



Cat® Hammers

H35Es, H45Es, H55Es, H65Es
H35E, H45E, H55E, H65E,
H75Es, H80E/Es, H95Es

FEATURES:

Built for Your Convenience, Comfort

- Cat® Hammers are designed for optimum performance and integration with your Cat compact construction equipment. They can also be utilized with non-Cat carriers.
- Plug & Perform. No adjustment to pressures or flows is necessary. Ports are positioned for convenient installation on your Cat carrier. Hoses are protected.
- Hammers with fully enclosed housings are silenced with a lower overall noise level for a quieter, safer job site. Side plate constructed housings are also available.
- Tri-suspension system on silenced models guides the power cell and gives manageable, smooth performance. The result is a hammer that's comfortable and responsive to operate.
- Gas-fired operating cycle delivers consistent, reliable performance over time. Hammers are reliable when breaking materials like non-reinforced concrete, asphalt and cinder block.

Built for Performance, Lasting Value

- Automatic shut-off protects the hammer from 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.
- Hammers adjust automatically to flows and pressures of your Cat carrier providing top performance and long service life.

- Seal carrier provides maximum gas retention and reliable performance. New design incorporates innovative technology.
- Tri-suspension system on silenced models protects the power cell and assures reliable operation.

Built for Quick, Easy Maintenance

- Grease point is ergonomically located at standing height making it comfortable and easy to access.
- Tool changes are simple and easily accomplished with common hand tools.
- Power chamber and accumulator pressures can be checked and charged while the hammer is mounted on the machine.
- Single bushing design is slip fit and field-replaceable. One piece provides proper tool alignment.
- Cat hammers are designed to rebuild easily, providing lasting value for your hammer investment.

Completely Cat®

- E Series hammers bring together your performance, quality, and serviceability expectations alongside our design, manufacturing and logistics experience. E Series hammers are completely Cat: from the inside out.

Hammer / Machine Compatibility

Skid steer and multi terrain loaders, mini-excavators and backhoe loaders. 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



Americas North



Cat Hammers

Built for Your Convenience



Fully Enclosed, Silenced housing lowers overall noise level for a quieter, safer job site. Internal power cell is protected. Designed and engineered to eliminate stress points.

Easy to Tune & Maintain — Gas ports and valves are easy to check and charge while the hammer is mounted to the machine.

Standing Height Grease Point means required maintenance is comfortable and easy to do.

Tools are heat-treated, matched to piston diameter and mass to deliver full blow energy.

Non-silenced, side plate housing models are available.

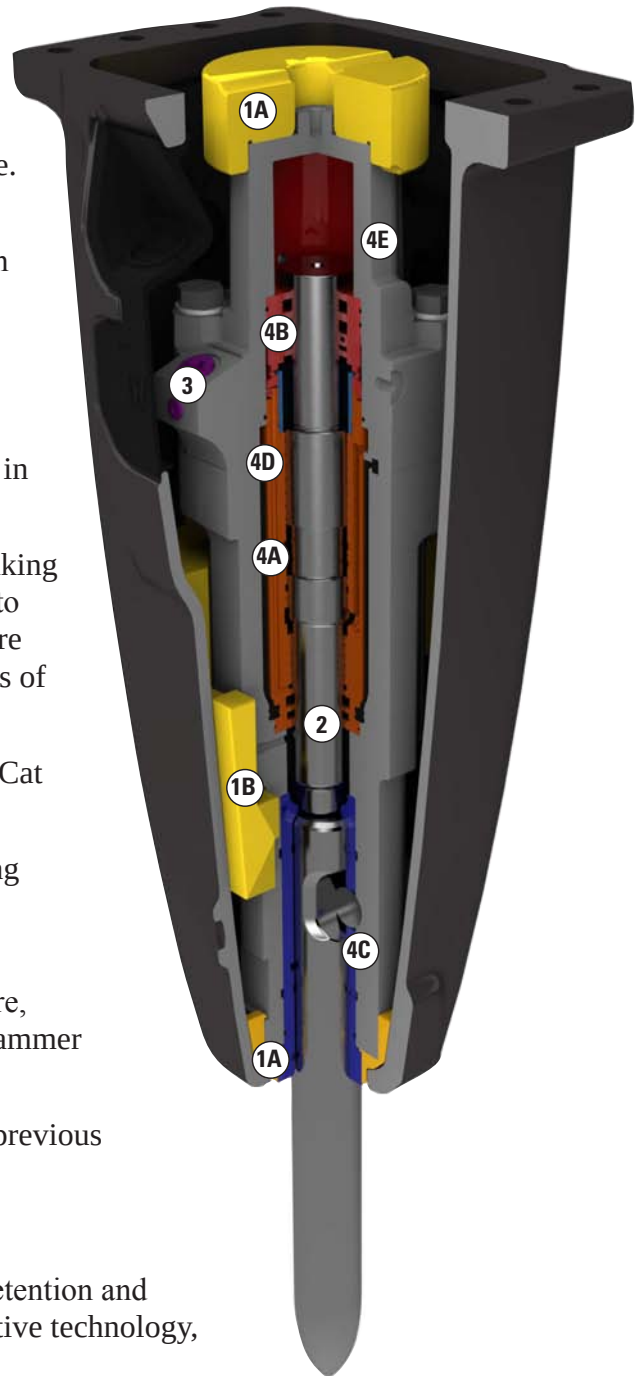
Flat top

Pin-on



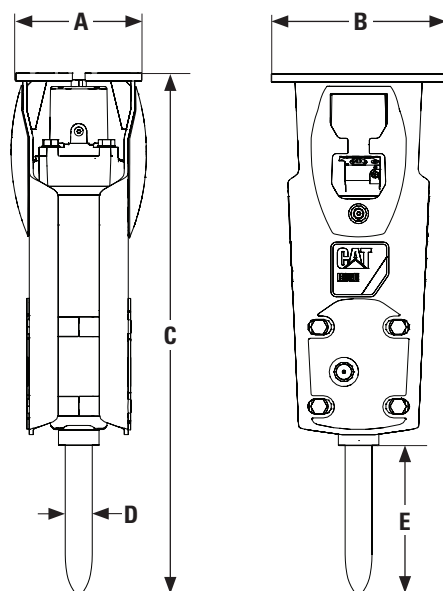
Built for Quick & Easy Maintenance, Lasting Value

- 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 & 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 & 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 H55E/Es and H65E/Es provides additional protection for the machine's hydraulic system.
 - ④E **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. Bolts are simpler to install and service.



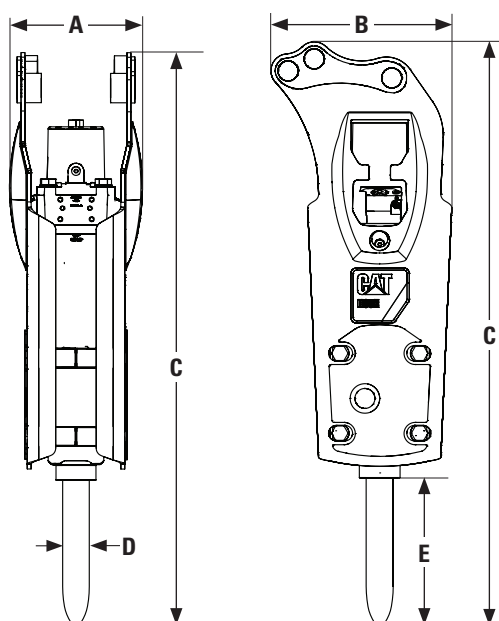
Built to Your Specifications

Flat Top Models



		H35Es	H35E	H45Es	H45E	H55Es
Specifications						
Recommended Carrier	t	1.1–2.4	1.1–2.4	1.5–3.2	1.5–3.2	2.5–6
Weight Range	(lb)	(2,430–5,300)	(2,430–5,300)	(3,310–7,060)	(3,310–7,060)	(5,500–13,200)
Operating Weight Range*	kg	125–130	125–130	145–250	145–250	260–345
	(lb)	(276–287)	(276–287)	(320–551)	(320–551)	(573–761)
Impact Frequency	blows/min.	600–1,800	600–1,800	780–1,800	780–1,800	600–1,680
Energy Class	J	407	407	542	542	813
	(ft-lb)	(300)	(300)	(400)	(400)	(600)
Rated Flow	lpm	12–35	12–35	25–62	25–62	30–85
	(gpm)	(3.2–9.2)	(3.2–9.2)	(6.6–16)	(6.6–16)	(7.9–22)
Operating Pressure, maximum	kPa	16,500	16,500	17,000	17,000	16,500
	(psi)	(2,393)	(2,393)	(2,465)	(2,465)	(2,393)
Dimensions						
A Width	mm	300	284	300	296	346
	(in)	(11.81)	(11.17)	(11.81)	(11.65)	(13.62)
B Length	mm	311	345	311	345	451
	(in)	(12.22)	(13.58)	(12.22)	(13.58)	(17.76)
C Height	mm	860	871	1,006	1,017	1,108
	(in)	(33.86)	(34.29)	(39.61)	(40.04)	(43.62)
D Tool Diameter, top	mm	40	40	50	50	58
	(in)	(1.57)	(1.57)	(1.97)	(1.97)	(2.28)
E Tool Working Length	mm	240	240	269	269	324
	(in)	(9.45)	(9.45)	(10.59)	(10.59)	(12.76)

Built to Your Needs

Pin-on Models

		H55E	H55E*	H65Es	H65E	H65E*
Specifications						
Recommended Carrier	t	2.5–6	2.5–6	3–9	3–9	3–9
Weight Range	(lb)	(5,500–13,200)	(5,500–13,200)	(6,600–19,800)	(6,600–19,800)	(6,610–19,800)
Operating Weight Range*	kg	250–340	220–315	315–390	305–380	260–355
	(lb)	(551–750)	(485–695)	(695–860)	(673–838)	(573–783)
Impact Frequency	blows/min.	600–1,680	600–1,680	720–1,740	720–1,740	720–1,740
Energy Class	J	813	813	1,085	1,085	1,085
	(ft-lb)	(600)	(600)	(800)	(800)	(800)
Rated Flow	lpm	30–85	30–85	40–115	40–115	40–115
	(gpm)	(7.9–22)	(7.9–22)	(10–30)	(10–30)	(10–30)
Operating Pressure, maximum	kPa	16,500	16,500	16,500	16,500	16,500
	(psi)	(2,393)	(2,393)	(2,393)	(2,393)	(2,393)
Dimensions						
A Width	mm	328	333	345	332	337
	(in)	(12.91)	(13.09)	(13.06)	(13.07)	(13.26)
B Length	mm	445	344	451	445	453
	(in)	(17.52)	(13.56)	(17.76)	(17.52)	(17.83)
C Height	mm	1,156	1,323	1,324	1,306	1,454
	(in)	(45.51)	(52.08)	(52.13)	(51.43)	(57.23)
D Tool Diameter, top	mm	58	58	68	68	68
	(in)	(2.28)	(2.28)	(2.68)	(2.68)	(2.68)
E Tool Working Length	mm	324	324	371	371	371
	(in)	(12.76)	(12.76)	(14.61)	(14.61)	(14.61)

* Pin-on model

Cat Hammers

Built for Your Construction & Demolition Projects...

Hammers of this size excel at breaking cinder block, brick, asphalt and pavement extending the use of your smaller building and construction equipment into site prep and light demolition work. Contact your local Cat dealer to see the complete line of Cat hammers for your larger equipment. Tackle reinforced concrete and rock breaking for your heavy demolition, mining and quarry projects.

APPLICATIONS

APPLICATIONS			Mini-Excavator		Skid Steer & Multi Terrain Loader	
			H35E/Es	H45E/Es	Backhoe Loader	
					H55E/Es	H65E/Es
Construction						
Site prep, Landscaping	Ground excavation	Pipelines, municipalities				
		Frozen ground				
	Asphalt cutting	Driveways, roads				
	Compaction	Municipalities				
Demolition						
Concrete	Light	Sidewalks, driveways				
	Standard	Reinforced concrete 3"-20"				
Masonry	Cinder block, brick	Walls				
Pavement	Asphalt breaking	Driveways, roads				
	Concrete, composite	Roads				
Metallurgical						
Cleaning		Refractory linings in furnaces				

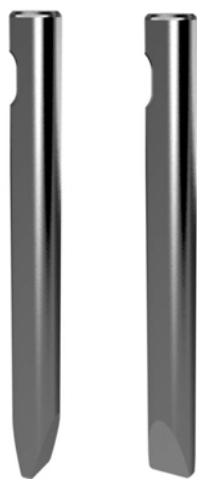
PRODUCTIVITY RATES

Production rates listed are for an 8-hour shift. They are for general estimation purposes only. Actual working results may vary.

Hammer Model	Non-Reinforced Concrete	
	m ³	yd ³
H35E/Es	6–12	(8–16)
H45E/Es	8–18	(10–23)
H55E/Es	14–23	(18–30)
H65E/Es	45–90	(34–69)



...with the Tools You Need to Get the Job Done



Chisel (C)

Use for general breaking, demolition, asphalt cutting and demolition of concrete or brick walls.



Moil (M)

Select for making holes, breaking light, reinforced concrete and general breaking and demolition.



Spade (S)

Use for general breaking and asphalt cutting.



Compacting Plate (CP)

Perfect when you need to compact soil.

	H35E/Es	H45E/Es	H55E/Es	H65E/Es
Road building / construction				
Breaking of road surface	C, M, S	C, M, S	C, M, S	C, M, S
Asphalt cutting	C, S	C, S	C, S	C, S
Demolition of bridges	C, M	C, M	C, M	C, M
Compacting soils	CP	CP	CP	CP
Making holes (for traffic signs, lamp posts)	M	M	M	M
Breaking of frozen ground	C, M, S	C, M, S	C, M, S	C, M, S
Demolition / housing development				
Demolition of concrete walls, roofs, floors	C, M	C, M	C, M	C, M
Demolition of light, reinforced concrete (<20")	M	M	M	M
Brick walls	C, M	C, M	C, M	C, M
Separating rebar from concrete (for recycling)	C, M	C, M	C, M	C, M
Metallurgical applications				
Breaking of refractory linings in furnaces	C, M	C, M	C, M	C, M



Cat® H80E/Es Hydraulic Hammers

for Small Excavators and Backhoe Loaders

Performance

- Get more work done using continual, reliable breaking power.
- Rely on the same level of performance day over day; power won't fade over time as some other hammers do.
- Enjoy faster service times and lower owning and operating costs because of the simplified, refined design.
- Up to 42% fewer parts than competitors, resulting in a greater reliability and faster, easier service.

Protection

- Cat® hammers protect your investment by buffering pressure spikes internally to the hammer; keeping them out of the machine.
- Choose a silenced version, the H80Es; enjoy greater operator and environmental comfort.

Product Support

- Greasing is the only daily maintenance required.
- Regularly serviced parts, like the tool and the lower bushing, can be user-serviced in the field.
- Annual gas checks can also be done in the field, without dismounting the hammer.
- Every part on this hammer is 100% Cat dealer serviced, available from any Cat dealer in 24 hours or less, anywhere in the world.
- Caterpillar backs your Cat Hammer and your Cat Machine with the same world-class level of service. You have one point of support for your entire system.



Hammer	Energy Class	BPM	Rated Flow	Operating Weight Range*	Operating Pressure	Carrier Weight Range
H80E 465-5624	1,356 J (1,000 ft-lb)	600-1500	70-130 lpm (18-34 gpm)	412-422 kg (906-928 lb)	17,500 kPa (2,500 psi)	6-10 t (13,200-22,100 lb)
H80Es 457-0158	1,356 J (1,000 ft-lb)	600-1500	70-130 lpm (18-34 gpm)	415-425 kg (913-935 lb)	17,500 kPa (2,500 psi)	6-10 t (13,200-22,100 lb)

*Operating weight includes hammer, standard tool, and mounting bracket.

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Cat[®] Hammers

H75Es, H95Es

FEATURES:

Completely Cat[®]

- E series hammers bring together Caterpillar customer knowledge; performance, quality, serviceability expectations; manufacturing and logistics experience. From design through manufacture — E series hammers are completely Cat.
- The H75Es and H95Es are designed for optimum performance and integration with Cat backhoe loaders and excavators. They can also be used on non-Cat machines.

Ease of Operation

- Hammers are silenced — making them ideal for use in cities, suburbs and applications in which noise abatement is important, or compliance with noise regulations is critical.
- Tri-suspension system guides the power cell and reduces noise and vibration. Top and bottom buffers on the power cell absorb reflective forces, while the suspension jacket guides the front head and reduces noise. The result is a quieter operation and lower operator fatigue.
- Gas-fired operating cycle delivers a consistent, reliable performance over time making the hammer reliable in applications such as concrete, asphalt, rock and light trenching.

Reliable, Dependable

- Automatic Shut-Off protects the hammer from blank firing and reduces internal wear, protecting the hammer from less experienced operators.
- Fully enclosed housing is designed to protect the power cell and eliminate stress points.
- Seal system assures consistent power is maintained between scheduled service intervals. Cat Engine technology is leveraged.
- Tri-suspension system protects the power cell and assures reliable operation.

- Integral accumulator protects the carrier pumps from hydraulic spiking.
- Hoses route through the top of the hammer and are well protected to avoid damage.

Easy to Maintain

- Manually greasing the hammer has been simplified. A single grease point provides hammer paste to tool bushings. Grease point is ergonomically located at standing height making it comfortable for the operator to access.
- Tool changes are simple and easily accomplished with common hand tools. Lower tool bushing can be serviced in the field.
- Power chamber and accumulator pressures can be checked and charged while the hammer is mounted on the machine.
- Power cell is designed for efficiency with only two major components: front head and valve body.
- Cat hammers are designed to rebuild easily — providing lasting value for your hammer investment.

Hammer / Machine Compatibility

Backhoe Loaders and small Hydraulic Excavators. Contact your Cat dealer for specific machine configurations.

Model	Machines
H75Es	416, 420, 430, 307, 308
H95Es	416, 420, 430, 446, 450, 307, 308, 311, 312

Cat Hammers

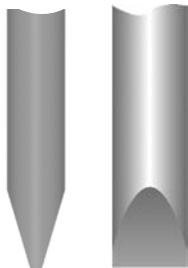


Specifications

		H75Es		H95Es	
Recommended carrier weight range	t (lb)	6–10	(13,200–22,100)	7–14	(15,400–30,900)
Operating weight*	kg (lb)	500	(1,103)	627	(1,382)
Impact frequency	blows/min.	840–1,650		700–1,260	
Energy Class	J (ft. lb.)	1,356	(1,000)	2,034	(1,500)
Acceptable oil flow	lpm (gpm)	70–130	(18–34)	70–150	(18–40)
Operating pressure	kPa (psi)	14,500–17,200 (2,100–2,500)		14,500–17,200 (2,100–2,500)	

* Operating weight includes hammer, standard tool and average mounting bracket.

Applications Guide with Standard Tools



Chisel (C)

Applications

- Sedimentary and weak metamorphic rock into which tool penetrates
- Concrete

Select when:

- Working in non-abrasive but ductile rock
- Needing medium penetration rate into rock.



Moil (M)

Applications

- Sedimentary and weak metamorphic rock into which tool penetrates
- Concrete

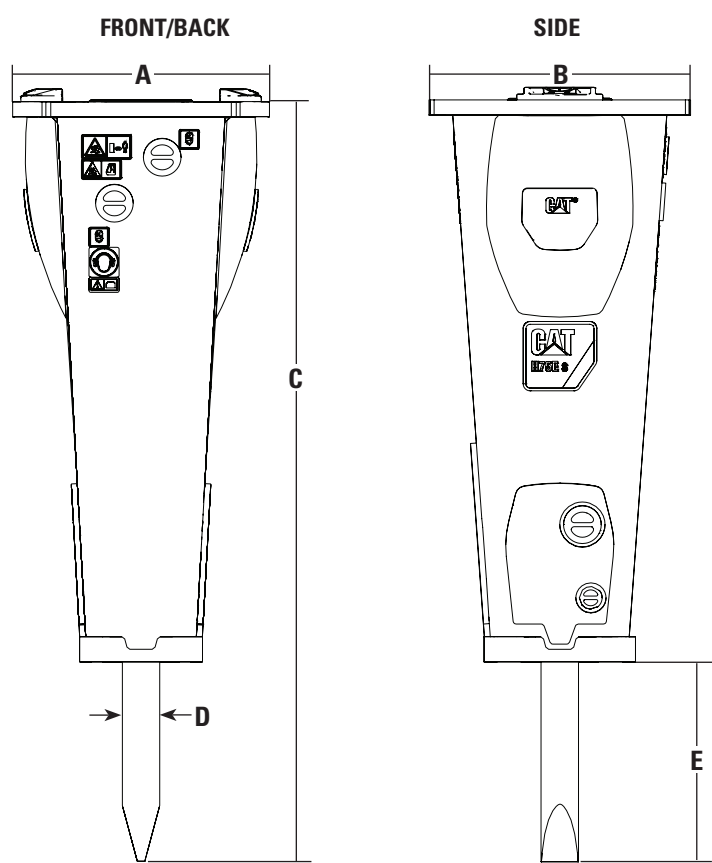
Select when:

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

	H75Es	H95Es
1. Road building / construction		
Breaking of road surface	C, M	C, M
Asphalt cutting	C	C
Trench excavation for drainage	C, M	C, M
Demolition of bridges	C, M	C, M
Making holes (for traffic signs, lamp posts)	M	M
Breaking of frozen ground	C, M	C, M
2. Demolition / housing development		
Demolition of concrete walls, roofs, floors	C, M	C, M
Demolition of light, reinforced concrete (<20")	M	M
Brick walls	C, M	C, M
Rock trenches for mains/water supply/utilities	C, M	C, M
Rock excavation for foundation		C, M
Separating rebar from concrete (for recycling)	C, M	C, M
3. Quarrying / open cast mining		
Breaking over sizes on a crusher/feeder/feed chute		C, M
Scaling	C	C
4. Metallurgical applications		
Breaking of slag in casting ladles		C, M
Cleaning of castings		C, M
Breaking of refractory linings in furnaces	C, M	C, M



Dimensions



			H75Es		H95Es	
A	Length	mm (in)	520	(20.47)	520	(20.47)
B	Width	mm (in)	512	(20.16)	512	(20.16)
C	Height	mm (in)	1,493	(58.79)	1,666	(65.61)
D	Tool Diameter	mm (in)	74.5	(2.93)	87.5	(3.4)
E	Tool Working Length	mm (in)	376.1	(14.81)	416.3	(16.39)



Productivity

		H75Es		H95Es	
Non-Reinforced Concrete	m ³ (yd ³)	65–107	(85–140)	69–122	(90–160)
Reinforced Concrete	m ³ (yd ³)	19–46	(25–60)	38–61	(50–80)

Production rates listed are based on 8-hour shift. The above 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.



Cat Hammers

For more information on the variety of Work Tool attachments available contact your local Cat dealer.

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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Replaces YEKN0350

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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