



International Construction Equipment  
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## ICE® MODEL HS75 HYDRAULIC ROTARY HEAD



Two torque-speed combinations allow choice of high speed or high torque for maximum drilling production and profitability.

60 rpm or 57,000 ft-lbs (72200 Nm).

Simple single-motor and open-frame design for maximum reliability and ease of service and maintenance.



350HP (250 kW) or 440HP (328 kW) CAT Tier 3 (State IIIA) engine meets all EPA & EU emission regulations.

Angle or optional roller guides for 26" (660 mm) leads. Optional leads side-mount and H-Beam guides available.

Available Hex or API auger flighting connectors.

Available swivel for injecting air, water or grout.

High crowd and extraction forces to maximize drilling production.

Remote-control pendant with emergency stop engine speed control for fuel efficiency.

Environmentally friendly Chevron Clarity® non-toxic, biodegradable hydraulic oil.

Maximum efficiency and reliability ensured by our open-loop hydraulic system. Highest quality, reliable piston pumps and motor.

ICE® power units may be used for other ICE® equipment including vibratory hammers and hydraulic impact hammers.

Designed and manufactured in USA by ICE®, world leader in cost-effective foundation equipment since 1974.

## INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

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# ICE® MODEL HS75 HYDRAULIC ROTARY HEAD

WITH ICE® MODEL 350E OR 450E POWER UNITS



## Performance

	HS75 with 350E		HS75 with 450E		HS75 Maximum**	
<b>High-torque Setting</b>						
Torque	57,000 ft-lbs	72200 Nm	57,000 ft-lbs	72200 Nm	78,780 ft-lbs	106800 Nm
Speed*	25 rpm		34 rpm		60 rpm	
<b>High-speed Setting</b>						
Torque	28,500 ft-lbs	38600 Nm	28,500 ft-lbs	38600 Nm	39,390 ft-lbs	53400 Nm
Speed*	50 rpm		60 rpm		60 rpm	

\* Speeds are shown for free-hanging (no-load) units. Speed under actual drilling conditions may be 10% to 15% lower.

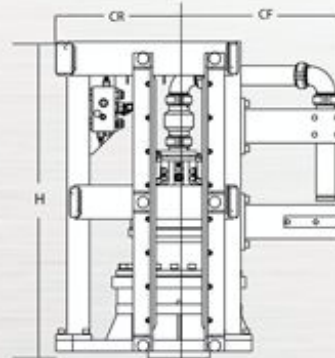
\*\* Maximum torque requires a power unit capable of 6,500 psi (450 bar).

\*\* Maximum speed requires a power unit capable of 119 gpm (450 lpm).

\*\* Recommended max power for the HS75 is 440 HP (328 kW).

## Capabilities, Weights & Dimensions

Crowd Force	80,000 lbs	36300 kg
Extraction Force	80,000 lbs	36300 kg
Optional Shaft ID	3 in	75 mm
Optional Swivel Joint ID	3 in	75 mm
Weight with Guide & Swivel	3,100 lbs	1405 kg
Weight with 100' (30m) Hoses	1,000 lbs	450 kg
Height (H)	57 in	1450 mm
Width with Leads	26 in	660 mm
Depth (CF + CR)	52 in	1312 mm
Center to Front (CF)	30 in	756 mm
Center to Rear (CR)	22 in	556 mm



## Power Unit Specifications

	Model 350E			Model 450E		
	CAT	C9	Tier 3	CAT	C13	Tier 3
Engine						
Power	350 HP		261 kW	440 HP		328 kW
Flow (zero load)	104 gpm		395 lpm	130 gpm		490 lpm
Max Pressure	4,700 psi		325 bar	4,700 psi		325 bar
Weight	11,300 lbs		5150 mm	13,500 lbs		6125 mm
Length	130 in		3300 mm	147 in		3730 mm
Height	87 in		2200 mm	91 in		2310 mm
Width	63 in		1600 mm	64 in		1615 mm

Constant improvement and engineering progress make it necessary that ICE®, Inc reserve the right to make specification changes without notice. Please consult ICE® for the latest available information.

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"Due to improvements to ICE manufactured products and the EPA mandated Tier III emission regulations, unit specifications are subject to change without notice. Please contact ICE engineering department to confirm possible changes."