



Cat[®] Hammers

H35D S, H45D S, H55D S, H65D S

FEATURES & BENEFITS:

Simplified Design

- Lower owning & operating cost and improved serviceability/reliability.

Enclosed Housing with Dampers

- Protects power cell, eliminates side plate cross bolts and reduces noise level during hammer operation.

Recoil Isolation

- Protects carrier from damaging reflective forces.

Ultra High Blow Rate

- Greater productivity in concrete and asphalt applications.

Nitrogen Membrane Accumulator

- Self contained design for constant power during the piston stroke.

Designed by Caterpillar

- Hammer matched to Caterpillar carrier for maximum performance, productivity, reliability and durability.

One Piece Body

- Eliminates tie rods, tie rod nuts, and other components.

Single Bushing Design

- Combines three bushings into one (upper, lower and thrust ring). Slip fit and field replaceable.

Two Positions Ports (H55D S / H65D S)

- Optimizes hose routing for Mini Excavators, Skid Steer and Multi-Terrain Loader installations.

Silenced Hammer

- Standard product offering.

Hammers / Machines Compatibility

Mini Excavators, Skid Steer and Multi-Terrain Loaders

Model	Machines
H35D S	301.6C, 301.8C
H45D S	301.6C, 301.8C, 302.5C
H55D S	302.5C, 303C CR, 303.5C CR 216B, 226B, 232B, 236B, 242B, 246B, 248B, 252B, 262B, 268B 247B, 257B, 267B, 277B, 287B, BH150, BH160
H65D S	303C CR*, 303.5C CR, 304C CR, 305C CR 216B, 226B, 232B, 236B, 242B, 246B, 248B, 252B, 262B, 268B 247B, 257B, 267B, 277B, 287B, BH150, BH160

* Installation of add-on optional counterweight to machine is required.

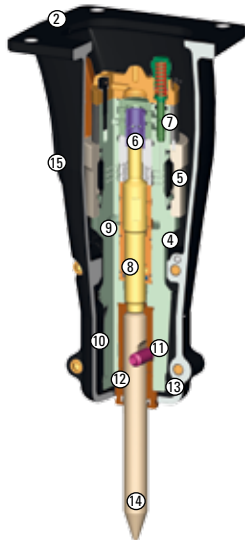
Cat Hammers

Hammer Illustrations

H55D S, H65D S



H35D S, H45D S



1. **Integral Mounting (H55D S / H65D S)** - Optimum compatibility with Cat Mini-Excavators and easily adaptable to mounting on Skid Steer and Multi Terrain Loaders. Compatible with Caterpillar pin grabber quick coupler system.
2. **Flat Top Mounting (H35D S / H45D S)** - design to accommodate brackets and dedicated quick couplers.
3. **Two Position Ports (H55D S / H65D S)** – optimized hose routing provides protection from damage on Mini Excavators, Skid Steer and Multi Terrain Loaders (not shown on illustration).
4. **One Piece Body** – reduces components and eliminates tie rods and nuts.
5. **Low Pressure Tubular Accumulator** – assists in the power stroke of the piston.
6. **Distributor** – high oil volume for greater blow frequency.
7. **Pressure Adjusting Valve (PAV)** – assures that all blows are delivered at a constant blow energy.
8. **Piston** – long heavy piston delivers maximum impact energy and minimizes recoil forces to carrier.
9. **Cylinder Sleeve** – provides replaceable and economical protection for the cylinder.
10. **Recoil Isolation** – significantly reduces reflective forces to the carrier structure during hammer operation and improves operator comfort.
11. **Round Tool Retaining Pin** – simple design allows for rapid tool and bushing removal and replacement.
12. **Single Bushing Design** – slip fit field replaceable one piece bushing (includes lower, upper and thrust ring).
13. **Bushing Dust Seal** – prevents contamination of grease and extends life of wear components.
14. **Tool** – heat treated for longer life, ideally matched to piston for optimum transfer of stress waves.
15. **Enclosed Housing with Dampers** – provides protection to the power cell and provides noise reduction.

	H35D S	H45D S	H55D S	H65D S
Recommended carrier weight	2,430-5,300 lb	3,310-7060 lb	5,500-9,900 lb	6,610-14,300 lb
	1,100-2,400 kg	1,500-3,200 kg	2,500-4,500 kg	3,000-6,500 kg
Working weight*	227 lb (103 kg)	320 lb (145 kg)	438 lb (199 kg)	598 lb (271 kg)
Impact frequency	800-2,900 bpm	900-2,500 bpm	1,022-2,300 bpm	700-2,000 bpm
Energy class	150 ft-lb (203 J)	300 ft-lb (407 J)	500 ft-lb (678 J)	700 ft-lb (950 J)
Acceptable oil flow	3-9 gpm	7-15 gpm	11-22 gpm	11-28 gpm
	12-35 lpm	25-55 lpm	40-85 lpm	40-105 lpm
Operating pressure	2,393 psi (165 bar)	2,393 psi (165 bar)	2,465 psi (170 bar)	2,465 psi (170 bar)
Sound power level Lwa**	121 dB(A)	119 dB(A)	119 dB(A)	123 dB(A)

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

** Sound power level Lwa as tested per Directive 2000/14/EC.

Applications Guide with Standard Tools



Chisel

Applications

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

C

Select when:

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



Moil

Applications

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

M

Select when:

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

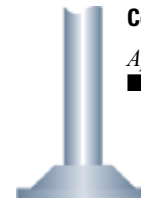


Spade (parallel or transverse)

Applications

- Frozen or compact ground
- Asphalt

S



Compacting Plate

Applications

- Ground compacting

CP

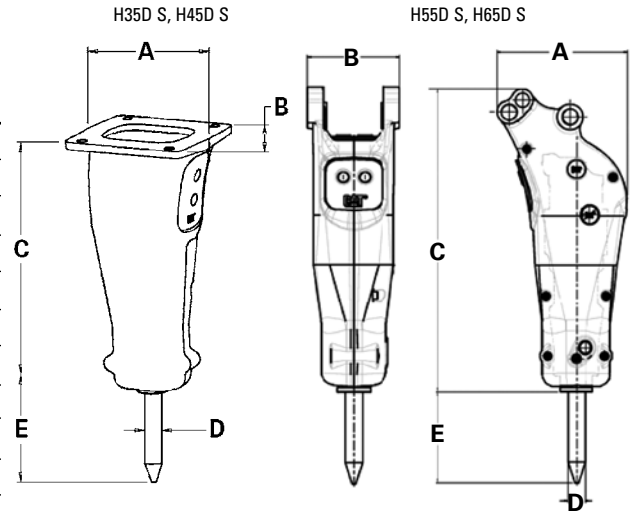
C - Chisel
M - Moil
S - Spade
CP - Compacting Plate

	H35D S	H45D S	H55D S	H65D S
Roadbuilding/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 Hammers

Dimensions

	H35D S	H45D S	H55D S	H65D S
A. Length	12.6 in	13.0 in	16.9 in	17.9 in
	320 mm	330 mm	429 mm	454 mm
B. Width	11.0 in	11.0 in	11.8 in	11.8 in
	280 mm	280 mm	300 mm	300 mm
C. Height	24.4 in	28.1 in	39.3 in	41.5 in
	621 mm	713 mm	997 mm	1055 mm
D. Tool Diameter	1.6 in	1.9 in	2.2 in	2.6 in
	40 mm	48 mm	56 mm	65 mm
E. Tool Working Length	8.7 in	9.2 in	11.8 in	13.0 in
	221 mm	233 mm	299 mm	330 mm



Productivity

	H35D S	H45D S	H55D S	H65D S
Non-Reinforced Concrete	8-16 yd ³	10-23 yd ³	18-30 yd ³	45-90 yd ³
	6-12 m ³	8-18 m ³	14-23 m ³	34-69 m ³

* Production rates listed are based on 8-hr shift. The above figures are for general estimation purpose only and must not be used to guarantee any production figure to the customer. The 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 worksite, haulage of the broken material, skills of the operator etc.

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

YEKN0350-2 (02-07)

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Replaces YEKN0350-1

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