

### GP 1500 DIRECT CIRCULATION DRILLING RIG

Rated Capacity	:	Drill Pipe	Minimum Hole Dia.	Depth
		60 mm	145 mm	770 Mts.
		73 mm	152 mm	610 Mts.
		89 mm	203 mm	475 Mts.
Casing Load	:	18,200 Kgs. Using double sheave Travelling Block, Dead end at frame.		
Mast	:			
Construction	:	Tubular Steel, Electrically Welded.		
Height	:	13 Mts. above ground.		
Gross Load Capacity	:	31,820 Kgs.		
Hook Load Capacity	:	18,200 Kgs. With double sheave travelling block.		
Raising and Lowering	:	2 Hydraulic Cylinders.		
Crown Block	:	5 Sheave Plus 1 Catline Sheave.		
Drill Head	:			
Type	:	Integral with draw works and pull down Cy. Drive through torque tube and disc type clutch		
Opening	:	90 mm or 108 mm		
Retraction	:	525 mm		
Kelly	:	85.72 mm OR 104.77 mm Dia, 8.53 Mts. Long, 3 Fluted round kelly.		
Pull Down (Optional)	:			
Type	:	2 Hydraulic Cylinders.		
Stroke	:	762 mm.		
Force	:	706 Kgs. for each 7.03 Kg/cm2 hydraulic oil pressure.		
Draw Works	:	Barrel Dia. X Length	Single Line Pull Bare Drum	
Hoisting Drum	:	178 mm X 216 mm	6820 Kgs.	
Sand Reel	:	178 mm X 216 mm	6820 Kgs.	
Clutch	:	406 mm, 2 Plates mechanical type. (Air Clutch Optional)		
Brakes	:	470 mm X 100 mm Mechanical High Leverage type double equalised.		
Drive	:	By Chain.		
Transmission	:	Five speed forward, one speed reverse.		
Sub Drive Case	:	Suitable for mounting automotive gear box and to obtain hydraulic pump drive.		
Hydraulic	:	Pump fixed displacement vane type discharge & pressure 80 LPM @ 70.3 Kg/cm2		
Mud Pump	:	Standard	Optional	
Model	:	GPS – 150 LW	GPS - 200	
Stroke & Liner Size	:	150 mm X 150 mm	200 mm X 150 mm	
Disp. & Pressure	:	1039 LPM @ 15.16 Kg/cm2	1361 LPM @ 20.74 Kg/cm2	
Drive	:	"V" Belts / Chain.		
Clutch	:	Clow Clutch OR 203 mm, 3 Plates Mechanical.		
Leveling Jack	:	4 Mechanical Jack (Optional Hydraulic)		
Lighting	:	From truck battery or dynamo, optional separate lighting generator.		
Controls	:	Conveniently located.		
Prime Mover	:	Truck mounted version all components driven by same truck engine through PTO		
	:	Skid / Trailer mounted Version all components driven by 100 HP Diesel Engine.		
Mounting	:	4 X 2, 4 X 4, 6 X 4 Truck Chassis OR Full / Semi Trailer Mounted.		
Optional Available	:	Hydraulic Break Out, Welding Generator, Semi Auto Pull Down Chuck, DTH Attachment, wire line hoist and Higher Rotary Speed Up to 750 RPM for Core drilling purpose.		