

# TECHNICAL SPECIFICATION

## MININGWELL MWT250 DRILL RIG



The MWT-250 vehicle-mounted water well drilling rig uses a new SINO HOWO truck chassis and is equipped with a 22 bar two-stage compression high-pressure air compressor. Its lifting force can reach 17 tons, and it can drill water wells with a maximum depth of 250 meters.

Note: The images provided here are for reference only and do not depict the exact specification outlined in this document.

<b>Application</b>	Drill Water Wells
<b>Capacity</b>	Hole Diameter : 140 - 325 mm (5½" - 13")
	Maximum Depth : 250 m @ 203 mm (8") diameter
<b>Drilling Method</b>	DTH and Rotary Drilling
<b>Prime Mover*</b>	Option 1: Use the PTO system and use the transfer gearbox to take the power from the truck engine (290hp/336hp/371hp) to drive the hydraulic system.
	Option 2: Use a 75kw diesel engine for the individual configuration of the drilling rig.
<b>Platform Structure</b>	Heavy I and C section welded steel structure covered with 5mm chequered plate
<b>Mast Assembly</b>	The compound drill boom is lifted by double oil cylinders, which increases the lifting force and reduces the transport size.
	Mast Overall Length : 8000 mm
	Rotary Head Travel : 6600mm
	Rod Handling :6m
<b>Mast Raising Cylinder</b>	Centralizer Opening : 14" (355mm)
	Mast is raised and lowered by double hydraulic cylinder
<b>Feed System</b>	1 x Double acting hydraulic cylinder with 1:3 rope reeving system
	Pull Up Force : 17Ton
	Pull Down Force : 10 - 110Ton
	Pull Up Speed : 25m/min Pull Down Speed : 30 m/min
<b>Rotary Head Assembly</b>	Self-developed fabricated steel body with spur gear reduction and oil bath lubrication, driven by dual hydraulic motors.
	Maximum Torque : 6000 Nm
	Rotation Speed : 66 - 135 rpm Fine controlled

<b>Hydraulics</b>	2 x Fixed displacement pump for Feed and Rotation 1 x Fixed displacement pump for Mud pump 3 x Fixed displacement pump for Hydraulic cooler, Auxiliary operations and Micro feed.
	Maximum System Pressure : 2900 psi (200 bar)
	Hydraulic Oil Cooler : 70 gpm
	Hydraulic Tank Capacity : 600 litres
<b>Control Panel</b>	Centralized control panel is at rear end of the equipment for convenient view of drill table provided with all necessary gauges, control system and emergency switch. Locking arrangement is provided for the safety of control panel.
<b>Levelling Jacks</b>	4 x Hydraulic levelling jacks are provided for quick setting and levelling with heavy duty telescopic guides. Locking check valves for safety with adequate capacity to withstand load.
<b>Breakout Wrench</b>	Hydraulic operated breakout wrench provided for fast breaking of rod joints
<b>Water / Foam Injection Pump (optional)</b>	Hydraulic operated water injection triplex pump with necessary fittings, pressure regulator, flow regular, check valve and suction filter are provided.
	Maximum Flow : 80 lpm
	Maximum Pressure : 40 kg/sq.cm
<b>Single Rod Changer</b>	Manually operated single rod changer to couple drill pipe to Rotary head
<b>Winch</b>	Hydraulic operated auxiliary winch to load drill pipe into rod changer with a lifting capacity of 5 ton.

<b>Welding Machine</b>	Hydraulic driven semi brushless welding alternator is provided for welding casing pipes
	Recommended Weld rod size : 2.5 mm to 5 mm only
	Weld current : 300 amps @ 60% duty cycle
	Optional single phase : 6.0 kVA @ 220v, 50 Hz
<b>Airline Lubricator</b>	A positive acting venturi type inline lubricator is provided for injecting oil to the down hole hammer.
	Tank capacity : 15 litres
	Working pressure : 350 psi
<b>Recommended Air Compressor*</b>	<p>MININGWELL/ATLAS COPCO/LIUTECH</p> <p>Air Compressor Capacity:</p> <p>1100CFM - 25 BAR - 309kW engine</p> <p>900CFM - 22BAR - 228kW engine</p>
<b>Mud Pump</b>	<p>Indeendent engine drive BW 250 Mud Pump</p> <p>Stroke : 4" (100 mm)</p> <p>Engine power : 15 kw</p> <p>Displacement (Max recommended) : 250 L/min</p> <p>Maximum working Pressure : 2.5Mpa</p>
<b>Additional Fitments</b>	Night Lights, Tools box, Hammer stand
<b>User Manual</b>	Manual for Operation, Maintenance and Spare Parts
<b>Truck Option*</b>	<p>SINO HOWO Truck: 6*4/6*6/8*4</p> <p>Dongfeng Truck: 6*4/6*6/8*4</p> <p>SHACMAN Truck: 6*4/6*6/8*4</p>



