

Next Generation Ultra-Fast Moving Land Rig PDQ™-T750

Rig Rating (HP):	1500 HP
Hook Load (lbs):	750,000
Top Drive System:	350 Ton AC
Drawworks:	Gear Driven AC
Hands-Free Pipe Handling System	
Mud System:	1000
BOP Stack:	13-5/8" 10,000 psi
Power transfer type:	AC—VFD—AC



PDQ™-T750: Telescopic Triple Land Rig Package

Features:

Skillfully engineered to move faster and rig-up quicker, utilizing the latest technology and industry-proven equipment to maximize performance, safety and reliability of your operations.

Fuel efficient with PLC-aligned fuel management systems; adaptable and capable of utilizing any combination of Diesel with Natural Gas, Liquefied Natural Gas, or directly by Highline power.

Off-line stand building ability to pick up and make up drill pipe, HW drill pipe, and Drill Collars into triple stands to specified torque requirements.

Automated pipe handling system able to deliver drill pipe and HW drill pipe and Drill Collars hands-free to mousehole, well center, or racking boards while drilling.

Minimal location size and build requirements with efficient rig layout and substructure footprint. Minimal location reclamation due to compact footprint and no reserve pit build requirements.

Efficient drilling fluid cleaning, solids control and mixing equipment, with ability to mix at high rate with shear capabilities utilizing Bulk Silos, Super Sacks, and pre-wetting.

Quality workmanship with industry-leading partnerships.

All PDQ™ models able to be tailored to Client specifications.

Rig Moves:

Rig Moving operations, rig-up, rig-down and transport operations completed without crane equipment.

Walkways, and cable trays designed to travel attached to primary structures and allow for quick rig-up/down.

Hydraulic self-pinning, dogging, and latching mechanisms with safety devices included for rapid rig-up and rig-down operations.

All hydraulic, electrical, pneumatic, and fuel lines arranged inside of purpose-built cable trays, and integrated into swing arms and grasshopper for quick connect and disconnect.

QHSE:

Hands-free operations.

Compact location size and Zero-Discharge cuttings system incorporated to minimize environmental impact.

Spill containment systems included for accidental spill and fluid containment on rig components and modules.



Land Rig: PDQ™-T750

VERTICAL TELESCOPING MAST

Mast Height (ft.):	148
Mast Clear Height (ft.):	142
Width at Base (ft.):	13.5
Hookload Capacity (lbs):	750,000 on 12 lines
Mast Raising Type:	Hydraulic Cylinders
Racking Capacity (Stds):	240 (5 in. DP) & 8 (8 in. DC)

SUBSTRUCTURE

Substructure Height (ft.):	26
Substructure Clear Height (ft.):	22.6
Substructure Base (ft.):	50.0 Long x 14.0 Wide
Drillfloor Area (ft.):	22.0 Long x 28.0 Wide
Substructure Raising Type:	Hydraulic Cylinders
Rotary / Casing Load (lbs.):	750,000
Setback Load (lbs.):	500,000
BOP Handling Capacity (lbs.):	64,000

DRAWWORKS

Type:	Gear-Driven AC
Horsepower Rating AC (HP):	1500 (continuous)
Max Working Speed (RPM):	2300 (continuous)
Transmission:	Single-Speed (Multi-Speed – OPTION)
Hoist Speed Max Load (FPM):	70 (135 FPM at 200,000 lbs)
Drill Line Diameter (in.):	1-3/8
Max Single Line Pull (lbs.):	87,900

TOP DRIVE

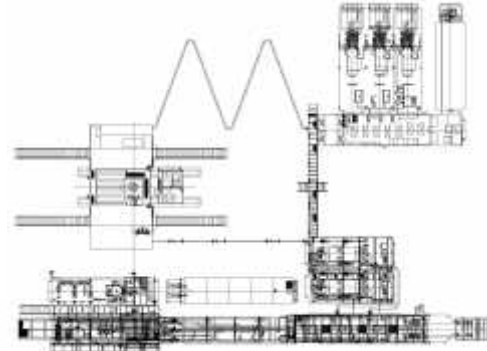
Type	350 Ton AC
Static Capacity (lbs.):	700,000
Horsepower Rating AC (HP):	600 (Continuous Duty)
Continuous Drilling Torque (ft-lb):	30,000
Make Up Torque (ft-lb):	45,000
Breakout Torque (ft-lb):	45,000
Max Operating Speed (RPM):	220
Quill ID (in):	3.0

ROTARY TABLE

Table Opening (in.):	27.5 (37.5 -OPTION)
Max. Static Load (lbs.):	750,000
Max. Speed (RPM):	300
Rotary Table Drive:	Hydraulic

IRON ROUGHNECK

Roughneck:	Type 80 Floorhand
Type:	Well-Center
Tubular Range (in.):	2-7/8 DP to 8-1/2 DC
Torque M/U & B/O (ft-lb):	65,000 & 80,000
Max Spinner Speed (RPM)	110



MUD SYSTEM

Triplex Pump Type:	Triplex, 1500 HP (2 ea)
AC Power Rating (HP):	1500 (1 ea. 1500 Cont. Duty)
Shale Shaker Type (GPM):	Dual Motion 3ea (1000), (M-Clean – OPTION)
D-Sand, D-Silt & D-Gasser:	3 x 10", 16 x 4", Vacuum
Standpipe Pressure (PSI):	7500
Total Mud System (bbl.):	1000

BOP EQUIPMENT

Annular (in. x PSI):	13-5/8 x 5,000
Double Ram Gate (in. x PSI):	13-5/8 x 10,000
Single Ram Gate (in. x PSI):	13-5/8 x 10,000
BOP Closing Unit (Gal / Station):	260 / 10
Choke & Kill Manifold (in. x PSI):	4-1/16 x 10,000
Hyd. Adj. Choke (in. x PSI):	4-1/16 x 10,000 (2ea w/ console)
Manual Adj. Choke (in. x PSI):	4-1/16 x 10,000
Mud Gas Separator (in.):	48 x 144 with 6 in. Vent Line

POWER SUPPLY SYSTEM

Engine Type:	Cummins QSK50 (3ea)
Horsepower Rating (HP @ RPM):	1480 at 1200
Generator Type (Frame/Hz):	KATO 6P6-3300
Generator Rating (KVA/PF/Volt):	1750 / 0.7 / 600
Therm Dynamics:	OPTION Model 4872 Split core
Emergency Engine/Genset:	Cummins DFEK (OPTION)
Diesel-Natural Gas Blending:	OPTION

DRILLING INSTRUMENTATION

Drillers Controls:	PLC based with Ergonomic Driller's Station / Touch Screen / Joy Stick / CCTV Monitor & Video Capture / PVT Monitoring
Transfer Type:	AC – VFD – AC
System:	Control / Display / Data Logger/ Power Management

OTHER EQUIPMENT

Deadline Anchor Type (in.):	E- 1-3/8
Primary HPU (GPM@PSI):	160 at 3000
Hyd. Catheads M/U & B/O (ft-lb):	65,000 & 80,000
Hyd. Drill Line Spooler (ft.):	5000 (1-3/8 in. wireline)
Air Supply System (CFM at PSI):	182 at 125 (screw type) 700 at 40 (radial type)