



HYDRAULIC BREAKERS SB RANGE

A solid body, an innovative tool
guiding system and a remarkable
hydraulic design



Atlas Copco

Solid productivity you can rely on!

We introduced the innovative hydraulic breaker 50 years ago

And it transformed the construction and mining industries. With your productivity and total cost of ownership as our priority, we have continued to refine this winning concept.

Everything you want from a hydraulic breaker

SB hydraulic breakers are slim, compact and simple to handle, making them extremely versatile. Combining superior efficiency and performance with high reliability and serviceability.

We are committed to Sustainable Productivity – it's our brand promise.

With us you know what you're getting

Atlas Copco Construction Tools is certified according to ISO 9001:2008, ISO 14001:2004, and OHSAS18001:2007.

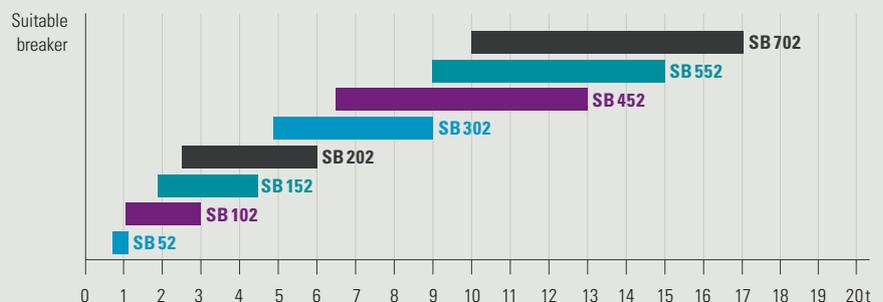
Our hydraulic breakers conform to the provisions of EC Directive 2006/42/EC (Machinery Directive) and 2000/14/EC (Noise Directive).

Whatever your industry

Choose an SB hydraulic breaker as your partner for a huge range of tasks. Suitable for most carriers like micro and mini excavators, backhoe and skid steer loaders as well as demolition robots, it will get the job done – quickly and economically!

Carrier weight classes

This table provides a rough guide. For a perfect fit between carrier and attachment, contact your Atlas Copco customer center or your local distributor.

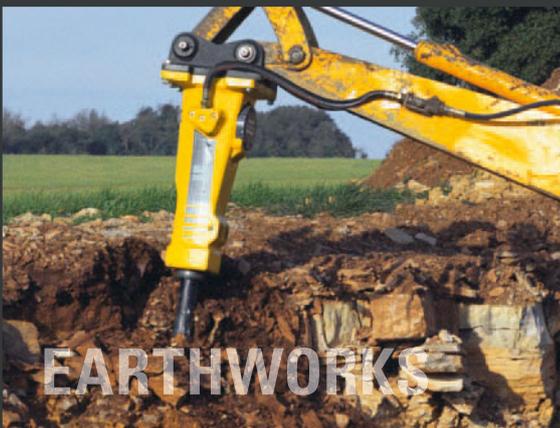


Application overview

			SB	MB	HB
Mining & quarrying					
	Preliminary works	<ul style="list-style-type: none"> › Overburden removal › Bench, road & ramp leveling › Roof, face & rib scaling 	●	●	○
	Secondary breaking	<ul style="list-style-type: none"> › Boulder reduction in rock pile › Removing blockages at crushing systems 	○	●	●
	Primary rock breaking	<ul style="list-style-type: none"> › Selective rock breaking › Blast-free mining 	—	○	●
Demolition & renovation					
	Masonry structures	<ul style="list-style-type: none"> › Brickwork › Natural stone › Autoclaved aerated concrete 	●	○	—
	Concrete structures	<ul style="list-style-type: none"> › Lightweight concrete › Standard concrete 	●	●	○
		<ul style="list-style-type: none"> › Heavyweight concrete 	—	○	●
	Composite steel & concrete structures	<ul style="list-style-type: none"> › Steel-reinforced concrete › Prestressed concrete › Fiber-reinforced concrete 	○	●	●
	Pavements	<ul style="list-style-type: none"> › Asphalt › Concrete › Composite surfaces 	●	●	●
Construction					
	Earthworks	<ul style="list-style-type: none"> › Trenching › Pit building › Ground excavation 	○	●	●
	Tunneling	<ul style="list-style-type: none"> › Tunnel driving › Roof, face & rib scaling › Floor leveling 	○	●	●
	Dredging	<ul style="list-style-type: none"> › Canal deepening & extension › Dock deepening & extension 	○	○	●
	Gardening & Landscaping	<ul style="list-style-type: none"> › Fencing › Ground excavation › Rock breaking 	●	○	—
	Foundation works	<ul style="list-style-type: none"> › Ground leveling 	—	○	●
	Building construction	<ul style="list-style-type: none"> › Foundation pile driving 	—	○	●
Metallurgical industry					
	Slag recycling	<ul style="list-style-type: none"> › Boulder reduction in slag heap › Removing blockages at crushing systems 	○	●	●
	Cleaning & debricking	<ul style="list-style-type: none"> › Ladles › Converter mouths › Kilns 	●	○	—

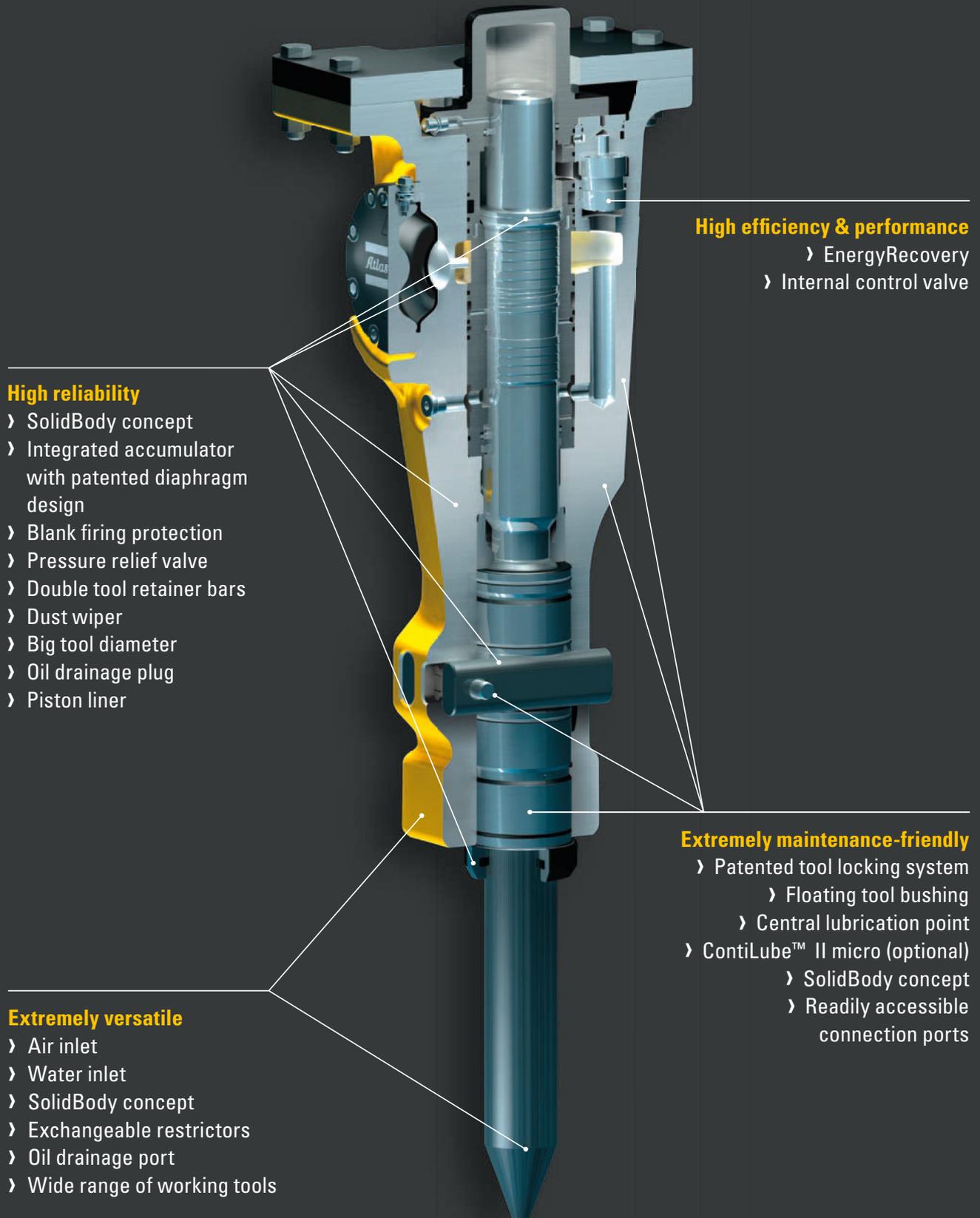
● Optimal ○ Suitable — Unsuitable

Your job, our breakers





Our features make the difference



UNIQUE DESIGN STRUCTURE

- › **SolidBody concept** integrating percussion mechanism and guide system into a single block of special cast iron, decreasing the total number of parts significantly, eliminating certain components, e.g. damping & guiding elements and tie rods or stud bolts, completely and resulting in an extremely slim and compact shape to simplify handling
- › Replaceable **piston liner** for low repair costs
- › **Oil drainage plug** for quick & controlled oil exchange or release prior to oil quality changes or general overhauling
- › Readily accessible lateral **connection ports** for quick carrier installation and improved protection
- › **Water inlet** and integrated water channel for dust suppression
- › **Air inlet** to connect compressed air supply for underwater and tunneling work
- › Fully **interchangeable parts and components** for condition-based maintenance and servicing

INNOVATIVE TOOL GUIDING SYSTEM

- › **Patented tool locking system** with lock buffer and solid pin for quick tool exchange
- › **Central lubrication point** to simplify manual tool greasing
- › Atlas Copco designed self-priming lubrication pump **ContiLube™ II micro** with adjustable grease volume for uninterrupted operation and optimized lubrication
- › Tool bushing with **floating fit** for easy exchange on-site with standard hand tools
- › Integrated **dust wiper** to extend service life of bushing and retainer bars
- › Two oval-shaped tool **retainer bars** and a **big tool diameter** to increase durability

Watch video: scan the QR code or visit us on <http://www.youtube.com/atlascopcoconstruct>



REMARKABLE HYDRAULIC DESIGN

- › Built-in **pressure relief valve** to protect against overloads
- › **EnergyRecovery** utilizing automatically the piston recoil energy to increase the performance without additional hydraulic input and to lower vibrations
- › **Internal control valve** for increased efficiency
- › Maintenance-free **high-pressure accumulator** integrated in the hammer body for higher protection and a patented diaphragm support to extend service life
- › Dampening chamber on piston for lowering stresses caused by **blank firing protection** and vibrations
- › A number of exchangeable **restrictors** enable the adaptation to different carrier oil flows

SB breaker range



			SB 52	SB 102	SB 152
Technical data	Carrier weight class ¹⁾	t	0,7–1,1	1,1–3,0	1,9–4,5
	Service weight ²⁾	kg	55	90	140
	Oil flow rate	l/min	12–27	16–35	25–45
	Operating pressure	bar	100–150	100–150	100–150
	Max. hydraulic input power	kW	7	9	11
	Impact rate	bpm	750–1.700	750–2.300	850–1.900
	Working tool diameter	mm	40	45	50
	Sound power level guaranteed ³⁾	dB(A)	117	115	114
	Sound pressure level (r=10m) ³⁾	dB(A)	89	87	85
Feature overview	EnergyRecovery		●	●	●
	ContiLube™ II micro/ContiLube™ II		○	○	○
	AutoStart		●	●	●
	Water inlet (for dust suppression)		–	–	●
	Water nozzles		–	–	○
	Air inlet (for underwater/tunneling work)		●	●	●
	Oil drainage plug		–	–	●
	Pressure relief valve		●	●	●
	Dust wiper		●	●	●
Replaceable wear protection plate		–	–	–	

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

2) SB-Breaker with standard adapter, screw kit plus working tool; MB/HB-Breaker and breaker box with standard adapter plus working tool

3) Important: EN ISO 3744 in accordance with directive 2000/14/EC. Full details of measurement are available in the Safety and Operating instruction of the product. It can be found on: www.acprintshop.com

● = standard ○ = optional

ContiLube™ II micro

The automatic lubrication device is easy to access and provides optimum lubrication. The 150 g cartridge can be changed quickly without need for special tools.



Fluids

When operating a hydraulic breaker it is essential to use the right grease. Our special hydraulic breaker chisel paste provides excellent properties in a wide temperature range.



SB 202	SB 302	SB 302 Scaler	SB 452	SB 452 Scaler	SB 552	SB 702
2,5–6,0	4,5–9,0	4,5–9,0	6,5–13	6,5–13,0	9,0–15,0	10,0–17,0
200	300	300	440	440	520	720
35–65	50–80	50–80	55–100	70–100	65–115	80–120
100–150	100–150	100–110	100–150	100–110	100–150	120–170
17	20	15	25	19	29	34
850–1.800	600–1.400	950–1.250	550–1.250	850–1.150	650–1.150	600–1.050
65	80	80	95	95	100	105
118	119	118	122	122	126	122
90	91	89	94	94	97	94
●	●	●	●	●	●	●
○	○	○	○	○	○	○
●	●	●	●	●	●	●
●	●	●	●	●	●	●
○	○	●	○	●	○	○
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
–	–	–	–	–	–	●



1+2 program = three years warranty without extra costs

For all Atlas Copco hydraulic breakers,
three years of warranty at no extra cost.

- Protected investment and peace of mind
- Time to focus on your business
- Higher breaker resale value



Working Tools

The comprehensive offering of Atlas Copco's ClassicLine makes your hydraulic breaker a versatile machine.



Moil point (conical)



Moil point (X-Profile)



Chisel



Chisel (X-Profile)



Blunt tool

Model	Tool type	Tool width	Working length	Total length
		mm	mm	mm
SB 52	Moil point (conical)	–	255	420
	Moil point (X-Profile)	–	255	420
	Chisel (cross)	40	255	420
	Chisel (X-Profile)	40	255	420
	Wide chisel (cross/parallel)	75	255	420
	Asphalt cutter (cross/parallel)	120	255	420
	Tamping tool (shaft + pad)	200 x 200	–	400
	Post driver tool (shaft + pad)	∅ 100	–	400
	Pile driver tool (shaft + pad)	∅ 50	–	400
	Bushing tool (shaft + pad)	∅ 90	–	400
SB 102	Moil point (conical)	–	250	450
	Moil point (X-Profile)	–	250	450
	Chisel (cross)	45	250	450
	Chisel (X-Profile)	45	250	450
	Blunt tool	–	250	450
	Wide chisel (cross/parallel)	75	320	520
	Asphalt cutter (cross/parallel)	120	280	480
	Tamping tool (shaft + pad)	200 x 200	–	450
	Post driver tool (shaft + pad)	∅ 100	–	450
	Pile driver tool (shaft + pad)	∅ 50	–	450
Bushing tool (shaft + pad)	∅ 90	–	450	
SB 152	Moil point (conical)	–	250	510
	Moil point (X-Profile)	–	250	510
	Chisel (cross)	50	250	510
	Chisel (X-Profile)	50	250	510
	Blunt tool	–	250	510
	Wide chisel (cross/parallel)	110	220	480
	Asphalt cutter (cross/parallel)	120	230	490
	Tamping tool (shaft + pad)	200 x 200	–	510
	Post driver tool (shaft + pad)	∅ 100	–	510
	Pile driver tool (shaft + pad)	∅ 50	–	510
Bushing tool (shaft + pad)	∅ 90	–	510	
SB 202	Moil point (conical)	–	300	600
	Moil point (X-Profile)	–	300	600
	Chisel (cross)	65	300	600
	Chisel (X-Profile)	65	300	600
	Blunt tool	–	300	600
	Wide chisel (cross/parallel)	130	350	650
	Asphalt cutter (cross/parallel)	140	350	650
	Tamping tool (shaft + pad)	300 x 300	–	600
	Post driver tool (shaft + pad)	∅ 150	–	600
	Pile driver tool (shaft + pad)	∅ 100	–	600
Bushing tool (shaft + pad)	∅ 130	–	600	

Model	Tool type	Tool width	Working length	Total length
		mm	mm	mm
SB 302	Moil point (conical)	–	440	800
	Moil point (X-Profile)	–	440	800
	Chisel (cross)	80	440	800
	Chisel (X-Profile)	80	440	800
	Blunt tool	–	440	800
	Wide chisel (cross/parallel)	150	410	770
	Asphalt cutter (cross/parallel)	200	360	720
	Tamping tool (shaft + pad)	300 x 300	–	600
	Post driver tool (shaft + pad)	∅ 150	–	600
	Pile driver tool (shaft + pad)	∅ 100	–	600
	Bushing tool (shaft + pad)	∅ 130	–	600
SB 452	Moil point (conical)	–	470	840
	Moil point (X-Profile)	–	470	840
	Chisel (cross)	95	470	840
	Chisel (X-Profile)	95	470	840
	Blunt tool	–	470	840
	Wide chisel (cross/parallel)	180	430	800
	Asphalt cutter (cross/parallel)	200	480	850
	Tamping tool (shaft + pad)	400 x 400	–	700
	Post driver tool (shaft + pad)	∅ 200	–	700
	Pile driver tool (shaft + pad)	∅ 150	–	700
	Bushing tool (shaft + pad)	∅ 190	–	700
SB 552	Moil point (conical)	–	475	900
	Moil point (X-Profile)	–	475	900
	Chisel (cross)	100	475	900
	Chisel (X-Profile)	100	475	900
	Blunt tool	–	475	900
	Wide chisel (cross/parallel)	180	375	800
	Asphalt cutter (cross/parallel)	200	425	850
	Tamping tool (shaft + pad)	400 x 400	–	900
	Post driver tool (shaft + pad)	∅ 200	–	900
	Pile driver tool (shaft + pad)	∅ 150	–	900
	Bushing tool (shaft + pad)	∅ 190	–	900
SB 702	Moil point (conical)	–	570	1.000
	Moil point (X-Profile)	–	570	1.000
	Chisel (cross)	105	570	1.000
	Chisel (X-Profile)	105	570	1.000
	Blunt tool	–	570	1.000
	Wide chisel (cross/parallel)	200	570	1.000
	Tamping tool (shaft + pad)	400 x 400	–	1.000
	Post driver tool (shaft + pad)	∅ 200	–	1.000
	Pile driver tool (shaft + pad)	∅ 150	–	1.000
	Bushing tool (shaft + pad)	∅ 190	–	1.000



Wide chisel



Asphalt cutter



Tamping pad



Post drive pad



Pile drive pad



Bushing pad

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.

www.atlascopco.com

The Atlas Copco logo consists of the company name in a stylized, italicized serif font, centered between two horizontal bars. The top bar is a solid blue rectangle, and the bottom bar is a white rectangle with a blue border, creating a frame for the text.

Atlas Copco