

TOP-300

WATER WELL DRILL RIG

with Short Mast Frame

DOWN-THE-HOLE HAMMERS
DIRECT AIR/MUD ROTARY
FOR 150 – 300 METER DEPTH

TOP-300 drill rig shown in the photo below
has optional short mast frame to handle
3 m length drill strings



TOA-TONE BORING CO., LTD.

TOP-300

Truck Mounted Water Well Rig with Short Mast Frame

Meets requirements of the most rugged drilling demands.



RATED CAPACITY

| | |
|-----------------|-------------------|
| Drill pipe size | Recommended depth |
| 3-1/2"(89mm) | 200 – 300 m |
| 4-3/4"(120mm) | 150 – 200 m |

ROTARY HEAD

Hydraulically driven heavy duty power swivel with retract-back system in the mast.

| | |
|---------------------|--|
| Rotation speed: | Low: 0 -60 min ⁻¹ High: 0 -120 min ⁻¹ |
| Max. torque: | 4.9 kN-m |
| Max. load capacity: | 98.1 kN (10,000 kgf) |

HOLD BACK/PULL DOWN

Hold back and pull down system are functioned by hydraulic cylinder with wire rope located at outside of the mast frame.

| | |
|----------------------------|---------------------|
| Max. hold back: | 68.6 kN (6,995 kgf) |
| Max. pull down: | 31.4 kN (3,201 kgf) |
| Feed stroke length: | 4.5 m |
| Hold back/pull down speed: | 0-5 / 0-9 m/min. |

DRAWWORKS

| | |
|------------------------|-----------------------|
| Max. single line pull: | 29.4 kN (3,000 kgf) |
| Spooling capacity: | 50 m with 14 mm cable |

SUPPORTING WINCH

| | |
|------------------------|----------------------|
| Max. single line pull: | 9.8 kN |
| Spooling capacity: | 30 m with 9 mm cable |

MAST

Electrically welded rigid structural section able to withstand loads up to 15 tons, raised and lowered by twin hydraulic cylinder, with enough space for retract back of rotary head.

| | |
|----------------------|---------------------------------------|
| Height after raised: | Approx. 9.6 m from ground level |
| Gross capacity: | 15 tons (147.09 kN) |
| Hook load capacity: | 10,000 kgf (98.1 kN) with triple line |

MUD PUMP

| | |
|--|------------|
| Duplex reciprocating piston pump, Model NP-700 | |
| Max. discharge volume: | 730 L/min. |
| Max. pressure: | 1.86MPa |

LEVELING JACKS

Individually controlled hydraulic jacks, each two at front and rear installed under rig common base, fully equipped with safety devices. All jacks are enclosed in housing to prevent piston rod from damage. Stroke: 800 mm

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 L/min. |
| Max. pressure: | 1.96 MPa |

TRUCK

| | |
|-------|---------------------|
| Type: | 6x4 diesel truck |
| GWM: | 6x4: Min. 18,000 kg |

POWER SOURCE

Truck engine PTO or independent diesel power unit to drive hydraulic pumps, mud pump, etc.

| | |
|--------------------|-------|
| Power requirement: | 67 kW |
|--------------------|-------|

LIGHTING

Floodlight arrangement for night operation fitted on the mast.

We reserve the right to change technical specifications without prior notice.

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