

TOP-100

WATER WELL DRILL RIG

**COMPACT DESIGN FOR
DIRECT AIR/MUD ROTARY
DOWN-THE-HOLE HAMMERS
FOR 50 - 100 M DEEP HOLE**



TOA-TONE BORING CO., LTD.



Trailer Mounted Type



Rotary Head



Head Shieve with Light

RATED CAPACITY

Drill pipe size	Recommended depth
3-1/2"(89mm)	80 – 100 m
2-7/8"(73mm)	100 – 120 m

ROTARY HEAD

Hydraulically driven power swivel with side swing system.

Rotation speed:	0 - 80 min ⁻¹
Max. torque:	0.98 kN-m
Max. load capacity:	49.0 kN

HOLD BACK/PULL DOWN

Hold back and pull down system is functioned by hydraulic motor with sprocket and roller chain.

Max. hold back:	24.5 kN
Max. pull down:	24.5 kN
Feed stroke length:	4.5 m

HOIST

Hydraulically driven single drum.

Max. single line pull:	24.5 kN
Line speed:	0-20 m/min
Spooling capacity:	40 m with 12.5 mm cable

MAST

Rectangular steel electrically welded mast, raised and lowered by single hydraulic cylinder.

Height:	Approx. 7.0 m from ground level
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Gross capacity:	49.0 kN
Hook load capacity:	24.5 kN

LEVELING JACKS

Two each screw type leveling jacks provided at front and rear installed under rig common base.

MUD PUMP

Triplex single acting piston pump	
Max. discharge volume:	397 lit/min.
Max. pressure:	0.98 MPa

BREAKOUT SYSTEM

Hydraulically actuated pipe breakout system is equipped with breakout tong for easy disconnection of tool joints.

CONTROLS

All controls and gauges required for drilling and rig operation are grouped at and fitted at driller's operation panel.

FOAM INJECTION PUMP

Hydraulically driven piston pump for DTH hammer drilling.

Max. discharge volume:	30 liter/min.
Max. pressure:	1.96 MPa

TRUCK

Type:	4x2 diesel truck
GWM:	Min. 8,000 kg

TRAILER

Type:	Single axle semi-trailer
Loading capacity:	Min. 4,000 kg

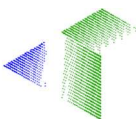
POWER SOURCE

Deck mount diesel power unit to drive hydraulic pumps, mud pump, etc.

Power requirement:	32.2 kW (approx.)
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LIGHTING

Floodlight arrangement for night operation fitted on the mast.



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