

# Light hydraulic breakers

Solid body reliability.



*Atlas Copco*

# 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).





Atlas Copco

# 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	
<b>SB 50</b>	452	18	35	77	1,140-1,500	100-150	1,450-2,175	11-13.5	2.9-3.57	32	1.3	8460 0230 00
<b>SB 100</b>	604	24	75	165	600-1,740	100-150	1,450-2,175	11.5-31	3.0-8.2	45	1.8	8460 0200 05
<b>SB 150</b>	710	28	120	264	540-1,080	100-150	1,450-2,175	20-40	5.3-10.6	50	2.0	8460 0224 05
<b>SBC 410</b>	700	28	200	440	480-1,200	100-150	1,450-2,175	30-65	7.9-17.2	65	2.6	8460 0223 02
<b>SB 300</b>	850	33	312	686	480-960	100-150	1,450-2,175	50-80	13.2-21.1	80	3.1	8460 0100 01
<b>SB 450</b>	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

<b>SB 150S</b>	710	28	135	297	540-1,080	100-150	1,450-2,175	20-40	5.3-10.6	50	2.0	8460 0224 06
<b>SB 200S</b>	713	28	200	440	900-1,750	100-150	1,450-2,175	30-65	7.9-17.2	65	2.6	8460 0300 50
<b>SB 300S</b>	850	33	318	700	480-960	100-150	1,450-2,175	50-80	13.2-21.1	80	3.1	8460 0100 07
<b>SB 450S</b>	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.



## 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.



## Optimized for scaling

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

## 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	
<b>SB 300 Scaler</b>	850	33	321	706	900-1010	100-110	1,450-1,595	50-80	13.2-21.1	80	3.1	8460 0100 03
<b>SB 450 Scaler</b>	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

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.



## Central lubrication system

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

## Shank grease

	Part No.
Grease gun cartridge 400 g (4.1 oz)	3315 0381 00
Grease container 17 kg (37.5 lbs)	3315 1956 00



## 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.

# Hitting above their weight

The SB range consists of six models with an operating weight of 35 to 435 kg. They can be used on carriers weighing between 0.35 and 12 tonnes.

But take a close look at the weight and impact figures of the different breakers: because of their high power-to-weight ratio, you can often use a hard hitting breaker on a smaller carrier without sacrificing stability.

## Choose the right breaker

Model	Excavator	
	tonnes	lbs
SB 50	0.35-0.7	770-1,550
SB 100	1.1-3.0	1,550-4,400
SB 150	1.9-4.5	2,700-6,000
SB 200/SBC 410	2.8-6.0	5,500-12,100
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.*



# Don't compromise



Poor quality tools can be a very expensive investment. If you're unlucky, filings from low grade metal can shear off, enter the hydraulic system and cause serious damage to the breaker and carrier.

Atlas Copco tools are made from a nickel-chrome alloy that has been optimized for breaking applications. Each tool is precision formed and temper hardened for maximum wear resistance. To extend service lifetime still further, the tool heads are forged, rather than machine turned.



Model	Tool type	Tip width		Working length		Total length		Part no.
		mm	in	mm	in	mm	in	
SB 50	1			250	9.8	415	16.3	3083 3185 00
	2	32	1.3	250	9.8	415	16.3	3083 3186 00
	4	150	5.9	250	9.8	415	16.3	3083 3187 00
SB 100	1			350	13.8	550	21.7	3083 3101 00
	1			500	19.7	700	27.6	3083 3101 01
	2	45	1.8	350	13.8	550	21.7	3083 3102 00
	3	45	1.8	480	18.9	680	26.8	3083 3204 00
	4	80	3.1	320	12.6	520	20.5	3083 3103 00
	4 (90°)	80	3.1	320	12.6	520	20.5	3083 3104 00
SB 150	5	125	4.9	280	11.0	480	18.9	3083 3115 00
	5 (90°)	125	4.9	280	11.0	480	18.9	3083 3116 00
	1			310	12.2	510	20.1	3083 3169 00
	2	50	2.0	310	12.2	510	20.1	3083 3170 00
	3	55	2.2	370	14.6	570	22.4	3083 3182 00
SB 200/SBC 410	4	125	4.9	280	11.0	480	18.9	3083 3171 00
	4 (90°)	125	4.9	280	11.0	480	18.9	3083 3172 00
	5	115	4.5	290	11.4	490	19.3	3083 3173 00
	5 (90°)	115	4.5	290	11.4	490	19.3	3083 3174 00
	1			320	12.6	600	23.6	3083 3162 00
SB 300	1			620	24.4	900	35.4	3083 3162 01
	2	65	2.6	320	12.6	600	23.6	3083 3161 00
	3	80	3.1	420	16.5	700	27.6	3083 3189 00
	4	125	4.9	370	14.6	650	25.6	3083 3163 00
	4 (90°)	125	4.9	370	14.6	650	25.6	3083 3167 00
SB 300	1			470	18.5	800	31.5	3083 3191 00
	1			675	26.6	1000	39.4	3083 3191 01
	2	80	3.1	470	18.5	800	31.5	3083 3192 00
	3	80	3.1	420	16.5	750	29.5	3083 3195 00
SB 450	4	160	6.3	445	17.5	770	30.3	3083 3193 00
	4 (90°)	160	6.3	445	17.5	770	30.3	3083 3194 00
	6	80	3.1	420	16.5	800	31.5	3083 3405 00
	1			460	18.1	840	33.1	3083 3177 00
SB 450	1			820	32.3	1200	47.2	3083 3177 01
	2	95	3.7	460	18.1	840	33.1	3083 3178 00
	3	95	3.7	395	15.6	775	30.5	3083 3188 00
	3	95	3.7	395	15.6	820	32.3	3083 3188 05
	4	180	7.1	415	16.3	800	31.5	3083 3179 00
	6	95	3.7	395	15.6	820	32.3	3083 3406 00

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