LARGE HYDRAULIC BREAKERS

The large-size breakers in details for wheeled and crawler excavators











CONSISTENT POWER, DURABILITY AND BREAKING FORCE

Whatever the task at hand, Volvo hydraulic breakers are designed to deliver impressive results. With outstanding impact energy, two-speed control and an extensive range of available work tools, Volvo breakers deliver flexibility and a tailored solution for every application.

Every detail of the Volvo breaker has been designed to work in harmony with your Volvo machine and our breakers are supplied as an all-in-one package – including your choice of hoses, brackets and tools – so you can get straight to work.

Breakers and carriers are sold and serviced through your local Volvo dealer and come with a solid manufacturer warranty.

Features and specifications quick check

Anti blank firing

Automatically stops operation of breaker when object is broken which protects damage to parts and extends the lifetime of breaker.

Accumulator installed

1. Less stress to hydraulic components as absorbing pressure fluctuation.

2. Increases efficiency by replenishing short oil flow.

Rock dragger with anti-abrasion steel
Used anti-abrasion steel.

Well heat-treated tool

1. Longer life by high quality material.

2. Minimize the impact caused by blank fire.

5 Wide Chisel pin

Safe from abnormal wearing.

6 Cushion Damper
Absorbs repercussion from hammering and increases camier endurance.

Roomier Gas Chamber
Ensures higher impact power.

8 Two speed valve
Maximize productivity from variable speed control.

Main valve

Internal control valve system is more efficient than other breaker's valve, stays cooler and makes the quicker and harder-hitting.

Piston

10 Higher impact power with long stroke

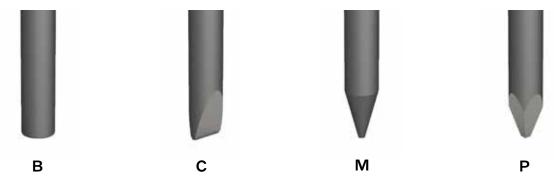
Specifications

BREAKER SPECIFICATION TABLE (HB TOP MOUNT TYPE)													
Description		Unit	HB14	HB15	HB18	HB21	HB22	HB25	HB30	HB36	HB38	HB48	HB75
Operating w	erating weight**		1 088	1238	1 521	1739	1944	2120	2 729	3 090	3 785	4 207	7 383
Overall length with direct fit bracket and tool		mm	2 285	2 389	2 602	2 725	2 793	2 953	3 045	3 173	3 398	3 611	4 355
Tool diameter		mm	105	115	125	135	135	145	150	155	165	175	205
Sound power level (Directive2000/14/EC)		dB(A)	124	124	124	124	124	125	125	126	126	126	127
Operating pressure		Мра	14-19	14-19	13-19	16-19	16-19	16-19	16-19	16-19	15-19	15-19	17-21
Oil flow		lpm	68-119	85-127	95-140	115-155	120-170	127-178	153-204	170-238	165-255	204-300	350-420
Blow rate	Low speed	bpm	350-550	350-550	320-480	320-480	340-450	270-400	250-380	230-400	225-350	230-330	280-350
	High speed	bpm	600-900	400-700	400-650	400-600	420-550	330-500	330-450	270-470	270-410	270-500	320-520
Automatic Lubrication			Option										
Suitable carrier		ton	10-15	12-18	16-22	18-24	20-26	24-30	25-36	28-42	34-50	40-60	60-100

^{**} Operating weight including hoses, tool and bracket. Bracket weight varies depending on the interface type and the machine model so the average weight is used for the operational weight.

⁻⁻ HB14 to HB75: BODY + ALS(MANUAL) +HOSE + BB(DIRECT) + TOOL(PYARMID MOIL)

Application guide with standard tools



ROADBUILDING/ CONSTRUCTION	HB14	HB15	HB18	HB21	HB22	HB25	нвзо	нв36	нв38	нв48	HB75
Breaking of road surface	C, M, P										
Breaking uneven bedrock to lay a road	C, M, P										
Primary breaking to prepare road bed						C, M, P					
Trench excavation for drainage	C, M, P										
Demolition of bridges	B, C, M, P	B, C, M, F									
Heavily reinforced bridge pillars						В	В	В	В	В	В
Making holes (for traffic signs, lamp posts)	М	М	М	М	М	М	М	М	М	М	М
Breaking of frozen ground	C, M, P										
Demolition/housing development											
Demolition of concrete walls, roofs, floors	В, С, М, Р	B, C, M, P	B, C, M, P	В, С, М, Р	B, C, M, P	В, С, М, Р	В, С, М, Р	B, C, M, F			
Demolition of light, reinforced concrete foundation (<.5 m)	В, М, Р										
Brick walls	B, C, M, P	В, С, М, Р									
Rock trenches for mains/ water supply/utilities	C, M, P										
Rock excavation for foundation	C, M, P										
Mass excavation of rock for industrial building bases			C, M, P								
Massive reinforced concrete foundations						M, P					
Separating rebar from concrete (for recycling)	B, C, M, P	В, С, М, Р	B, C, M, P								
Quarrying/open cast mining	I										
Secondary boulder breaking	В	В	В	В	В	В	В	В	В	В	В
Primary breaking of rock					C, M, P						
Breaking oversizes on a crusher/feeder/feed chute	В, С, М, Р	B, C, M, P	B, C, M, P	B, C, M, P	В, С, М, Р	B, C, M, P					
Underground applications											
Scaling	С	С	С								
Other applications											
Demolition/Rock breaking under water	C, M, P										

Technical talk about key features



Auto lubrication system (ALS)

Concept

- Hydraulic motor type, powered by working pressure & flow
- Lubrication only while operating the breaker
- Volvo genuine breaker paste
- Disposable cartridge, lasting 8 operating hours

Benefits

- Reliable performance in all applications and all climates
- Common cartridge throughout the seasons
 No need to change lubricant types
- Breaker paste, working from -20°C up to 1,100°C
- Grease nipple for manual greasing available
- Better protection for tool & bush, longer service life



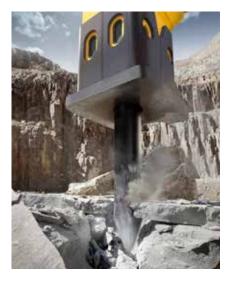
Two speed valve

Concept

- Speed mode
 - Suitable for secondary light limestone breaking
- Power mode
 - Suitable for occasional hard rock breaking

Benefits

- Easy to start, No delayed response time
- Easy to shift model in the field
- Higher productivity
- Still prevent breaker failure risks from blank fire when running at power mode.



Anti blank firing

Concept

- Self-arresting system when the material has been fully broken
- Either in the speed mode or power mode, this function is always on
- No operator skills are needed, the system works fully automatically

Benefits

- Damage prevention to tool, tool pins, front head as well was the housing
- No unnecessary hydraulic peaks in the system
- Longer lifetime of the breaker



Matching and productivity guide

Efficiency is one of the core values of Volvo Excavators. Therefore, the right breaker selection towards your preferred machine is one of the major things, where we want to help customers to do the job good!

Full offer

We offer you a full offer starting with the breaker bodies, brackets, genuine hose kits, first class tools, excellent lubrications as well as a validated machine match, designed by our internal breaker experts to make your job safe and efficient.











BREAKER SOLUTION FOR A WIDE RANGE											
Machine models					HB22	HB25	нв30	нв36	HB38	HB48	1076
EC120D, ECR145C, ECR145E, EC140D, EC140E, EW145B, EWR150E	•										
EC120D, ECR145C, ECR145E, EC140D, EC140E, EW145B, EWR150E		•									
EC160D, EC160E, EC180D, EC170D, EC180E, EW160D, EW160E, EWR170E, EW180D, EW180E, EW205D, EW210D, EW220E			•								
EC210B, EC210D, EC220D, EC200E, EC220E, EC235C, EC235E, EW210D, EW230C, EW220E, EW205D				•							
EC210B, EC210D, EC220D, EC200E, EC220E, EC235C, EC235E, EW210D, EW230C, EW220E, EW205D					•						
EC250D, EC250E						•					
EC290B, EC300D, EC300E, ECR355E, ECR305C							•				
EC350D, EC350E								•			
EC380D, EC380E								•	•		
EC480D, EC480E										•	
EC700C, EC750D, EC750E											

