

# TOP-100

## WATER WELL DRILL RIG

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



**TOA-TONE BORING CO., LTD.**

**Tokyo, Japan**



# TOP-100 WATER WELL DRILL RIG



## RATED CAPACITY

120 m with 73 mm flush joint drill pipe.

## POWER SWIVEL

Type; Hydraulic motor driven power swivel  
Speed range; 0 - 80 rpm.  
Max. torque; 980 Nm (100 kgm)

## PULLDOWN

Type; Hydraulic motor driven reduction gear,  
combined with sprocket and roller chain  
Max. thrust/lift; 19.6 kN (2,000 kg)  
Feed stroke; 4.5 m.

## MAST

Type; Rectangular steel electrically welded mast  
raised and lowered by single hydraulic  
cylinder  
Load capacity; 39.2 kN (4,000 kg)  
Height; Approx. 7 m above ground

## HOIST

Type; Hydraulic motor driven single drum  
Single line pull; 19.6 kN (2,000 kg)  
Spooling capacity; 40 m with 12.5 mm wire rope

## LEVELLING JACK

Two each hydraulic levelling jacks, individually operated,  
are provided at front and rear of the truck

## BREAKOUT SYSTEM

The rig is equipped with hydraulically actuated pipe breakout  
system

## CONTROLS

All controls and gauges necessary for drilling operation are  
grouped and fitted at driller's control panel

## MUD PUMP

Model name; "NP-400"  
Type; Duplex double acting piston type  
Max. discharge volume; 395 L/min  
Max. pressure; 2.16 Mpa (22 kg/cm<sup>2</sup>)  
\* Centrifugal type pump is also available.

## INJECTION PUMP (option)

Max. discharge volume; 30 L/min  
Max. pressure; 1.06 Mpa (20 kg/cm<sup>2</sup>)

## POWER SUPPLY

Truck engine through PTO or deck mounted engine  
Minimum power required 36 kW (50 PS)

## TRUCK REQUIREMENT

GVW; Min. 9,000 kg  
Wheel base; Min. 3,300 mm



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