

TECHNICAL SPECIFICATION

MININGWELL MWT350 DRILL RIG



The MWT-350 vehicle-mounted water well drilling rig uses a new SINO HOWO truck chassis and is equipped with a 25 bar two-stage compression high-pressure air compressor. Its lifting force can reach 22 tons, and it can drill water wells with a maximum depth of 350 meters.

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

Application	Drill Water Wells
Capacity	Hole Diameter : 140 - 325 mm (5½" - 13")
	Maximum Depth : 350 m @ 203 mm (8") diameter
Drilling Method	DTH and Rotary Drilling
Prime Mover*	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 92kw diesel engine for the individual configuration of the drilling rig.
Platform Structure	Heavy I and C section welded steel structure covered with 5mm chequered plate
Mast Assembly	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
Mast Raising Cylinder	Centralizer Opening : 14" (355mm)
	Mast is raised and lowered by double hydraulic cylinder
Feed System	1 x Double acting hydraulic cylinder with 1:3 rope reeving system
	Pull Up Force : 22Tom @ 200 bar
	Pull Down Force : 10 - 110Tom @ 200 bar
	Pull Up Speed : 18 m/min
Rotary Head Assembly	Pull Down Speed : 33 m/min
	Self-developed fabricated steel body with spur gear reduction and oil bath lubrication, driven by dual hydraulic motors.
	Maximum Torque : 8500 Nm
	Rotation Speed : 66 - 135 rpm Fine controlled

Hydraulics	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
Control Panel	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.
Levelling Jacks	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.
Breakout Wrench	Hydraulic operated breakout wrench provided for fast breaking of rod joints
Water / Foam Injection Pump	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
Single Rod Changer	Manually operated single rod changer to couple drill pipe to Rotary head
Winch	Hydraulic operated auxiliary winch to load drill pipe into rod changer with a lifting capacity of 1 ton.

Welding Machine	<p>Hydraulic driven semi brushless welding alternator is provided for welding casing pipes</p> <p>Recommended Weld rod size : 2.5 mm to 5 mm only</p> <p>Weld current : 300 amps @ 60% duty cycle</p> <p>Optional single phase : 6.0 kVA @ 220v, 50 Hz</p>
Airline Lubricator	<p>A positive acting venturi type inline lubricator is provided for injecting oil to the down hole hammer.</p> <p>Tank capacity : 15 litres</p> <p>Working pressure : 350 psi</p>
Recommended Air Compressor*	<p>MININGWELL/ATLAS COPCO/LIUTECH</p> <p>Air Compressor Capacity: 1100CFM - 25 BAR - 309kW engine 1300CFM - 30 BAR - 410kW engine</p>
Mud Pump	<p>Hydraulic operated BW 450 Mud Pump (6" x 6")</p> <p>Stroke : 6" (152 mm)</p> <p>Liner size diameter : 6" (152 mm)</p> <p>Displacement (Max recommended) : 450 L/min</p> <p>Maximum working Pressure : 3Mpa</p>
Additional Fitments	<p>Night Lights, Tools box, Hammer stand</p>
User Manual	<p>Manual for Operation, Maintenance and Spare Parts</p>
Truck Option*	<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>



