Hammer / Machine Compatibility

Small and Medium Hydraulic Excavators. Contact your Cat dealer for specific machine configurations.

Model	Machines
H35E/Es	301.4, 301.7, 301.8, 302.2, 302.4
H45E/Es	301.7, 301.8, 302.2, 302.4, 302.5, 302.7
H55E/Es	216, 226, 236, 242, 246, 247, 252, 257, 259, 262, 272, 277, 279, 287, 289, 297, 299, 302.5, 302.7, 303.5, 304, 305, 305.5
H65E/Es	216, 226, 236, 242, 246, 247, 252, 257, 259, 262, 272, 277, 279, 287, 289, 297, 299, 303.5, 304, 305, 305.5, 307, 308, 416, 420, 430
H75Es	416, 420, 422, 424, 428, 430, 432, 434, 442, 444, 446, 307, 308
H95Es	307, 308, 311, 312
H110Es	311, 312, M313, 314, 315, M315, M316, M318
H115Es	311, 312, M313, 314, 315, M315, M316, 318, M318, 319, 320, M320, M322
H120Es	315, M315, M316, 318, M318, 319, 320, M320, 321, 322, M322, 324, 325, 329
H130Es	318, M318, 319, 320, M320, 321, 322, M322, 324, 325, 328, 329, 330, 336
H140Es	324, 328, 329, 336
H160Es	336, 345, 349
H180Es	345, 349, 374

Scan QR code to see Cat Hammers in action!



WWW.CAT.COM

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COMPLETELY CAT The new E-Series Hammers

AEXQ0662-03 (01/2015) hr





COMMITMENT to bring you the best

The best equipment. The best solutions. The best support. You may already have personal experience of the Cat commitment to performance, quality and service. Now we have extended that commitment to the Cat range of hammers, by completely designing, engineering and manufacturing our own line from the ground up. That's right, 100% Cat. And we've even built a dedicated plant to produce them, making Cat the only global manufacturer of both hammers and carriers!

Introducing... the Cat[®] E-Series Hammers: a line that will help you work more efficiently and productively. Because they are built for it.

CA

NEW MODELS have been developed: nine for heavy-duty applications like secondary quarrying, trenching/primary excavation, demolition and road construction and eight for use with mini excavators, skid-steer loaders and backhoe loaders.

100% CAT

HAMMERS COMPLETELY **DESIGNED, ENGINEERED** AND MANUFACTURED BY CAT

BUILT FOR IT

The latest Cat E-Series hammers combine design simplicity with advanced features to enhance ormance durability, ease of use and serviceability. Cat has been making sustainable progress in the machine business for 85 years, and has been co-developing and selling approved hammers for 20 of those. And when it comes to hammers, we've heard your call for rugged, durable designs that are both operator-friendly and offer peak performance.



PERFORMANCE through and through



Rugged design

With its symmetrical and fully-enclosed housing, one-piece side plates, easilyreplaced rock edges and optional wear package (on some models), the innovative new E-Series hammer has sleek looks as well as rugged design.



Operator-friendly

Auto shut off (eliminates blank firing) plus a unique Suspension System protect the carrier, increasing hammer durability. Integral silencing makes it more comfortable for operators, and more acceptable in urban environments.

Peak performance

Easily removable covers for daily maintenance. Field-replaceable lower tool bushing (simply rotate 90° to double its duty cycle). Simpler tool retaining pin system means it is quickly removed, shortening inspection time.

180°

CAT

ROTATION OF HOUSING TO EXTEND LIFE







PRODUCTION **SEDIMENTARY ROCK** 337-1345 m²

CAT H180E 8

POWER where you need it

Tough tools

Cutting a trench through a hard sedimentary layer. Demolishing reinforced concrete rubble. Quarrying volcanic rock. Tough jobs like these require powerful hammers with a lot of impact energy. The top of the line hammers in the new Cat range are just what you need, delivering breakthrough output in an eight-hour shift.

Power match

Match your Cat work tools, like hammers, to an approved Cat machine and get the most out of the standard, built-in software. Hammer control has never been easier!





SMALL yet tough

The latest additions to the range of Cat E-Series hammers may be smaller but they are just as tough as their bigger brothers. Designed specifically for construction and demolition projects, these compact hammers excel at breaking cinder block, brick, asphalt and pavement. So now you can extend the use of your smaller building and con¬struction equipment into site prep and light demolition work.

MOUNTING CONFIGURATIONS



Flat-top models allow versatility for installation on Caterpillar and equipment made by other manufacturers. Pin-on models are available for the H55E and H65E in applications that require a dedicated, hammer-equipped Cat machine.

Small size, Big benefits

Built for convenience and comfort Built for performance and lasting value Built for quick, easy maintenance

QUIETER on site

908HE CAT

BUILT FOR CONSTRUCTION AND DEMOLITION

Skid Steer & Multi Terrain Loader Backhoe Loader H3SE/Es H4SE/Es	Ground excevation Pipelines, municipalities Image: Construction Image: Construction </th <th>Ground excavation Pipelines, municipalities Image: Construction Image: Construction<!--</th--><th></th><th>ons</th><th></th><th>Mini-Excavato</th><th>or</th><th></th><th></th></th>	Ground excavation Pipelines, municipalities Image: Construction Image: Construction </th <th></th> <th>ons</th> <th></th> <th>Mini-Excavato</th> <th>or</th> <th></th> <th></th>		ons		Mini-Excavato	or		
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Silenced or not

Each of the four models is available in both 'silenced' and side-plate versions. Silenced hammers use a fully enclosed housing to suppress noise; a valuable feature in sensitive work environments and when the hammer is in close proximity to the operator.



is mounted on the machine.

OUALITY is in the details

- needed, the seal carrier is easily removed.
- Bolts are simpler to install and service.
- rebuilds, protecting your hammer investment.
- protected, regardless of operator skill level.

A Ports positioned for hose protection – Improved routing eliminates downtime from breakage.

- better reliability.

1 Tri-Suspension System – This unique suspension system comprises the suspension jacket, the upper and lower buffers. Suspension aligns the power cell and gives manageable, smooth performance.

Upper & Lower Buffers – Buffers at both ends of the power cell absorb reflective forces, isolating them from the machine. Result is guiet, reliable operation and reduced operator fatigue.

B Suspension Jacket – The front head is isolated by the one-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 Front Accumulator – An integral accumulator protects carrier pumps from spiking. Machine hydraulic system is protected.

3 Seal Carrier – Gas is retained in the power chamber by a series of five seals. These are engineered using technology developed for Cat Engines, and provide maximum gas retention between scheduled service intervals. When service is

4 Valve Body & Front Head – Power cell is efficiently designed, with only two major components. They are held together by head bolts rather than tie rods.

5 Piston Sleeve – The sleeve of the piston cylinder is serviceable if hydraulic contamination results in damage. This hammer is designed for cost-effective

6 Auto Shut Off (ASO) – Instantly stops the piston when breaking through material. Prevents blank firing, which is a top cause of hammer wear. Internal stresses are reduced, providing more productive hours of work. Hammer is

7 Tool Bushing – Lower tool bushing is rotatable 90 degrees to provide a second life and lowering owning and operator costs. Bushing can be serviced in the field with common hand tools, typically in about thirty minutes.

8 Plug & Perform – Designed for convenient installation on Cat machines.

8A 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.

9 Tool – Cat Hammer tools are robust, and feature an increased diameter for

H110Es H115Es H120Es H130Es H140Es H160Es H180Es

1C)

Unique Suspension System – Improved recoil, support and guidance protects the carrier, increases hammer durability. Entire power cell is secured firmly inside housing. Noise suppression, operator feel and control is improved.

1A Large Top Buffer – Absorbs vibration from the hammer, preventing damaging impulses from reaching the carrier.

18 Two Side Buffers – Suspend the power cell, stabilize reflective forces and dampen tie rod loading. Side buffers can be easily inspected during daily walkaround.

10 Interlocking Quad Wear System – Wear plates guide and supports the front head. Plates can be rotated 90° – doubling their service life.

D Lower Buffer – New bottom covers and absorbs vibration, dampens tie rod loading, enhances noise suppression.

- recharging a routine task achievable in the field.
- carrier hydraulic circuit.
- operation.
- reliability.
- down time.
- - previous models.
- contaminants out.

2X **SERVICE LIFE OF WEAR PLATES**

(3)

2 Auto Shut Off (ASO) – Instantly stops the piston when breaking through material. Prevents blank firing, which is a top cause of hammer wear. Reducing wear improves maintenance and more productive hours of work.

3 Accumulator – Self-contained membrane accumulator designed for long life. Port is accessible while hammer is mounted on the machine making testing and

4 Hydraulic Valves – A Pressure Control Valve (PCV) maintains maximum hydraulic pressure to ensure the hammer delivers all blows at full power. PCV can be easily checked and adjusted from outside the hammer in about 30 minutes. A check valve (not shown) isolates harmful pulsation spikes from the

5 Seal Carrier – Contains special high performance seals to extend leak-proof

6 Piston – Long piston transfers a long shock wave into the rock. Tool-piston diameters are matched for maximum energy transfer.

7 Tie-Rods – Larger threads improve load carrying capability, durability and

8 Cylinder – Engineered to be durable and reliable with minimal maintenance and

9 Upper Tool Bushing – Guides the tool to optimize in-line piston to tool contact.

10 Tool Retaining Pins & Keepers – Tool removal process is simplified, achievable with common hand tools. Removal time reduced by 40% over

1 Lower Tool Bushing – As bushing reaches the wear limit, it can be easily rotated (90°) or replaced to bring it back into specification. Dust seals keep

Specifications

			H35Es		H35E		H45Es		H45E		H55Es		H55E		H55E*		H65Es		H65E		H65E*	
Recommended carrier	t		1.1 – 2.4		1.1 – 2.4		1.5 – 3.2		1.5 – 3.2		2.5 - 6		2.5 - 6		2.5-6		3-9		3-9		3-9	
veight range	(Ib)		(2,430 -	5,300)	(2,430 – 5	5,300)	(3,310 –	7,060)	(3,310 – 7	7,060)	(5,500 –	13,200)	(5,500 –	(5,500 - 13,200)		13,200)	(6,600 -	19,800)	(6,600 –	- 19,800)	(6,610 - 19,800)	
Dperating weight**	kg		125 – 130	0	125 – 130)	145 – 250		145 – 250)	260 – 34	5	250 – 34	10	220 – 31	5	315 – 39	0	305 - 38	80	260 - 35	5
	(lb)		(276 – 28	37)	(276 – 28	7)	(320 – 55	i1)	(320 – 55	1)	(573 – 761) (551		(551 – 7	(551 – 750)		95)	(695 – 8	60)	(673 – 8	38)	(573 – 7	83)
mpact frequency	blows	s/min. 600 – 1,800 600		600 – 1,8	00	780 – 1,8	00	780 – 1,8	00	600 — 1,680		600 – 1,	680	600 - 1,6	680	720 – 1,740		720 – 1,	740	720 – 1,	740	
Energy Class	J	(ft. lb.)	407	(300)	407	(300)	542	(400)	542	(400)	813	(600)	813	(600)	813	(600)	1,085	(800)	1,085	(800)	1,085	(800)
Acceptable oil flow	lpm	(gpm)	12 – 35	(3.2 – 9.2)	12 – 35	(3.2 – 9.2)	25 - 62	(6.6 – 16)	25 - 62	(6.6 – 16)	30 - 85	(7.9 – 22)	30 – 85	(7.9 – 22)	30 - 85	(7.9 – 22)	40 - 115	(10 – 30)	40 - 115	5 (10 – 30)	40 - 115	(10 – 30)
Dperating pressure	kPa	(psi)	16,500	(2,393)	16,500	(2,393)	17,000	(2,465)	17,000	(2,465)	16,500	(2,393)	16,500	(2,393)	16,500	(2,393)	16,500	(2,393)	16,500	(2,393)	16,500	(2,393)
Dimensions																						
Length	mm	(in)	300	(11.81)	284	(11.17)	300	(11.81)	296	(11.65)	346	(13.62)	328	(12.91)	333	(13.09)	345	(13.06)	332	(13.07)	337	(13.26)
B Width	mm	(in)	311	(12.22)	345	(13.58)	311	(12.22)	345	(13.58)	451	(17.76)	445	(17.52)	344	(13.56)	451	(17.76)	445	(17.52)	453	(17.83)
C Hight	mm	(in)	860	(33.86)	871	(34.29)	1,006	(39.61)	1,017	(40.04)	1,108	(43.62)	1,156	(45.51)	1,323	(52.08)	1,324	(52.13)	1,306	(51.43)	1,454	(57.23)
D Tool Diameter	mm	(in)	40	(1.57)	40	(1.57)	50	(1.97)	50	(1.97)	58	(2.28)	58	(2.28)	58	(2.28)	68	(2.68)	68	(2.68)	68	(2.68)
Tool Working Lenght	mm	(in)	240	(9.45)	240	(9.45)	269	(10.59)	269	(10.59)	598	324	324	(12.76)	324	(12.76)	371	(14.61)	371	(14.61)	371	(14.61)
																			1			

SPECIFIED to suit your needs





* Pin-on model.

** Working weight includes hammers, standard tool and average mounting bracket.

From small hammers...

Specifications

			H75Es		H95Es		H110Es		H115Es		H120Es		H130Es		H140Es		H160Es		H180Es	
Recommended carrier	t	(lb)	6–10		7–14		8–16		12–20		17–32		19–36		24-42		32-55		42-76	
weight range			(13200–2	2100)	(15400–3	0900)	(17600–3	5200)	(26400-4	4000)	(37400–5	7200)	(41800–7	70400)	(52,920–9	92,610)	(70,560—	121,275)	(92,610–	167,580)
Operating weight*	kg	(lb)	500	(1103)	627	(1382)	1017	(2237)	1180	(2596)	1582	(3480)	1890	(4158)	2,410	(5,314)	3,230	(7,122)	3,990	(8,798)
mpact frequency	blows	s/min.	840–1650		700–1260)	450-1000		370–800		350–620		320–600		325-540		400-505		275-450	
Energy Class	J	(ft. lb.)	1356	(1000)	2034	(1500)	2305	(1700)	3390	(2500)	4067	(3000)	4745	(3500)	8,135	(6,000)	11,524	(8,500)	16,270	(12,000)
Acceptable oil flow	lpm	(gpm)	70–130	(18–34)	70–150	(18–40)	60–120	(16-32)	70–130	(18–34)	100–170	(26–45)	120–220	(32–58)	160-230	(42-60)	220-300	(58-79)	220-300	(58-79)
Operating pressure	kPa	(psi)	14500	(2100)	14500	(2100)	16000	(2320)	15000	(2175)	15000	(2175)	15000	(2175)	16,000	(2,320)	16,000	(2,320)	16,000	(2,320)
Dimensions																				
A Length	mm	(in)	520	(20.47)	520	(20.47)	552	(21.73)	552	(21.73)	594	(23.39)	624	(24.57)	585	(23.0)	730	(28.7)	730	(28.7)
B Width	mm	(in)	512	(20.16)	512	(20.16)	585	(23.00)	585	(23.00)	585	(23.00)	585	(23.00)	670	(26.4)	736	(29.0)	758	(29.8)
C Hight	mm	(in)	1493	(58.79)	1666	(65.61)	2024	(79.68)	2191	(86.26)	2372	(93.39)	2560	(100.79)	2759	(108.62)	3057	(120.35)	3257	(128.23)
D Tool Diameter	mm	(in)	74.5	(2.93)	87.5	(3.4)	99.5	(3.92)	109.5	(4.31)	119.5	(4.70)	130.0	(5.10)	139.5	(5.49)	159.5	(6.28)	179.5	(7.07)
Tool Working Lenght	mm	(in)	376.1	(14.81)	416.3	(16.39)	496	(19.53)	549	(21.61)	598	(23.54)	647	(25.47)	652	(25.66)	753	(29.65)	760.5	(29.94)



* Working weight includes hammers, standard tool and average mounting bracket.

TOOLS that match the job

 Sedimentary and weak metaphoric rock into which tool penetrates

Working in non-abrasive but

Needing medium penetration

 Sedimentary and weak metaphoric rock into which tool penetrates

 Working in soft, non-abrasive rock Needing greater protection against excessive retaining pin groove wear

Chisel (C) Applications

 Concrete Select when:

Moil (M)

Applications

 Concrete Select when:

ductile rock

rate into rock.







Blunt (B) Applications

 Igneous and tough metamorphic rock into which tool doesn't penetrate

Select when:

- Demolishing concrete structure
- Boulder breaking



Spade (S) Applications

 Sedimentary and weak metaphoric rock into which tool penetrates Concrete

Select when:

- General breaking
- Asphalt cutting



Compacting Plate (CP) Applications

- Soil
- Select when: Needing to compact soil

	H35E/Es	H45E/Es	H55E/Es	H65E/Es	H75E s*	H95E s*	H110E s*	H115E s*	H120E s*	H130E s*	H140Es*	H160Es*	H180Es*
1. Road building / construction						,	1						1
Breaking of road surface	C, M, S	C, M, S	C, M, S	C, M, S	С, М	C, M	C, M	C, M	C, M				
Asphalt cutting	C, S	C, S	C, S	C, S	С	С					C, M	C, M	C, M
Breaking uneven bedrock to lay a road							С, М	C, M	C, M	C, M	C, M	C, M	C, M
Trench excavation for drainage					С, М	C, M	С, М	C, M	C, M	C, M	C, M	C, M	C, M
Demolition of bridges	С, М	C, M	С, М	С, М	С, М	C, M	С, М	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M
Heavily reinforced bridge pillars											В	В	В
Compacting soils	СР	СР	СР	СР			İ						ĺ
Making holes (for traffic signs, lamp posts)	М	М	М	М	М	М	м	М	М	М	М	М	М
Breaking of frozen ground	C, M, S	C, M, S	C, M, S	C, M, S	С, М	C, M	C, M	C, M, P	C, M	C, M	C, M	C, M	C, M
2. Demolition / housing development													
Demolition of concrete walls, roofs, floors	C, M	C, M	C, M	C, M	С, М	C, M	C, M	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M
Demolition of light, reinforced concrete (<20")	М	М	М	М	М	М	М	B, M	B, M	B, M			
Brick walls	С, М	С, М	C, M	С, М	С, М	C, M	C, M	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M
Rock trenches for mains/water supply/utilities					С, М	C, M C, M	C, M						
Rock excavation for foundation					С, М	C, M	C, M	С, М	C, M	C, M	C, M	C, M	C, M
Mass excavation of rock for industrial building bases										C, M	C, M	C, M	C, M
Massive reinforced concrete foundations											М	М	М
Separating rebar from concrete (for recycling)	С, М	C, M	С, М	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M	B, C, M				
3. Quarrying / open cast mining													
Secondary boulder breaking							В	В	В	В	В	В	В
Primary breaking of rock										С, М	C, M	C, M	С, М
Breaking oversizes on a crusher/feeder/feed chute						В, С, М,	С, М	B, C, M,	B, C, M	B, C, M	B, C, M	B, C, M	
4. Underground applications													
Scaling					С	С	C	С					
5. Metallurgical applications													
Breaking of slag in casting ladles						C, M	С, М	С, М					
Breaking of slag in converter openings						C, M	С, М	С, М	С, М	С, М	C, M		
Cleaning of castings						C, M	С, М	С, М					
Breaking of massive steel slag												C, M	С, М
Breaking of aluminum electrolyze slag					С, М	С, М	C, M	С, М	С, М	C, M	C, M		
Breaking of refractory linings in furnaces	С, М	С, М	C, M	C, M	С, М	C, M							
6. Other applications													
Demolition/Rock breaking under water								С, М	С, М	C,M	C,M	C,M	C,M
*E series tools not compatible for use with previous hammer models.													

Applications guide with standard tools

SOLUTIONS that are fit for purpose





Sedimentary Rock



Production rates listed are based on 8-hour shift. Figures are for general estimation purpose only. Actual working results may vary according to the quality and structure of the material to be broken, required degree of material size reduction, installation, condition of the carrier, conditions at the work site, haulage of the broken material, skills of the operator, etc.





229-535 (300-700)

UNIQUE capabilities

THE INSIDE STORY

Take a look inside the birthplace of the **E-Series Hammers**

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Engineered to last

Cat engineering turns our designers' vision into reality. Ensuring that each Cat hammer inherits the DNA of Cat machines and their reputation for performance, quality and serviceability. In this dedicated hammer facility, E-Series hammers are engineered using proven Cat methods and tested according to stringent Cat specifications.





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As the world's number one producer of construction and mining equipment, and the industry's largest manufacturer of work tools, Cat's record of manufacturing excellence is unsurpassed. Leveraging the Caterpillar Production System and 6 sigma principles, you can be assured that Cat hammers are made to be the best. And that's a commitment!



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