

## Combination Drilling Rig

### COMBINATION RIG: The All Formation Rig



<b>CAPACITY</b>	6 to 10" borehole to a depth of 1200 feet (363 mtr) with DTH 6 to 10" borehole to a depth of 500 feet (150 mtr) with Mud Pump
<b>PRIME MOVER</b>	Truck mounted Rig with power from Truck Engine
<b>WORK METHOD</b>	Rotation with direct circulation, nucleus destruction with bleeding by air, water, foam or mud (Bentonite Mix). Drilling by DTH or by mud rotary using drag bit / rock roller bit.
<b>MAST</b>	Box type structure Max. Capacity: 39,600Lbs (18Tons) Height : 27 feet (8 mtr) Rod handling capacity: 20 feet (6.1 mtr)
<b>HYDRAULIC SYSTEM</b>	Max operating pressure 3200 PSI (225 kgs / cm <sup>2</sup> )
<b>HYDRAULIC COOLER</b>	<b>OIL</b> 95 GPM fin type cooler fan drive throw hydraulic motor
<b>PULL UP AND PULL DOWN</b>	By means of Hydraulic cylinder and wire rope Reeving Ratio 1:3 Max Pull up force 20,240 Ibs (9200 kgs) Max Pull up speed 254 ft / min (77 mtr / min) Max Pull down force 13,900 Ibs (6318 kgs) Max Pull down speed 400 ft / min (135 mtr / min)
<b>ROTARY HEAD</b>	Rotary head powered by one hydraulic motor with built in swivel arrangement for mud rotary drilling Max Torque 26400 inch-Ibs (303 kg-mtr) Max Speed 0 to 150 RPM
<b>JACKS</b>	4 Hydraulic heavy duty box type jacks
<b>WATER INJECTION PUMP</b>	Triplex reciprocating pump of 50 LPM 1000 PSI powered by hydraulic motor
<b>BREAK OUT WRENCH</b>	To open the drill joints hydraulic break out wrench of 350 mm stroke will be provided

<b>ROD CHANGER</b>	Manually operated rod changer to handle 3 rods with 1000 kgs capacity pull up winch to carry drill rods, casings and hammer tools
<b>OPTIONAL ATTACHMENTS</b>	Welding machine, Diesel fueling pump, Skid platform with deck engine.
<b>SUITABLE COMPRESSOR</b>	800 CFM / 200 PSI, 900 CFM / 200 PSI, 1000 CFM / 300 PSI
<b>SUITABLE MUD PUMP</b>	Model PRDM 125 for bore hole dia 6 to 10" up to 80mtr Model PRDM 150 for bore hole dia 6 to 10" up to 100mtr Model PRDM 200 for bore hole dia 6 to 10" up to 150mtr

## DOUBLE SUPER DRILLING RIG

( Simply the best Drilling Rig that money can buy-anywhere )



### Specifications

<b>CAPACITY</b>	6" to 8" dia bore holes to a depth of 1000 ft. (300 mtr).
<b>PRIME MOVER</b>	Truck mounted rig with power from truck engine.
<b>WORK METHOD</b>	Rotation with direct circulation, nucleus destruction with bleeding by water, air or foam. Drilling by drag bit (over burden) Roto percussion with DTH hammer
<b>MAST</b>	Box type structure Max. Capacity :33000 Ibs ( 15 tons) Height :27 ft.(8.1 mtr) Rod handling capacity :20 ft. (6.1 mtr)
<b>HYDRAULIC SYSTEM</b>	Max. operating pressure :3000 PSI (210 Kgs)
<b>HYDRAULIC COOLER</b>	<b>OIL</b> Fin type, Flow capacity 90 GPM Cooler fan drive through hydraulic motor.

<b>PULL UP AND PULL DOWN</b>	By hydraulic cylinder and wire rope, Reeving Ratio 1:3 Max. pull up force :17,380 Ibs (7900kgs) Max. pull up speed :244 ft./min (74mtr/min) Max. pull down force :11880 Ibs (5400kgs) Max. pull down speed :356 ft./min (108 mtr/min)
<b>ROTARY HEAD</b>	Rotary head is powered by one hydraulic motor Max.torque :26,400 in-Ibs (303 kg-mtrs.) Max. speed :0 to 130 rpm
<b>JACKS</b>	Four hydraulic jacks of 100 x 63 x 610 mm stroke.
<b>WATER INJECTION PUMP</b>	Triplex reciprocating pump of 50 lpm 1000 psi powered by hydraulic motor.
<b>BREAK OUT WRENCH</b>	To open the drill joints hydraulic break out wrench of 350 mm stroke will be provided.
<b>ROD CHANGER WITH AUXILLARY WINCH</b>	Manually operated single pivoted rod changer with 1000 kgs capacity pull up winch to carry drill pipes, castings and hammer tools.
<b>SUITABLE COMPRESSOR</b>	800 cfm, 200psi / 900cfm, 200psi/ 1000cfm,275psi / 1100cfm,300psi.