

H MODEL HAMMERS

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

Models

H35s, H45s, H55s, H65s, H80s, H95s (Silenced)

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



Cat® H Hammers are designed for optimum performance and integration with your Cat compact construction equipment. Cat 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 H model of hydraulic hammers are silenced providing a lower overall noise level on job sites.

FEATURES



SILENCED

Fully enclosed, silenced housing lowers overall noise level for a quieter job site. Internal power cell is protected, designed and engineered to eliminate stress points.



AUTO SHUT OFF (ASO)

ASO instantly stops the piston when breaking through material, preventing blank firing, a key contributor to hammer wear, the hammer is protected regardless of operator skill level.



TRI-SUSPENSION SYSTEM

Tri-suspension system aligns power cell providing a manageable, smooth performance. System is comprised of suspension jacket and the upper and lower buffers.



STANDARD 2 YEAR WARRANTY

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



HOSE PROTECTION

Hose routing protects against force and dirt during impact, eliminating downtime.



STANDING HEIGHT GREASE POINT

Standing height grease point makes required maintenance comfortable and easy to perform.



TOP MOUNT STYLE HAMMERS

Top mount style hammers provide a larger work area and excellent operator visibility with a common footprint and hole pattern for optimum versatility. Top mount style increases impact power by keeping breaker force and stick force in line. A top mount bracket will transfer back significantly less recoil and bending stress into the end of the stick, resulting in reduced impact on machine structures. A full complement of mounting brackets are available to suit coupler or pin-on preference.



INCLUDED WITH EACH HAMMER

Each hammer comes with two tools and a tool bag. The tool bag contains standard service items to help maintain the hammer.

H MODEL HAMMERS

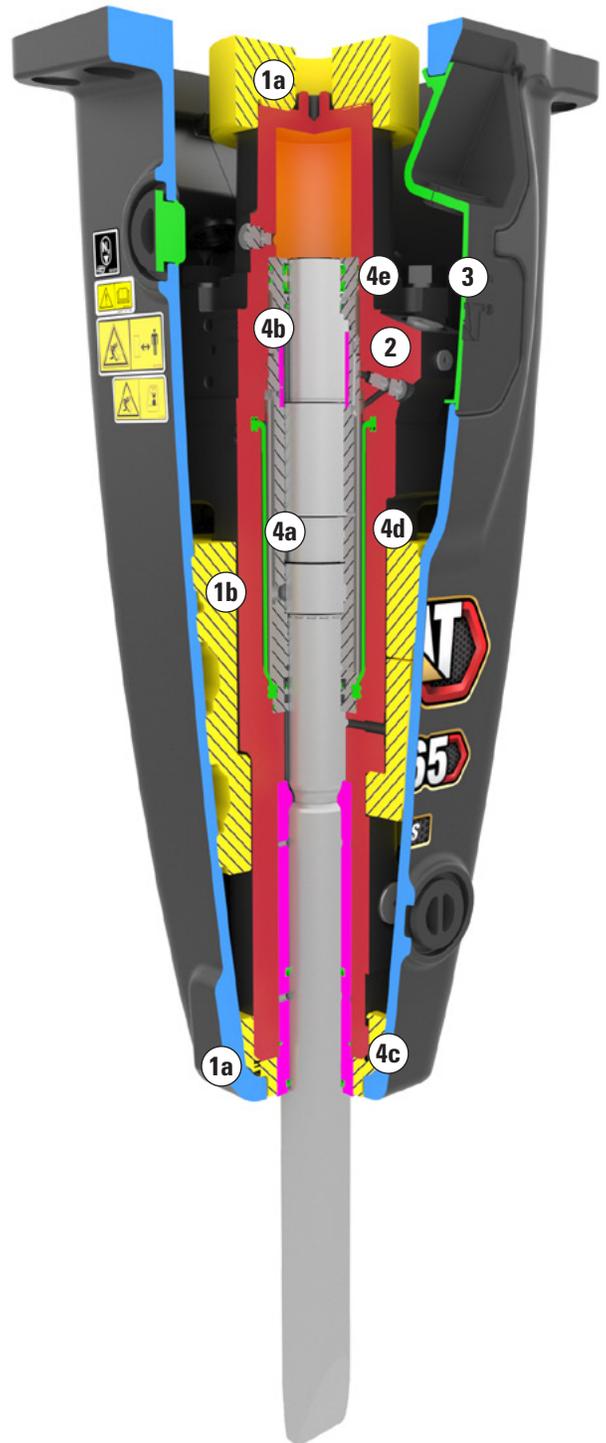
ANATOMY

- 1 **Tri-Suspension System** – This unique suspension system on the silenced models comprises the suspension jacket, the upper and lower buffers. Suspension aligns the power cell and gives manageable, smooth performance.
 - + 1a **Upper and Lower Buffers** – Buffers at both ends of the power cell absorb reflective forces, isolating them from the machine. Result is quiet, reliable operation and reduced operator fatigue.
 - + 1b **Suspension Jacket** – The front head is isolated by the two-piece suspension jacket, which dampens vibration and sound. A lower dBa allows the hammer to be used in urban and other noise restricted areas.

- 2 **Auto Shut Off (ASO)** – Instantly stops the piston when breaking through material. Prevents blank firing, a key contributor to hammer wear. Internal stresses are reduced, providing more productive hours of work. Hammer is protected, regardless of operator skill level.

- 3 **Plug and Perform** – Designed for convenient installation on Cat machines.
 - + 3a **Ports positioned for hose protection** – Improved routing eliminates downtime from breakage.
 - + 3b **No adjustment necessary** for hydraulic pressures or flows. Hammer handles full auxiliary flow and pressure, automatically adjusting to match your Cat machine. Hammer over speeding and shortened service are prevented.

- 4 **Simple, Elegant Design** – 47% fewer parts (compared to previous models) provides quick, easy maintenance and service.
 - + 4a **Single Piece Piston Sleeve** replaces easily.
 - + 4b **Easy-to-remove Seal Carrier** provides maximum gas retention and reliable performance. New design incorporates innovative technology, with five gas retention seals on the power chamber.
 - + 4c **Single Bushing Design** is slip fit and field replaceable. One piece provides proper tool alignment (includes lower and upper bushing and thrust ring).
 - + 4d **Integral Accumulator** on H55s and H65s provides additional protection for the machine's hydraulic system.
 - + 4e **Valve Body and Front Head** – Power cell is efficiently designed, with only two major components. They are held together by head bolts rather than tie rods. Bolts are simpler to install and service.



H MODEL HAMMERS

BRACKETS

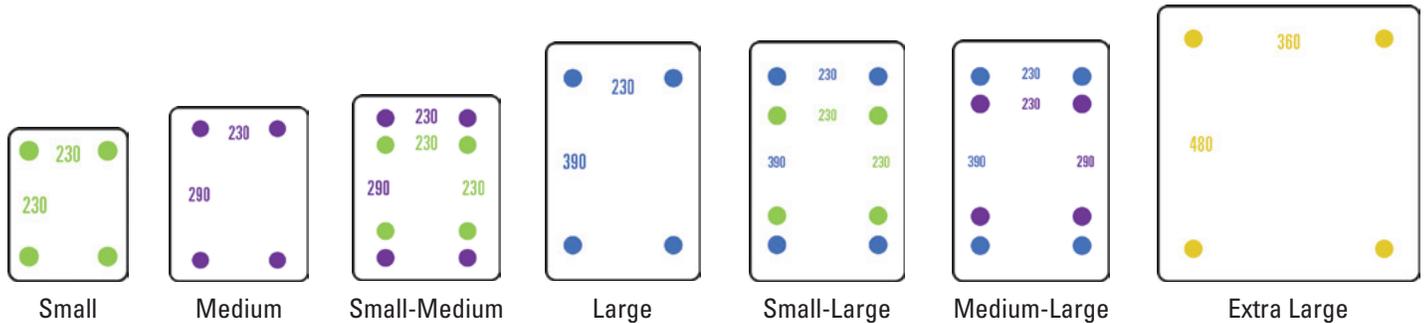
All Cat hammer brackets are interchangeable with B model hammers, H model hammers and vibratory plate compactors (CVP). Brackets are identified by size to help with matching. For example, the small-medium bracket has holes for 230 mm × 230 mm and 230 mm × 290 mm. It will accept B1, B2, B4, H35, and H45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

H35s and H45s = Medium Mounting Pattern

H55s and H65s = Large Mounting Pattern

H80s and H95s = Extra Large Mounting Pattern

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

H 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.

H 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.

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.

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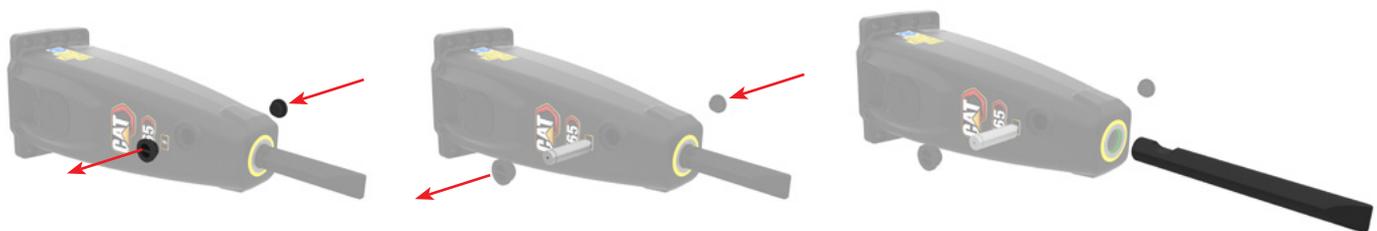
THE RIGHT TOOL FOR THE JOB

Road Building/Construction	H35s	H45s	H55s	H65s	H80s	H95s
Breaking of road surface	CH, M, S	CH, M				
Asphalt cutting	CH, S	CH				
Trench excavating for drainage					CH, M	CH, M
Demolition of bridges	CH, M	CH, M				
Making holes (for traffic signs, lamp, posts)	M	M	M	M	M	M
Breaking of frozen ground	CH, M, S	CH, M				
Compacting Solid	CP	CP	CP	CP	CP	
Demolition/Housing Development						
Demolition of concrete walls, roofs, floors	CH, M	CH, M				
Demolition of light reinforced concrete <20%	M	M	M	M	M	M
Brick walls	CH, M	CH, M				
Rock trenches for mains /water supply/ utilities					CH, M	CH, M
Rock excavation for foundation						CH, M
Separating rebar from concrete (for recycling)	CH, M	CH, M				
Quarrying/Open Cast Mining						
Breaking oversized on a crusher/feeder/feed chute						CH, M
Scaling					CH	CH
Metallurgical Applications						
Breaking of slag in casting ladles						CH, M
Cleaning of castings						CH, M
Breaking of refractory linings in furnaces	CH, M	CH, M				

CH = Chisel, M = Moil, S = Spade, B = Blunt, CP = Compaction Plate

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.



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RECOMMENDED APPLICATIONS CHART

			H35s	H45s	H55s	H65s	H80s	H95s
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			●	●	●	●

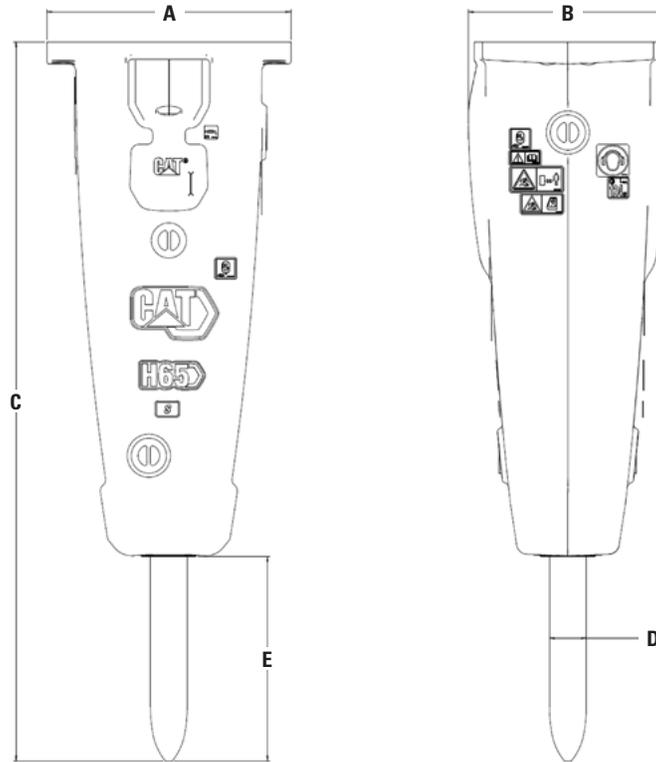
Metallurgical								
Cleaning	Cleaning castings						○	○
De-bricking	Slag in casting ladles						○	○
	Refractory linings in furnaces		○	○	○	○	○	○

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

Optimal
 Acceptable
 Not Recommended



H MODEL HAMMER SPECIFICATIONS



HAMMERS						
Model	H35s	H45s	H55s	H65s	H80s	H95s*
A Overall Length – mm (in)	311 (12)	311 (12)	451 (17.8)	451 (17.8)	535 (21.1)	520 (20.5)
B Overall Width – mm (in)	300 (11.8)	300 (11.8)	346 (13.6)	346 (13.6)	485 (19.1)	512 (20.2)
C Overall Height – mm (in)	860 (33.9)	1006 (39.6)	1108 (43.6)	1324 (52.1)	1433 (56.4)	1666 (65.6)
D Tool Shaft Diameter – mm (in)	40 (1.6)	50 (2)	58 (2.3)	68 (2.7)	75 (3)	87.5 (3.4)
E Tool Working Length – mm (in)	240 (9.5)	269 (10.6)	324 (12.8)	371 (14.6)	376 (14.8)	415 (16.4)
Energy Class – J (ft-lbf)	407 (300)	542 (400)	813 (600)	1085 (800)	1356 (1,000)	2034 (1,500)
Impact Frequency – bpm	600-1,800	780-1,800	600-1,680	720-1,740	600-1,500	700-1260
Minimum Carrier Weight – kg (lb)	1102 (2,430)	1501 (3,309)	2495 (5,501)	2994 (6,601)	5987 (13,199)	6985 (15,399)
Optimal Hydraulic Flow – L/min (gpm)	12-35 (3-9)	25-62 (7-16)	30-85 (8-22)	40-115 (10-30)	70-130 (18-34)	70-150 (18-40)
Minimum Operating Pressure – kPa (psi)	10 000 (1,450)	10 000 (1,450)	10 000 (1,450)	10 000 (1,450)	10 000 (1,450)	10 000 (1,450)
Operating Weight – with Tool – kg (lb)	130 (287)	250 (551)	345 (761)	390 (860)	425 (937)	627 (1,382)
Sound Level – dB(A)	120	120	120	124	120	124
Machine Compatibility	MHE 1-2 Ton	MHE 1-3 Ton	MHE 3-6 Ton SSL/CTL 216-299	MHE 5-9 Ton SSL/CTL 216-299 BHL 415-444	MHE 7-9 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.

NOTES

NOTES



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

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