



HYDRAULIC BREAKERS MB & HB RANGE

High efficiency & performance,
low noise & vibration



Atlas Copco

Efficiency and performance 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

Medium and Heavy hydraulic breakers are efficient and highly adaptable products, making them extremely versatile. Combining superior efficiency and performance with high durability and low impact on the environment.

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).

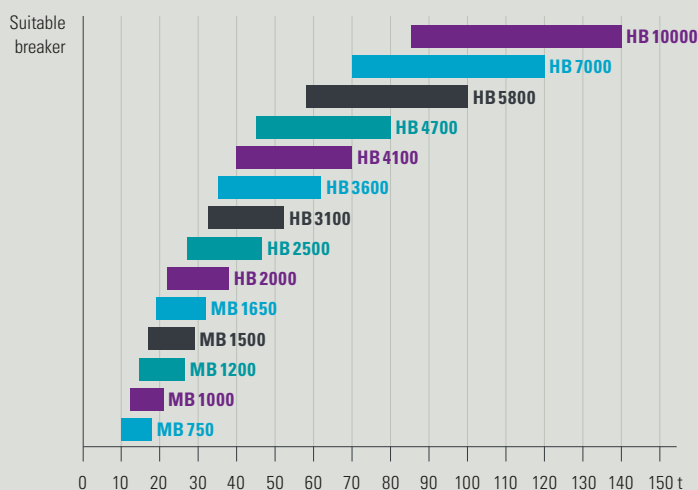
Whatever your industry

Choose our hydraulic breakers as your partner for a huge range of tasks.

Suitable for a wide range of carriers like wheeled and crawler excavators 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 dealer.

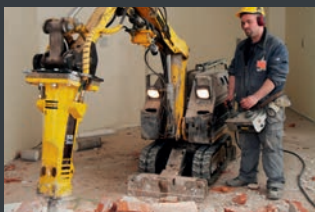


Application overview

Mining & quarrying

			SB	MB	HB
	Preliminary works	› Overburden removal › Bench, road & ramp leveling › Roof, face & rib scaling	●	●	○
	Secondary breaking	› Boulder reduction in rock pile › Removing blockages at crushing systems	○	●	●
	Primary rock breaking	› Selective rock breaking › Blast-free mining	—	○	●

Demolition & renovation

	Masonry structures	› Brickwork › Natural stone › Autoclaved aerated concrete	●	○	—
	Concrete structures	› Lightweight concrete › Standard concrete › Heavyweight concrete	●	●	○
	Composite steel & concrete structures	› Steel-reinforced concrete › Prestressed concrete › Fiber-reinforced concrete	○	●	●
	Pavements	› Asphalt › Concrete › Composite surfaces	●	●	●

Construction

	Earthworks	› Trenching › Pit building › Ground excavation	○	●	●
	Tunneling	› Tunnel driving › Roof, face & rib scaling › Floor leveling	○	●	●
	Dredging	› Canal deepening & extension › Dock deepening & extension	○	○	●
	Gardening & Landscaping	› Fencing › Ground excavation › Rock breaking	●	○	—
	Foundation works	› Ground leveling	—	○	●
	Building construction	› Foundation pile driving	—	○	●

Metallurgical industry

	Slag recycling	› Boulder reduction in slag heap › Removing blockages at crushing systems	○	●	●
	Cleaning & debricking	› Ladles › Converter mouths › Kilns	●	○	—

● Optimal ○ Suitable — Unsuitable

Your job, our breakers





PRIMARY ROCK
BREAKING



SECONDARY ROCK
BREAKING



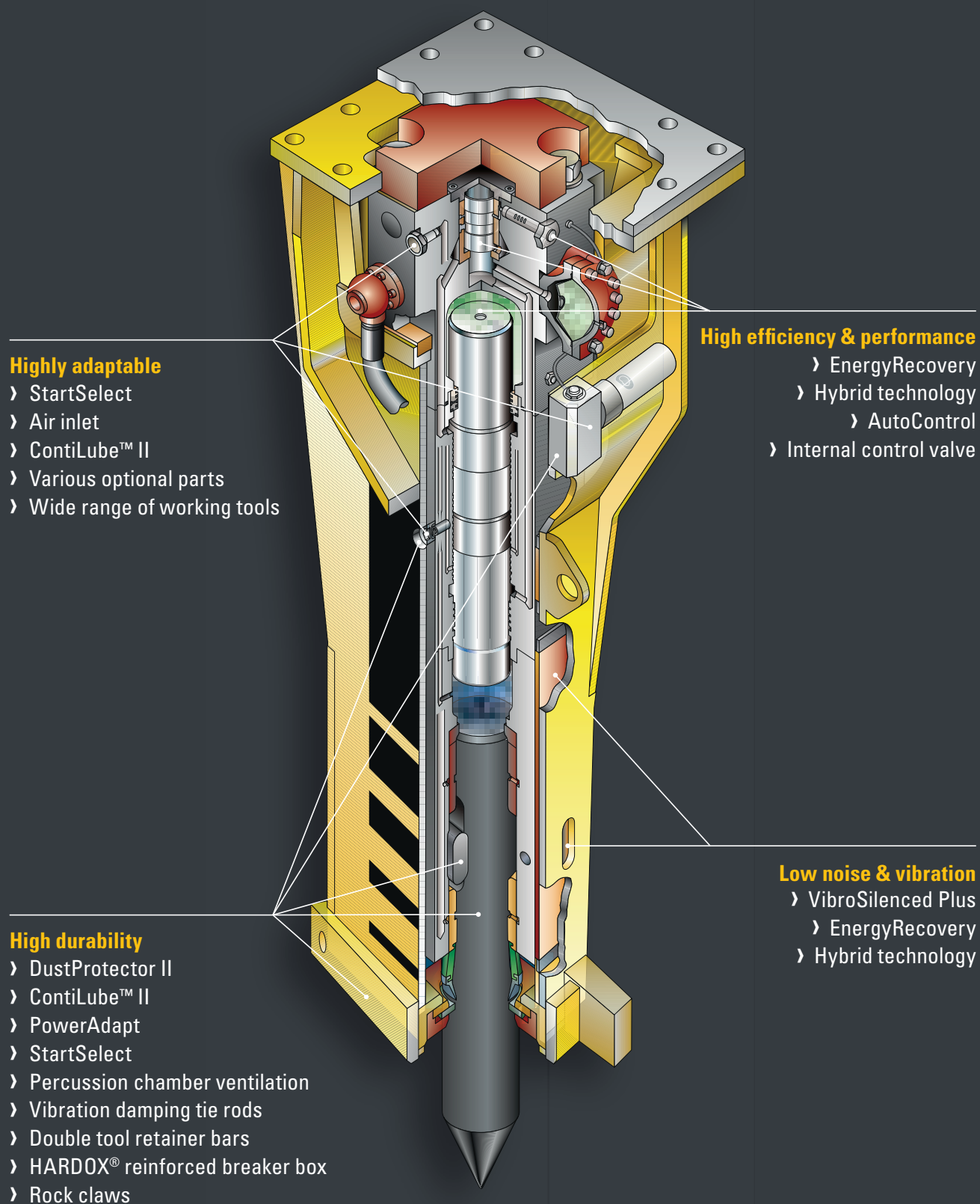
PILE DRIVING



TUNNELING



Our features make the difference



- › **EnergyRecovery** utilizing automatically the piston recoil energy to increase the performance without additional hydraulic input and to lower vibrations
- › Automatic piston stroke length switching system **AutoControl** adjusts the output balance during operation thus optimizing the performance
 - › Long stroke mode provides high impact energy and normal impact rate in hard rock
 - › Short stroke mode provides normal impact energy and high impact rate in softer material
- › Internal control valve for increased efficiency
- › Integrated **StartSelect** valve enables the operator to adjust the hydraulic breaker start-up behaviour according to the operating condition in a few simple steps
 - › In the AutoStart mode the hydraulic breaker starts without load applied to working tool thus simplifying handling
 - › In the AutoStop mode the hydraulic breakers runs only when load is applied to working tool thus preventing blank firing
- › Patented dust sealing system **DustProtector II**, combining 2 independently operating wipers, one for coarse debris and one for fine dust, extending service life of components and lower grease consumption
- › Active non-return valve **ventilating the percussion chamber** during the upwards movement of the piston minimizing penetration of abrasive dust and expelling dust contaminated grease from the tool guiding section
- › **Air inlet** to connect compressed air supply for underwater and tunneling work
- › Atlas Copco designed self-priming lubrication pump **ContiLube™ II** with adjustable grease volume, directly mounted on the hydraulic breaker, for uninterrupted operation and optimized lubrication
- › **Hybrid technology** with an integrated nitrogen piston accumulator for constantly high impact energy, safe start-up and smooth operation
- › Built-in overload protection valve **PowerAdapt** shuts off the hydraulic breaker when operating pressure is not in line with specifications thus protecting it from costly downtimes and repairs
- › Two oval-shaped tool **retainer bars**, with a simple but reliable locking system, for quick tool exchange and increased durability
- › Fully enclosed **breaker box design** to prevent wear on the percussion mechanism, as well as HARDOX® reinforcements and rock claws on the bottom section of the breaker box to prevent premature wear
- › **VibroSilenced Plus** system isolating percussion mechanism and breaker box by polyurethane damping and guiding elements and sealing of all breaker openings to reduce noise and vibration levels
- › **Vibration damping tie rods** with polyurethane collar and HeliCoil locking system for high durability
- › Fully **interchangeable parts and components** for condition-based maintenance and servicing

MB breaker range



			MB 750	MB 1000
Technical data	Carrier weight class ¹	t	10–17	12–21
	Service weight ²	kg	750	1.000
	Oil flow rate	l/min	80–120	85–130
	Operating pressure	bar	140–170	160–180
	Max. hydraulic input power	kW	34	39
	Impact rate	bpm	370–840	350–750
	Working tool diameter	mm	100	110
	Sound power level guaranteed ³	dB(A)	117	119
	Sound pressure level (r=10m) ³	dB(A)	88	90
Feature overview	EnergyRecovery		●	●
	ContiLube™ II		●	●
	AutoControl		—	●
	AutoStart		●	●
	StartSelect (AutoStart & AutoStop)		—	—
	Air inlet (for underwater/tunneling work)		●	●
	DustProtector II		○	○

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

² 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

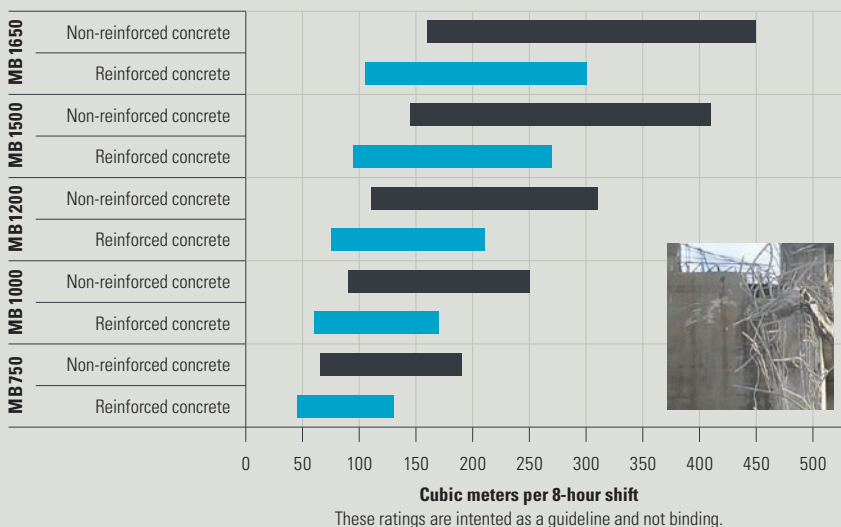
● = standard ○ = optional

Production ratings

The production ratings in the charts can be influenced by a wide range of factors such as:

- › the type, structure, hardness of the material to be broken
- › the degree of material reduction required
- › the setting and condition of the carrier and hydraulic breaker
- › the skills and experience of the operator

Production ratings in CONCRETE



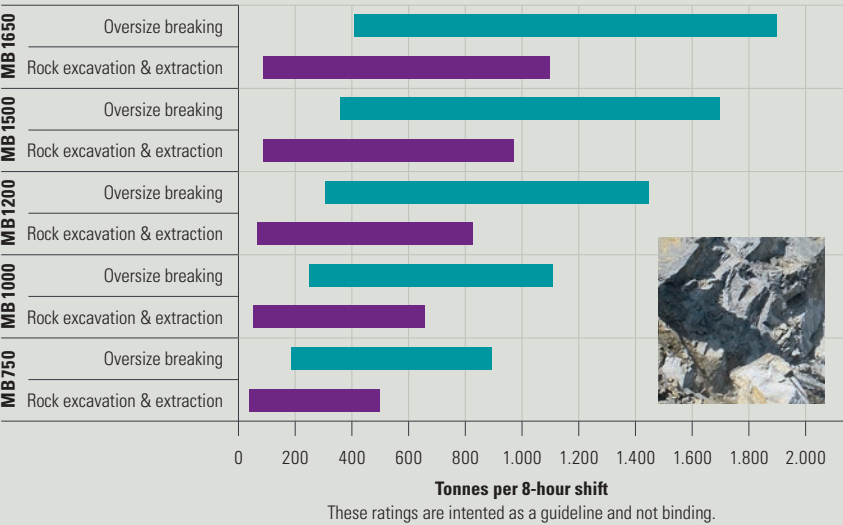
MB 1200	MB 1500	MB 1650
15–26	17–29	19–32
1.200	1.500	1.650
100–140	120–155	130–170
160–180	160–180	160–180
42	46	51
340–680	330–680	320–640
120	135	140
117	120	TBA
88	91	TBA
●	●	●
●	●	●
●	●	●
—	—	—
●	●	●
●	●	●
○	○	○



Scan the code and watch the video about the breaker installation and operator instructions



Production ratings in ROCK



HB breaker range



			HB 2000	HB 2500
Technical data	Carrier weight class ¹	t	22–38	27–46
	Service weight ²	kg	2.000	2.500
	Oil flow rate	l/min	150–190	170–220
	Operating pressure	bar	160–180	160–180
	Max. hydraulic input power	kW	57	66
	Impact rate	bpm	300–625	280–580
	Working tool diameter	mm	145	155
	Sound power level guaranteed ³	dB(A)	120	121
	Sound pressure level (r=10m) ³	dB(A)	91	92
Feature overview	EnergyRecovery		●	●
	ContiLube™ II		●	●
	AutoControl		●	●
	StartSelect (AutoStart & AutoStop)		●	●
	Air inlet (for underwater/tunneling work)		●	●
	PowerAdapt		●	●
	DustProtector II		○	○

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

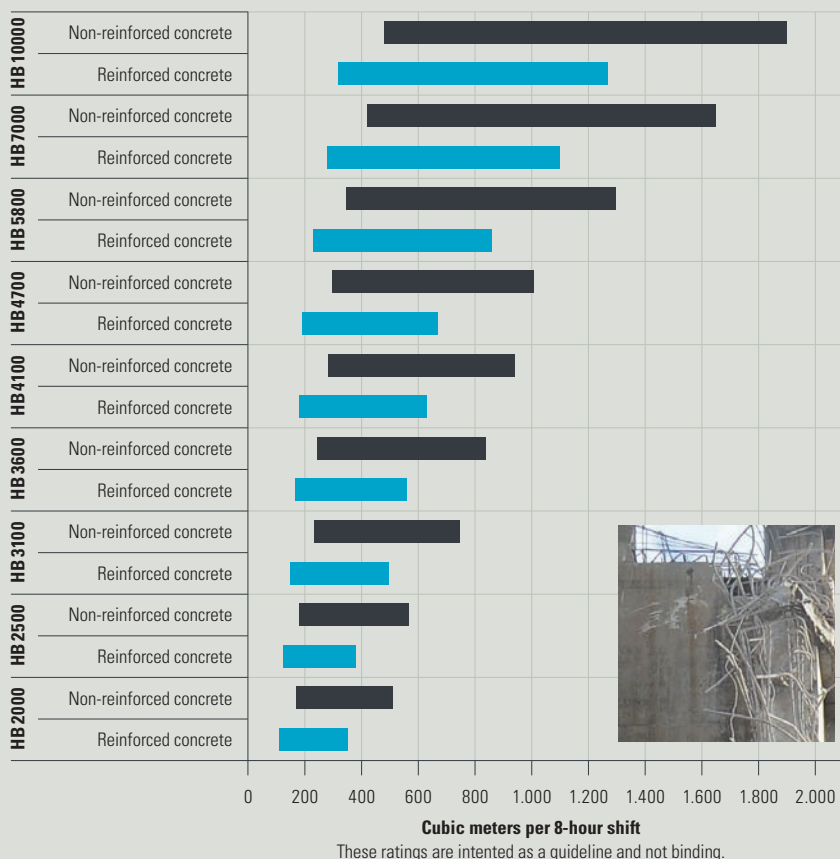
² MB/HB-Breaker and breaker box with standard adapter plus working tool ³ Important: EN ISO 3744 in accordance with directive 2000/14/EC.

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- › the setting and condition of the carrier and hydraulic breaker
- › the skills and experience of the operator

Production ratings in CONCRETE

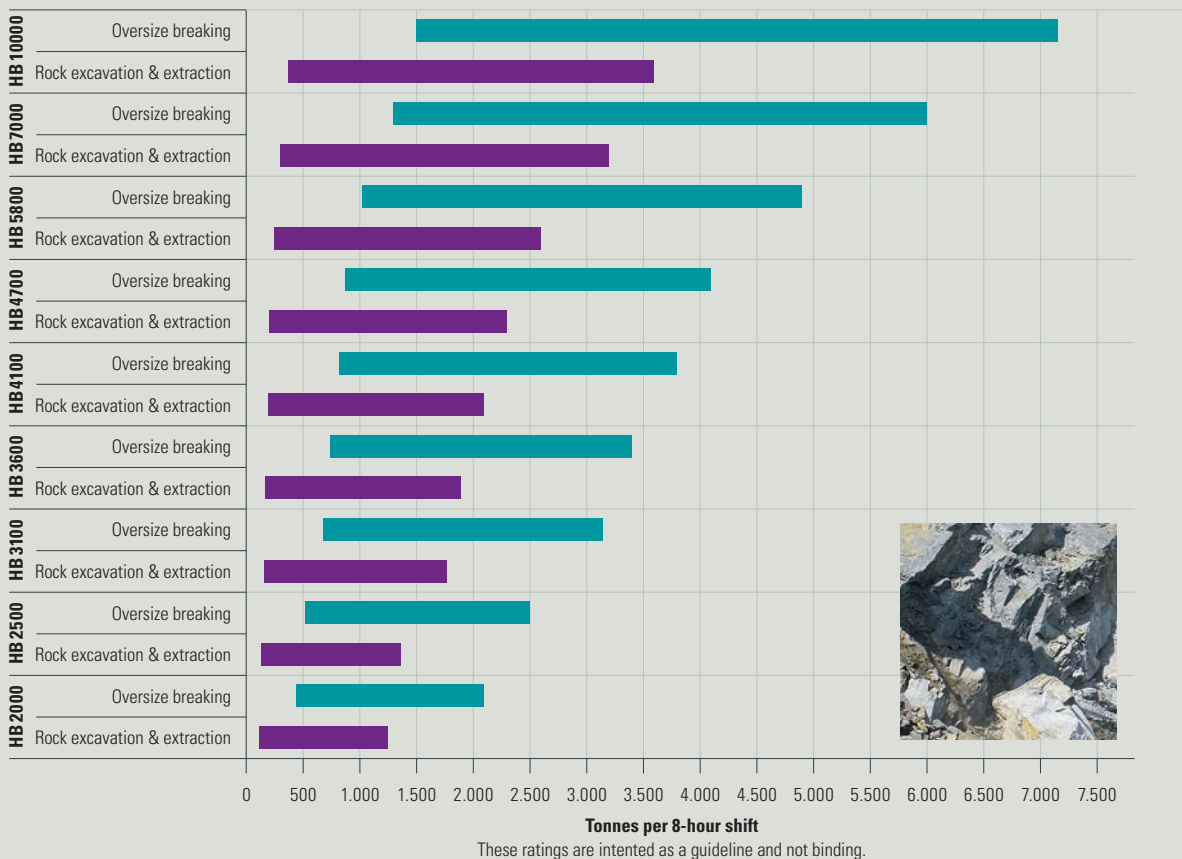


HB 3100	HB 3600	HB 4100	HB 4700	HB 5800	HB 7000	HB 10000
32–52	35–63	40–70	45–80	58–100	70–120	85–140
3.100	3.600	4.100	4.700	5.800	7.000	10.000
210–270	240–300	250–320	260–360	310–390	360–450	450–530
160–180	160–180	160–180	160–180	160–180	160–180	160–180
81	90	96	108	117	135	159
280–560	280–560	280–550	280–540	280–480	280–450	250–380
165	170	180	190	200	210	240
120	123	124	126	121	121	123
91	93	94	97	92	92	93
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
○	○	○	○	○	○	●

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

Production ratings in ROCK



Working Tools



The comprehensive offering of our ClassicLine and ProLine makes your hydraulic breaker a productive machine in your daily operation.

Moil point

- › Non-reinforced concrete breaking
- › Primary breaking of compact and slightly fractured sedimentary rock

Chisel

- › Reinforced concrete breaking
- › Primary breaking of highly fractured sedimentary, metamorphic & igneous rock

Blunt tool

- › Secondary breaking of concrete & all rock types
- › Primary breaking of compact to slightly fractured metamorphic & igneous rock
- › Scaling

ClassicLine

Model		MB 750	MB 1000	MB 1200	MB 1500	MB 1650
Standard total length	mm	920	1,040	1,080	1,125	1,150
Working length Standard version	mm	510	570	600	635	670
Working length DustProtector version	mm	430	480	515	555	570
Moil point		•	•	•	•	•
Chisel (cross/parallel)		•	•	•	•	•
Blunt tool		•	•	•	•	•

ProLine

Model		MB 750	MB 1000	MB 1200	MB 1500	MB 1650
Standard total length	mm	1,000	1,100	1,150	1,175	1,200
Working length Standard version	mm	590	630	670	685	720
Working length DustProtector version	mm	510	540	585	605	620
Moil point		•	•	•	•	•
Chisel (cross/parallel)		•	•	•	•	•
Blunt tool		•	•	•	•	•

ProLine

For extending the lifetime
in very dust intense work
and abrasive material.



HB 2000	HB 2500	HB 3100	HB 3600	HB 4100	HB 4700	HB 5800	HB 7000	HB 10000
1,200	1,310	1,380	1,430	1,530	1,580	1,650	1,700	1,820
635	640	675	700	750	790	815	835	—
570	600	630	650	705	730	760	785	800
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•

HB 2000	HB 2500	HB 3100	HB 3600	HB 4100	HB 4700	HB 5800	HB 7000	HB 10000
1,230	1,350	1,450	1,500	1,600	1,650	1,700	1,800	1,820
665	680	745	770	820	860	865	935	—
600	640	700	720	775	800	810	885	800
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•

Lubrication

Automatic lubrication device

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

ContiLube™ II micro
with 150 g cartridge



ContiLube™ II
with 500 g cartridge



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.



Our portfolio for your carrier



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

