control.

Key features of the RH510 hammer include:

- Foot valve-less bit shank
- High-performance capabilities
- Streamlined and user-friendly design for ease of operations
- Simplified servicing procedures
- Mirror impact concept

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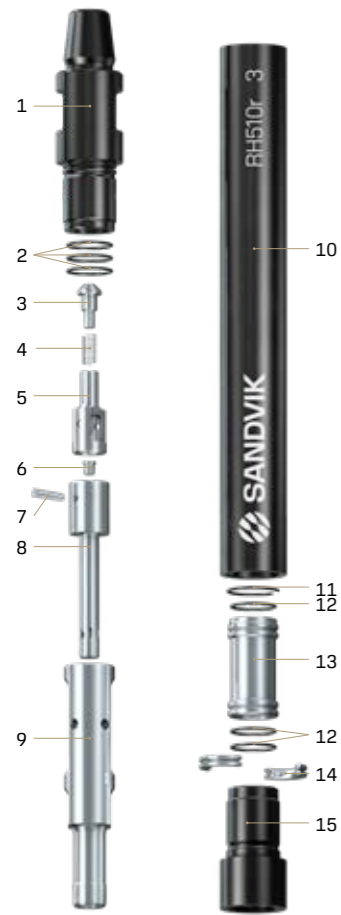
# RH510r 3 (2 3/8 API)

## Complete hammer

RH510r 3" Hammer 2 3/8 API reg pin

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, m <sup>3</sup> /min (DIN1343)							
150 psi		250 psi		350 psi		10 bar		18 bar		24 bar	
172		304		436		4.9		8.6		12.3	



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (triple lead thread)			
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	0.3	0.7	25-99006A*
4. Check valve spring	0.02	0.01	22-99071
5. Check valve guide	0.2	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 blank choke	0.5	1	37-3A001A
9. Piston	3.9	8.5	BG00468603
10. Piston case	10.9	24	BG00468599
11. Piston retainer ring	0.05	0.1	23-99027
12. O-rings - guide sleeve, bit retainer ring			In seal kit
13. Guide sleeve	1	2.2	26-3A010A
14. Bit retainer ring	0.09	0.2	27-3A006A
15. Driver sub (triple lead thread)	2.2	4.8	34-3A006
<b>Seal kit</b>			
3 pieces of 2 and 12	0.3	0.5	38-3A056

### Rebuild kit

1 piece of 1, 10, 15 and seal kit			
2 3/8 API reg pin	18.1	40	BG00478477

\*Delivery also includes a spring with part no 22-99071.

### Bit shank

M30



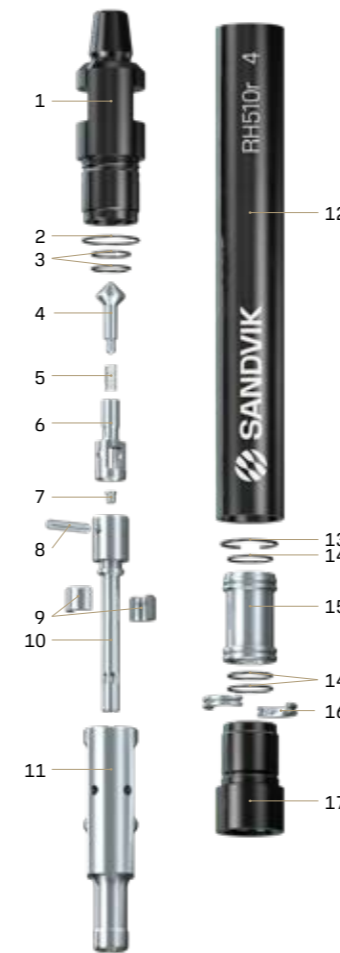
# RH510r 4 (2 3/8 API)

## Complete hammer

RH510r 4" Hammer 2 3/8 API reg pin

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	55	98	3.56	914	36	989	38.9	1,029	40.5		
Air consumption, CFM				Air consumption, m <sup>3</sup> /min (DIN1343)							
150 psi		250 psi		350 psi		10 bar		18 bar		24 bar	
180		370		560		5.1		10.5		15.9	
Low volume option		151		315		4.3		8.9		13.2	



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (triple lead thread)			
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	0.3	0.7	25-99001A*
5. Check valve spring	0.02	0.04	22-99071
6. Check valve guide	0.2	0.4	39-48001-1
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.2	29-48017A
8. Feed tube retainer pin	0.03	0.07	12-99014
9. Tuning ring for low volume (optional)	0.2	0.5	56-48552
10. Solid feedtube	0.7	1.5	BG00785560
11. Piston	7	15.4	BG00387202
12. Piston case	15	33	BG00387230
13. Piston retainer ring	0.05	0.1	23-99029
14. O-rings - guide sleeve and bit retainer ring			In seal kit
15. Guide sleeve	1.8	4.0	26-48J10A
16. Bit retainer ring	0.2	0.5	27-48006A
17. Driver sub (triple lead thread)	3.2	7	34-48006

### Seal kit

1 piece of 2, 2 of 3 and 3 of 14	0.3	0.5	38-48056-1
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### Rebuild kit

1 piece of 1, 12, 17 and seal kit			
2 3/8 API reg pin	28	62	BG00475620

\*Delivery also includes a spring with part no 22-99071.

### Bit shank

M40



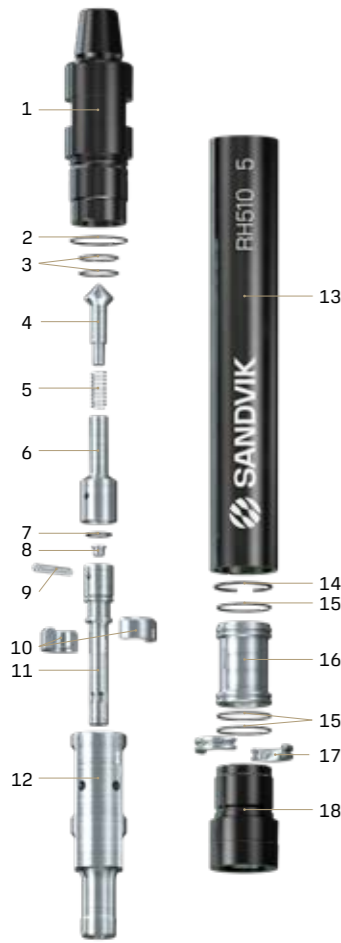
# RH510 5 (3 1/2 API)

## Complete hammer

RH510 5" Hammer 3 1/2 API reg pin

32-5150-SMA-04S

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
68	145	120	4.7	987	38.9	1,082	42.6	1,122	44.2
Air consumption, CFM				Air consumption, m <sup>3</sup> /min (DIN1343)					
		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 sub (single lead thread)			
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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-58S01
7. O-ring feed tube			In seal kit
8. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Tuning ring for low volume (optional)	0.03	0.07	56-58552
11. Feed tube with blank choke	1	2.2	37-58001A
12. Piston	12	26.4	BG00387748
13. Piston case	27	59.4	BG00473260
14. Piston retainer ring	0.05	0.1	23-99032
15. O-rings - guide sleeve and bit retainer ring			In seal kit
16. Guide sleeve	3	6.6	26-58J10A
17. Bit retainer ring	0.5	1.1	27-58006A
18. Driver sub (double lead thread)	6	13.2	34-58D69
<b>Seal kit</b>			
1 piece of 2 and 7, 2 of 3 and 3 of 15	0.5	1	38-58D56
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 13, 18 and seal kit			
3 1/2 API reg pin	43	94.6	BG00475763

\*Delivery also includes a spring with part no BG00348123.

## Bit shank

M50



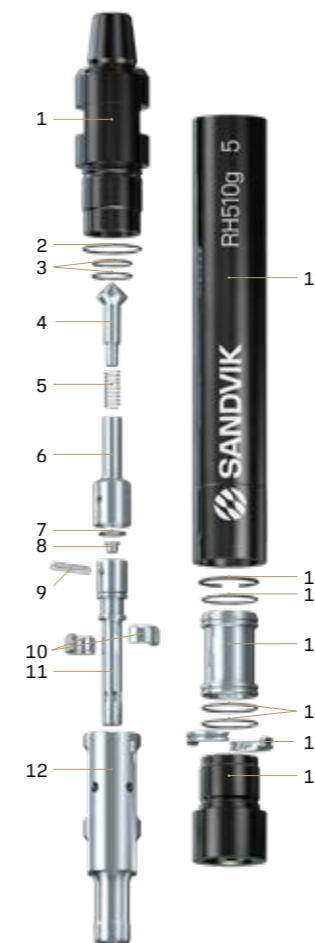
# RH510g 5 (3 1/2 API)

## Complete hammer

RH510g 5" Hammer 3 1/2 API reg pin

32-5155-GMA-04C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
73	160	126	5	987	38.9	1,082	42.6	1,122	44.2
Air consumption, CFM				Air consumption, m <sup>3</sup> /min (DIN1343)					
		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 sub (single lead thread)			
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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-58S01
7. O-ring feed tube	0.1	0.3	29-68017A
8. Choke set, blank 1/8", 3/16", & 1/4"			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Tuning ring for low volume (optional)	0.03	0.07	56-58552
11. Feed tube with blank choke	1	2.2	37-58001A
12. Piston	12	26.4	BG00387748
13. Piston case	29	63.8	BG00470986
14. Piston retainer ring	0.05	0.1	23-99032
15. O-rings - guide sleeve and bit retainer ring			In seal kit
16. Guide sleeve	3	6.6	26-58J10A
17. Bit retainer ring	0.5	1.1	27-58006A
18. Driver sub (double lead thread)	7	15.4	34-58D70
<b>Seal kit</b>			
1 piece of 2 and 7, 2 of 3, and 3 of 15	0.5	1	38-58D56
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 13, 18 and seal kit			
3 1/2 API reg pin	54	118.8	BG00475761

\*Delivery also includes a spring with part no BG00348123.

## Bit shank

M50



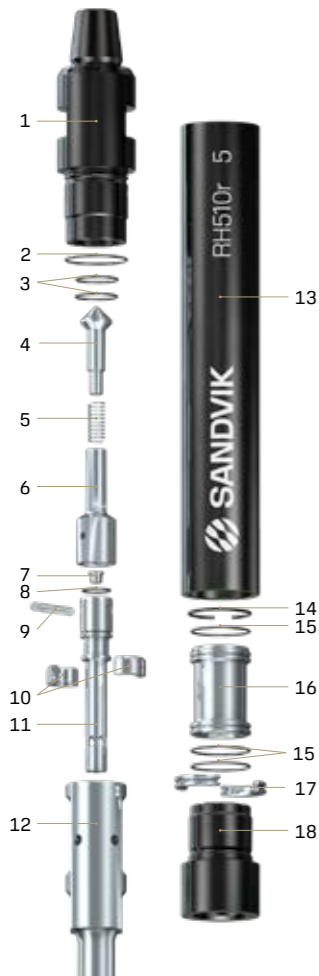
# RH510r 5 (3 1/2 API)

## Complete hammer

RH510r 5" Hammer 3 1/2 API reg pin

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, m <sup>3</sup> /min (DIN1343)									
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.
<b>1. Top sub (triple lead thread)</b>			
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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-58S01
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. O-ring feed tube			In seal kit
9. Feed tube retainer pin	0.09	0.2	12-99018
10. Tuning ring for low volume (optional)	0.03	0.07	56-58552
11. Feed tube with blank choke	1	2.2	37-58001A
12. Piston	12	26.4	BG00387748
13. Piston case	29	63.8	BG00409895
14. Piston retainer ring	0.05	0.1	23-99032
15. O-rings – guide sleeve and bit retainer ring			In seal kit
16. Guide sleeve	3	6.6	26-58J10A
17. Bit retainer ring	0.5	1.1	27-58006A
18. Driver sub (triple lead thread)	7	15.4	34-58070
<b>Seal kit</b>			
1 piece of 2 and 8, 2 of 3 and 3 of 15	0.5	1	38-58D56
<b>Rebuild kit</b>			
1 piece of 1, 13, 18 and seal kit	0.1	0.2	
3 1/2 API reg pin	54	118.8	BG00475756

\*Delivery also includes a spring with part no BG00348123.

## Bit shank

M50



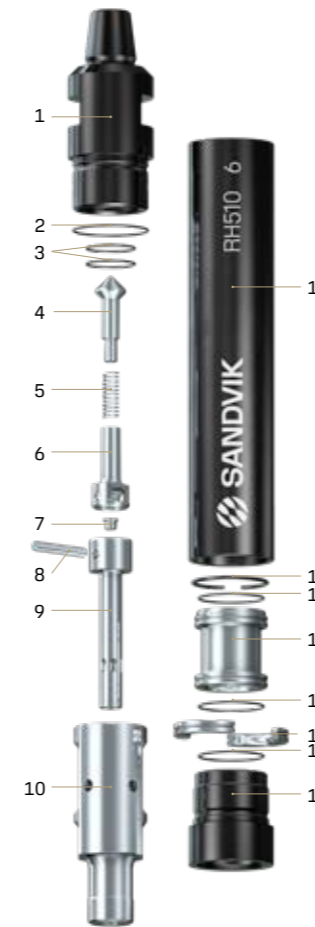
# RH510 6 (3 1/2 API)

## Complete hammer

RH510 6" Hammer 3 1/2 API reg pin

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, m <sup>3</sup> /min (DIN1343)							
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.
<b>1. Top sub (single lead thread)</b>			
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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99013
9. Feed tube with blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case	33	72.6	BG00214914
12. Piston retainer ring	0.1	0.2	23-99028
13. O-rings – guide sleeve and bit retainer ring			In seal kit
14. Guide sleeve	4	8.8	26-68J10A
15. Bit retainer ring	1	2.2	27-68006A
16. Driver sub (triple lead thread)	6	13.2	34-68D69
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 13	0.3	0.6	38-68656
<b>Rebuild kit</b>			
1 piece of 1, 11, 16 and seal kit	0.1	0.2	
3 1/2 API reg pin	20	44	BG00474856

\*Delivery also includes a spring with part no BG00348123.

## Bit shank

M60



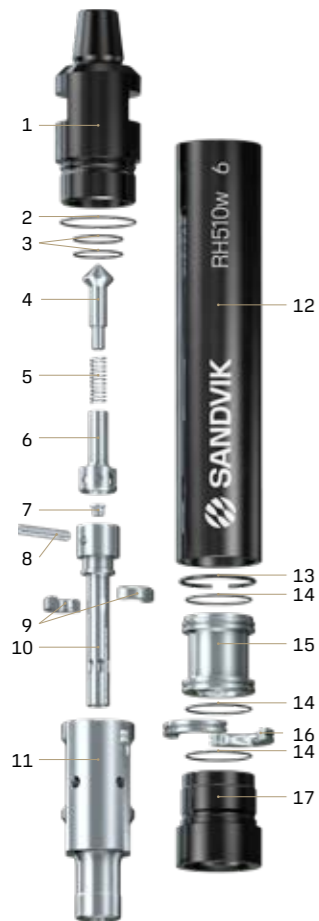
# RH510w 6 (3 1/2 API)

## Complete hammer

RH510w 6" 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, m <sup>3</sup> /min (DIN1343)					
		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 (single lead thread)			
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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99013
9. Tuning ring for low volume (optional)	0.4	0.9	56-68552
10. Feed tube with blank choke	1	2.2	37-68301A
11. Piston	18	39.6	BG00210384
12. Piston case	33	72.6	BG00214914
13. Piston retainer ring	0.1	0.2	23-99028
14. O-rings - guide sleeve and bit retainer ring			In seal kit
15. Guide sleeve	4	8.8	26-68J10A
16. Bit retainer ring	1	2.2	27-68006A
17. Driver sub (double lead thread)	6	13.2	34-68D69
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 14	0.3	0.5	38-68656
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 12, 17 and seal kit			
3 1/2 API reg pin	20	44	BG00474824

## Bit shank

M60



\*Delivery also includes a spring with part no BG00348123.

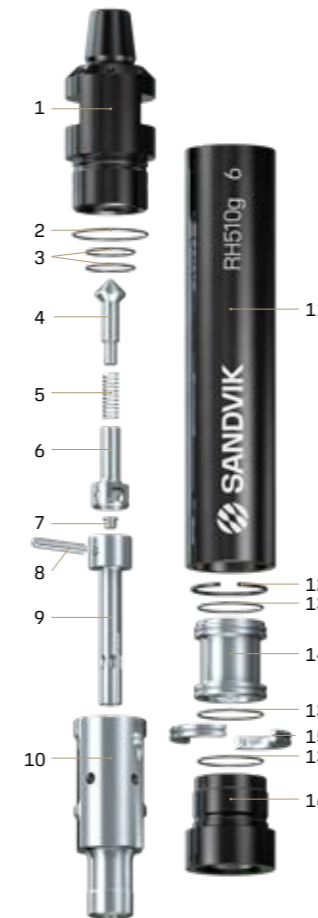
# RH510g 6 (3 1/2 API)

## Complete hammer

RH510g 6" Hammer 3 1/2 API reg pin

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, m <sup>3</sup> /min (DIN1343)					
		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 (single lead thread)			
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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99013
9. Feed tube with blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case	33	72.6	BG00465129
12. Piston retainer ring	0.1	0.2	23-99028
13. O-rings - guide sleeve and bit retainer ring			In seal kit
14. Guide sleeve	4	8.8	26-68J10A
15. Bit retainer ring	1	2.2	27-68006A
16. Driver sub (double lead thread)	6	13.2	34-6LD70
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 13	0.3	0.5	38-68656
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 11, 16 and seal kit			
3 1/2 API reg pin	62	136.4	BG00474803

## Bit shank

M60



\*Delivery also includes a spring with part no BG00348123.

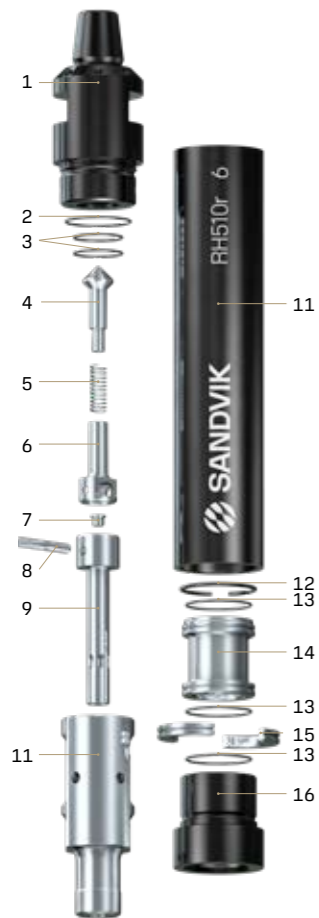
## RH510r 6 (3 1/2 API)

## Complete hammer

RH510r 6" Hammer 3 1/2 API reg pin

32-5165-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		
82	180	150	5.9	922	36.3	1,008	39.7	1,046	41.2		
Air consumption, CFM				Air consumption, m <sup>3</sup> /min (DIN1343)							
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 (triple lead thread)			
3 1/2 API reg pin	22	48.4	33-68602/04CA
2. O-ring top sub OD (1)			In seal kit
3. O-ring top sub ID (2)			In seal kit
4. Check valve dart	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99013
9. Feed tube with blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case	33	72.6	BG00143988
12. Piston retainer ring	0.1	0.2	23-99028
13. O-rings - guide sleeve and bit retainer ring			In seal kit
14. Guide sleeve	4	8.8	26-68J10A
15. Bit retainer ring	1	2.2	27-68006A
16. Driver sub (triple lead thread)	6	13.2	34-68670
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 13	0.3	0.5	38-68656
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 11, 16 and seal kit			
3 1/2" API reg pin	62	136.4	BG00195819

\*Delivery also includes a spring with part no BG00348123.

## Bit shank

M60



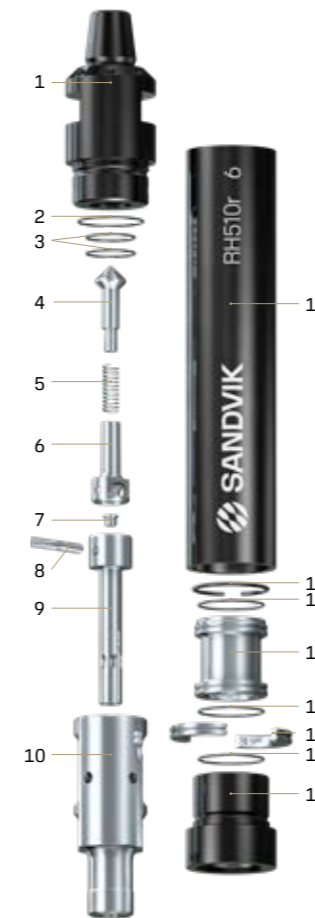
## RH510r 6 (#28 Cubex)

## Complete hammer

RH510r 6" Hammer #28 Cubex pin

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, m <sup>3</sup> /min (DIN1343)							
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 (triple lead thread)			
#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	0.3	0.7	25-99002A*
5. Check valve spring	0.02	0.04	BG00348123
6. Check valve guide	0.3	0.7	39-68001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99013
9. Feed tube with blank choke	1	2.2	37-68601A
10. Piston	18	39.6	BG00210384
11. Piston case	33	72.6	BG00143988
12. Piston retainer ring	0.1	0.2	23-99028
13. O-rings - guide sleeve and bit retainer ring			In seal kit
14. Guide sleeve	4	8.8	26-68J10A
15. Bit retainer ring	1	2.2	27-68006A
16. Driver sub (triple lead thread)	6	13.2	34-68670
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 13	0.3	0.5	38-68656
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 11, 16 and seal kit			
#28 Cubex pin	62	136.4	BG00474776

\*Delivery also includes a spring with part no BG00348123.

## Bit shank

M60



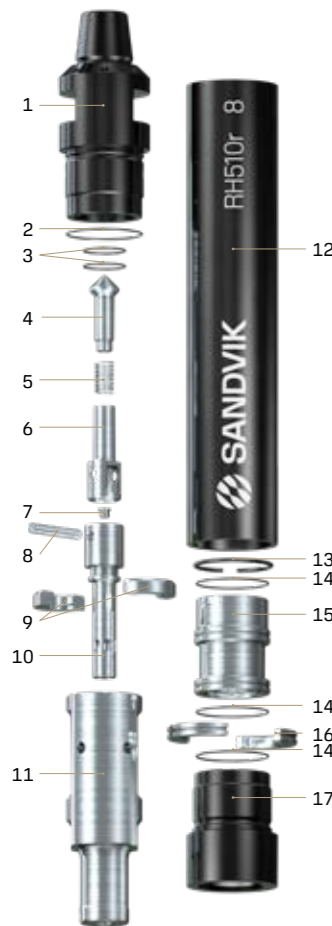
# RH510r 8 (4 1/2 API)

## Complete hammer

RH510r 8" Hammer 4 1/2 API reg pin

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	1,310	51.6	1,354	53.3				
Air consumption, CFM				Air consumption, m <sup>3</sup> /min (DIN1343)									
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 (single lead thread)			
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	0.5	1.1	38-11663A*
5. Check valve spring	0.1	0.2	38-1/1235-073
6. Check valve guide	0.7	1.5	39-88001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99016
9. Tuning ring for low volume (optional)	0.8	1.8	56-88552
10. Feed tube with blank choke	2.2	4.8	37-88001A
11. Piston	42	92.4	BG00473429
12. Piston case	56	123.2	BG00473546
13. Piston retainer ring	0.2	0.4	23-99030
14. O-rings – guide sleeve and bit retainer ring			In seal kit
15. Guide sleeve	11	24.2	26-88J10A
16. Bit retainer ring	1.9	4.2	27-88006A
17. Driver sub (single lead thread)	17	37.4	34-88007
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 14	0.3	0.6	38-88056
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 12, 17 and seal kit			
4 1/2" API reg pin	115	253	BG00478483

\*Delivery also includes a spring with part no 38-1/1235-073.

## Bit shank

M80



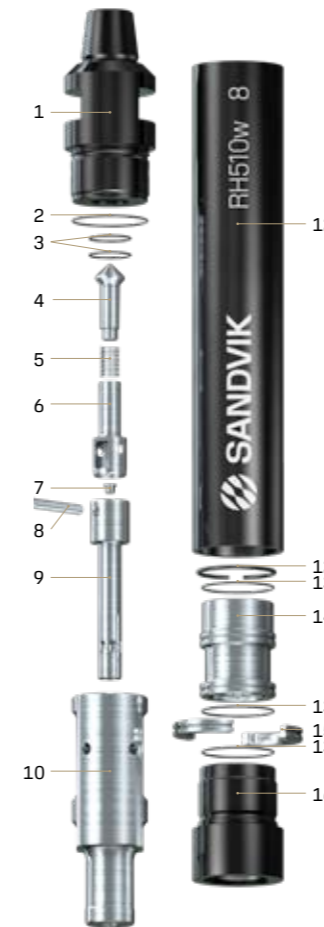
# RH510w 8 (4 1/2 API)

## Complete hammer

RH510w 8" Hammer 4 1/2 API reg pin

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	1,361	53.6	1,405	55.3		
Air consumption, CFM				Air consumption, m <sup>3</sup> /min (DIN1343)							
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 (single lead thread)			
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	0.5	1.1	38-11663A*
5. Check valve spring	0.1	0.2	38-1/1235-073
6. Check valve guide	0.7	1.5	39-88001
7. Choke set, blank 1/8", 3/16", & 1/4"	0.1	0.3	29-68017A
8. Feed tube retainer pin	0.2	0.4	12-99016
9. Feed tube with choke	2.2	4.8	37-88301A
10. Piston	42	92.4	BG00473429
11. Piston case	56	123.2	BG00473706
12. Piston retainer ring	0.2	0.4	23-99030
13. O-rings – guide sleeve and bit retainer ring			In seal kit
14. Guide sleeve	11	24.2	26-88J10A
15. Bit retainer ring	1.9	4.2	27-88006A
16. Driver sub (single lead thread)	17	37.4	34-88007
<b>Seal kit</b>			
1 piece of 2, 2 of 3 and 3 of 13	0.3	0.6	38-88056
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 12, 16 and seal kit			
4 1/2 API reg pin	115	253	BG00478484

\*Delivery also includes a spring with part no 38-1/1235-073.

## Bit shank

M80





# Reliable performance with a solid design

The Sandvik RH460 hammer series is meticulously refined and holds a well-established reputation for its solid reliability, performance, and productivity across diverse ground conditions. Engineered to operate at 24 bar (350 psi), these hammers are capable of drilling in any direction.

Key features include:

- Utilization of industry-standard shank
- superior reliability
- Enhanced air cycle optimization

RH460 4 hammer (2 3/8 API)	64
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## RH460 4 (2 3/8 API)

### Complete hammer

RH460 4" Hammer 2 3/8 API reg pin

32-4640-STA-16S

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, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
2 3/8 API reg pin	8.2	18	BG00014822
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.2	0.5	BG00320005
4. Check valve spring	0.02	0.04	BG00876172
5. Make up ring	0.1	0.2	BG00014825
6. Air distributor	2	4.4	BG00056811
7. O-ring air distributor			In seal kit
8. Inner cylinder	2.1	4.6	BG00110688
9. Piston QLX40	7.7	16.9	BG00242889
10. Piston case	15.4	33.9	BG00050403
11. Piston retainer ring	0.1	0.2	BG00014819
12. Bit retainer ring	0.2	0.4	BG00059039
13. O-ring bit retainer ring			In seal kit
14. Driver sub (double lead thread)	2.8	6.2	BG00058997
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.2	0.5	BG00119068
Driver sub hard faced QLX40	2.8	6.2	BG00242001
<b>Seal kit</b>			
1 piece of 2, 7 and 13	0.02	0.04	BG00014848
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 14 and seal kit			
2 3/8 API reg pin	27	59.4	BG00242267

### Bit shank

QLX40



## RH460 4 (#24 Cubex)

### Complete hammer

RH460 4" Hammer #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, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
#28 Cubex pin	7.9	17.4	BG00166404
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.2	0.5	BG00320005
4. Check valve spring	0.02	0.04	BG00876172
5. Make up ring	0.1	0.2	BG00014825
6. Air distributor	2	4.4	BG00056811
7. O-ring air distributor			In seal kit
8. Inner cylinder	2.1	4.6	BG00110688
9. Piston QLX40	7.7	16.9	BG00242889
10. Piston case	15.4	33.9	BG00050403
11. Piston retainer ring	0.1	0.2	BG00014819
12. Bit retainer ring	0.2	0.4	BG00059039
13. O-ring bit retainer ring			In seal kit
14. Driver sub (double lead thread)	2.8	6.2	BG00058997
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.02	0.04	BG00015430
Check valve dart with choke hole	0.2	0.5	BG00119068
Driver sub hard faced QLX40	2.8	6.2	BG00242001
<b>Seal kit</b>			
1 piece of 2, 7 and 13	0.02	0.04	BG00014848
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 14 and seal kit			
2 3/8 API reg pin	27	59.4	BG00242267

### Bit shank

QLX40



## RH460 5 (3 1/2 API)

## Complete hammer

RH460 5" 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, m <sup>3</sup> /min (DIN1343)				Power output (kW)		
150 psi		250 psi	350 psi	10 bar	18 bar	24 bar	24 bar		
275	275	756		7.8	15.4	21.4	32.3		



Replacement parts item description	Weight, kg	Weight, lb	Part no.
1. Top sub (double lead thread)			
3 1/2 API reg pin	14.8	32.6	BG00014995
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.5	1	BG00319921
4. Check valve spring	0.03	0.07	BG00854876
5. Make up ring	0.2	0.4	BG00014994
6. Air distributor	3.6	7.9	BG00014996
7. O-ring air distributor			In seal kit
8. Inner cylinder	4.2	9.2	BG00025161
9. Piston	14.3	31.5	BG00062889
10. Piston case	22	48.4	BG00014999
11. Piston retainer ring	0.1	0.2	BG00014998
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1	2.2	BG00014988
14. Bit retainer ring	0.4	0.9	BG00014989
15. O-ring bit retainer ring			In seal kit
16. Driver sub (double lead thread)	5	11	BG00014993
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.4	0.9	BG00014985
Driver sub hard faced	5	11	BG00162923
<b>Seal kit</b>			
1 piece of 2, 7, 15 and 2 of 12	0.02	0.04	BG00014848
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 16 and seal kit			
3 1/2 API reg pin	41.5	91.3	BG00081790

## Bit shank

QL50



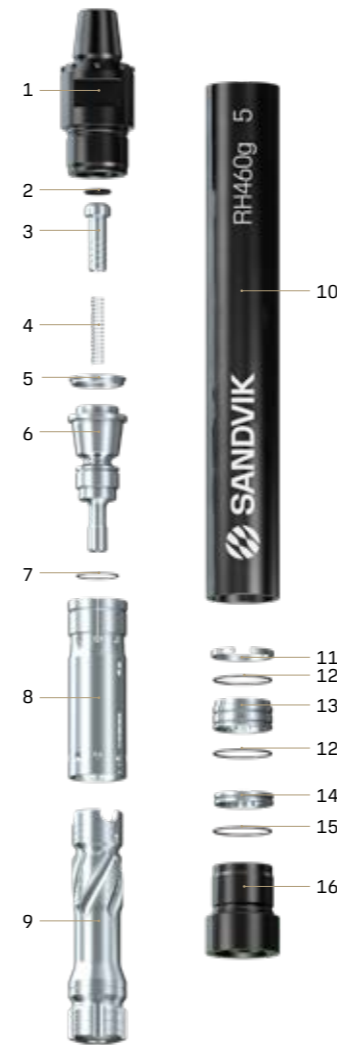
## RH460g 5 (3 1/2 API)

## Complete hammer

RH460g 5" Hammer 3 1/2 API reg pin

32-4655-GQA-04C

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, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
3 1/2 API reg pin	15.5	34.1	BG00068455
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.5	1	BG00319921
4. Check valve spring	0.03	0.07	BG00854876
5. Make up ring	0.2	0.4	BG00014994
6. Air distributor	3.6	7.9	BG00014996
7. O-ring air distributor			In seal kit
8. Inner cylinder	4.2	9.2	BG00025161
9. Piston	14.3	31.5	BG00062889
10. Piston case	30	66	BG00068439
11. Piston retainer ring	0.1	0.2	BG00014998
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1	2.2	BG00014988
14. Bit retainer ring	0.4	0.9	BG00014989
15. O-ring bit retainer ring			In seal kit
16. Driver sub hard faced (double lead thread)	5.5	12.1	BG00068435
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.4	0.9	BG00014985
<b>Seal kit</b>			
1 piece of 2, 7, 15 and 2 of 12	0.01	0.02	BG00015014
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 16 and seal kit			
3 1/2 API reg pin	51	112	BG00081817

## Bit shank

QL50



# RH460g 5 (#24 Cubex)

## Complete hammer

RH460g 5" Hammer #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
66	145	120	4.7	1,067	42	1,156	45.5	1,185	46.7
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
#24 Cubex pin	13.5	29.7	BG00166404
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.5	1	BG00319921
4. Check valve spring	0.03	0.07	BG00854876
5. Make up ring	0.2	0.4	BG00014994
6. Air distributor	3.6	7.9	BG00014996
7. O-ring air distributor			In seal kit
8. Inner cylinder	4.2	9.2	BG00025161
9. Piston	14.3	31.5	BG00062889
10. Piston case	30	66	BG00068439
11. Piston retainer ring	0.1	0.2	BG00014998
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	1	2.2	BG00014988
14. Bit retainer ring	0.4	0.9	BG00014989
15. O-ring bit retainer ring			In seal kit
16. Driver sub hard faced (double lead thread)	5.5	12.1	BG00068435
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00015430
Check valve dart with choke hole	0.4	0.9	BG00014985
<b>Seal kit</b>			
1 piece of 2, 7, 15 and 2 of 12	0.01	0.02	BG00015014
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 16 and seal kit			
3 1/2 API reg pin	51	112	BG00081817

## Bit shank

QL50



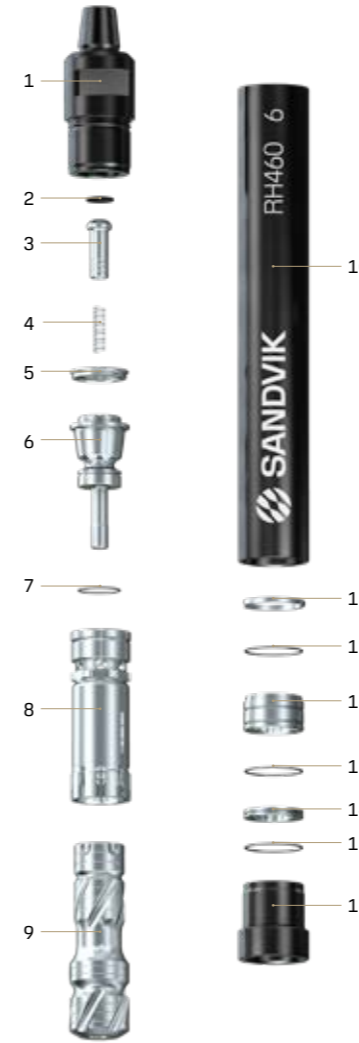
# RH460 6 (3 1/2 API)

## Complete hammer

RH460 6" Hammer 3 1/2 API reg pin

32-4660-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
100	220	142	5.6	1,155	45.5	1,263	49.7	1,304	51.3
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
3 1/2 API reg pin	24	52.8	BG00014888
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.7	1.5	BG00321398
4. Check valve spring	0.1	0.2	BG00854872
5. Make up ring	0.4	0.9	BG00014865
6. Air distributor	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	32.4	71.3	BG00054318
11. Piston retainer ring	0.1	0.2	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	2.3	5.1	BG00055719
14. Bit retainer ring	0.6	1.3	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub hard faced (double lead thread)	6.5	14.3	BG00014887
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.7	1.5	BG00014869
Driver sub hard faced	6.5	14.3	BG00242302
<b>Seal kit</b>			
1 piece of 2, 7, 15 and 2 of 12	0.01	0.02	BG00015014
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 16 and seal kit			
3 1/2 API reg pin	63	139	BG00240392

## Bit shank

QL60



## RH460g 6 (3 1/2 API)

## Complete hammer

RH460g 6" Hammer 3 1/2 API reg pin

32-4665-GQA-04C

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
117	257	150	5.9	1,155	45.5	1,263	49.7	1,304	51.3
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)			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 (double lead thread)			
3 1/2 API reg pin	25.4	55.9	BG00224812
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.7	1.5	BG00321398
4. Check valve spring	0.03	0.07	BG00854872
5. Make up ring	0.4	0.9	BG00014865
6. Air distributor	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	46.4	102	BG00224808
11. Piston retainer ring	0.1	0.2	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	2.3	5.1	BG00055719
14. Bit retainer ring	0.6	1.3	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub (double lead thread)	7.2	15.8	BG00224798
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.7	1.5	BG00014869
<b>Seal kit</b>			
1 piece of 2, 7, 15 and 2 of 12	0.01	0.02	BG00015014
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 16 and seal kit			
3 1/2 API reg pin	79	174	BG00240400

## Bit shank

QL60



## RH460g 6 (#28 Cubex)

## Complete hammer

RH460g 6" Hammer #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, m <sup>3</sup> /min (DIN1343)			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 (double lead thread)			
#28 Cubex pin	26	57.2	BG00237751
2. O-ring check valve dart			In seal kit
3. Check valve dart no choke	0.7	1.5	BG00321398
4. Check valve spring	0.03	0.07	BG00854872
5. Make up ring	0.4	0.9	BG00014865
6. Air distributor	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	46.4	102	BG00224808
11. Piston retainer ring	0.1	0.2	BG00055711
12. O-ring guide sleeve			In seal kit
13. Guide sleeve	2.3	5.1	BG00055719
14. Bit retainer ring	0.6	1.3	BG00014871
15. O-ring bit retainer ring			In seal kit
16. Driver sub (double lead thread)	7.2	15.8	BG00224798
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.7	1.5	BG00014869
<b>Seal kit</b>			
1 piece of 2, 7, 15 and 2 of 12	0.01	0.02	BG00015014
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 10, 16 and seal kit			
3 1/2 API reg pin	79	174	BG00240400

## Bit shank

QL60



# RH460 8 (4 1/2 API)

## Complete hammer

RH460 8" Hammer 4 1/2 API reg pin

32-4680-SQA-19S

Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
213	469	183	7.20	1,426	56.1	1,566	61.7	1,608	63.3
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
4 1/2 API reg pin	55	121	BG00096730
2. Check valve dart no choke	0.8	1.8	BG00321984
3. Check valve spring	0.04	0.09	BG00652827
4. Make up ring	0.4	0.9	BG00015380
5. Air distributor	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	64	141	BG00057909
10. Piston retainer ring	0.2	0.4	BG00096748
11. Guide sleeve			In seal kit
12. O-ring guide sleeve	3	6.6	BG00096749
13. Bit retainer ring	1.4	3.1	BG00096752
14. Driver sub (double lead thread)	13.6	29.9	BG00096753
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.8	1.8	BG00015375
Driver sub hard faced	13.6	29.9	BG00367978
<b>Seal kit</b>			
1 piece of 7 and 12	0.01	0.02	BG00303706
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 9, 14 and seal kit			
4 1/2 API reg pin	134	295	BG00305733

## Bit shank

QL80



# RH460g 8 (4 1/2 API)

## Complete hammer

RH460g 8" Hammer 4 1/2 API reg pin

32-4685-GQA-19C

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, m <sup>3</sup> /min (DIN1343)				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 (double lead thread)			
4 1/2 API reg pin	57	125	BG00365764
2. Check valve dart no choke	0.8	1.8	BG00321984
3. Check valve spring	0.04	0.09	BG00652827
4. Make up ring	0.4	0.9	BG00015380
5. Air distributor	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	94.2	207	BG00278268
10. Piston retainer ring	0.2	0.4	BG00096748
11. Guide sleeve	3	6.6	BG00096749
12. O-ring guide sleeve	1.4	3.1	BG00096752
13. Bit retainer ring			In seal kit
14. Driver sub (double lead thread)	15.9	35	BG00303677
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.8	1.8	BG00015375
<b>Seal kit</b>			
1 piece of 7 and 12	0.01	0.02	BG00303706
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 9, 14 and seal kit			
4 1/2 API reg pin	168	370	BG00367721

## Bit shank

QL80



# RH460g 8 (4 1/2 BECO)

**Complete hammer**

RH460g 8" Hammer 4 1/2 BECO pin

32-4685-GQA-72C

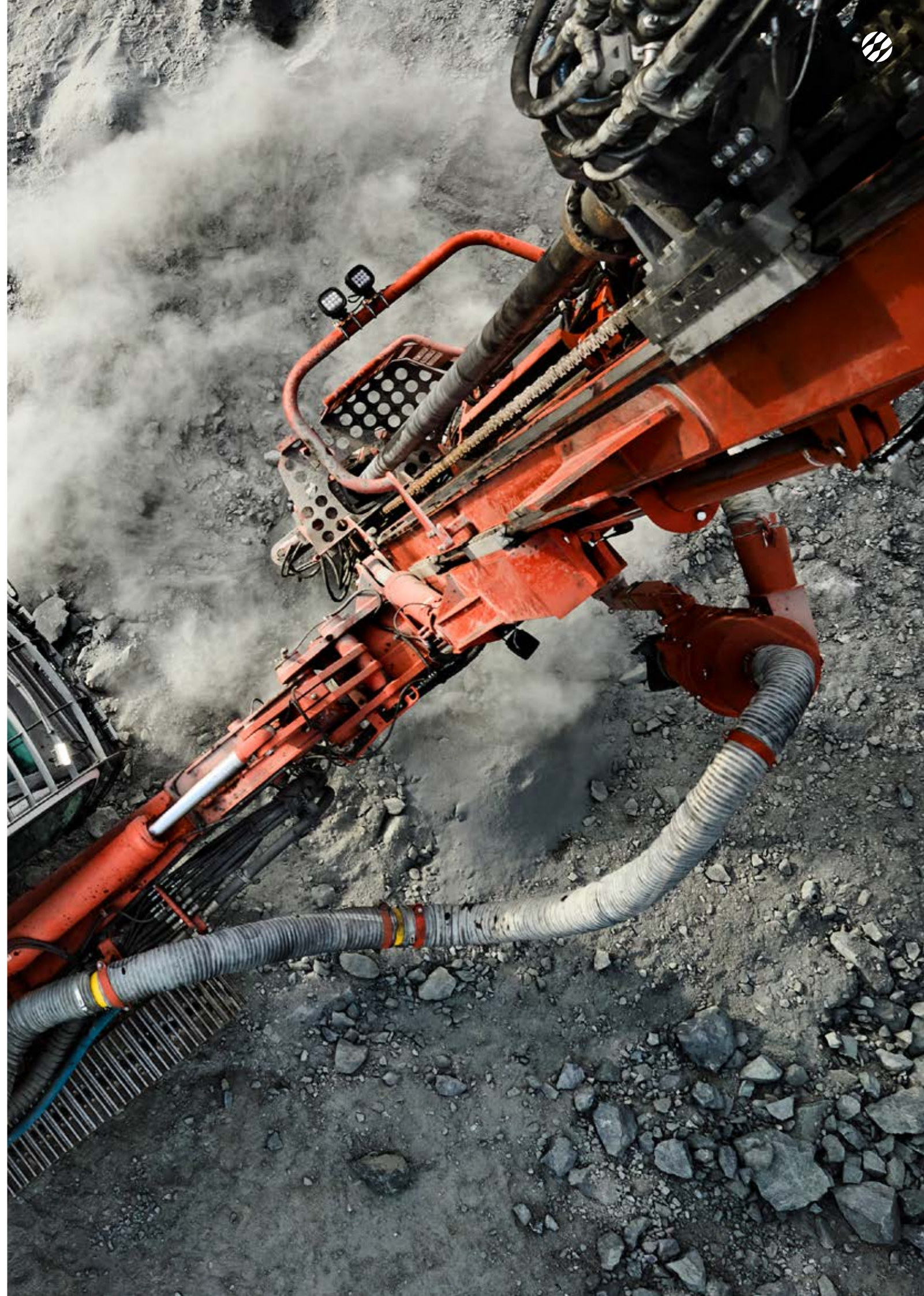
Weight		Outside diameter		Hammer length		Hammer length with bit			
						Bit closed		Bit extended	
kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
244	537	194	7.6	1,426	56.1	1,566	61.7	1,608	63.3
Air consumption, CFM			Air consumption, m <sup>3</sup> /min (DIN1343)			Power output (kW)			
150 psi	250 psi	350 psi	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 (double lead thread)			
4 1/2 BECO pin	57	125	BG00278298
2. Check valve dart no choke	0.8	1.8	BG00321984
3. Check valve spring	0.04	0.09	BG00652827
4. Make up ring	0.4	0.9	BG00015380
5. Air distributor	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	94.2	207	BG00278268
10. Piston retainer ring	0.2	0.4	BG00096748
11. Guide sleeve	3	6.6	BG00096749
12. O-ring guide sleeve	1.4	3.1	BG00096752
13. Bit retainer ring			In seal kit
14. Driver sub (double lead thread)	15.9	35	BG00303677
<b>Optional</b>			
Choke set, blank, 3 mm, 4.5 mm and 6 mm	0.01	0.02	BG00081800
Check valve dart with choke hole	0.8	1.8	BG00015375
<b>Seal kit</b>			
1 piece of 7 and 12	0.01	0.02	BG00303706
<b>Rebuild kit</b>	0.1	0.2	
1 piece of 1, 9, 14 and seal kit			
4 1/2 API reg pin	168	370	BG00367721

**Bit shank**

QL80





# Invest in long-term drilling capacity

All drill bits are fitted with our PowerCarbide® or 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.

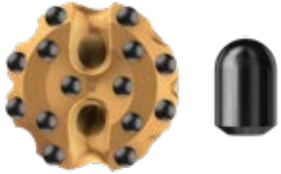
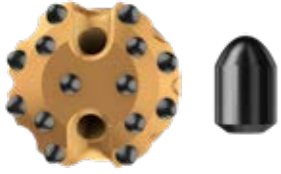
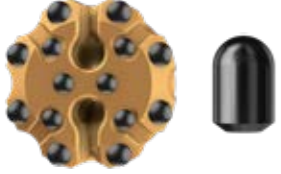
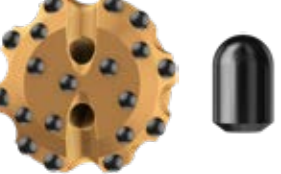
#### Optimized cutting structure

Gives good penetration and bit life in all rock formations.

DTH bits / Malleo™ 570-3.5	78
DTH bits / Malleo™ 570-4.5	79
DTH bits / Malleo™ 570-5.5	80
DTH bits / Malleo™ 570-6.5	81
DTH bits / Malleo™ 570-9.5	82
DTH bits / 560-3.5	84
DTH bits / 560-4	85
DTH bits / 560-5	86
DTH bits / 560-6	87
DTH bits / M30	89
DTH bits / M40	89
DTH bits / M50	90
DTH bits / M60	91
DTH bits / M80	92
DTH bits / QLX40	93
DTH bits / QL50	94
DTH bits / QL60	95
DTH bits / QL80	96
Hole openers	97
DTH tubex systems	98

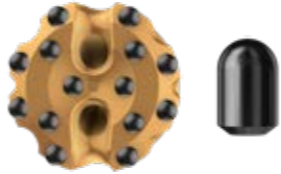
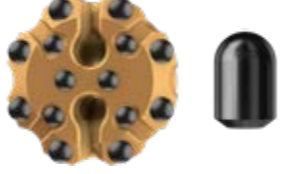


## DTH bits/Malleo™ 570-3.5 shanks

Sandvik Malleo™ RH570	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>Malleo™ 570-3.5 bits</b>									
Concave face / Spherical button									
	105	4 1/7	2	8	13	12	5.9	13.1	42-3K13105-S69
Convex face / Ballistic button									
	95	3 3/4	2	8	12	12	5.3	11.7	42-3K51095-R69
	100	4	2	8	13	12	5.5	12.2	42-3K53100-R69
	110	4 1/3	2	8	14	14	6.1	13.5	42-3K5B110-R69
Flat face / Spherical button									
	100	4	2	8	13	12	5.7	12.6	42-3KF3100-S69
	105	4 1/7	2	8	13	13	5.9	13.1	42-3KF4105-S69
Convex face / Spherical button									
	105	4 1/7	2	8	13	13	5.9	13.0	42-3K54105-S69

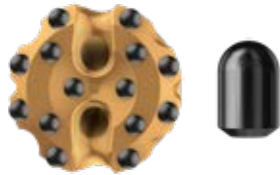
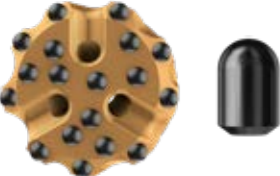
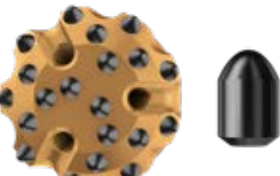
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/Malleo™ 570-4.5 shanks

Sandvik Malleo™ RH570	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>Malleo™ 570-4.5 bits</b>									
Concave face / Spherical button									
	115	4 1/2	2	8	14	13	8.8	19.4	42-4K1A115-S69
	121	4 3/4	2	8	14	13	9.3	20.5	42-4K1A121-S69K
	127	5	2	8	14	13	9.3	20.5	42-4K1A127-S69K
	127	5	2	8	14	13	9.3	20.5	42-4K1A127-S69
	152	6	2	8	16	13	11.9	26.3	42-4K18152-S69
Flat face / Spherical button									
	116	4 4/7	2	8	16	13	9.3	20.5	42-4KW8116-S69K
	140	5 1/2	2	8	16	14	10.7	23.6	42-4KF9140-S69


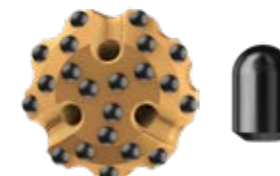
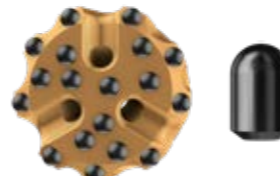

For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/Malleo™ 570-5.5 shanks

Sandvik Malleo™ RH570	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>Malleo™ 570-5.5 bits</b>									
Concave face / Spherical button									
	140	5 1/2	2	8	16	14	14.1	31.2	42-5K19140-S69
	165	6 1/2	2	8	18	16	16.1	35.5	42-5K1D165-S69
Flat face / Spherical button									
	140	5 1/2	3	9	16	14	14.3	31.5	42-5K29140-S69
	152	6	3	9	18	16	16.1	35.5	42-5K2D152-S69
Convex face / Ballistic button									
	140	5 1/2	3	9	16	16	14.6	32.2	42-5KLC140-R55

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

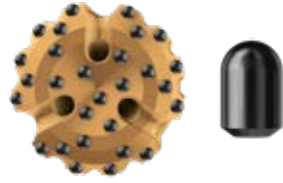
## DTH bits/Malleo™ 570-6.5 shanks

Sandvik Malleo™ RH570	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>Malleo™ 570-6.5 bits</b>									
Concave face / Spherical button									
	165	6 1/2	3	9	16	16	22.6	49.8	42-6KDC165-S69
	165	6 1/2	3	9	18	18	23.3	51.4	42-6KDE165-S69
	172	6 7/9	3	9	18	18	24.1	53.1	42-6KDE172-S69
Convex face / Spherical button									
	172	6 7/9	3	9	18	18	22.7	50.0	42-6KGE172-S69H
	172	6 7/9	3	9	18	18	24.2	53.3	42-6KGE172-W55
Flat face / Spherical button									
	165	6 1/2	3	9	18	18	23.6	52.0	42-6K2E165-S69
Bulldog / Spherical button									
	165	6 1/2	2	10	18	16	22.2	48.9	42-6KED165-S69
	165	6 1/2	2	10	18	16	22.2	48.9	42-6KED165-S69K
	172	6 7/9	2	10	18	16	24.0	52.8	42-6KED172-S69

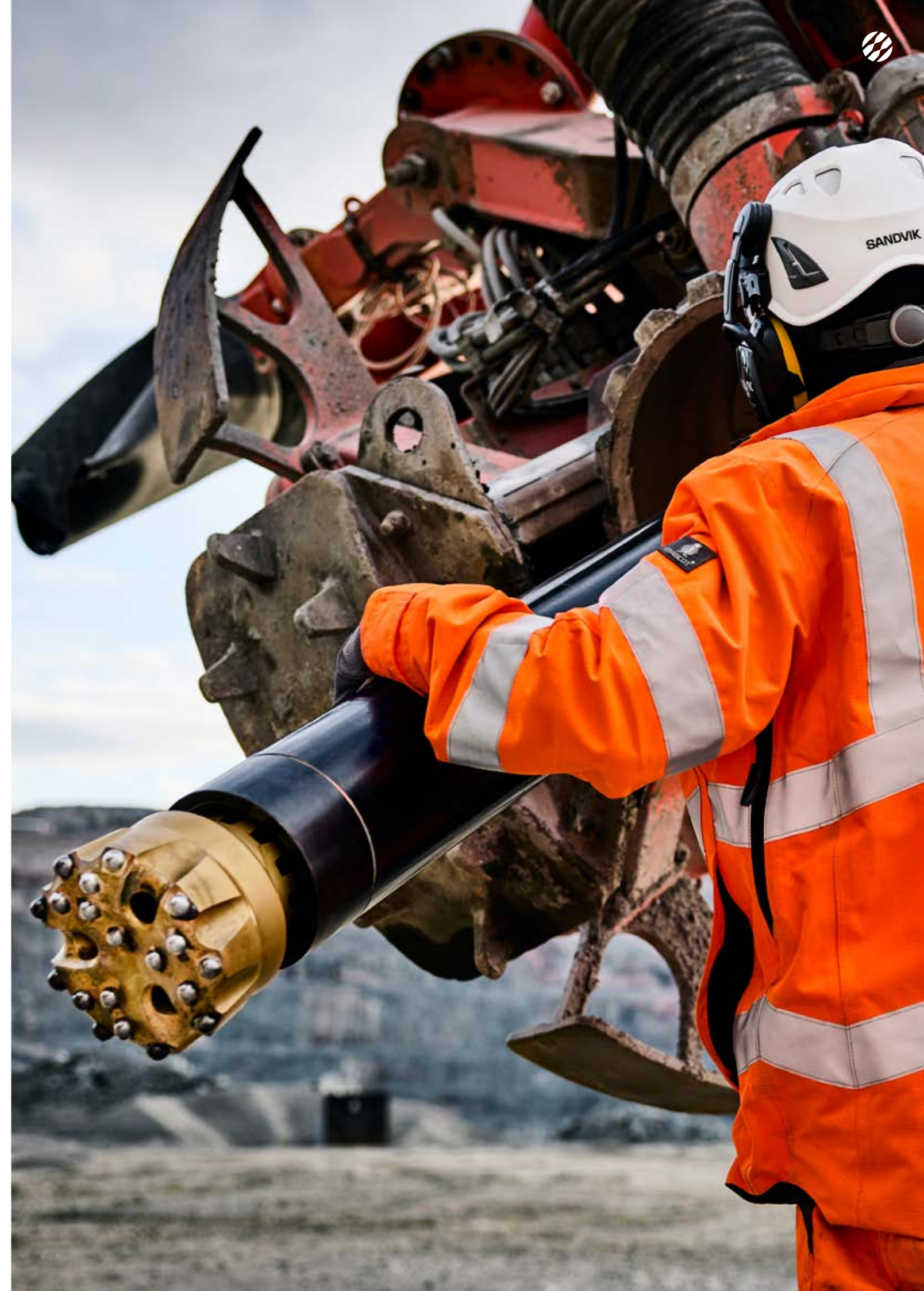
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/Malleo™ 570-9.5 shanks

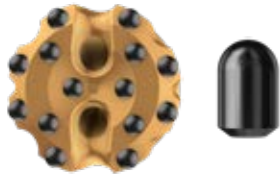
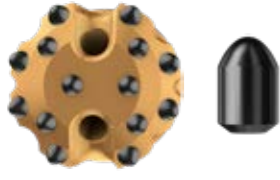
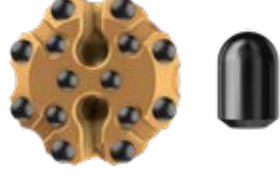
Sandvik Malleo™ RH570	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>Malleo™ 570-9.5 bits</b>									
Concave face / Spherical button									
	254	10	3	15	22	18	57.7	127.2	42-9KVL254-S55



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

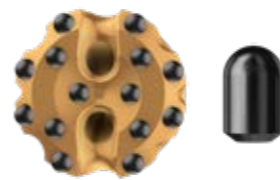
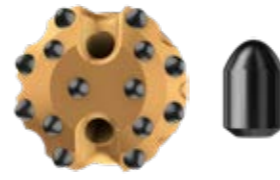
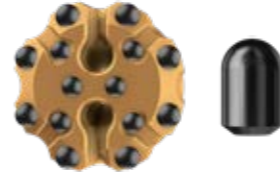
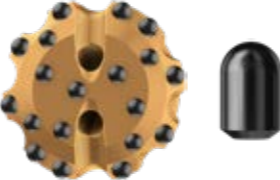


## DTH bits / 560-3.5 shanks

Sandvik RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>560-3.5 bits</b>									
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

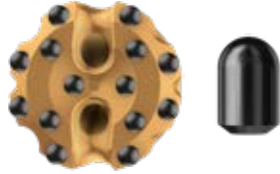
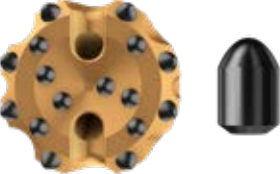
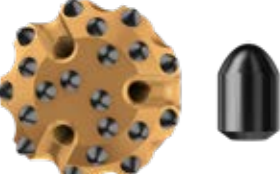
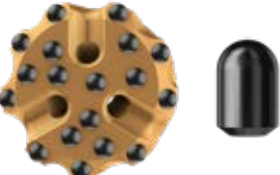
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits / 560-4 shanks

Sandvik RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>560-4 bits</b>									
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


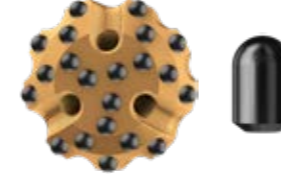
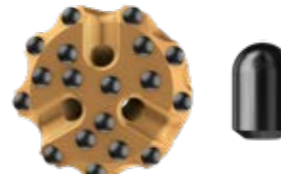
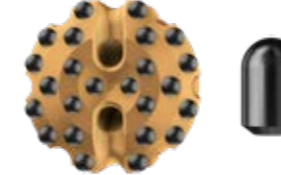
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/560-5 shanks

Sandvik RH560	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>560-4 bits</b>									
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 catalog. 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	
<b>560-6 bits</b>									
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 catalog. Please read the specifications of every part number to get more details.

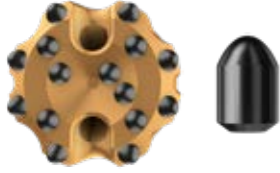
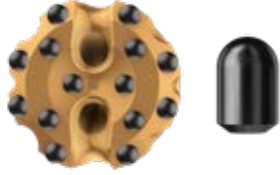

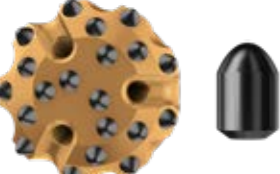
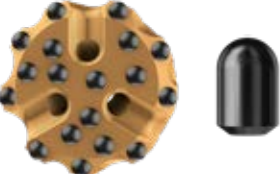


## DTH bits/M shanks

Sandvik RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>M30</b>									
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
	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
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
	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
<b>M40</b>									
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
	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	42-481B133-S48
	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	42-481B133-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
	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
	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

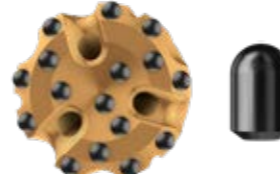
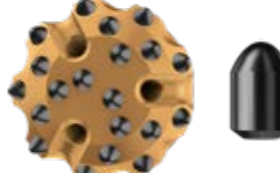
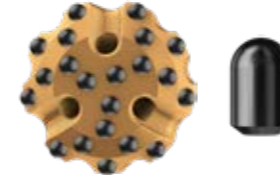
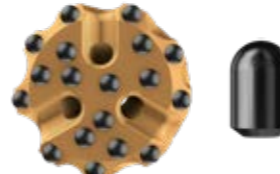
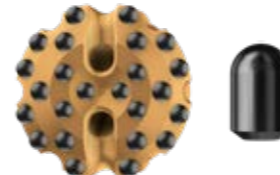
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/M shanks

Sandvik RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>M50</b>									
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

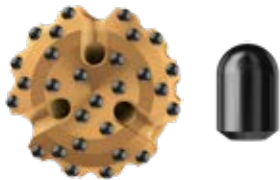
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/M shanks

Sandvik RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>M60</b>									
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

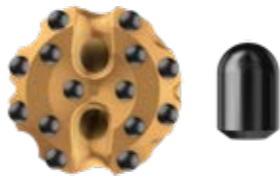
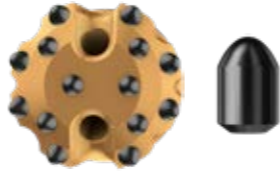
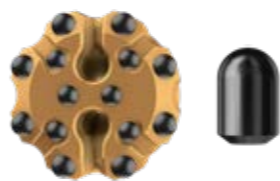

For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/M shanks

Sandvik RH510	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>M80</b>									
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

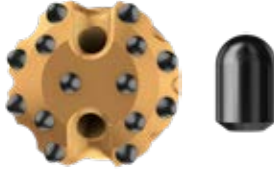
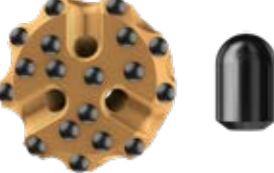

For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/QLX40 shanks

Sandvik RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>QLX40</b>									
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									
							0.04	0.09	47-4G017



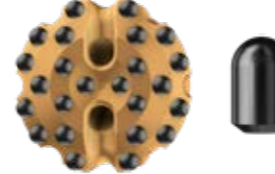

For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/QL50 shanks

Sandvik RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>QL50</b>									
Convex face / Ballistic 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									
							0.06	0.13	47-50017

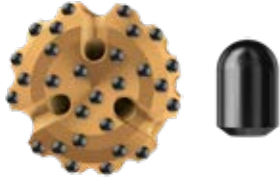
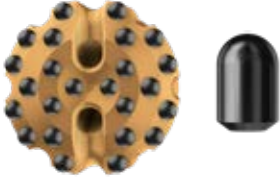

For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/QL60 shanks

Sandvik RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>QL60</b>									
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									
							0.09	0.19	47-76017

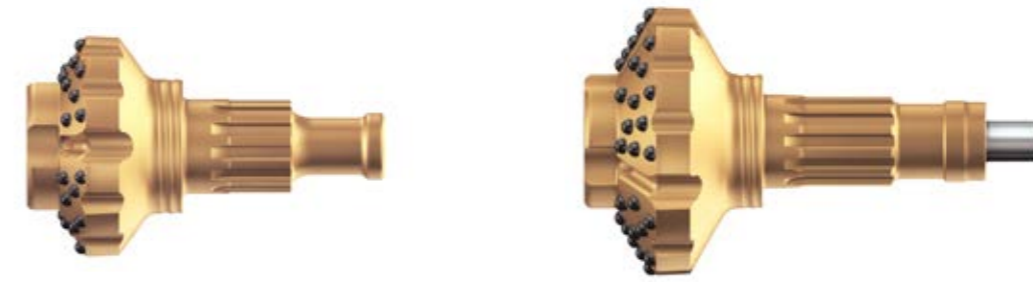
For all the bit pages, a generic bit front design has been used in our catalog. Please read the specifications of every part number to get more details.

## DTH bits/QL80 shanks

Sandvik RH460	Diameter		Air holes	Gauge buttons	Button dia. mm		Weight		Part No.
	mm	inch			gauge	front	kg	lb	
<b>QL80</b>									
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 face / 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									
							0.13	0.28	47-83017

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

## Hole openers



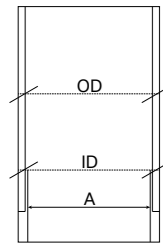
For further information, please contact your nearest Sandvik Mining and Rock Solutions representative for a quote and delivery time.

# 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	Weight	Part no.
			(Kg)	(lbs)	
XL-90	Guide device	DHD3,5 (Foot valve, 47-24017)	7	15,4	80-2400-090D
	Pilot bit	1/8, 12/12, CV, DP® 65	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, DP® 65	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

Tubex	Part	Description	Weight	Weight	Part no.
			(Kg)	(lbs)	
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, DP® 65	11	24,2	81-140A-140A65
	Eccentric reamer		4	8,8	82-140A-189W65
	Casing shoe		2,4	5,3	84-140D-00
	Locking kit		0,5	1	85-140A-KT
XL-165	Guide device	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, DP® 65	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, DP® 65	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, DP® 65	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, DP® 65	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, DP® 65	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

**The right drill string for all your needs**

**Sandvik drill pipes**

**Sandvik RP550 shock absorber**

**Reduce the impact of your drilling**

102

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# The right drill string for all your needs

## Engineered for efficiency

Our DTH drill string products and services maximize productivity and minimize operating costs. Longer tool service life means less downtime for you.

## High performance for application excellence

Our high-performance drill string components withstand extreme torsional and axial loads, efficiently handling the hard rock and abrasive formations in surface mines.

### We offer:

- Extensive in-house engineering expertise
- Leading technology and intellectual property developments
- State-of-the-art manufacturing with premium quality materials
- Certified quality process with rigorous product testing
- Efficient and reliable delivery times
- A thorough understanding of drilling and applications

## High quality assurance standards

Our Quality Assurance program is committed to maintaining the highest standards in our manufacturing process, delivering only superior products.

- Stringent material specifications and verification
- Welding process control and ultrasonic weld inspection
- Precise pipe straightness specifications and verification
- Thorough inspections and product testing by highly skilled product specialists
- Raw material traceability

## Materials and reliability testing

Our engineers are industry-leading materials experts who excel in the science of maximizing product reliability at materials and reliability labs in key locations around the world.



Shock absorber

Top sub

Premium drill pipe

Hammer

DTH bit





# RP550 shock absorber



## Reduce the impact of your drilling

With RP550 shock absorber, your Down-The-Hole drilling tools will have longer service life, lower cost per meter and - thanks to the new design features - greatly improved safety.

The shock absorber plays a crucial role in your drilling operations. By reducing shock and vibration, it saves the drill rigs rotary head, enhances performance and provides a much smoother drilling operation.

### Maximum value and improved safety

- Absorbs shock up to 85%
- Floating cushion for vibration reduction
- Reduce damage to rotary head, rig and drilling tools
- Evens out pressure on the drill bit
- Full seal and maintenance free - no greasing during operation
- Longer service life and fewer tool changes for safer handling
- Better CPM and overall drilling economy compared to drilling without shock absorber

Durable housing

Dual seal system

Floating stem

Pin adaptor

High density polymer  
cushion to absorb shocks





# Accessories

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

Products and tools for safe and efficient work	110
Rock drill performance fluids	114



# 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

Bit lifters					
Hammer	Description	Weight		Part no.	
		kg	lb		
RH570-6.5"	570-6.5	3.7	8.2	BG00880852	
RH460-8"	QL80	4.2	9.2	BG00880289	
RH570-9.5"	570-9.5	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"	(Triple 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"	32-5635-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	
RH570-3.5"	32-5735-SFA-XXX	2.9	6.4	BG01037472	
RH570-4.5"	32-5745-XFA-XXX	4.3	9.5	BG00909479	
RH570-5.5"	32-5755-SFA-XXX	6.7	14.8	BG00909469	
RH570-6.5"	32-5765-SFA-XXX	8.6	19	BG00909469	
RH570-6.5" DLT	32-5765-SFC-XXX	8.6	19	BG00810644	
RH570-9"	32-579X-XFA-XXX	24.2	53.4	BG00909116	



Foot valve assembly tool



Foot valve disassembly tool



Bit assembly tool



Driver sub lifter

## 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

Hammer	Hammer code	Part no.	
RH560-5.5"	32-5655-GQX-XXX	BG01683534	
RH560-6.5"	32-5665-GQX-XXX	BG01683377	
RH570-5.5"	32-5765-SFX-XXX	BG02034050	
RH570-6.5"	32-5765-SFX-XXX	BG02034052	

## Driver sub lifters

Hammer	Hammer code	Weight	Part no.	
		kg	lb	
RH460-8"	32-468X-XXA-XXX	4.8	10.6	BG00668428
RH570-9.5"	32-5665-XRA-XXX	4.8	10.6	BG00821070



Hammer lifting bail

**Hammer lifting bail 3,600 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"	(Triple 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"	32-5635-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
RH570-3.5"	32-5735-SFA-XXX	5.8	12.9	BG01669911
RH570-4.5"	32-5745-XFA-XXX	7.2	15.9	BG00995594
RH570-5.5"	32-5755-SFA-XXX	10.4	22.9	BG01670792
RH570-6.5"	32-5765-SFA-XXX	12.3	27.1	BG01671039
RH570-6.5" DLT	32-5765-SFC-XXX	12.3	27.1	BG01671397
RH570-9"	32-579X-XFA-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



Hammer service kit



Grinding templates



# Rock drill performance fluids

The correct lubrication oil for a DTH hammer should be specifically formulated for pneumatic tools that operate under harsh mining conditions. High-quality oils contain additives that enhances the tools' abilities to withstand high pressure, rapid impact motion and exposure to moisture.

When selecting a lubrication oil, always make sure to align with our viscosity recommendations based on ambient temperature to achieve optimal hammer performance. The different viscosity classes for colder and warmer climates, ease the service life of your rock tools and maximize your return on investment.

## Recommended oils for DTH hammers

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Sandvik OS

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Fuchs Rockdrill

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Mobil Almo

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Shell Air Tool Oil S2

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Energol RDE

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Esso Arox EP

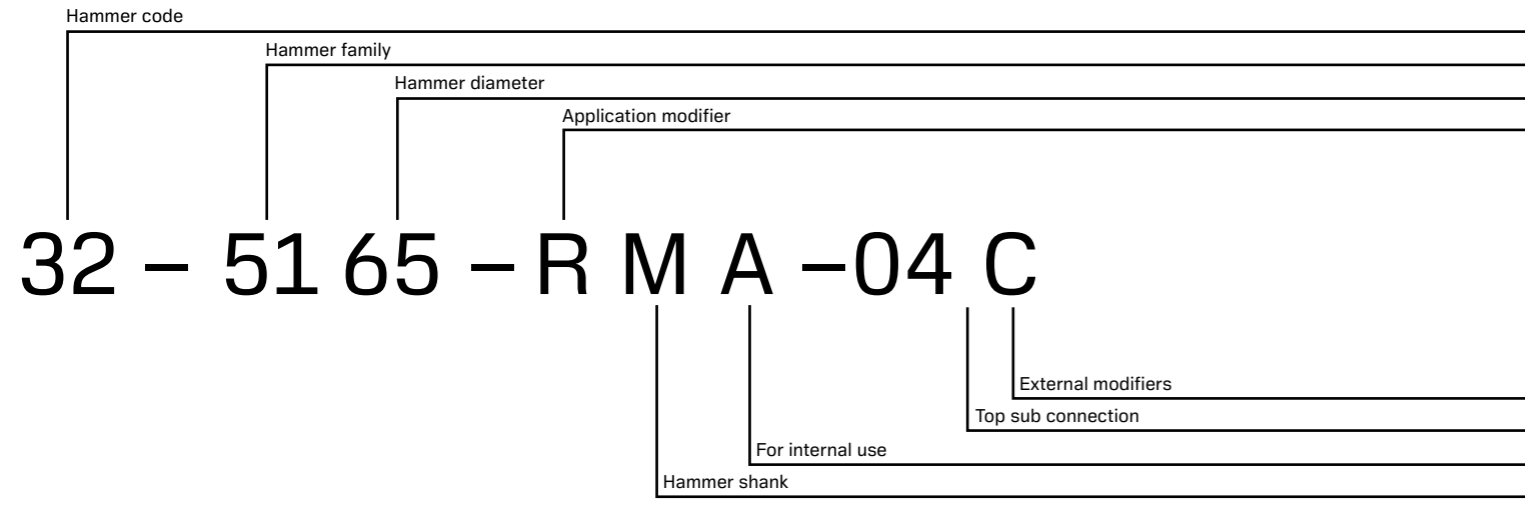
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OMW Air

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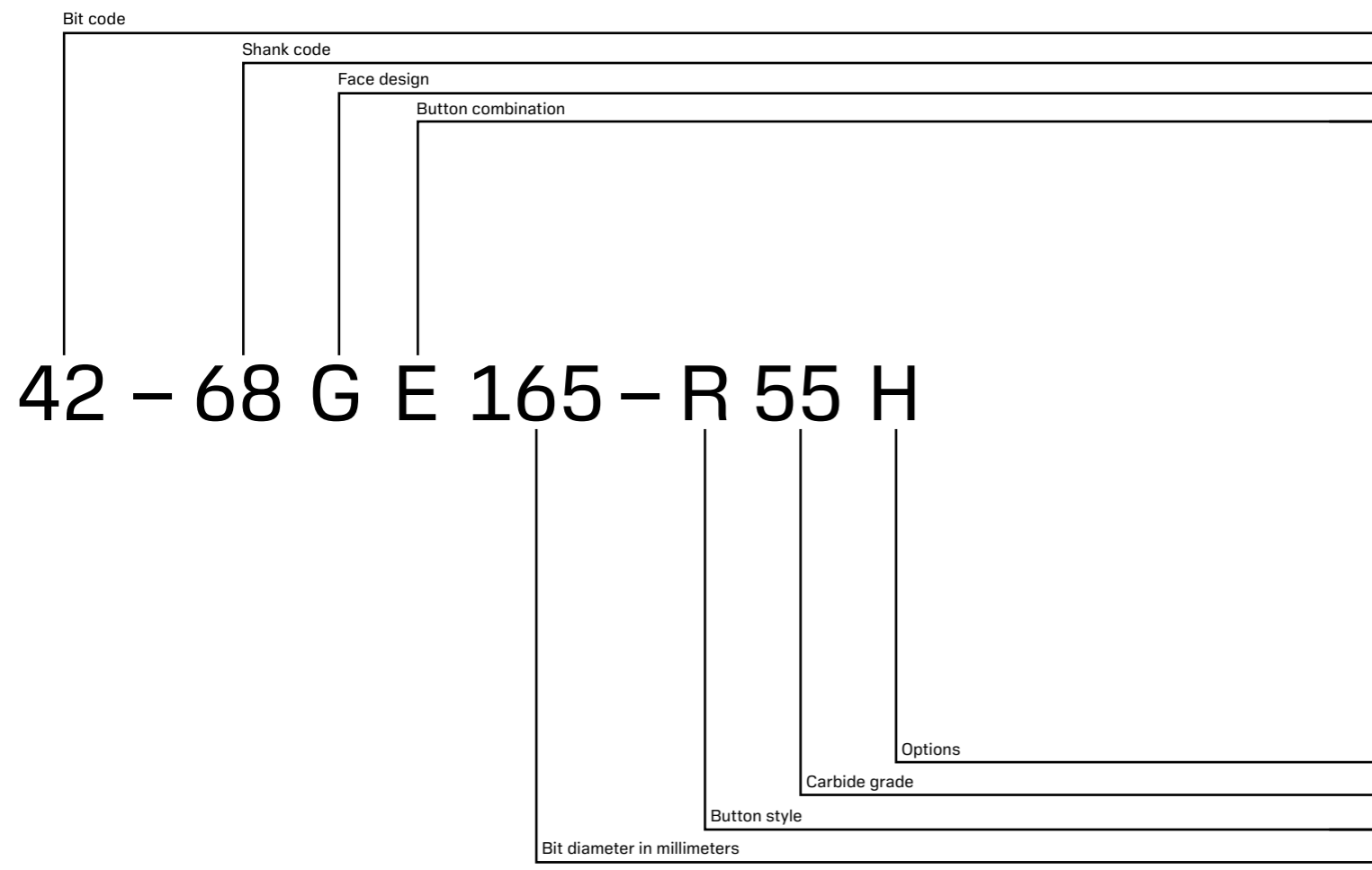
# Hammers



# Part no. keys

Application modifier	Hammer diameter	Hammer family	External modifiers
R Reversible	30 = 3"    60 = 6"	57 = RH570	Generic code for DTH hammers. A hammer starting with BG is a regional non-standard modification.
G HD (Large OD)	35 = 3.5"    65 = 6.5"	56 = RH560	
W Deep hole	40 = 4"    70 = 7"	51 = RH510	
H Horizontal	45 = 4.5"    80 = 8"	46 = RH460	
S Standard	50 = 5"    90 = 9"		
E Expanded pressure range	55 = 5.5"    95 = 9.5"		
Hammer shank	For internal use	Top sub connection	External modifiers
F RH570		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	

# Drill bits



Button combination	Face design	Shank code	Options
0 = 11 / 11    B = 14 / 14	Face code    Flushing holes    Gauge buttons	3K = 570-3.5    48 = M40	42 = Generic code for DTH bits
1 = 12 / 12    C = 16 / 16	Concave face	4K = 570-4.5    58 = M50	
3 = 13 / 12    D = 18 / 16	1    2    8	5K = 570-5.5    68 = M60	
4 = 13 / 13    E = 18 / 18	D    3    9	6K = 570-6.5    88 = M80	
8 = 16 / 13    L = 22 / 18	T    2    10	9K = 570-9.5    3H = DHD3.5HD	
9 = 16 / 14    M = 22 / 22	8    3    12	3R = 560-3.5    36 = DHD340	
A = 14 / 13    P = 20 / 18	Flat face	4H = 560-4    4G = QLX40	
	A    2    10	5H = 560-5    50 = QL50	
	F    2    8	63 = 560-6    76 = QL60	
	2    3    9	3A = M30    83 = QL80	
	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		
Button style	Carbide grade	Options	
Shape    Std    With wear protection	48 = XT48	H = Extra hard body	
Spherical    S    W	55 = DP® 55	F = Rope fishing thread	
Ballistic    R    U	65 = DP® 65	K = Wear resistant	
Spherical gauge	D2 = Diamond		
Ballistical face    L    T	69 = SH69		



