

SB 300 & SB 450

Solid body reliability.



The world's most reliable breaker...

The SB is the toughest, most reliable breaker on the market. This is because it's made from a solid one-piece body that doesn't need side bolts. The two largest breakers in the range have been upgraded and are also available in scaling versions.

Hydraulic breakers hit hard and get treated hard. With conventional breakers it's the side bolts that go first in most cases.

So, we eliminated the need for side bolts by casting the entire breaker body in a solid block of cast iron.

The result is a much tougher breaker. A machine that can take the harsh and often careless treatment breakers are subjected to.

Stronger, lighter, more manoeuvrable

SB breakers are not only stronger, but they are also lighter than conventional units. Why? In conventional breakers, the valve, cylinder, front head and breaker housing are four separate components. But in a one-piece machine, they are integral parts of the same solid casting. By saving weight in this way, SBs provide the highest power-to-weight ratio on the market, giving you excellent manoeuvrability.

...just got more reliable

SBs might be the best, but we're continually working to make them better. The latest round of improvements has centred on the two largest breakers in the range, the 600 and 800 joule models: SB 300 and SB 450.

Now, the accumulator is cast in the main body of the breaker. This means a more robust machine, with even fewer parts and fewer problems.

We've also added the option of a water channel for dust suppression. This gives operators a less hazardous working environment, improves visibility and stops dust from seeping into the bushings.

For jobs where there is even more dust, we've incorporated a channel for compressed air. This allows you to keep the area between the piston and tool free from dust. By feeding compressed air through the unit, you can also use SBs for breaking under water.

New scaling versions

Thanks to these improvements, we can now offer special scaling versions based on the SB 300 and SB 450 models. To withstand the extra demanding conditions of scaling operations, these versions include a number of additional features (see page six).





Features that make a difference



Easy to service
An SB contains less than half as many parts as a conventional breaker.



Good visibility
The compact design makes it easy for operators to see what they are doing.



Patented tool retainer lock
The retainer locking system allows minimal play. The resilient lock pin simplifies tool replacement.



AEM-rated power
The piston design and long stroke movement give optimum energy transfer to the tip of the tool.



Forged and hardened
The nickel-chrome alloy tools are forged and hardened to provide an optimal balance of hardness and ductility.



Full-length tool bushing
Long tool bushing gives maximum guidance to the tool shank which minimizes wear and tear.





Technical data

Model	Length without tool		Approximate Service Weight		Blow Frequency	Operating Pressure		Oil Flow Rate		Working Tool diameter		Part Number
	mm	in	kg	lbs		bar	psi	l/min	gpm	mm	in	
SB 300	850	33	312	686	480-960	100-150	1,450-2,175	50-80	13.2-21.1	80	3.1	8460 0100 01
SB 450	925	36	419	922	390-780	100-150	1,450-2,175	50-100	13.2-26.5	95	3.7	8460 0100 09

Silenced

SB 300S	850	33	318	700	480-960	100-150	1,450-2,175	50-80	13.2-21.1	80	3.1	8460 0100 07
SB 450S	925	36	427	939	390-780	100-150	1,450-2,175	50-100	13.2-26.4	95	3.7	8460 0100 08

Scaled up for scaling

Following on from the success of the TEX 250, we've developed scaling versions of the SB 300 and 450 breakers.

To start with, we've optimized the stroke frequency and impact energy for scaling. Then we've cast the accumulator into the main body of the breaker, so that the unit can cope with scaling ceilings and walls. The breakers now have a channel for spraying water, to suppress dust and protect the bushings. And by taking advantage of the air channel, you can use compressed air to protect the internal components from dust.

Last but not least, you can fit one of the special scaling tools together with a shield and dust protector. This stops dust and debris from passing into the breaker.



Optimized for scaling

The impact rate has been increased and the impact energy has been decreased for scaling operations.



Dust suppression

With an integrated water channel, you can spray water to keep dust levels down.



Air flushing

Feeding compressed air through the air channel helps protect internal parts from dust.



Bushing protection

A shield and dust protector on the scaling tool prevents debris from entering the breaker and damaging the internal parts.



Integrated accumulator

The accumulator has been cast into the main body of the breaker for a more robust design, and incorporates the new charge valve which is now flush with the accumulator cover for optimum protection.

Technical data

Model	Length without tool		Approximate Operating Weight		Impact Rate	Working Pressure		Oil Flow		Tool Shank diameter		Part Number
	mm	in	kg	lbs		bar	psi	l/min	gpm	mm	in	
SB 300 Scaler	850	33	321	706	900-1010	100-110	1,450-1,595	50-80	13.2-21.1	80	3.1	8460 0100 03
SB 450 Scaler	925	36	435	957	900-960	100-110	1,450-1,595	50-100	13.2-26.4	95	3.7	8460 0100 06

Reduce downtime, increase lifetime



Central lubrication system

	Part No.
12 V (including nipples)	8202 5303 85
24 V (including nipples)	8202 5303 93

Tools, tool retainers and bushings need to be lubricated at regular intervals. With our central lubrication system, grease is continuously pumped to the breaker. This gives you two advantages: first, you eliminate downtime caused by lubrication stops; second, you protect your breaker because it's always being lubricated properly.



Shank grease

	Part No.
Chisel paste cartridge, 12x400 g (4.1 oz)	3363 0949 13
Chisel paste container, 15 kg (33.0 lbs)	3362 2639 00
Chisel paste container, 45 kg (99.2 lbs)	3362 2632 75

Grease that stays where you want it

When the shank of the tool gets hot, standard grease will melt and run off. We make our own grease: it's rich in graphite and copper which gives it high temperature stability for superior lubrication.



Choose the right breaker

Model	Excavator	
	tonnes	lbs
SB 300	4.5-9.0	8,800-19,800
SB 450	6.0-12.0	13,200-22,000

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



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 behavior, performance and productivity.

Genuine working tools from Atlas Copco are made from a special alloy that has been optimized for hydraulic breaker applications. A complex heat treatment process and strict quality control at all stages of production in our own facilities guarantee maximum durability.

Working tools may look just like a piece of steel, but they are the result of a long and complex development process backed by extensive experience in the field.

So do not take any risks. Only genuine working tools will ensure that your Atlas Copco breaker remains the unit that you bought: a reliable, safe production unit good for many millions of impacts.

Model	Tool type	Tool width		Working length		Total length		Part number
		mm	in	mm	in	mm	in	
SB 300/SB 300 Scaler	1 Moil Point	-	-	475	18,7	800	31,5	3083 3191 00
	1 Moil Point	-	-	675	26,6	1000	39,4	3083 3191 01
	2 Chisel (cross)	80	3,1	475	18,7	800	31,5	3083 3192 00
	2 Chisel (cross)	80	3,1	675	26,6	1000	39,4	3083 3192 01
	3 Blunt tool	-	-	475	18,7	800	31,5	3083 3195 00
	4 Wide chisel (cross)	160	6,3	445	17,5	770	30,3	3083 3193 00
	4 Wide chisel (parallel)	160	6,3	445	17,5	770	30,3	3083 3194 00
	6 Scaling tool	-	-	420	16,5	800	31,5	3083 3405 90
SB 450/SB 450 Scaler	1 Moil Point	-	-	460	18,1	840	33,1	3083 3177 00
	1 Moil Point	-	-	820	32,3	1200	47,2	3083 3177 01
	2 Chisel (cross)	95	3,7	460	18,1	840	33,1	3083 3178 00
	2 Chisel (cross)	95	3,7	620	24,4	1000	39,4	3083 3178 01
	3 Blunt tool	-	-	460	18,1	840	33,1	3083 3188 00
	4 Wide chisel (cross)	180	7,1	420	16,5	800	31,5	3083 3179 00
	6 Scaling tool	-	-	440	17,3	820	32,3	3083 3406 90

Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability



1. Moil point



2. Chisel



3. Blunt tool



4. Wide chisel



5. Asphalt cutter



6. Scaling tool