

Hydraulic Breakers and Silent Demolition Tools

Products and Services



SB-hydraulic breakers (Small series)

Features:

- noise and vibration damping
- high availability
- individual usage
- high productivity

Applications:

- road construction
- smaller trenching and demolition jobs
- building renovation
- in quarries (feed size reduction on crusher)
- landscape gardening and landscaping

SB-hydraulic breakers		SB 50	SB 100
Carrier weight class ¹⁾	t	0,35 - 0,7	1,1 - 3,0
Service weight ²⁾	kg	35	83
Oil flow rate	l/min	11-13,5	11,5-35
Operating pressure	bar	150	100-150
Blow frequency	bpm	1500	600-1860
Working tool diameter	mm	32	45
Useful length of tool	mm	250	350
Pt.-Id. No.		-	-

Silenced version

Pt.-Id. No.	8460 0230 00	8460 0300 30
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¹⁾ Weights apply to standard carriers only. Any variances must be agreed with Atlas Copco and/or the carrier manufacturer prior to attachment.



SB 150	SB 200	SB 300	SB 450
1,9 - 4,5	2,8 - 6,0	4,5 - 9	6 - 12
125	200	312	419
20-40	30-65	50-80	50-100
100-150	100-150	100-150	100-150
540-1740	900 -1750	480-960	390-780
50	65	80	95
310	320	470	460
-	-	8460 0100 01	8460 0100 09

8460 0300 40	8460 0300 50	8460 0100 07	8460 0100 08
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²⁾ Breaker and breaker box with standard adapter plus working tool.

MB-hydraulic breakers (Medium series)

Features:

- noise and vibration damping
- maximum availability
- maximum productivity

Applications:

- primary breaking in quarries
- secondary breaking in quarries
- demolition
- tunneling
- trenching
- foundation work

ContiLube® II as standard on
MB 700, MB 1000, MB 1200 and MB 1700

MB-hydraulic breakers		MB 500	MB 700
Carrier weight class ¹⁾	t	8-15	10-18
Service weight ²⁾	kg	550	750
Oil flow rate	l/min	60-100	80-120
Operating pressure	bar	130-160	140-170
Blow frequency	bpm	440-1000	370-800
Stroke-length switching		-	-
Start-up mode		AutoStop	AutoStart
Working tool diameter	mm	90	100
Useful length of tool	mm	450	550
Pt.-Id. No.		3363 0901 87	-
Equipped with ContiLube® II			
Pt.-Id. No.		3363 0895 09	3363 0928 95
Equipped with DustProtector			
Useful length of tool	mm	-	510
Pt.-Id. No.		-	3363 0928 97

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



MB 1000	MB 1200	MB 1700
12-20	15-26	18-34
1000	1200	1700
85-130	100-140	130-160
160-180	160-180	160-180
350-750	340-680	320-600
Auto Control	Auto Control	Auto Control
AutoStart	StartSelect	StartSelect
110	120	140
570	605	650
-	-	-
3363 0887 85	3363 0904 41	3363 0904 49
540	580	625
3363 0887 87	3363 0904 43	3363 0904 51

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

HB-hydraulic breakers (Heavy series)

Features:

- noise and vibration damping
- maximum availability
- maximum productivity

Applications:

- primary breaking in quarries
- secondary breaking in quarries
- demolition
- tunneling
- trenching
- foundation work

ContiLube® II as standard

HB-hydraulic breakers		HB 2200	HB 3000
Carrier weight class ¹⁾	t	26-40	32-50
Service weight ²⁾	kg	2200	3000
Oil flow rate	l/min	140-180	210-270
Operating pressure	bar	160-180	160-180
Impact rate	bpm	280-550	280-540
Stroke-length switching		Auto Control	Auto Control
Start-up mode		StartSelect	StartSelect
Working tool diameter	mm	150	165
Useful length of tool	mm	650	795
Pt.-Id. No.		3363 0904 57	3363 0904 65
Equipped with DustProtector			
Useful length of tool	mm	605	750
Pt.-Id. No.		3363 0904 59	3363 0904 67

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



HB 4200	HB 5800	HB 7000
42-75	55-100	65-120
4200	5800	7000
250-320	310-390	360-450
160-180	160-180	160-180
270-530	280-460	280-450
Auto Control	Auto Control	Auto Control
StartSelect	StartSelect	StartSelect
180	200	210
820	905	975
3363 0901 49	3363 0904 73	3363 0904 81
775	810	885
3363 0901 81	3363 0904 75	3363 0904 83

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

VibroSilenced-System

All MB and HB hydraulic breakers are fitted as standard with the efficient "VibroSilenced" noise and vibration damping system.

Elastic elements between percussion mechanism and guide system provide full acoustic insulation. Together with an optimized geometry and closure of all openings on the breaker box the "VibroSilenced" system reduces noise levels by around 18 dB(A) versus other guide systems.



AutoControl

Optimal impact energy at maximum percussive performance

The ratio of impact energy to impact rate is controlled to ensure maximum percussive performance at all times (percussive performance = impact energy x impact rate).

Avoids hard blank firing

Reduces the load on both carrier and hydraulic breaker

AutoControl always starts in short-stroke mode – reduced energy for better tool positioning

Centering effect facilitates handling

StartSelect

The "StartSelect" system allows the start-up and shut-off behavior of the breaker to be set in line with conditions. In "AutoStart" mode the breaker can start to work as soon as the working tool comes into contact with the material. If idle blows occur, the unit does not shut off automatically but continues to operate at reduced energy, protected by the standard AutoControl system. As soon as the working tool comes up against firm resistance again, AutoControl automatically switches back to full power.

In "AutoStop" mode the breaker is shut off automatically as soon as the percussion piston fails to make contact with the working tool.

"AutoStart" mode

for jobs in unstable ground conditions, such as

- secondary reduction of mined rock
- working with the breaker in horizontal/overhead position
- size reduction of light concrete structures

"AutoStop" mode

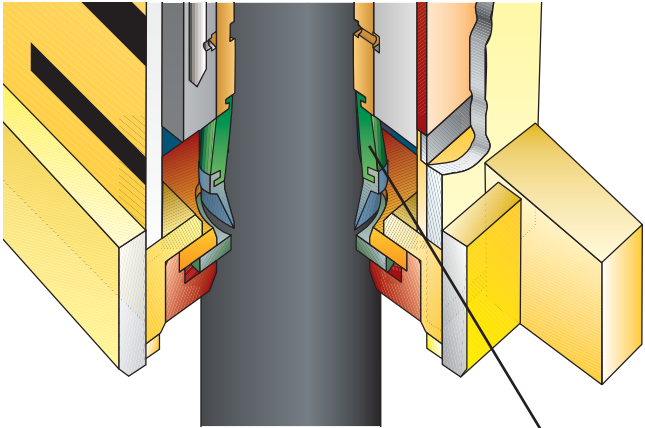
for jobs on firm ground, such as

- trenching
- bench leveling in the quarry
- excavating foundations in rock
- size reduction of heavy concrete structures

DustProtector II

DustProtector II

Prevents dust penetration on the hydraulic breaker



Reusable Sleeve

Reusable sleeve - can be reused several times when the wear bushing is replaced. Highly resistant to grease and mechanical loads



ContiLube® II

ContiLube® II

Automatic lubrication unit mounted directly on the breaker

Advantages:

- Mounted directly on the breaker box
- Ports protected in breaker box
- Quick and easy cartridge changing without need for tools (screw cartridge)
- Cartridges available worldwide
- Cartridges are refillable
- Compact design
- Patent protected



Tools

Today's hydraulic breakers offer a significantly improved ratio of percussive performance to weight, which in turn imposes far greater loads on breaker components.

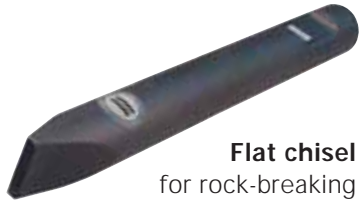
The shape, material properties and tip geometry of working tools have a major impact on:

- reliability
- wear
- production performance

They may look simple, but working tools are the result of a long and complex development process backed by extensive experience in the field.



Moil point
for multi-purpose use



Flat chisel
for rock-breaking
and demolition work



Blunt tool
for rock-breaking and
reducing oversizes

Working tool lengths

For heavy-duty hydraulic breakers from the HB 2200 upward, working tools are available in three different lengths: compact, long, extra long.

Our specialists will be pleased to advise you on the optimal tool length for your application.

The influence of the tool tip geometry

Working tool		Penetration	Wedge action	Energy application
Moil point	sharpened	● ● ●	● ●	●
	blunt	●	●	● ● ●
Flat chisel	sharpened	● ●	● ● ●	● ●
	blunt	●	●	● ● ●
Blunt steel		●	●	● ● ●

● ● ● = optimal; ● ● = good; ● = sufficient

An overview of tool applications

Material	Use	Specifications	Tool
Asphalt	Road surfaces, transport routes	Soft structures	Flat chisel/ Spade
Concrete	Thin floors, walls	reinforced	Flat chisel
		non-reinforced	Moil point
	Thick floors, walls	reinforced	Flat chisel
		non-reinforced	Moil point
	Foundations	reinforced	Flat chisel
non-reinforced		Moil point	
Recycling	-	Blunt steel	
Sedimentary rock (limestone, sandstone, graywacke, calcareous sediment)	Trenching, foundation work, primary quarry breaking	heavily fissured	Flat chisel
		lightly fissured	Moil point
		monolithic	Moil point
	Breaking oversized	-	Flat chisel
Crystalline rock (magma, greenstone, gabbro, granite etc.)	Trenching foundation work, primary quarry breaking	heavily fissured	Flat chisel
		lightly fissured	Blunt steel
		monolithic	Blunt steel
	Breaking oversized	-	Blunt steel

CC-combi cutters

Features:

- extremely short jaw, opening and closing times
- swivel range >360°
- low load on carrier due to tandem cylinders (from CC 550)
- replaceable blades
- replaceable teeth (from CC 1501)

Applications:

- demolition
- reduction
- recycling

CC-combi cutters		CC 250	CC 550
Carrier weight class ¹⁾	t	2-4	5-14
Service weight ²⁾	kg	240	530
Max. cutting force	t	66	141
Cutting force, jaw tip	t	-	-
Crushing force, jaw tip	t	18	34
Oil flow rate	l/min	30-50	50-90
Operating pressure	bar	200	250
Swivel range	°	>360	>360
Rotary drive		mech.	mech.
Oil flow rate, rotation	l/min	-	-
Operating pressure, rotation	bar	-	-
Jaw opening	mm	360	450
Jaw depth	mm	350	360
Blade length	mm	120	140
Pt.-Id. No.		3093 0400 02	3093 0400 06

Pulverizing pads

Pt.-Id. No.		-	3093 0400 70
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¹⁾ Weights apply to standard carriers only. Any variances must be agreed with Atlas Copco and/or the carrier manufacturer prior to attachment.

²⁾ with medium-sized adapter



CC 1501 U	CC 1501 S	CC 2100 U	CC 2100 S	CC 3300 U	CC 3300 S
15-25	15-25	22-35	22-35	30-50	30-50
1860	1850	2740	2690	3480	3320
200	200	300	300	400	400
-	73	-	130	-	141
63	-	90	-	109	-
100-150	100-150	150-200	150-200	220-350	220-350
320	320	320	320	350	350
>360	>360	>360	>360	>360	>360
hydr.	hydr.	hydr.	hydr.	hydr.	hydr.
max. 15	max. 15	max. 30	max. 30	max. 30	max. 30
150-220	150-220	150-220	150-220	150-220	150-220
790	385	850	400	1010	440
490	425	560	430	765	700
350	380	350	380	525	525
3363 0677 21	3363 0667 34	3363 0686 65	3363 0667 29	3363 0876 20	3363 0876 21
-	-	-	-	-	-

U = with universal jaws

S = with steel cutting jaws

BP-bulk pulverizers

Features:

- extremely wide jaw for high throughput
- speed valve ensure short cycle times
- optimal characteristic curve ensures high power reserves
- easy-to-replace blades, teeth, wear plates and wear shoes increase uptimes and lower operating costs (replaceable wear plates and shoes from BP 2300)
- worn plates and shoes can be refaced to extend service life
- optional hydraulic rotation unit allows limitless rotation for fast, targeted positioning in all situations
- extremely resistant FEM-optimized components
- robust piston rod protection

BP-bulk pulverizers		BP 1900	BP 1900 R
Carrier weight class ¹⁾	t	18-27	20-27
Service weight ²⁾	kg	2020	2435
Max. cutting force	t	280	280
Crushing force, jaw tip	t	75	75
Oil flow rate	l/min	150-250	150-250
Operating pressure	bar	350	350
Swivel range	°	-	>360
Rotary drive		-	hydr.
Oil flow rate, rotation	l/min	-	max. 30
Operating pressure, rotation	bar	-	150-220
Jaw width	mm	530	530
Jaw opening	mm	875	875
Jaw depth	mm	610	610
Blade length	mm	190	190
Pt.-Id. No.		3363 0867 59	3363 0867 57

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

²⁾ with medium-sized adapter

Applications:

- light to medium demolition of buildings, lightly reinforced concrete elements
- secondary reduction of concrete elements
- separation of concrete and rebar in recycling facilities



BP 2300	BP 2300 R	BP 3300	BP 3300 R
25-36	27-36	30-50	37-50
2680	3230	3430	4190
320	320	395	395
100	100	120	120
200-300	200-300	250-350	250-350
320	320	320	320
-	>360	-	>360
-	hydr.	-	hydr.
-	max. 30	-	max. 40
-	150-220	-	150-220
620	620	710	710
1030	1030	1130	1130
700	700	770	770
190	190	190	190
3363 0824 85	3363 0824 87	3363 0845 01	3363 0845 03

R = with hydraulic rotation unit

DP-demolition pulverizers

Features:

- compact design, straight jaws
- good performance-to-weight ratio
- hydraulic 360° rotation unit allows limitless rotation for fast, targeted positioning in all situations
- speed valve ensures short cycle times
- replaceable blades
- option of replaceable or fixed teeth (up to DP 3700)
- all components in robust design

DP-demolition pulverizers		DP 1800
Carrier weight class ¹⁾	t	18-26
Service weight ²⁾	kg	2000
Max. cutting force	t	230
Crushing force at jaw tip	t	71
Oil flow rate	l/min	180-200
Operating pressure	bar	350
Swivel range	°	>360
Rotary drive		hydr.
Oil flow rate, rotation	l/min	30-40
Operating pressure, rotation	bar	90-100
Jaw width	mm	480
Jaw opening	mm	760
Jaw depth	mm	650
Blade length	mm	180
Pt.-Id. No. (Version E)		3363 0891 48
Pt.-Id. No. (Version F)		8460 0236 14

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

²⁾ with medium-sized adapter

Applications:

- primary demolition of light to medium concrete structures with light to medium reinforcement
- secondary reduction of concrete elements
- separation of concrete and rebar



DP 2500	DP 3700	DP 5000
25-32	32-45	45-60
2750	4000	5700
271	364	458
83	109	137
200-220	220-280	280-320
350	350	350
>360	>360	>360
hydr.	hydr.	hydr.
30-40	30-40	30-40
90-100	100-115	100-115
550	600	660
930	1030	1150
760	850	930
220	300	300
3363 0891 49	3363 0891 50	-
8460 0236 15	8460 0236 16	8460 0236 17

Version E = exchangeable teeth
Version F = fixed teeth

MG-multi grapples

Features:

- 360° hydraulic rotation unit
- two hydraulic cylinders for high closing forces
- grapple and wear parts made of carbon steel
- optimum protection of hydraulic cylinders and components
- high grapple capacity
- replaceable blades

Applications:

- demolition (masonry, wooden structures)
- sorting and loading

Loading plates optional

MG-multi grapples		MG 1200 D
Carrier weight class ¹⁾	t	13-20
Service weight ²⁾	kg	1300
Max. closing force	t	5,5
Oil flow rate	l/min	70-80
Operating pressure	bar	320
Swivel range	°	>360
Rotary drive		hydr.
Oil flow rate, rotation	l/min	30-40
Operating pressure, rotation	bar	90-100
Capacity	l	460
Jaw opening	mm	1900
Grapple width	mm	950
Pt.-Id.-No.		3363 0891 33

Loading plates

Pt.-Id.-No.	3363 0891 52
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¹⁾ Weights apply to standard carriers only. Any variances must be agreed with Atlas Copco and/or the carrier manufacturer prior to attachment.

²⁾ with medium-sized adapter, without extra blades



MG 1200 L	MG 2200 D	MG 2200 L
18-24	21-28	25-34
1350	2350	2500
5,5	8,5	8,5
70-80	90-100	90-100
320	320	320
>360	>360	>360
hydr.	hydr.	hydr.
30-40	30-40	30-40
90-100	90-100	90-100
670	895	1040
2000	2250	2250
1150	1150	1350
3363 0890 00	3363 0891 34	3363 0891 35

3363 0891 53	3363 0891 54	3363 0891 55
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D = Demolition
L = Loading

SC-scrap cutters

Features:

- very good cutting force along entire blade length
- powerful cylinder
- hydraulic 360° rotation unit for fast, precision positioning
- short cycle times
- solid, extremely resistant components
- replaceable blades

Applications:

- cutting metal structures (girders, sheets, cables, rods)
- demolition work with mini-excavators or demolition robots inside buildings and in contaminated areas (chemical plants, atomic power plants)



SC-scrap cutters		SC 270	SC 600
Carrier weight class ^{1) 2)}	t	4-5	5,5-6,5
Carrier weight class ^{1) 3)}	t	2-3	3,5-4,5
Service weight ⁴⁾	kg	385	645
Max. cutting force	t	102	138
Cutting force, jaw tip	t	36	46
Oil flow rate	l/min	60-100	90-120
Operating pressure	bar	250	300
Swivel range	°	>360	>360
Rotary drive		hydr.	hydr.
Oil flow rate, rotation	l/min	10-15	15-20
Operating pressure, rotation	bar	100	100
Jaw opening	mm	185	245
Jaw depth	mm	160	240
Blade length	mm	160	240
Pt.-Id. No.		8460 0100 10	3093 0400 62

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

²⁾ Mounted on excavator stick

³⁾ Mounted on excavator boom

⁴⁾ with medium-sized adapter



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

Elanders, Gummessons 2005_09

Subject to technical modifications.

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