

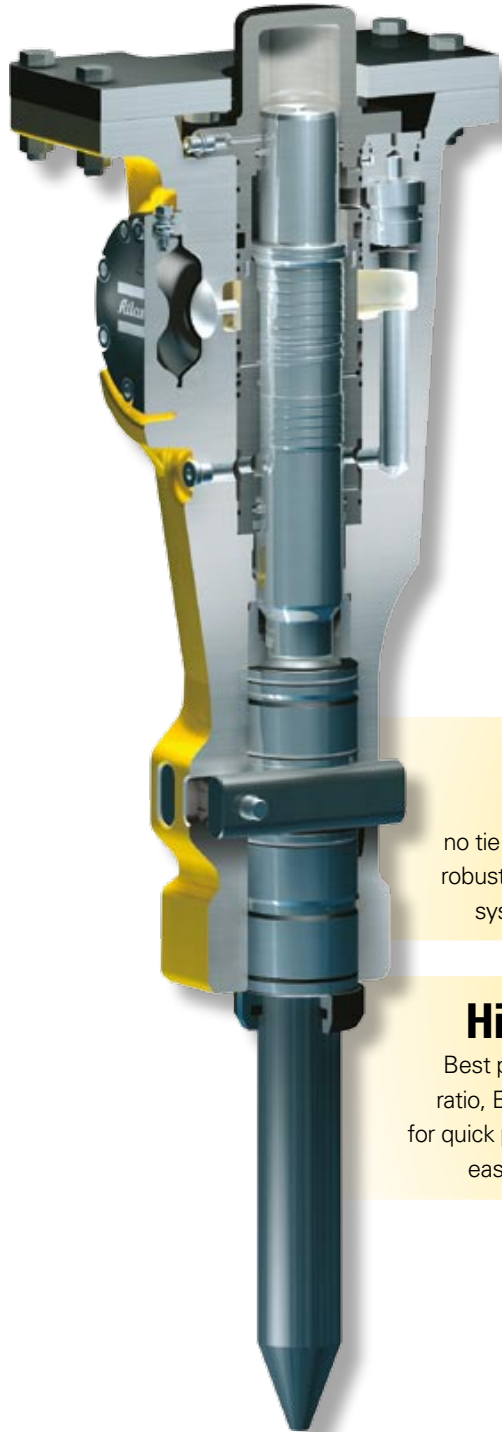
SB 452

Discover the new SB 452 in the multi-purpose SB range | Taste the real power



**The strongest appetite
for every challenge**

Atlas Copco



SB - Solid Body - a powerful concept

What makes the Atlas Copco SB breakers so unique is the Solid Body concept, which integrates the percussion mechanism and guide system into one single block of steel. This unique design makes these breakers extremely **compact and easy to handle** and it also yields a weight reduction of **20%** compared to other breaker types. It is true that SB stands for Solid Body concept, but in fact it actually means **lower cost of ownership** for users. Thanks to this concept, the uncontested benefits of the SB breakers are reliability, flexibility, high productivity and low maintenance.

Reliability

Strong and wear-resistant, no tie rods, no body parting lines, robust working tool wear bushing system with dual retainer bars

High productivity

Best percussive power-to-weight ratio, EnergyRecovery, slim shape for quick positioning and better view, easy to use in confined spaces



Flexibility

For a wide variety of carriers with a broad oil flow range and featuring an overload protection valve to prevent misuse. Prepared for special applications

Low maintenance

Maintenance-free accumulator, fewer parts, central lubrication port (prepared for automatic lubrication)

Low cost of ownership

3 INGREDIENTS TO SPICE UP YOUR PRODUCTIVITY

EASY to set up

Installing an SB breaker is easy. The new SB breakers work with a wide oil flow range and can therefore be installed on a broad variety of carriers.

In case of a hydraulic overload, the breakers are protected by an **integrated protection valve** which prevents damage to and downtime on the breakers.

Installing another chisel for a different application is a matter of minutes using ordinary hand tools available on the job site.

SB breakers are always ready for action and require very **little maintenance**.

EASY to use

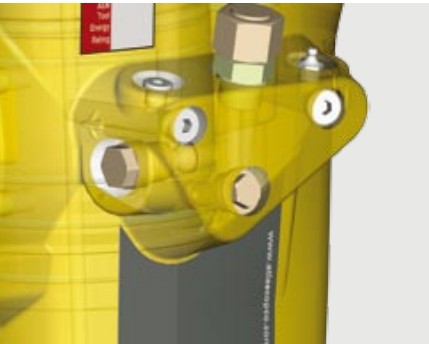
Great attention has been paid to the design of the SB breaker range.

Thanks to its **sleek lines**, it is easier for operators to see the working tool, thus boosting productivity. SB breakers are also unexpectedly **compact**, which makes it easier to work inside buildings or in narrow trenches. The standard air flushing port and dust suppression port make SB breakers **flexible** for use in special applications.

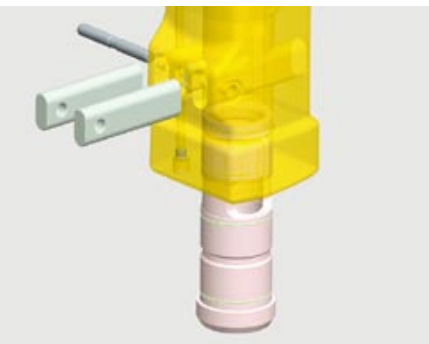
EASY to service

SB breakers have been designed to be **the most reliable** on the market. And even when they do need attention, they are easy to service.

For example, the double tool retainer bars minimize stress and wear on the working tools. It's easy to change the working tool thanks to the patented **retainer bar lock system** and replacing the floating working tool bushing can be done by the operator on-site with standard hand tools. The length of the bushing also provides excellent guidance for the working tool, which means less wear. We have also added an **oil drainage port** through which you can easily empty the breaker.



Overload protection valve



The double tool retainer bars



DEVELOP A TASTE FOR THE NEW SB 452

The trusted recipe for research and innovation



Technical data

Carrier weight	6.5 - 13 tons
	14300 - 28000 lbs
Service weight	441 kg
	972 lbs
Oil flow rate	55 - 105 l/min
	14.5 - 27.7 gpm
Operating pressure	100 - 150 bar
	1450 - 2180 psi
Blow frequency	540 - 1260 bpm
Working tool diameter	95 mm
	3.74 in



The **SB 452** is the replacement for the last model in the classic SB line. This new breaker provides further proof that **innovative product design** and technology can achieve higher performance with a reduced environmental impact. This includes lower fuel consumption, lower vibrations and less noise. Thanks to the integration of the percussion mechanism and the guide system, the **weight is reduced by 20%** on the solid body breaker.

Integrated maintenance-free accumulator

The accumulator is cast in the main body of the breaker, which offers a number of advantages. First, the accumulator is well-protected from bangs and knocks. Second, it is maintenance-free.



DEVELOP A TASTE FOR THE NEW SB 452

Power efficiency is a main ingredient

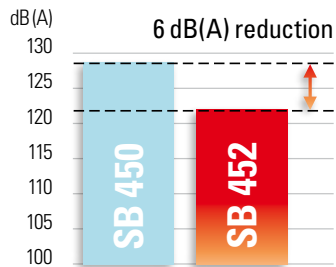


Efficiency comparison*



With a higher impact rate **(+50%)** and increased single blow energy **(+12%)**, the SB 452 provides much **better power efficiency** with a slightly higher (+5%) hydraulic input than its predecessor, the SB 450. Better utilisation of the hydraulic output from the carrier has been achieved through the highest of manufacturing standards and innovative percussive technology, such as **EnergyRecovery**.

Sound level comparison



An increase of 10 dB(A) sounds twice as loud

VibroSilenced - Effective noise and vibration damping as standard

The design of the SB breakers helps to reduce vibration levels while the Atlas Copco energy recovery system is a unique percussion mechanism that helps to absorb recoil. Lower vibrations help **reduce wear and tear** on carriers and this improves the working environment for operators.

The Solid Body concept and the new percussion mechanism have another advantage: **less noise**. Thanks to the further development of this concept, the new SB 452 has a noise level which is 6 dB(A) lower than that of its predecessor, the SB 450.



Give your productivity extra punch, but keep your costs down!

The fuel consumption of your carrier is a critical economic element. If you can achieve the same performance with a smaller breaker or excavator, you can reduce your fuel consumption. What's more, the total cost of ownership includes the full calculation of all costs, so also the remaining high value of the breaker at resale. Compared to other brands, you save more money.

* all figures according to AEM measurements

BREAKERS FOR ALL DEMANDING APPLICATIONS

What kind of job do you get on your pizza?

The **compact design** of the SB 452 makes it superior when working in confined spaces: Indoor demolition work, up along house walls, narrow trenching, etc. Atlas Copco's hydraulic breakers have been developed for a wide variety of applications:



Road construction

The SB breakers are the smallest on the market in their respective carrier class. This means they can be easily tucked up under the carrier boom during transportation between sites. For road construction work you can choose the asphalt cutter or wide chisel working tool for cutting the road surface.

Landscaping

When creating a landscape, it is important to focus on the mission. The energy recovery system increases the output power on harder material when necessary. The slim design makes positioning easy.

Building renovation

Used on light carriers or demolition robots, SB breakers can be used efficiently for indoor demolition jobs. In difficult to access areas or dangerous environments, a hydraulic breaker attached to a remotely controlled demolition robot can work safely and without interruption for many hours.

Demolition

SB breakers are internationally recognized for their toughness and reliability. They give you more hitting power per kilo than any other breaker. The SB breakers are ideally suited to demolition tasks. They are commonly used to break down concrete structures - both non-reinforced and reinforced.

Trenching

The sleek lines of the new SB breakers make it easier for operators to see the tool. This is ideal for working in confined spaces, for example in narrow trenches.

Special applications

SB breakers have both a dust suppression connection and an air flushing connection (used when working underwater or in extremely dusty conditions). There is also a built-in lubrication channel and a connection for the central lubrication system.

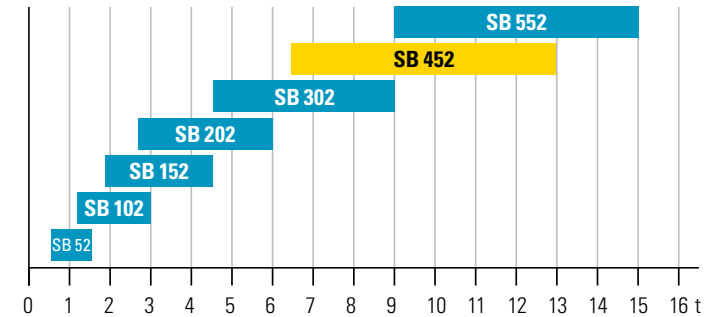
DISCOVER THE WHOLE SB RANGE OF MULTI-PURPOSE BREAKERS

Find the breaker to suit **your taste**



Carrier weight classes

This table provides a rough guide. For a perfect fit between carrier and breaker, contact your local dealer.



Weights

Carrier weight (1)	t	0.7 - 1.2	1.1 - 3.0	1.9 - 4.5	2.8 - 6.0	4.5 - 9.0	6.5 - 13	9.0 - 15.0
	lbs	1500-2600	2400-6600	4200-9900	6200-13200	9900-19800	14300-28000	19800-33000
Service weight (2)	kg	55	87	140	200	304	441	520
	lbs	121	191	308	440	670	972	1146

Hydraulic

Oil flow rate	l/min	12 - 27	16 - 42	25 - 49	35 - 73	50 - 83	55 - 105	65 - 115
	gpm	3.1-7.1	4.2-11.1	6.6-12.9	9.2-19.3	13.2-21.9	14.5-27.7	17.2-30.4
Operating pressure	bar	100 - 150	100 - 150	100 - 150	100 - 150	100 - 150	100 - 150	100 - 150
	psi	1450-2180	1450-2180	1450-2180	1450-2180	1450-2180	1450-2180	1450-2180
Blow frequency	bpm	720 - 1680	720 - 2280	780 - 1920	840 - 1800	600 - 1380	540 - 1260	660 - 1140

Dimensions

Length without tool	mm	444	571	686	727	805	849	919
	in	17	22	27	28	32	33	36
Working length of tool	mm	255	250	250	300	420	465	475
	in	10	10	10	11	16	18	18
Working tool diameter	mm	40	45	50	65	80	95	100
	in	1.6	1.8	2.0	2.6	3.1	3.74	3.9
Part number		8460 0300 10	8460 0300 30	8460 0300 40	8460 0300 50	8460 0300 60	8460 0300 70	8460 0300 80

1) Weights apply to standard carriers only. Any variances must be agreed upon with Atlas Copco and/or the carrier manufacturer prior to attachment.

2) Breaker and breaker box with standard adapter plus working tool.

www.easybreaking.com



Keep your machines **crunching**

An Atlas Copco hydraulic breaker is more than just a breaker - it's an overall concept which includes a full line of aftermarket products and services. Each product fits perfectly to the breaker and keeps it crunching for a long time.

Tools for every job

Today's hydraulic breakers offer a significantly improved ratio of percussive performance to weight, which in turn imposes far greater loads on all breaker components. The dimensions, material properties and tip geometry of working tools have a major impact on reliability, wear behaviour, performance and productivity.

So don't take any risks. Only genuine working tools will ensure that your Atlas Copco breaker continues to be the unit that you bought: a reliable and safe production tool good for many millions of impacts.

Lubricants

Atlas Copco lubricants offer many benefits which **extend the lifespan** and enhance the economical operation of our products. They improve the availability of attachments and spare wear bushings and bearings. The regular use of lubricants cuts down maintenance, repair costs and downtimes for attachments and carriers.



Connection hoses

Genuine Atlas Copco hoses are designed to withstand the strains of demolition work and are available in standard and special lengths. A spiral steel wire protects the hose against damage caused by the material being cut.



Maintenance kits

These kits include all the parts needed to carry out servicing in accordance with factory specifications and contain all the wearing components needed for proactive replacement and preventive maintenance. They include a detailed list of contents and an exploded view to simplify identification.

1+2program = two years additional warranty without extra cost

For all light and medium hydraulic breakers, two years additional warranty are provided free of charge. Invest 5 minutes of your time to register your breaker under www.1plus2program.com.

