

ICE® MODEL HB-85

HYDRAULIC ROTARY HEAD

POWERED BY **MODEL 375T & 460T POWER UNITS**

TWO TORQUE-SPEED COMBINATIONS - HIGH SPEED OR HIGH TORQUE FOR
MAXIMUM DRILLING PRODUCTION AND PROFITABILITY
SIMPLE SINGLE-MOTOR AND OPEN-FRAME DESIGN FOR EASY MAINTENANCE
CHOICE OF THREE POWER UNITS FOR MAXIMUM PERFORMANCE

PERFORMANCE					
HB-85 WITH 375T			HB-85 WITH 460T		
HIGH-TORQUE SETTING					
TORQUE	84200 FT-LBS	114 100 NM	84200 FT-LBS	114 100 NM	
SPEED*	20 RPM	20 RPM	60 RPM	60 RPM	
HIGH-SPEED SETTING					
TORQUE	42100 FT-LBS	57 100 NM	42100 FT-LBS	57 100 NM	
SPEED*	40 RPM	40 RPM	60 RPM	60 RPM	
MAXIMUM POWER			670 HP	500 KW	

* SPEEDS ARE SHOWN FOR FREE-HANGING (NO-LOAD) UNITS. SPEED UNDER ACTUAL CONDITIONS MAY BE 10% TO 15% LOWER.

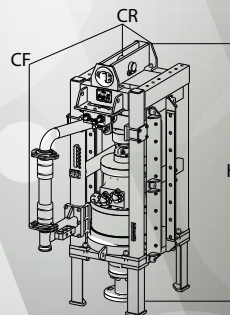
** MAXIMUM TORQUE REQUIRES A POWER UNIT CAPABLE OF 5,500 PSI (380 BAR).

** MAXIMUM SPEED REQUIRES A POWER UNIT CAPABLE OF 300 GPM (1135 LPM).

** MAX SPEED & MAX TORQUE CAN NOT RUN AT THE SAME TIME NOR EXCEEDS HP LIMIT - 670HP / 500KW.

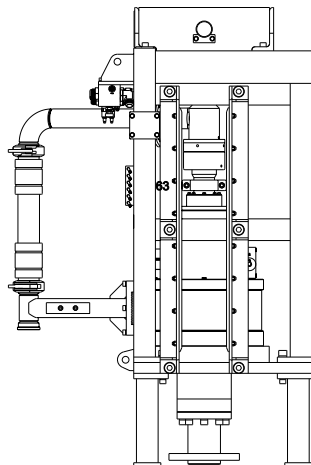
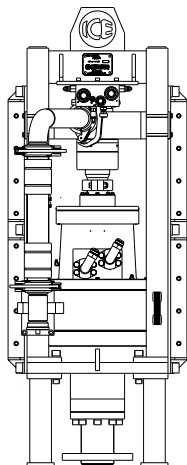
CAPABILITIES, WEIGHTS & DIMENSIONS

CROWD FORCE	132,600 LBS	590 KN
EXTRACTION FORCE	132,600 LBS	590 KN
OPTIONAL SHAFT ID	3 IN	75 MM
OPTIONAL SWIVEL JOINT ID	3 IN	75 MM
WEIGHT WITH GUIDE & SWIVEL	3,860 LBS	1750 KG
WEIGHT OF 100' (30M) HOSES	1,090 LBS	495 KG
HEIGHT (H)	68 IN	1715 MM
WIDTH FOR LEADS	26 IN	660 MM
DEPTH (CF + CR)	56 IN	1422 MM
CENTER TO FRONT (CF)	36 IN	920 MM
CENTER TO REAR (CR)	20 IN	505 MM



POWER UNIT SPECIFICATIONS

	MODEL 375T			MODEL 460T		
	CAT	C9.3B	TIER 4 / STAGEV	CAT	C9.3B	TIER 4 / STAGEV
ENGINE						
POWER	375	HP	280 kW	456	HP	340 kW
FLOW (ZERO LOAD)	95	GPM	360 LPM	125	GPM	480 LPM
MAX PRESSURE	5500	PSI	380 BAR	5500	PSI	380 BAR
WEIGHT	13,500	LBS	6125 KG	13500	LBS	6125 KG
LENGTH	143	IN	3635 MM	143	IN	3635 MM
HEIGHT	72	IN	1830 MM	72	IN	1830 MM
WIDTH	92	IN	2320 MM	92	IN	2320 MM



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.

HOLLOW OUTPUT SHAFT. 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.

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.