



International Construction Equipment
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ICE[®] MODEL HS27 HYDRAULIC ROTARY HEAD

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

120 rpm or 23,100 ft-lbs (31300 Nm)

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



225HP (168 kW) or 300HP (224 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 drivers/extractors 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 HS27 HYDRAULIC ROTARY HEAD

WITH ICE[®] MODEL 230M OR 300M POWER UNITS



Performance

	HS27 with 230M		HS27 with 300M		HS27 Maximum**	
High-torque Setting						
Torque	19,000 ft-lbs	25600 Nm	23,100 ft-lbs	31300 Nm	27,300 ft-lbs	37000 Nm
Speed*	50 rpm		60 rpm		100 rpm	
High-speed Setting						
Torque	9,500 ft-lbs	12800 Nm	11,550 ft-lbs	15700 Nm	13,650 ft-lbs	18500 Nm
Speed*	105 rpm		120 rpm		120 rpm	

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

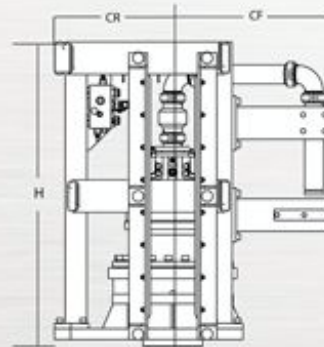
** Maximum torque requires a power unit capable of 6,500 psi (450 bar).

** Maximum speed requires a power unit capable of 137 gpm (520 lpm).

** Recommended max power for the HS27 is 300 HP (224 kW).

Capabilities, Weights & Dimensions

Crowd Force	56,200 lbs	25500 kg
Extraction Force	56,200 lbs	25500 kg
Optional Shaft ID	3 in	75 mm
Optional Swivel ID	3 in	75 mm
Weight with Guide & Swivel	2,430 lbs	1100 kg
Weight with 100' (30m) Hoses	830 lbs	375 kg
Height (H)	68 in	1730 mm
Width with Leads	26 in	660 mm
Depth (CF + CR)	43.5 in	1110 mm
Center to Front (CF)	25.5 in	650 mm
Center to Rear (CR)	18 in	460 mm



Power Unit Specifications

	Model 230M			Model 300M		
	CAT	C6.6	Tier 3	CAT	C7	Tier 3
Engine	CAT	C6.6	Tier 3	CAT	C7	Tier 3
Power	225 HP	168 kW		300 HP	224 kW	
Flow (no load)	73 gpm	275 lpm		85 gpm	320 lpm	
Max Pressure	4,500 psi	310 bar		5,500 psi	380 bar	
Weight	9,310 lbs	4225 mm		10,500 lbs	4765 mm	
Length	110 in	2800 mm		130 in	3300 mm	
Height	77 in	1960 mm		87 in	2200 mm	
Width	58 in	1475 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.

RH-HS27-Sept-2010

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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."