Your job is an inspiration to us. By understanding your everyday work experience and the demands that you live up to, we can create tools that help you work faster and safer. We have been collecting knowledge to create safer and more efficient tools for more than a 100 years.

Our first pneumatics inventions saw the light of day already in 1901. In 1948 we revolutionised rock drilling with the Swedish Method. And while the industry worked hard to match our lightweight rock drills equipped with pusher legs and hardened metal bits, we continued to develop our products. We gave them a twofold mission:

The first is to help you exceed your production targets in a safe way. The second mission is to provide good value for money, over a long period of time. We reach both missions by using the right materials, proven heat treatment methods and machining to high tolerances.

Quality is the result of good honest engineering. That means that even when you replace a part, your drill will deliver the same performance as when it was new. That’s the way we do things because just like you, we are in this for the long run.

BREAKING ROCK IS IN OUR BLOOD AS WELL

As a professional you know that practice makes perfect. That applies to us as well.
HISTORY IS ON YOUR SIDE

Our journey is a story of challenging status quo. Together with our customers we have revolutionized productivity in drilling for more than a 100 years. That’s the way of the Swedish Method.

MEET THE SWEDISH METHOD 2.0

“THE SWEDISH METHOD” was first coined in the 1940s. It was all about making rock drilling more efficient. The quest is ongoing.

When tramway line 17 in Stockholm, Sweden was expanded in the mid 40s, it was the first full-scale application of a new way of working that came to be known as the Swedish Method. Thanks to the lighter and mobile equipment one man could now do the work of two. It took years of development before the Swedish Method was launched. During the later part of the 1930’s we developed a pneumatic pusher leg. Then came the cemented carbide tipped integral drill steels and the RH-656 – a lightweight, fast and self-rotating rock drill. In 1948 we were ready to conquer the world mining and construction market. The project was a success back then, and it still is. Why? The Swedish Method 2.0 is all about understanding your reality and inventing tools that make work easier for you. That’s a quest without deadline.

---

**1898**
First drill driven by compressed air

**1905**
Atlas introduces the first light rock drills

**1915**
The first drills in the BR series

**1930**
Launch of the first lightweight hand-held rock drill in the RH series

**1935**
Development of the pusher leg

**1936**
Atlas pioneers with a down-the-hole-machine

**1945**
First drill steel bits made of tungsten carbide

**1948**
Introduces “THE SWEDISH METHOD”

**1950**
First ratchet wheel rotation drill with a funnel piston

**1952**
First mobile rig arrangement for underground drilling

**1960**
Production drill rig for sub level caving

**1963**
The first crawler drill

**1968**
Atlas introduces a drill rig for full face boring

**1969**
New design of down-the-hole hammers

**1973**
First heavy-duty impact hydraulic rock drill

**1995**
Shock dampening system triples previous drilling rates

**1998**
New underground drill rigs focusing on automation and computerization

**1998**
Introduction of more efficient reaming shell and drill bits

---

www.rockdrillsales.com
We took on the challenge to create ergonomically designed breakers already in the 1960s. The first we did was to allow the piston to turn on cushions, a technique which has been fine-tuned over the years. During the 70s we introduced the first vibration damping handles. In the 80s and 90s we added vibration-damping springs and optimized the weight relationship between handle and body. Today we have added a flexible pivot point, where the energy is reduced in all three directions. The relationship between fixed and movable parts has also been adjusted in recent years.

**THIS IS VIBRATION**

There are two types of forces that result in vibration. The first type comes from the machine itself. It occurs when the piston accelerates, when internal parts are in imbalance or when the tools are in imbalance. We battle this type of vibration with HAPS technology.

The second vibration-source we have to battle is caused by the impact energy from the breaking itself. By using the right breaking techniques you can reduce the effect of impact-induced vibration.

**YOUR SURFACE ROCK DRILL INSIDE OUT**

This is how your breaker takes care of dangerous vibrations. It is also the story of our hand and arm protection system – HAPS.

**10 SIMPLE WAYS TO REDUCE VIBRATION**

- Use HAPS-enabled machines
- Use the right machine for the right job
- Use the proper machine maintenance
- Keep tools sharp
- Let go of the trigger while extracting the tool from the broken surface
- Switch work tasks
- Take regular breaks
- Don’t grip the machine too hard
- Keep hands warm and dry
- Massage your fingers during breaks

**RELATION BETWEEN VIBRATION AND EXPOSURE LEVEL**

<table>
<thead>
<tr>
<th>VIBRATION MAGNITUDE (m/s²)</th>
<th>Exposure Duration (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above the ELV</td>
<td>0.5 2 3 4 5 6 7 8 9 10</td>
</tr>
<tr>
<td>Between the EAV and ELV</td>
<td></td>
</tr>
<tr>
<td>Below the EAV</td>
<td></td>
</tr>
</tbody>
</table>

The Exposure Limit Value (ELV) is 5 m/s²
The red area = immediate action to stop
The Exposure Action Value (EAV) is 2.5 m/s²
The grey area = establish an action plan

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**LET THE MACHINE WORK**

**THIS IS HOW TO BEST USE YOUR HAPS-ENABLED MACHINE**

Vibration-dampened HAPS-machines have prestressed spring handles. If you push down too hard on them, you hit a stop and lose the effect of the springs. Press the handle half-way down, and the right amount of feed force is applied automatically. Allow the machine to "float" between the handles.

---

**Rifle bar rotation mechanism**
Provides high impact power to ensure outperforming penetration rate, less dust sensitive.

---

**Keep it clean**
Air flushing lever let you switch the full air flow to the end of the drill steel to blow out dust particles quickly and avoid jamming in the rock or concrete.

---

**Quick tool change**
The robust kick-latch retainer lets you change steels quick and easy.

---

**Do more, feel better**
The Hand and Arm Protection System, HAPS, helps to reduce harmful vibrations with up to 75 percent. That means you can work much longer without risking your health.

---

**Schhhhh!**
The effective silencer is made from impact and wear-resistant polyurethane. It reduces the noise level by more than 50 percent.

---

**GET MORE DONE**

**GREAT ERGONOMICS**
CONQUER THE HARDEST ROCK

The RH drills were the backbone of the Swedish Method. And after more than 60 years development they are still on top.

The RH drills saw the light of day in the 1940s and they were an immediate success. Today, they carry on that tradition. The RH-model was designed for heavier jobs such as bench and secondary drilling, plus drilling for smooth blasting.

Thanks to the robust rifle-bar rotation mechanism and high impact energy for drilling in hard rock. The lightweight RH 571 is perfect for smaller jobs. The RH 658, slightly heavier and more powerful, is suitable for deeper drilling.

The RH 572E combines light weight with extra operator comfort, thanks to the vibration dampened handles and efficient silencer. All models are equipped with T-handles to give you a solid, comfortable grip. The best way to use the RH machines is when you do bench, secondary drilling and smooth blast drilling. Dust generated by drilling obscures vision and poses a health risk.

<table>
<thead>
<tr>
<th>Pneumatic rock drill</th>
<th>RH 572E</th>
<th>RH 571-5L</th>
<th>RH 571-5LS</th>
<th>RH 658L</th>
<th>RH 658LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>22.8</td>
<td>17.8</td>
<td>18.9</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>583</td>
<td>510</td>
<td>510</td>
<td>565</td>
<td>565</td>
</tr>
<tr>
<td>Air consumption at 6 bar (l/s)</td>
<td>37</td>
<td>39</td>
<td>39</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>Impact rate (blows/min)</td>
<td>2,040</td>
<td>2,100</td>
<td>1,980</td>
<td>2,040</td>
<td>2,040</td>
</tr>
<tr>
<td>Rotation speed (rpm)</td>
<td>170</td>
<td>190</td>
<td>190</td>
<td>215</td>
<td>215</td>
</tr>
<tr>
<td>Hose connection (mm)</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Drill steel chuck (Hex mm)</td>
<td>22x108</td>
<td>22x108</td>
<td>22x108</td>
<td>22x108</td>
<td>22x108</td>
</tr>
<tr>
<td>Part number</td>
<td>8311 0301 76</td>
<td>8311 0301 29</td>
<td>8311 0301 37</td>
<td>8311 0301 86</td>
<td>8311 0301 87</td>
</tr>
</tbody>
</table>

Important: Full details of measurement are available in the Safety and Operating Instruction of the product (part no 9800 0970 90). They can be found on www.acprintshop.com 1) Including drill steel retainer.

For every purpose
The RH-series carry several different rock drills for every need. The RH 658LS (top) is made for heavier jobs and deeper drilling. The RH 571 (above) weighs less and is suitable for smaller jobs.

Optional equipment

| Hand hose, 19 mm x 3 m complete with claw coupling and hose clamps | 9030 2047 00 |
RH Drills  For hard rock and holes

**Bigger**
The RH 658 is slightly heavier and more powerful than its little sister. That means it can drill deeper.

**Quiet breaking**
The silencer brings down noise levels by up to 50 percent.

**Perfect for ...**
Production drilling in quarry and dimension stone industry.

**More comfort**
The design combines light weight with extra comfort for the operator, thanks to the vibration dampened handles and the efficient silencer.

**Clean out!**
All RH-models have built-in air flushing. A direct air flow within the drill steel removes drill chippings and prevents the drill from jamming.

**For smaller jobs**
The RH 572E is specialised for your smaller jobs in confined spaces and can drill to six metres depth.

- The RH-models have built-in air-flushing which reduces the risk of jamming and gives faster blasting cycles
- Stepless throttle for easy collaring
- Robust kick-latch retainer for quick and easy tool change
- Spring-dampened handles reduce vibrations by 75 percent
- Silencer in impact- and wear-resistant polyurethane reduces noise levels by more than 50 percent
Rock drilling is tough work, but we always try to make it as easy as possible for you. The light-weight BBD 12 rock drill is great when you need to get smaller jobs done and haven’t got the time to start up the heavy machinery.

The BBD is available in two versions. Equipped with a D-type handle, it is used for horizontal drilling, plug hole drilling, and drilling in concrete to a maximum depth of one meter. Equipped with T-handles, the BBD 12T is designed for vertical drilling of up to two meters.

The medium-weight BBD15E has a combined “T/D handle” that make it easy for you to carry. It offers a high power-to weight ratio and a high operational safety. The E means it’s equipped with spring damped handles and a highly effective silencer. The largest BBD drill is available in a version with a trigger valve, BBD 15ET. If you have an older machine it’s possible to retrofit it with a trigger conversion kit.

The BBD drills are light and easy to handle, which makes them ideal for those quick jobs and for working in difficult-to-get-to areas.

**GRAB A BBD AND GO!**

Pneumatic rock drill

<table>
<thead>
<tr>
<th>Pneumatic rock drill</th>
<th>BBD 15E</th>
<th>BBD 15E</th>
<th>BBD 15 ET</th>
<th>BBD 15 ET</th>
<th>BBD 12T-01</th>
<th>BBD 12TS-01</th>
<th>BBD 12D Horizontal</th>
<th>BBD 12DS Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight kg</td>
<td>15.5</td>
<td>15.5</td>
<td>15.6</td>
<td>15.6</td>
<td>11.1</td>
<td>12.1</td>
<td>9.8</td>
<td>10.7</td>
</tr>
<tr>
<td>Length mm</td>
<td>575</td>
<td>575</td>
<td>575</td>
<td>575</td>
<td>505</td>
<td>505</td>
<td>565</td>
<td>565</td>
</tr>
<tr>
<td>Air consumption at 6 bar l/s</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Impact rate blows/min</td>
<td>2,520</td>
<td>2,520</td>
<td>2,520</td>
<td>2,520</td>
<td>2,520</td>
<td>2,580</td>
<td>2,520</td>
<td>2,580</td>
</tr>
<tr>
<td>Rotation speed rpm</td>
<td>220</td>
<td>220</td>
<td>220</td>
<td>220</td>
<td>220</td>
<td>220</td>
<td>220</td>
<td>220</td>
</tr>
<tr>
<td>Hose connection mm</td>
<td>19</td>
<td>19</td>
<td>16</td>
<td>16</td>
<td>19</td>
<td>19</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Drill steel chuck: Hex mm</td>
<td>19x108</td>
<td>22x108</td>
<td>19x108</td>
<td>22x108</td>
<td>22x108</td>
<td>22x108</td>
<td>19x108</td>
<td>19x108</td>
</tr>
<tr>
<td>Part number</td>
<td>8311 0104 02</td>
<td>8311 0104 10</td>
<td>8311 0104 12</td>
<td>8311 0104 13</td>
<td>8311 0102 95</td>
<td>8311 0102 98</td>
<td>8311 0102 47</td>
<td>8311 0102 80</td>
</tr>
</tbody>
</table>

1) Including drill steel retainer

Optional equipment

<table>
<thead>
<tr>
<th>Optional equipment</th>
<th>Partnumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand hose, 13 mm x 3 m complete with claw coupling and hose clamps</td>
<td>9030 2066 00</td>
</tr>
<tr>
<td>Hand hose, 16 mm x 3 m complete with claw coupling and hose clamps</td>
<td>9030 2046 00</td>
</tr>
<tr>
<td>Hand hose, 19 mm x 3 m complete with claw coupling and hose clamps</td>
<td>9030 2047 00</td>
</tr>
<tr>
<td>Retro-fit kit BBD 15E to BBD 15ET</td>
<td>8311 0104 95</td>
</tr>
</tbody>
</table>
BBD Drills For lighter jobs

D handle special
With the D-handle the BBD 12D is ideal for horizontal rock drilling, plug hole drilling and concrete drilling.

Shallow drilling
The BBD 12D drills holes down to two metres depth.

Use it for...
It’s perfect for plug hole drilling, anchor and wedge hole drilling.

BBD 12D

Ideal for
Just like it’s sister the BBD 12 DS with a D-handle works best in horizontal rock drilling, plug hole- and concrete drilling.

Silent
The DS model is equipped with a polyurethane cover that can reduce noise by up to 50 percent.

Built in air flushing
HAPS, Hand and Arm Protection System for all E-versions

Vibration reduction
HAPS, Hand and Arm Protection System for all E-versions

BBD 12DS

The BBD’s designated E are equipped with HAPS, Hand Arm Protection System. The vibration reduction let’s you work longer hours without risking health.

Watch the E
T stands for Trigger, which gives you better start and control during the operation. It’s excellent for gas companies’ pipe service maintenance.

BBD 15E

BBD 15ET

www.rockdrillsales.com
The quick-release chuck is a money saver. It helps you change between drilling and chipping operations and you can do more work in shorter time. Lubrication is especially important to think about when you are drilling. With the DKR 36 you can concentrate on the task at hand.

A built-in lubricator lasts a whole normal shift and helps keep the drill chipper and tools in shape.

The nimble size together with a mass of applications make this a “grab and go”-tool. There is almost always a use for it, and the weight helps you work in almost impossible positions. You can go overhead or under water. Divers especially like this model because they can do so much with it – anything from underwater drilling to chipping – thanks to low feed force.

Be prepared for anything
The DKR 36 is tiny, but it handles anything from cracking rocks to chipping brickwork.

Never mind the lubrication
We take care of it for you. The DKR 36 has a built-in lubricator that lasts for a whole shift.

Quick tool change
The quick release helps you change between drilling and chipping in seconds.

GRAB IT AND GO
The DKR 36 is small enough to fit in a (very deep) pocket and strong enough to do both chipping and drilling.

<table>
<thead>
<tr>
<th>Drill/chipper</th>
<th>DKR 36</th>
<th>DKR 36 R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>4.5</td>
<td>4.5</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>375</td>
<td>375</td>
</tr>
<tr>
<td>Air consumption at 6 bar (l/s)</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Impact rate (blows/min)</td>
<td>2,820</td>
<td>2,820</td>
</tr>
<tr>
<td>Revolutions (rpm)</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Hose connection (mm)</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Vibration level 3 axes (ISO 28927-10) - breaking (m/s²)</td>
<td>20.2</td>
<td>20.2</td>
</tr>
<tr>
<td>Vibration level 3 axes (ISO 28927-10) - drilling (m/s²)</td>
<td>21.2</td>
<td>21.2</td>
</tr>
<tr>
<td>Sound power level guaranteed (2000/14/EC, Lw, dB(A))</td>
<td>103</td>
<td>103</td>
</tr>
<tr>
<td>Sound pressure level (ISO 11203, Lp, r=1m)</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>Shank size: Round (mm)</td>
<td>R19xH14.7x89</td>
<td>R19x95</td>
</tr>
<tr>
<td>Part number</td>
<td>8463 0103 60</td>
<td>8463 0103 50</td>
</tr>
</tbody>
</table>

1) 19 mm drill in granite

Accessories
<table>
<thead>
<tr>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand hose 10 mm x 3 m complete with claw coupling and quick coupling (incl. nipple)</td>
</tr>
<tr>
<td>Adapter for fitting 8, 10, 12 mm drills (only for DKR 36)</td>
</tr>
<tr>
<td>Knock-out block for removal of 8, 10, 12 mm drills</td>
</tr>
</tbody>
</table>

Please note: the above hand hose is equipped with Atlas Copco standard claw couplings. For N. American and Australian markets, hand hoses with couplings according to the local claw coupling standard should be used.

GRAB AND GO-KIT
At just 10 kg, it’s easy to carry around. And the steel case is complete with both hose and accessories.

<table>
<thead>
<tr>
<th>Kits</th>
<th>DKR 36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part number</td>
<td>8463 0103 61</td>
</tr>
</tbody>
</table>
PNEUMATIC ROCK DRILL - MEDIUM RANGE

ALL-ROUNDERs
SAVE MONEY

As soon as you pick up the drill, you’ll feel the quality. That pays off from day one.

It’s solid, well made. Start it up and you’ll notice the raw power. Your drill is a good long-term investment and it makes money from day one. For every litre of air you put in, you’ll get high impact energy out.

Our water flushed, pusher leg mounted rock drills are designed for driving drifts and tunnels with a small cross section. They are intended for use for hole diameter range of 27 to 41 mm (1-1 5/8 in) with Hex 22 (7/8”) rotation shank as a standard. When used with Atlas Copco tapered button bits, penetration rate will improve some 25-50 percent compared to conventional integral steels. And they have three to five times longer service life. These all-rounders can be used in a wide range of applications. They have a robust riflebar rotation, long stroke length and high penetration rates.

<table>
<thead>
<tr>
<th>Rock drills</th>
<th>BBC 16W</th>
<th>BBC 16 WS</th>
<th>BBC 34 WTH</th>
<th>BBC 34 W</th>
<th>BBC 34 WS</th>
<th>BBD 94 W</th>
<th>BBD 94 WS</th>
<th>BBD 94 WE</th>
<th>RH 656 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole range</td>
<td>mm</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>28.5</td>
<td>29.5</td>
<td>34</td>
<td>33.5</td>
<td>34.5</td>
<td>28</td>
<td>28.5</td>
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<td>Length</td>
<td>mm</td>
<td>705</td>
<td>705</td>
<td>740</td>
<td>775</td>
<td>775</td>
<td>670</td>
<td>670</td>
<td>670</td>
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<tr>
<td>Air consumption</td>
<td>l/s</td>
<td>69</td>
<td>69</td>
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<td>88</td>
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<td>97</td>
<td>97</td>
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<tr>
<td>Impact rate</td>
<td>blows/min</td>
<td>2,340</td>
<td>2,340</td>
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<td>3,300</td>
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<tr>
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<td>mm</td>
<td>70</td>
<td>70</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>90</td>
<td>90</td>
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<tr>
<td>Stroke length</td>
<td>mm</td>
<td>55</td>
<td>55</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td>45</td>
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<td>Vibration level</td>
<td>m/s²</td>
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<td>20.4</td>
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<td>15</td>
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<tr>
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<td>Lw, dB(A)</td>
<td>122</td>
<td>114</td>
<td>127</td>
<td>127</td>
<td>120</td>
<td>125</td>
<td>125</td>
<td>120</td>
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<td>Sound pressure level (ISO 11203)</td>
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<td>111</td>
<td>103</td>
<td>116</td>
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<td>109</td>
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<td>Part number</td>
<td></td>
<td>8311 0401 10</td>
<td>8311 0303 46</td>
<td>8311 0408 10</td>
<td>8311 0408 06</td>
<td>8311 0303 47</td>
<td>8311 0206 09</td>
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<td>8311 0206 12</td>
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</tbody>
</table>

1) Important: Full details of measurement is available in the Safety and Operating Instruction of the product. It can be found on www.acprintshop.com.

Data at 6 bar (90 psi) air pressure. 2) Silenced version.

<table>
<thead>
<tr>
<th>Pusher legs</th>
<th>BMT 51</th>
<th>ALF 71</th>
<th>ALF 71-1</th>
<th>ALF 72D</th>
<th>ALF 72D-1</th>
<th>BMK 62S</th>
<th>BMK 91RS</th>
<th>ALF 67/80</th>
<th>ALF 67/80D</th>
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</thead>
<tbody>
<tr>
<td>Product type</td>
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<td>Single telescope</td>
<td>Double telescope</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Suitable for rock drill:</td>
<td>BBC 16W, 34W</td>
<td>BBC 16W, 34W</td>
<td>BBC 16W, 34W</td>
<td>BBD 94W</td>
<td>BBD 94W</td>
<td>BBD 94WE</td>
<td>BBD 94W</td>
<td>BBD 94W</td>
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<tr>
<td>Feeding length</td>
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<td>1,300</td>
<td>950</td>
<td>1,300</td>
<td>1,200</td>
<td>1,300</td>
<td>1,300</td>
<td>1,855</td>
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<tr>
<td>Length retracted</td>
<td>mm</td>
<td>1,658</td>
<td>1,805</td>
<td>1,455</td>
<td>1,970</td>
<td>1,830</td>
<td>1,815</td>
<td>1,870</td>
<td>1,495</td>
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<tr>
<td>Length extracted</td>
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<td>3,105</td>
<td>2,405</td>
<td>3,270</td>
<td>3,030</td>
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<td>3,170</td>
<td>3,350</td>
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<td>15</td>
<td>14</td>
<td>13</td>
<td>19</td>
<td>16</td>
<td>17</td>
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<tr>
<td>Piston bore</td>
<td>mm</td>
<td>60</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td>53</td>
<td>67</td>
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<tr>
<td>Part number</td>
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<td>8321 0301 01</td>
<td>8321 0201 94</td>
<td>8321 0201 95</td>
<td>8321 0201 88</td>
<td>8321 0201 81</td>
<td>8321 0102 02</td>
<td>8321 0104 27</td>
<td>8321 0201 85</td>
</tr>
</tbody>
</table>

www.rockdrillsales.com
Rock drills  Medium range

**LEOPARD**
BBC 34 W
- Highly efficient in medium to hard rock
- Long stroke, high impact energy
- Large piston diameter makes it very efficient even at low air pressure
- Powerful rifle bar rotation mechanism
- Pusher leg control placed in back head of the rock drill

**PANTHER**
BBD 94 W
- High performance rock drill for soft to hard rock
- Short stroke and high impact rate makes it ideal for soft rock
- Large piston diameter for high efficiency even at low air pressure
- Ratchet wheel rotation mechanism
- Pusher leg control is placed on the pusher leg

**RH 656 W**
- Suitable for soft to medium hard rock
- Good ratio between high penetration/low air consumption
- Due to low weight, it can also be used as a sinker. Supplied with T-handle
- Robust rifle bar rotation mechanism
- Pusher leg control is placed on the pusher leg

**ALF 72 D**
- Double-acting pusher legs
- Quick connect
- Easy reach

**ALF 67/80 D**
- Double-acting pusher legs
- Quick connect
- Easy reach

**PUMA**
BBC 16 W
- Anytime, anywhere
- The Puma is an all-round rock drill suitable for most drilling applications in medium to hard rock
- Drill deep
- With its long stroke the Puma has good penetration rate. And the quality rifle bar rotation mechanism can handle the load.
- Easy reach
- With the pusher leg control placed in back head of the rock drill, they are easy to reach.

**Pusher legs  Your best legs**

These pusher legs were made with an aluminium alloy that was first developed for use in spacecrafts. They’re strong and feature a large piston diameter for high feed force. The simple and robust design makes operations reliable and promise minimum maintenance time.

**Double action**
The Alf 72-pusher legs are double-acting, they push out and pull back in.

**Quick connect**
When time is short, simple connection means money saved.

**Easy reach**
The feed control is placed on the pusher leg, which makes it easy to reach.

**Great ergonomics**

**Go further**
The double-telescopic leg makes for long reach.

**Light and durable**
Spacecraft aluminium alloys makes the legs strong and light.
**Stoper**

Keep production on the up!

You can go deep with our all-steel stopers. These rock drills will deliver even at low air pressure.

**Stoper**

For vertical or inclined environments. The machines are especially designed for production drilling, raise driving and roof bolting. Thanks to the ratchet wheel rotation and short piston stroke you get good penetration rates in soft and medium hard rock.

While you are drilling, air blows through the system to clean the rotation chuck and lubricate the drill steel shank. The WR versions has clockwise rotation and can be used for tightening or installing screen on threaded roof bolts.

**Powerful**

The stoper provides short stroke with good penetration rates. The large piston diameter gives high efficiency even at low air pressure.

**Falcon for softer rocks**

The BBD 46WS – Falcon provides a high impact rate for good performance in soft to medium rock.

**Go clockwise**

The WR versions comes with clockwise rotation for tightening nuts and roof bolting.

**When you do...**

Production drilling, raise driving and bolting in soft to medium hard rock.

---

**Specifications**

<table>
<thead>
<tr>
<th>Stoper</th>
<th>BBC 34 WS-6</th>
<th>BBC 34 WS-8</th>
<th>BBC 46 WS-6</th>
<th>BBC 46 WS-8</th>
<th>BBC 46 WR-6</th>
<th>BBC 46 WR-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole range</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
<td>27-41</td>
</tr>
<tr>
<td>Weight</td>
<td>45.5 kg</td>
<td>46.5 kg</td>
<td>39</td>
<td>40</td>
<td>39</td>
<td>40</td>
</tr>
<tr>
<td>Length retracted</td>
<td>1,610 mm</td>
<td>1,810 mm</td>
<td>1,435</td>
<td>1,650</td>
<td>1,435</td>
<td>1,650</td>
</tr>
<tr>
<td>Length extracted</td>
<td>2,380 mm</td>
<td>2,780 mm</td>
<td>2,205</td>
<td>2,620</td>
<td>2,205</td>
<td>2,620</td>
</tr>
<tr>
<td>Air consumption</td>
<td>125 l/s</td>
<td>125 l/s</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>Impact rate</td>
<td>2,340 bpm</td>
<td>2,340 bpm</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
</tr>
<tr>
<td>Piston diameter</td>
<td>80 mm</td>
<td>80 mm</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Stroke length</td>
<td>70 mm</td>
<td>70 mm</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Vibration level 3 axes (ISO 20643)</td>
<td>30.5 m/s²</td>
<td>30.5 m/s²</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Sound power level guaranteed (2000/14/EC)</td>
<td>129 Lw, dB(A)</td>
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<td>124</td>
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<td>Sound pressure level (ISO 11203)</td>
<td>118 Lp, r=1m</td>
<td>118 Lp, r=1m</td>
<td>121</td>
<td>121</td>
<td>121</td>
<td>121</td>
</tr>
</tbody>
</table>

1) Important: Full details of measurement is available in the Safety and operating instruction of the product. It can be found on www.acprintshop.com.

Data at 6 bar (90 psi) air pressure. R = right rotation.
GO FOR TAPERED
Tapered drilling equipment beats integral in speed and cost of operations.

First and foremost, penetration is faster with tapered steel. In some rock you can shave time by over 50 percent. Tapered bits are also easier to use; collaring is faster, drilling straight holes is simpler and vibrations are considerably lower. And in addition to all of this, tapered equipment actually gives you lower total drilling costs. Still not convinced? Do a test run and judge for yourself.

FOUR ACTIONS FOR SUCCESSFUL DRILLING

ACTION 1: PERCUSSIVE IMPACT
Percussive drilling breaks the rock by hammering impacts transferred from the rock drill to the drill bit at the bottom of the hole.

ACTION 2: FEED FORCE
The purpose of the feed force is to keep the drill bit in close contact against the rock. The engineering challenge is to combine high feed force with good rotation.

ACTION 3: ROTATION
Rotation moves the drill bit to a new position to make the next blow as effective as possible. When the drilling starts you need even and smooth rotation.

ACTION 4: FLUSHING
Drill systems with a high output need good flushing technology to be able to remove drill cuttings. Particle size, shape and material affect the flushing methods.

www.rockdrillsale.com
GO INDUSTRIAL

With our heavy range you can break rock with industrial efficiency and still keep noise down.

When you see the DSI designation on a drill, you’ll know it’s made for bigger operations. DSI stands for Dimension Stone Industry and these well-proven pneumatic rock drills can be mounted on a drill column to make you really productive.

The BBD and BBC-models can drill holes of up to 27-41 mm in diameter and they come equipped with an H22 chuck and air flushing as standard. You can get water flushing as an option and the machines can be equipped with both cable or chain feeds.

These heavy drills come from a proud lineage of products.

We have been crafting quality tools for more than 100 years and every bit is machined to the highest standards. But quality is more than just the nuts and bolts. It’s also how you experience the machine. The silenced BBC 34DSI is pure quality in all aspects. If you are operating in sensitive areas the silencer can prove invaluable for your business.

<table>
<thead>
<tr>
<th>Rock drill</th>
<th>BBD 94-DSI</th>
<th>BBC 34-DSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>kg</td>
<td>26</td>
</tr>
<tr>
<td>Length</td>
<td>mm</td>
<td>670</td>
</tr>
<tr>
<td>Impact rate at 6 bar</td>
<td>Hz</td>
<td>55</td>
</tr>
<tr>
<td>Stroke length</td>
<td>mm</td>
<td>45</td>
</tr>
<tr>
<td>Piston bore</td>
<td>mm</td>
<td>90</td>
</tr>
<tr>
<td>Air consumption at 6 bar</td>
<td>l/s</td>
<td>97</td>
</tr>
<tr>
<td>Part number</td>
<td>8311 0206 10</td>
<td>8311 0408 06</td>
</tr>
</tbody>
</table>

This is dimension stone

The most common commercial stones are marble, granite and slate. Dimension stone is the name given to natural rock that has been quarried and shaped to certain dimensions or specifications for use in building, construction, monument and tombstone industries.

www.rockdrillsales.com
CORRECT MOUNTING

The rock drills can be rig-mounted for use in a number of applications within the dimension stone industry. For good results, however, the following conditions must be met:

Use the attachment point (1) on the underside of the rock drill as the main means of fixing it to the cradle. To further secure the rock drill, a support (2) must be mounted at the rear end and attached with the side bolts. To minimize stress and hole deviation, the rock drill chuck and drill steel support must be aligned perfectly. If drill steels longer than 1.8 m are used, an intermediate drill steel support is recommended to improve hole straightness.

ADEQUATE FEED FORCE

To get the most from your drill’s impact energy, the drill bit has to be pressed against the rock with a certain force. How much force depends on the impact energy and the rock’s hardness. Higher air pressure gives higher impact energy.

On rigs for light rock drills, a minimum feed force of 1.4 kN (140 kp) is recommended for each rock drill. The feed system must include a pressure regulator for seamless control of the feed force. If two or more rock drills are mounted on the same feed unit, the cradle must be designed to permit variations in the rate of penetration between the individual drills while maintaining the correct feed force on each rock drill.

LUBRICATION

The drill rig must be fitted with an in-line lubricator that’s compatible with the air pressure and flow rate of your rock drills. Fill the lubricator with air tool oil that has a viscosity suited for the ambient working temperature. When the lubrication is effective, a continuous film of oil wets the neck of the shank adapter during operation. Remember that oil in the exhaust air is not a guarantee for effective lubrication.

See recommended air tool lubricant table on page 18.

AIR SUPPLY

The rock drill needs a certain flow of air at a given pressure to produce sufficient impact energy. The DSI-rock drill is designed for optimum performance at an air pressure of 6 bar, unless stated otherwise. Air pressure and flow should be measured dynamically at the intake nipple of the rock drill.

AIR CONSUMPTION

The table shows the air consumption in liters per second for different rock drill types. The values are approximate and can vary depending on the operating conditions.

<table>
<thead>
<tr>
<th>Rock drill type</th>
<th>BBD 94-DSI</th>
<th>BBC 34-DSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height to drill center (h) mm</td>
<td>53</td>
<td>75</td>
</tr>
<tr>
<td>Attachment bolt diameter (1) mm</td>
<td>23-24</td>
<td>23-24</td>
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<tr>
<td>Attachment hole diameter (2) mm</td>
<td>23-24</td>
<td>18</td>
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</tbody>
</table>

EASY RIG MOUNTING

Heavy range For industrial use

Recipe for productivity

The BBD 94DSI weighs 26 kg, has great impact energy and can handle low air pressures.

When to use...

Short stroke and high impact rate makes it ideal for soft rock.

Harder stuff

The BBC 34-DSI is highly efficient in medium to hard rock.

Cut noise

The silencer can reduce the noise by up to 5 dB(A), which is perceived as a 50 percent improvement of noise levels to the human ear.

Rotation that lasts

The powerful rifle bar rotation mechanism is dimensioned to handle industrial demands.

High efficiency

A large piston diameter makes the drill efficient even at low air pressure.

GREAT FOR BUSINESS

GREAT ERGONOMICS

www.rockdrillsales.com
Tools for every job

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
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<tr>
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<td>mm</td>
<td>17-29</td>
<td>24-34</td>
<td>17-29</td>
<td>28-34</td>
<td>28-34</td>
<td>29-40 (-64)</td>
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<tr>
<td>Hole depth</td>
<td>m</td>
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<td>1-2</td>
<td>1-2</td>
<td>1-3</td>
<td>1-3</td>
<td>1-6 short hole reaming</td>
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<td>Shank size</td>
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<td>22x108</td>
<td>22x108</td>
<td>22x108</td>
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<td>22x82.5</td>
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BBC/BBD/RH – Optional equipment

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<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Compressed air hose for rock drill and feed, fitted with couplings for:</td>
<td></td>
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<tr>
<td>1</td>
<td>BBC 10, BBC 34, BBD 46</td>
<td>9030 2051 00</td>
</tr>
<tr>
<td>2</td>
<td>RH 556</td>
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<td>2</td>
<td>BBD 94</td>
<td>9030 2068 00</td>
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<td>3</td>
<td>Water flushing hose with fitted couplings for BBC, BBD, RH</td>
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<td>Lubricator for BBC, BBD, RH</td>
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</tr>
<tr>
<td>4</td>
<td>BLG 30</td>
<td>8202 5102 39</td>
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<td>5</td>
<td>Mandrel for 25 mm bolt</td>
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<td>6</td>
<td>Socket for 37 mm hexagon nut</td>
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Rock drill oil, synthetic lubricant

<table>
<thead>
<tr>
<th>Oil volume</th>
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<th>Part number</th>
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<td>l</td>
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<td>1</td>
<td>1.1</td>
<td>8099 0202 36</td>
</tr>
<tr>
<td>5</td>
<td>5.8</td>
<td>8099 0202 02</td>
</tr>
<tr>
<td>20</td>
<td>23</td>
<td>8099 0202 15</td>
</tr>
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</table>

Hole dimension mm: 17-29, 24-34, 17-29, 28-34, 28-34, 29-40 (-64), 39-40

Rock drill oil, synthetic lubricant

- Oil volume: l
- Weight: kg
- Part number: 8099 0202 36, 8099 0202 02, 8099 0202 15

ambient temperature °C | Viscosity grade
--- | ---
-30 to 0 | ISO VG 32-68
-10 to +20 | ISO VG 68-100
+10 to +50 | ISO VG 100-150

BBC 94 DSI, BBC 34 DSI – Recommended air tool lubricants.

Use a mineral-based air tool oil.

BBC 94 DSI, BBC 34 DSI – Recommended air tool lubricants.

Use a mineral-based air tool oil.

18

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COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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