





## **DC ELECTRIC DRILLING RIG**

Drawwoks, mud pump, rotary table driven by DC electrical system. DC Electric Drilling Rig suits to the land and offshore deep and super deep water operation.

## **TECHNICAL FEATURES**

- Adopting advanced AC-SCR-DC technology, smooth shift changes are available for drawworks, rotary table and mud pumps for optimum drilling performance.
- Both swing lift and sling-shot parallel-integrated substructures with 9m and 10.5 m floor height are optional. All parts on rig floor and mast are installed on ground and raised with drawworks power.
- Main brake of drawworks can be hydraulic disc brake or band brake. Auxiliary brake of drawworks is air-cooled or water-cooled electric magnetic eddy brake, or pneumatic disc brake.
- Rotary table is driven by drawworks power through compound drive or by an independent motor. In addition, emergency device is provided to drive rotary table via drawworks once in emergency for reliable drilling operations.
- A separate driller cabin is fitted. Operations for air, electric and hydraulic, drilling data and parameters are all in the cabin. Logic control, supervision and maintenance during complete drilling operations are available by PLC processes. The drilling data can be stored, printed and remote transmitted.
- · Integrated skid rail may be provided to meet requirements for cluster well drilling.
- Top drive drilling system can be equipped.





Drilling rig model ZJ40/2250D ZJ50/3150D ZJ70/4500   Nominal drilling depth, m 127mm(5") drill pipe 2000-3200 2800-4500 4000-600   Max. hook load, kN (t) 2500-4000 3500-5000 5000-700   Max. hook load, kN (t) 2250 (225) 3150 (315) 4500 (450   Hook speed, m/s 0-1.4 0-1.49 0-1.51   Line strung of hoisting system 10 12 12   Drill line diameter, mm 32 35 38   Max. pull of fast line, kN 280 350 487   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200	00
drilling depth, m 114mm(4 1/2") drill pipe 2500-4000 3500-5000 5000-700   Max. hook load, kN (t) 2250 (225) 3150 (315) 4500 (450)   Hook speed, m/s 0-1.4 0-1.49 0-1.51   Line strung of hoisting system 10 12 12   Drill line diameter, mm 32 35 38   Max. pull of fast line, kN 280 3500 487   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200)	00
Hook speed, m/s 0-1.4 0-1.49 0-1.51   Line strung of hoisting system 10 12 12   Drill line diameter, mm 32 35 38   Max. pull of fast line, kN 280 350 487   Model JC-40D JC-50D JC-70D   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200)	)
Line strung of hoisting system 10 12 12   Drill line diameter, mm 32 35 38   Max. pull of fast line, kN 280 350 487   Model JC-40D JC-50D JC-70D   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200)	)
Drill line diameter, mm 32 35 38   Max. pull of fast line, kN 280 350 487   Model JC-40D JC-50D JC-70D   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200)	
Max. pull of fast line, kN 280 350 487   Model JC-40D JC-50D JC-70D   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200)	
Model JC-40D JC-50D JC-70D   Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200)	
Drawworks Power rating, kW 735 (1000) 1100(1500) 1470(200	
$D_{10} = 0.000 = 0.0000 = 0.0000 = 0.0000 = 0.0000 = 0.00000 = 0.00000 = 0.00000 = 0.000000 = 0.00000000$	)0)
(HP) (HP) (HP)	1
Speed 4 4 4	
Main brake Hydraulic disc brake	
Auxiliary brake Eddy or pneumatic disk brake	
Crown block TC-225 TC-315	TC-450
Traveling block YC-225 YC-315	YC-450
Sheave OD of hoisting system, mm (in) 1270(50) 1270(50)	1540(60.6)
Hook DG-225 DG-315	DG-450
Swivel Model SL-450 SL-450	SL-450
Stem dia., mm 75 75	75
Table opening, mm (in) 698.5(27 1/2) 952.5(37 1/2)	952.5(37 1/2)
Rotary table Speed I or II, smooth change I or II, smooth change	I or II, smooth change
	dependent electr rive or compound
Type K K	K
Height, m 44 45	45
Mast Max. load, kN(lbs) 2250(500000) 3150(700000)	4500(1000000)
Racking board height,m 24.5, 25.5, 26.5	
Type sling-shot Swing lift or sling-shot	
SubstructureFloor height,m7.599 (10.5)	)
Clear height,m 6 7.6 7.6 (9)	
Mud pump Model × number F-1000 × 2 F-1600 × 2 F-1600 ×	: 3
Drive mode DC elecetric	
High pressure manifold $\Phi$ 103( bore dia. ) × 35MPa	
Electric drive mode AC-SCR-DC, one for one or one for two control	
The number and capacity of the main generator sets $2 \times 1910$ KVA $3 \times 1500$ KVA $4 \times 1500$ KVA	

Rua Califórnia, 890 -Brooklin | São Paulo | CEP: 04566-061

www.bomcobras.com.br

11 2186-8010 / 7010-2276 bomcobras@bomcobras.com.br Rua Califórnia, 890 -Brooklin | São Paulo | CEP: 04566-061

