Moving of Power Module

- Install three generator units, SCR room, and air supply & air purifying unit on one dolly to move them integrally during relocation.
- Land dolly integrally by adjusting cylinders while the generators are operating.
- Four generator units compose one transportation module. The other transportation module includes air purifier, domestic oil tank, electric control system, top-drive control cabin, diesel engine driving HPU, etc.





Moving of Mud Pump Module

Two or three pumps can be transported integrally at high position and they may function at low positions.

Technical specifications

Model	ZJ50DBT	ZJ70DBT
Nominal drilling depth (4 1/2" drill pipe)	5,000m	7,000m
Maximum hook load	3,150kN	4,500kN
Drilling line diameter	Ф35mm	Ф38тт
Rated power inpu of drawworks	1,500hp	2,000hp
Total capacity of solid control system	400m³	400m³
Mast shape and effective height	"K" shaped open front; 48m	"K" shaped open front; 48m
Variable-frequency motor × rated capacity	7×600kW	6×600kW+3×800kW
Substructure type and drill floor height	Swing up; 9.15m	Swing up; 10.67m



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BOMCO Fast Moving Desert Rig



BOMCO's trailer-mounted fast moving desert rig applies to E&P wells with max. depth of 5,000m, temperature of 0°C-55°C and humidity ≤100%. Equipped with state-of-art technologies, the rig can be relocated within a distance of 10km in 48 hours.

Moving of Upright Mast & Substructure

Main equipment

- Substructure
- Drill floor equipment
- Dog house
- Mast
- Crown block
- Traveling block
- Top drive
- Drilling line
- Two BOPs
- Total moving weight: 900T



- For moving, the whole substructure is uplifted by 8 lift cylinders installed at the 4 corners of the substructure.
- Pins are used to install the dolly.
- The dolly is steerable with a maximum turning angle of 90 degree, enabling both longitudinal and latitudinal movement.
- The wheel axle assembly is of floating type, with a maximum 10 degree deflection angle when moving the mast and substructure.
- Applicable to areas with complex landforms for rig moving.
- Obliquity alarm while moving is equipped to ensure safety.
- Especially suitable for short-distance rig relocation and cluster well drilling.
- Enable short-distance relocation of a 2000HP drilling rig within 48 hours

Moving of Mast

Main equipment

- Mast & dolly assembly
- Traveling block support
- Monkey board assembly
- Tubing board assembly
- Traction unit
- Fifth wheel plate



- The mast can be moved together with top drive, traveling and hoisting system, and drilling line etc.
- The mast can be lifted and lowered together with top drive.
- Tractor is installed at the position of crown block by fifth wheel plate.
- The mast dolly is installed at the lower part of the mast.
- The entire weight is jointly carried by mast dolly and tractor.
- The mast dolly assembly can be adjusted up and down, to facilitate installation and connection of mast and substructure.



Moving of Substructure

- Two connectors for substructure moving unit are installed at the left and right seats of substructure respectively by pad eyes and pins.
- There are 4 rig-lifting cylinders installed in the two rear connectors as well as the left and right seats, respectively.
- There are 4 rig-lifting cylinders installed in the two rear connectors as well as the left and right seats, respectively.
- Same dolly assembly as used for moving of upright mast & substructure is used to move the substructure.
- Major components of the rig, including all equipment on rig floor, HPU and wireline spooler, can be relocated integrally.
- Labor for disassembling and re-assembling is saved.
- In case of limited road, rig components can be separated into two modules for moving, with one including mast, crown block, and traveling & hoisting system, and the other including substructure, drawworks, driving device of rotary table, and all auxiliary facilities on drill floor.



