

# ICE<sup>®</sup> 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 (261 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<sup>®</sup> non-toxic, biodegradable hydraulic oil.

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

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

Designed and manufactured in USA by ICE<sup>®</sup>, 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 350G OR 450G POWER UNITS

### Performance

	HS75 with 350G		HS75 with 450G		HS75 Maximum**	
High-torque Setting						
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	
High-speed Setting						
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.

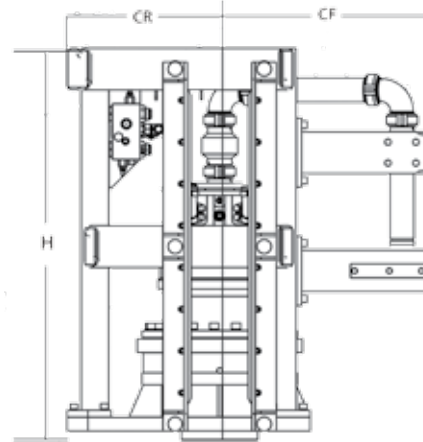
\*\* Maximum torque requires a power unit capable of 6,500 psi (450 bar).

\*\* 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 of 100' (30m) Hoses	1000 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 350G				Model 450G			
	CAT	C9	Tier 3		CAT	C13	Tier 3	
Engine								
Power	350	HP	261	kW	440	HP	328	kW
Flow (zero load)	102	gpm	385	lpm	140	gpm	525	lpm
Max Pressure	5,500	psi	380	bar	6,500	psi	450	bar
Weight	11,350	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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