



# H75 E

Cat® Hydraulic Hammer

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## 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 H75E is designed for optimum performance and integration with Cat backhoe loaders and excavators. It can also be used on non Cat® machines.

### Ease of Operation

- 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.
- Seal system assures consistent power is maintained between scheduled service intervals. Cat Engine technology is leveraged.
- Integral accumulator protects the carrier pumps from hydraulic spiking.

### Easy to Maintain

- 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.

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## Hammer / Machine Compatibility

The H75E is recommended for Backhoe Loaders and small Hydraulic Excavators in the carrier weight range 6-10 tons.

Contact your Cat dealer for specific machine configurations.

# Cat® Hydraulic Hammers

- ① **Easy Charging** – Gas ports are accessible from the front, and can be checked or charged while the hammer is mounted to the machine.
- ② **Front Accumulator** – An integral accumulator protects carrier pumps from spiking. Machine hydraulic system is protected.
- ③ **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.
- ④ **Single Grease Point** – Ergonomic design puts the single grease point at standing height - making required maintenance comfortable and easy to do.
- ⑤ **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 needed, the seal carrier is easily removed.
- ⑥ **Piston Sleeve** – The sleeve of the piston cylinder is serviceable if hydraulic contamination results in damage. This hammer is designed for cost-effective rebuilds, protecting your hammer investment.
- ⑦ **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 protected, regardless of operator skill level.
- ⑧ **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.
- ⑨ **Tool** – Cat Hammer tools are robust, heat treated and matched to piston diameter and mass to deliver full blow energy.
- ⑩ **Strong Design** – Durable side plate design protects the hammer and allows easy access for servicing.

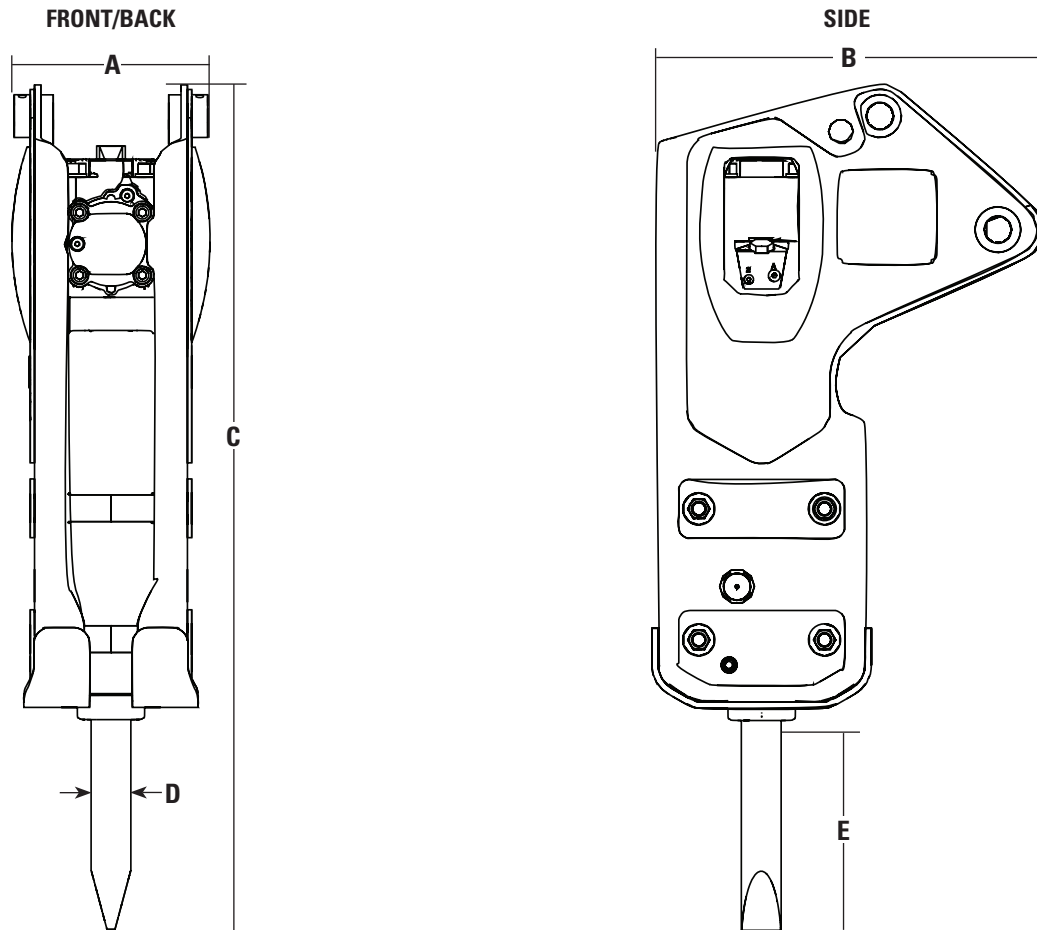


## Performance & Lasting Value

- Power levels are consistent over time
- Simple design is easy to operate and maintain
- Key features make rebuild extremely cost effective, preserving your investment

## Specifications

			H75E	
Recommended carrier weight	t	(lb)	6-10	(13,230-22,050)
Operating weight	kg	(lb)	440	(970)
Impact frequency	blows/min.		840-1,650	
Energy Class	J	(ft. lb.)	1,356	(1,000)
Acceptable oil flow	lpm	(gpm)	70-130	(18.5-34.3)
Operating pressure (Max)	kPa	(psi)	17,240	(2,500)



## Dimensions

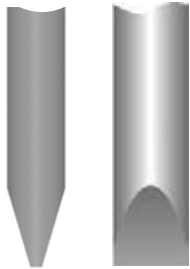
			H75E	
<b>A</b> Length	mm	(in)	346	(13.6)
<b>B</b> Width	mm	(in)	728	(28.7)
<b>C</b> Height	mm	(in)	1590	(62.6)
<b>D</b> Tool Diameter	mm	(in)	74.5	(2.9)
<b>E</b> Tool Working Length	mm	(in)	373	(14.7)

## Productivity

			H75E	
Non-Reinforced Concrete	m <sup>3</sup>	(yd <sup>3</sup> )	65–107	(85–140)
Reinforced Concrete	m <sup>3</sup>	(yd <sup>3</sup> )	19–46	(25–60)

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.

## 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

For more information on the variety of Work Tool attachments available for Backhoe Loaders and Excavators contact your local Cat dealer.

### H75E

#### 1. Road building / construction

Breaking of road surface	C, M
Asphalt cutting	C
Trench excavation for drainage	C, M
Demolition of bridges	C, M
Making holes (for traffic signs, lamp posts)	M
Breaking of frozen ground	C, M

#### 2. Demolition / housing development

Demolition of concrete walls, roofs, floors	C, M
Demolition of light, reinforced concrete (<20")	M
Brick walls	C, M
Rock trenches for mains/water supply/utilities	C, M
Rock excavation for foundation	
Separating rebar from concrete (for recycling)	C, M

#### 3. Quarrying / open cast mining

Breaking over sizes on a crusher/feeder/feed chute	
Scaling	C

#### 4. Metallurgical applications

Breaking of slag in casting ladles	
Cleaning of castings	
Breaking of refractory linings in furnaces	C, M