



DANDO

WATERTEC 40

Water Well Drilling Rig

A hugely successful heavy duty drilling rig designed for drilling large diameter wells to great depths in some of the world's most challenging environments.



CARRIER

Standard	Heavy duty commercial 6 x 6 or 8 x 8 truck
Other Options	Semi trailer or customer own support vehicle/structure

DECK ENGINE

Type	Caterpillar C15 570 HP diesel engine Other options available
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COMPRESSOR

Type	Doosan XHP 1070 Other options available
Air Displacement	1070 CFM
Discharge Pressure	24.1 bar (350psi)

MAST CAPACITY

Pullback	40000 kgf (88185 lbf)
Pulldown	14000 kgf (30865 lbf)
Hook Load (Max)	40000 kgf (88185 lbf)
Working Stroke	Main winch: 11800mm (464.6 inch) Rotary head: 9000mm (354.3 inch)

BREAKOUT SYSTEM

Type	Double acting hydraulic cylinder with adjustable wrench Other options available
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DRILL TABLE

Type	Box type drill table with removable drill rod and casing guides
Other options	Double breakout clamps available in various sizes

HYDRAULIC SYSTEM

Type	Hydraulic power circuit based on load sensing hydraulic pumps and proportional control valves
Other	Standard auxiliary hydraulic quick connect circuit for mud mixer or external pump

ROTARY HEAD

Rotary head tilt and side shift	
Rotation (Max)	140 rpm
Torque (Max)	15360 Nm (standard) 24000 Nm (high torque)
Other options available	

MAIN WINCH

Single Line Pull (1st Layer)	8000 kg (17637 lb)
Single Line Speed (1st Layer)	27 mpm (121 ft/min)
Cable Length/Drum Capacity (18mm)	83m (272 ft)

TOOL HANDLING WINCH

Single Line Pull (1st Layer)	2040 kg (4497.4 lb)
Single Line Speed (1st Layer)	31.5 mpm (103.3 ft/min)
Cable Length/Drum Capacity (10mm)	57m (187 ft)

MUD PUMP

Type	Hydraulically driven 7-1/2" x 8" duplex pump
Flow Rate (Max)	1590 lpm (420 US gpm)
Discharge Pressure (Max)	12.5 bar (182 psi)
Other options available	

FOAM PUMP

Type	Hydraulically driven duplex pump
Flow Rate (Max)	34 lpm (9 US gpm)
Discharge Pressure (Max)	38 bar (550 psi)

LEVELLING JACKS

Two front and two rear levelling jacks with individual locking valves

LIGHTING AND ELECTRICAL SYSTEM

Lighting	Control console lighting Mast lighting
Electrical System	24 V

SAFETY FEATURES

3 emergency stop buttons

Hydraulic system protection via relief valves and low level oil sensor

Option: Safety gate with interlock. Automatic decrease in head speed when opened

DRILLING DEPTHS*

3-1/2" EU (16kg/m)	2000 m (6562 ft)
4-1/2" (23kg/m)	1391 m (4564 ft)

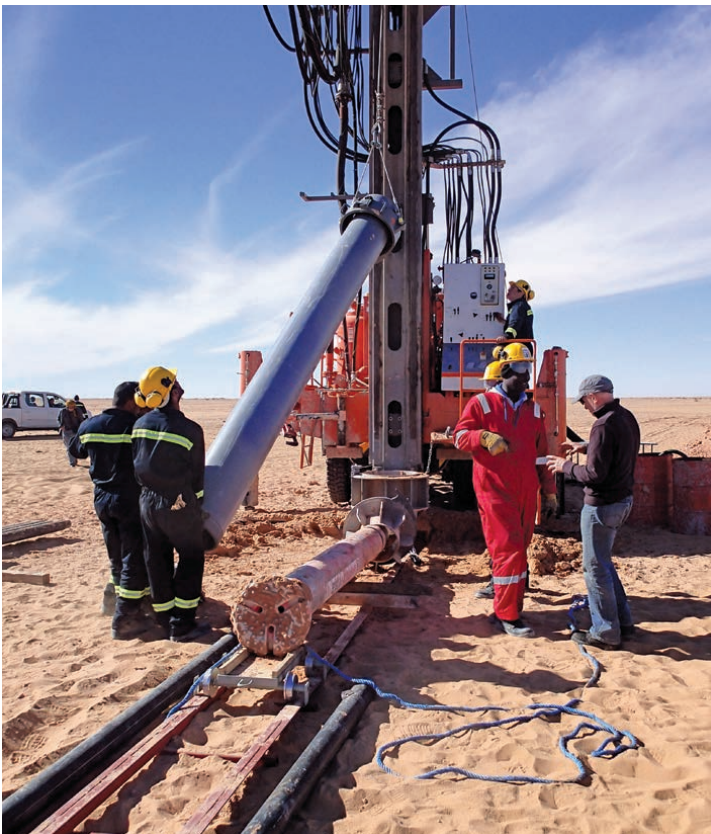
*Figures are theoretical and are calculated at 80% of total pullback capacity of the mast



Capable of mud rotary, air and flooded reverse drilling techniques to great depths.



High torque rotary head with hydraulic side shift and head tilt.



Features include main winch for tools and casing; auxiliary winch for tool handling; a selection of on-board air compressors and mud pumps; complete tooling packages and training available.



Mounted as standard on a 6 x 6 or 8 x 8 truck for quick mobilisation between sites of long distance.