

B MODEL HAMMERS

SKID STEER LOADERS · COMPACT TRACK LOADERS
BACKHOE LOADERS · MINI HYDRAULIC EXCAVATORS



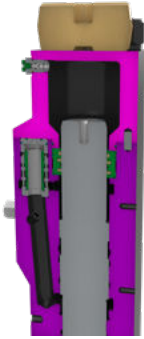
Models
B1 Pin on, B1, B2, B4, B6, B8, B9 (Silenced and Non-Silenced)

Machine model availability and attachment vary by region. Contact your local Cat® dealer for exact compatibility and availability.



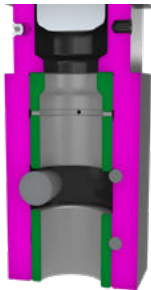
Cat® B Hammers are suitable for use in a wide range of construction and general demolition applications – such as breaking concrete sidewalks and driveways, pavement, roads, masonry, site prep and landscaping, and breaking frozen ground for utility repairs. Each model of B Hammer is available in either silenced or non-silenced configurations. The silenced version is identified by an 's' suffix.

FEATURES



GAS FIRED DESIGN

Gas fired design delivers consistently high production over time making the breaker reliable in applications such as concrete, asphalt, rock and light trenching.



SLIP FIT BUSHINGS

Field replaceable and easy to maintain due to one locking pin, extending wear life and reducing owning and operating costs.



MAINTENANCE

All Cat hammers have easily accessible maintenance points.



STANDARD 2 YEAR WARRANTY

Standard 2 year warranty gives you piece of mind when purchasing a quality Cat hammer.



ERGONOMICALLY POSITIONED HYDRAULIC LINES

Designed to optimize serviceability, are easily accessible and require no special tools.



TOP MOUNT STYLE HAMMERS

Top mount style hammers offer the flexibility to be used on a various machine families with supporting brackets for different host machines.



INCLUDED WITH EACH HAMMER

- + Two tools, cone and crosscut/transverse chisel.

A toolbox containing standard service items to help maintain the hammer.

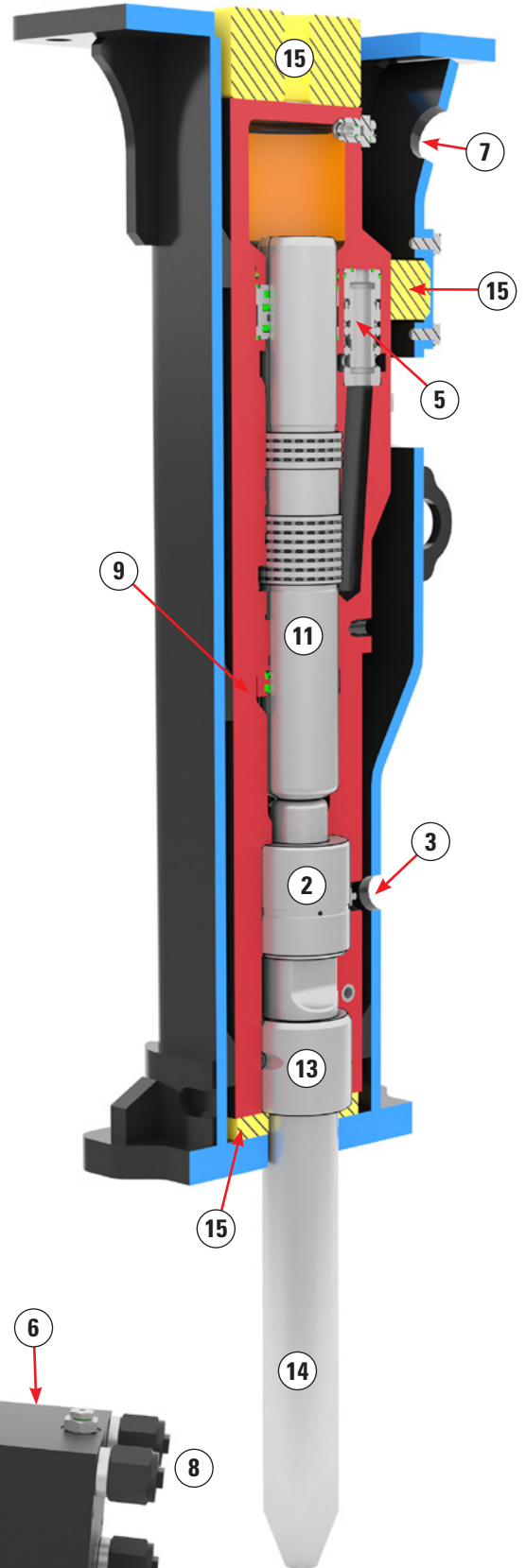
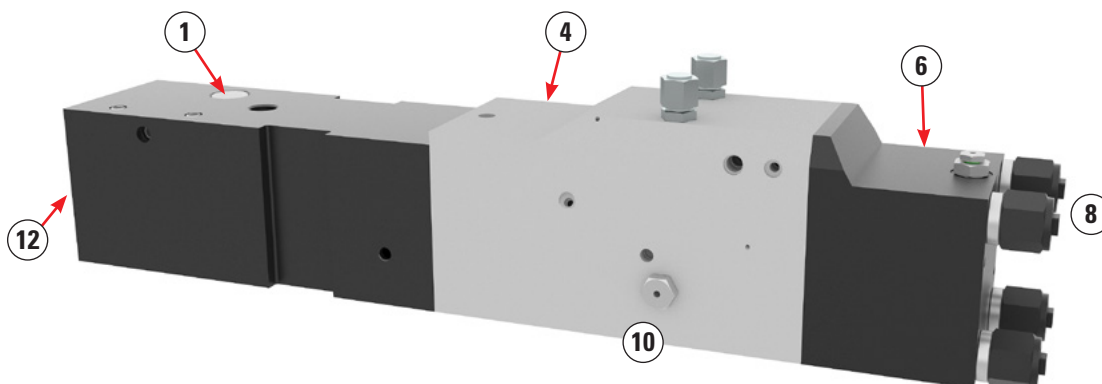
Items included are:

- + NITROGEN CHARGE GAUGE
- + HAMMER PASTE TUBE
- + TOOL PIN
- + RETENTION SPRING PINS
- + OPERATION MAINTENANCE MANUAL
- + OTHER KEY SERVICE ITEMS.

B MODEL HAMMERS

ANATOMY

- 1) **Tool pin** – Installed in the front head to prevent tool from coming off.
- 2) **Upper tool bushing** – Provides alignment between the tool and the piston. Bushing is secured in the head by a retaining pin.
- 3) **Grease fitting** – Apply grease only when tool has pushed up fully to ensure no grease gets between piston and tool, as seal damage may occur.
- 4) **Cylinder** – Contains moving piston which strikes the tool. Seals for both ends of the piston are also located in the cylinder. Seals for the upper end of the piston are in a removable seal retainer while the seals for the lower end of the piston are in grooves, machined directly into the cylinder.
- 5) **Valve** – Controls piston reciprocation with hydraulic fluid distribution.
- 6) **Back head assembly** – Contains cushion chamber charged with nitrogen (N2) gas that is compressed during upward strokes of the piston. Serves to provide maximum absorption of piston recoil, efficiently storing this energy for the next blow.
- 7) **Charging port** – Used to charge back head with N2 and to check pressure.
- 8) **Through bolt** – Used to assemble the front head, cylinder and the back head. Bolts must constantly be tightened to specified torque. Inspect bolts on a regular basis as loosening may occur.
- 9) **Seal retainer** – Retainer has oil seals to seal N2 gas in back head and prevent hydraulic oil leakage.
- 10) **Air check valve** – Allows air pressure to be vented during hammer operation, preventing lower cylinder seals from pushing out of place.
- 11) **Piston** – Transfers impact power to the tool, generated by hydraulic power.
- 12) **Front head assembly** – Retains the tool using the tool pins. Removing these pins will allow the tool to be replaced.
- 13) **Lower tool bushing** – Provides alignment between tool and piston. Bushing is secured in the head by a retaining pin.
- 14) **Tool** – Transfers piston impact power to the objects. Various tool shapes are recommended according to working application.
- 15) **Buffers** – Silenced hammers have several buffers (quantity and placement are model dependent) that aid in providing for a quieter operation sound level.



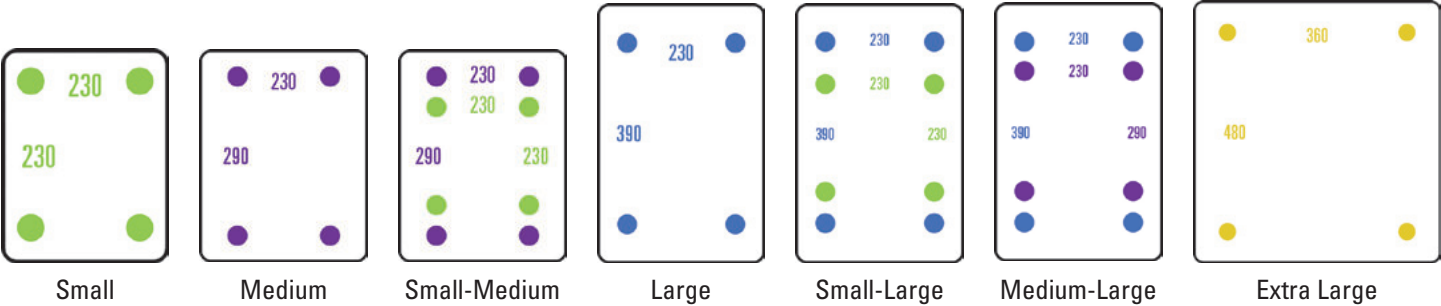
B MODEL HAMMERS

BRACKETS

All Cat hammer brackets are interchangeable with B model hammers, H model hammers and vibratory plate compactors (CVP). Brackets are identified by size to help with matching. For example, the small-medium bracket has holes for 230 mm × 230 mm and 230 mm × 290 mm. It will accept B1, B2, B4, H35, and H45 Hammers as well as CVP16 and CVP28.

CHOOSE HAMMER ATTACHMENT					CHOOSE BRACKET						
Hammer Bracket Size	Hole Spacing (mm × mm)	B Model Hammer	H Model Hammer	CVP Model	Small	Small-Medium	Medium	Medium-Large	Small Large	Large	Extra Large
Small	230 × 230	B1, B2, B4		CVP16, CVP28	•	•			•		
Medium	230 × 290	B4	H35, H45			•	•	•			
Large	230 × 390	B6, B8	H55, H65	CVP16, CVP28				•	•	•	
Extra Large	360 × 480	B9	H80, H95	CVP40, CVP55							•

Bracket Hole Configurations



Hammer Bracket Interface Types



Skid Steer Loader Bolt-On



Skid Steer Loader (SSL)/Mini Excavator (MHE) Pin On



Pin On (pin grabber)



Pin On (tuck) Backhoe Loader (BHL)



CW



S Type



Pin Lock

B MODEL HAMMERS

CONFIGURATIONS

How to configure a hammer for your needs:

1. Choose hammer (based on machine type)
2. Choose bracket (that matches your hammer and machine)
3. Choose correct jumper lines for your machine

Mini Hydraulic Excavators/Backhoe Loaders



Skid Steer Loaders/Compact Track Loaders/Mini Hydraulic Excavators (3-6 ton)

The Cat SSL/MHE pin on hammer bracket is designed to facilitate quickly changing between MHE and SSL machines. When used with the appropriate pin on top mount bracket, this bracket will allow hammers to be switched between 3-4 ton and 5-6 ton MHE and compact track loader (CTL) and SSL machines *without the use of wrenches*.



Both configurations above require the same set of hydraulics lines. Lines for the skid steer bracket will be long enough to work for all applicable mini hydraulic excavator setups.

B MODEL HAMMERS

AVAILABLE TOOLS

MOIL



A general purpose tool where the point improves speed of penetration. For use on pavement, concrete, bed rock, hard rock, and trenching.

CONE



A multi-use tool that can make circle holes in soft material. The point improves speed of penetration but there is no control of fracture direction. For use on concrete, bed rock, and hard rock.

BLUNT



The blunt tool helps shatter with vibration instead of penetration. For use on concrete, bed rock, trenching, operating on slopes, and cutting lines.

**CHISEL
(Cross Cut)**



Aids in creating a controlled and accurate fracture line. For use on pavement, concrete, bed rock, trenching, operating on slopes, and cutting lines.

**CHISEL
(Parallel)**



Aids in creating a controlled and accurate fracture line. For use on pavement, concrete, bed rock, trenching, operating on slopes, and cutting lines.

**SPADE
(Transverse)**



Used specifically for cutting asphalt and other soft materials, it is also good at cutting lines.

**SPADE
(Parallel)**



Used specifically for cutting asphalt and other soft materials, it is also good at cutting lines.

COMPACTION PLATE



Ideal for compacting soil, gravel and other materials.

POST DRIVER



Used to drive round or square posts into various ground conditions.

B MODEL HAMMERS

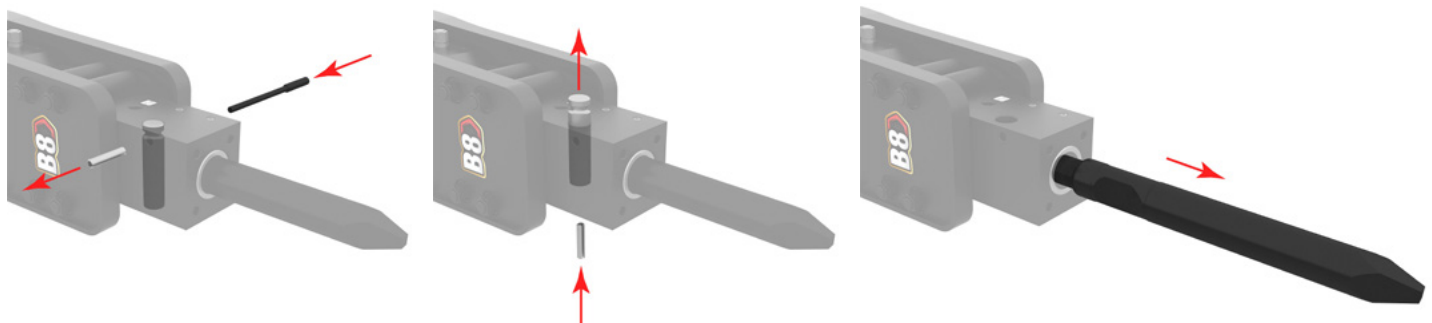
THE RIGHT TOOL FOR THE JOB

Road Building/Construction	B1	B2	B4	B6	B8	B9
Breaking of road surface	CH, M, C	CH, M, C, S	CH, M, C, S	CH, M, C, S	CH, M, C, S	CH, M, C, S
Asphalt cutting	CH	CH, S	CH, S	CH, S	CH, S	CH, S
Trench excavating for drainage						CH, M, C
Demolition of bridges	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C
Making holes (for traffic signs, lamp, posts)		M, C	M, C	M, C	M, C	M, C
Breaking of frozen ground	CH, M, C	CH, M, C, S	CH, M, C, S	CH, M, C, S	CH, M, C, S	CH, M, C, S
Compacting Solid		CP	CP	CP	CP	CP
Demolition/Housing Development						
Demolition of concrete walls, roofs, floors	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C
Demolition of light reinforced concrete <20%	M, C	M, C	M, C	M, C	M, C	M, C
Brick walls	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C
Rock trenches for mains/water supply/utilities						CH, M, C
Rock excavation for foundation						
Separating rebar from concrete (for recycling)	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C
Quarrying/Open Cast Mining						
Breaking oversized on a crusher/feeder/feed chute						
Scaling						CH
Metallurgical Applications						
Breaking of slag in casting ladles						
Cleaning of castings						
Breaking of refractory linings in furnaces	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C	CH, M, C
Post Driving						
Driving round and square posts into various ground conditions				P	P	

CH = Chisel, M = Moil (pyramid) , C = Cone, S = Spade, B = Blunt, CP = Compaction Plate, P = Post Driver

Quick Tool Changes

With access to the underside of the B model hammers, owner/operators can easily change out tools. Please refer to the Operators Maintenance Manual for proper procedures.



B MODEL HAMMERS

RECOMMENDED APPLICATIONS CHART

			B1	B2	B4	B6	B8	B9
Construction								
Site Prep, Landscaping	Ground excavation	Pipelines municipalities	○	○	○	○	●	●
		Frozen ground	○	○	○	○	○	●
		Foundation prep						
	Asphalt cutting	Driveways, roads	○	○	●	●	●	
	Compacting	Municipalities	○	○	●	●		
Rock	Trenching	Utilities and pipelines					○	○

Demolition								
Concrete	Light	Sidewalks, driveways	○	○	○	●	●	●
	Standard	Reinforced concrete 76-510 mm (3-20 in)			○	○	○	○
	Heavy	Bridge pillars, heavily reinforced						
Masonry	Cinder block, brick	Walls	●	●	●	●	○	○
Pavement	Asphalt breaking	Driveways, roads	○	○	●	●	●	●
	Concrete, composite	Roads			●	●	●	●

Metallurgical								
Cleaning	Cleaning castings						○	○
De-bricking	Slag in casting ladles						○	○
	Refractory linings in furnaces		○	○	○	○	○	○

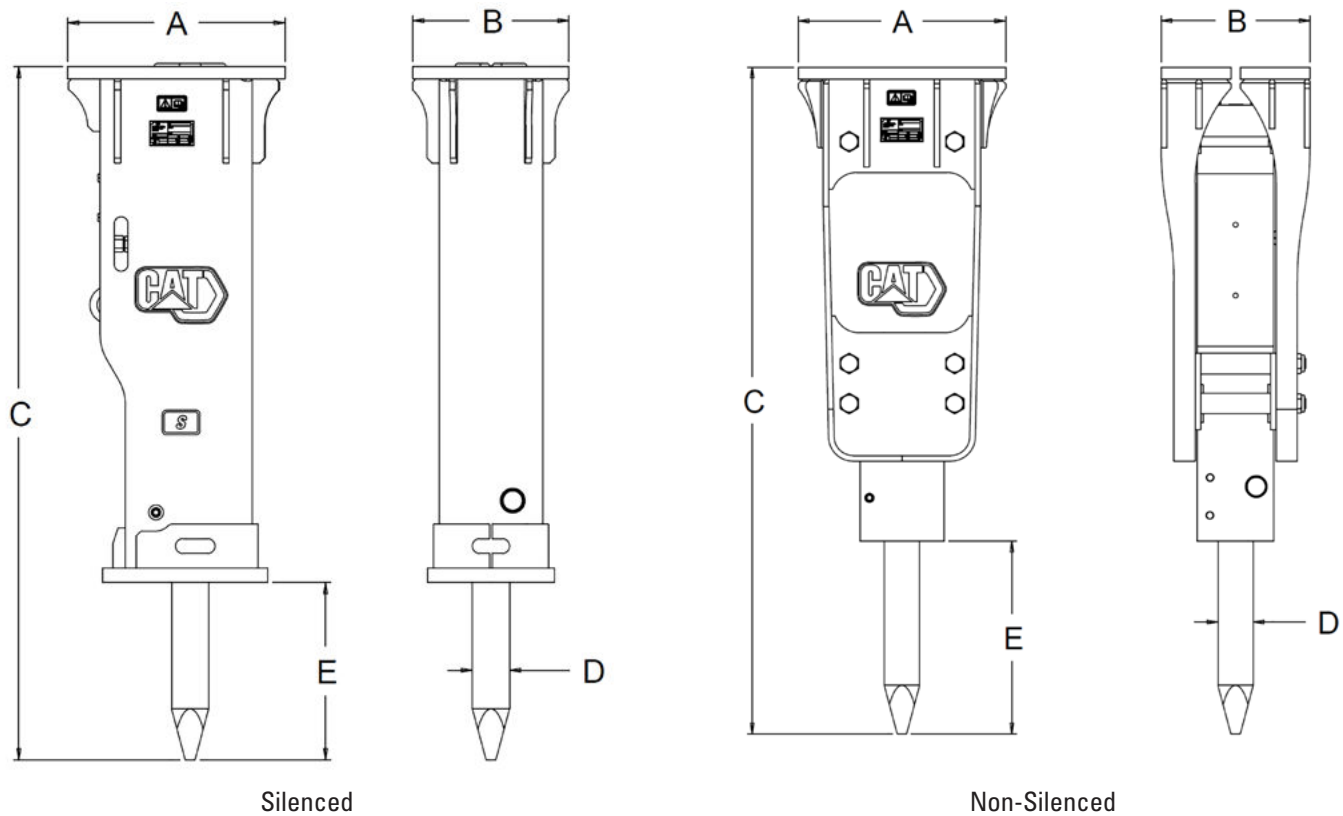
Mining								
Rock	Secondary breaking	Softer material (shale, decomposed limestone)						○
		Harder material (limestone, granite)						
		Scaling					○	○
	Primary breaking	Tunneling						

☒ Optimal
 ☐ Acceptable
 ☐ Not Recommended





B MODEL HAMMER SPECIFICATIONS



HAMMERS					
Model	B1 Pin On	B1	B1s	B2	B2s
A Overall Length – mm (in)	208 (8)	340 (13.4)	340 (13.4)	340 (13.4)	340 (13.4)
B Overall Width – mm (in)	199 (7.8)	300 (11.8)	300 (11.8)	300 (11.8)	300 (11.8)
C Height (with tool) – mm (in)	958 (37.7)	968 (38.1)	977 (38.5)	1080 (42.5)	1091 (43)
D Tool Shaft Diameter – mm (in)	40 (1.6)	40 (1.6)	40 (1.6)	45 (1.8)	45 (1.8)
E Tool Working Length – mm (in)	210 (8.3)	280 (11)	250 (9.8)	326 (12.8)	296 (11.7)
Energy Class – J (ft-lbf)	200 (147.5)	200 (147.5)	200 (147.5)	290 (213.9)	290 (213.9)
Impact Frequency – bpm	800-1400	800-1400	800-1400	700-1200	700-1200
Minimum Carrier Weight – kg (lb)	898 (1,979.7)	1098 (2,420.7)	1098 (2,420.7)	1497 (3,300.3)	1497 (3,300.3)
Optimal Hydraulic Flow – L/min (gpm)	15-25 (4-6.6)	15-25 (4-6.6)	15-25 (4-6.6)	20-30 (5.3-7.9)	20-30 (5.3-7.9)
Minimum Operating Pressure – kPa (psi)	8798 (1,276)	8798 (1,276)	8798 (1,276)	8798 (1,276)	8798 (1,276)
Operating Weight – With Tool – kg (lb)	74 (162)	83 (183)	86 (190)	115 (253)	117 (258)
Sound – dB(A)	122	122	118	128	122
Machine Compatibility	300.9D	MHE 1-2 Ton	MHE 1-2 Ton	MHE 1-3 Ton	MHE 1-3 Ton

MHE = mini hydraulic excavators

B MODEL HAMMER SPECIFICATIONS

HAMMERS				
Model	B4	B4s	B6	B6s
A Overall Length – mm (in)	340 (13.4)	340 (13.4)	440 (17.3)	440 (17.3)
B Overall Width – mm (in)	300 (11.8)	300 (11.8)	316 (12.4)	316 (12.4)
C Height (with tool) – mm (in)	1190 (46.9)	1375 (54.1)	1195 (47)	1370 (53.9)
D Tool Shaft Diameter – mm (in)	53 (2.1)	53 (2.1)	68 (2.7)	68 (2.7)
E Tool Working Length – mm (in)	360 (14.2)	510 (20.1)	247 (9.7)	377 (14.8)
Energy Class – J (ft-lbf)	370 (272.9)	370 (272.9)	680 (501.5)	680 (501.5)
Impact Frequency – bpm	600-1100	600-1100	500-900	500-900
Minimum Carrier Weight – kg (lb)	2540 (5,600)	2540 (5,600)	3629 (8,000)	3629 (8,000)
Optimal Hydraulic Flow – L/min (gpm)	25-50 (6.6-13.2)	25-50 (6.6-13.2)	40-70 (10.6-18.5)	40-70 (10.6-18.5)
Minimum Operating Pressure – kPa (psi)	10 286 (1,491.9)	10 286 (1,491.9)	12 238 (1,775)	12 238 (1,775)
Operating Weight – With Tool – kg (lb)	159 (350.5)	162 (357.1)	259 (571)	277 (610.7)
Sound – dB(A)	128	124	128	124
Machine Compatibility	MHE 2-6 Ton	MHE 2-6 Ton	MHE 3-9 Ton SSL/CTL 216-299	MHE 3-9 Ton SSL/CTL 216-299

HAMMERS				
Model	B8	B8s	B9*	B9s*
A Overall Length – mm (in)	440 (17.3)	440 (17.3)	530 (20.9)	530 (20.9)
B Overall Width – mm (in)	316 (12.4)	316 (12.4)	400 (15.7)	400 (15.7)
C Height (with tool) – mm (in)	1413 (55.6)	1402 (55.2)	1753 (69)	1733 (68.2)
D Tool Shaft Diameter – mm (in)	75 (3)	75 (3)	85 (3.3)	85 (3.3)
E Tool Working Length – mm (in)	408 (16.1)	358 (14.1)	455 (17.9)	437 (17.2)
Energy Class – J (ft-lbf)	1150 (848.2)	1150 (848.2)	1300 (958.8)	1300 (958.8)
Impact Frequency – bpm	400-800	400-800	400-800	400-800
Minimum Carrier Weight – kg (lb)	6350 (14,000)	6350 (14,000)	8233 (18,151)	8233 (18,151)
Optimal Hydraulic Flow – L/min (gpm)	50-90 (13.2-23.8)	50-90 (13.2-23.8)	60-100 (15.9-26.4)	60-100 (15.9-26.4)
Minimum Operating Pressure – kPa (psi)	11 749 (1,704)	11 749 (1,704)	12 728 (1,846)	12 728 (1,846)
Operating Weight – With Tool – kg (lb)	349.7 (771)	344 (758.4)	529 (1166.2)	518 (1142)
Sound – dB(A)	133	129	135	125
Machine Compatibility	MHE 6-9 Ton SSL/CTL 216-299 BHL 415-444	MHE 6-9 Ton SSL/CTL 216-299 BHL 415-444	MHE 7-10 Ton BHL 415-450	MHE 7-10 Ton BHL 415-450

MHE = mini hydraulic excavators, SSL/CTL = skid steer loaders/compact track loaders, BHL = backhoe loaders

*Not compatible with side shift backhoe loaders.



For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

AEHQ8417 (10-2022)
Replaces AEHQ8138-01
(Global)

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