

# ICE<sup>®</sup> MODEL HS50

## HYDRAULIC ROTARY HEAD



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

75 rpm or 45,000 ft-lbs (61000 Nm)

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



300HP (224 kW) or 350HP (261 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 HS50

## HYDRAULIC ROTARY HEAD



WITH ICE® MODEL 300M OR 350G POWER UNITS

Performance						
	HS50 with 300M		HS50 with 350G		HS50 Maximum**	
High-torque Setting						
Torque	45,000 ft-lbs	61000 Nm	45,000 ft-lbs	61000 Nm	52,650 ft-lbs	71400 Nm
Speed*	32 rpm		40 rpm		75 rpm	
High-speed Setting						
Torque	22,500 ft-lbs	30500 Nm	22,500 ft-lbs	30500 Nm	26,325 ft-lbs	35700 Nm
Speed*	65 rpm		75 rpm		75 rpm	

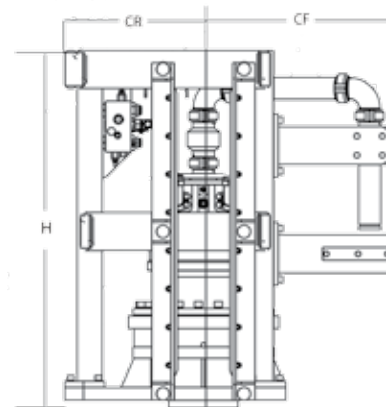
\* Speeds are shown for free-hanging (no-load) units. Speed under actual drilling conditions may be 10% to 15% lower.

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

\*\* Maximum speed requires a power unit capable of 106 gpm (395 lpm).

\*\* Recommended maximum power for the HS50 is 350 HP (261 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 ID	3	in	75 mm
Weight with Guide & Swivel	3,050	lbs	1385 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 300M			Model 350G		
Engine	CAT	C7	Tier 3	CAT	C9	Tier 3
Power	300	HP	250 kW	350	HP	261 kW
Flow (no load)	85	gpm	320 lpm	102	gpm	385 lpm
Max Pressure	5,500	psi	380 bar	5,500	psi	380 bar
Weight	10,500	lbs	4765 mm	11,350	lbs	5150 mm
Length	130	in	3300 mm	130	in	3300 mm
Height	87	in	2200 mm	87	in	2200 mm
Width	63	in	1600 mm	63	in	1600 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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