

DRILLING RIG

Oil Drilling Rig can be used in exploration and exploitation of oil and gas well.

All products conform to API Spec. 4F, 7K, 8A, and acquired the certificate of authority to use the official API monogram.

Technical Performance

1. Electric-drive drilling rig: The drive mode of DC electric-drive drilling rig is AC-SCR-DC, while AC electric-drive drilling rig is AC-DC-AC; it is equipped with a complete diesel generator as the power source. Drawworks adopts hydraulic disc brake and the EATON auxiliary brake, etc. Drawworks, Mud Pump and Rotary Table can be driven by independent motors (Rotary table can be driven compound). K type mast, self-lifting or spin-lifting substructure, mast and substructure are raised integrally. The rig is controlled concentratively in Driller's control cabin and achieves automatic bit feeding function. The auxiliary brake of AC-VFD drilling rig is dynamic brake
2. Combined drive drilling rig: The rig's drive mode is that the diesel engines provide power and integrated chain compound box transmits power. Drawworks adopts sealed chain transmission with hydraulic disc brake, etc. Drawworks and Mud Pump are driven uniformly. Rotary Table is driven by AC frequency converter and equipped with VFD system; K type mast; Substructure adopts box on box type or spin-lifting type; Mast and substructure are installed at ground level and raised integrally.
3. Mechanical drive drilling rig: The rig's drive mode is that the diesel engines provide power and the belt compound device transmits power. Drawworks adopts sealed chain driving with band brake system. Drawworks, Rotary Table, Mud Pump are driven uniformly. A type or K type mast. Substructure adopts box on box type or spin-lifting type. Mast is installed at ground level and raised integrally.



- 2000m trailer rig

Major features:

The power, transmission, control, lifting systems and rotating system etc of main equipments are installed collectively on a special semi-trailer chassis. It is simple for installation and fast for moving. The reliable mechanical transmission is used for rotary table (RT) and drawworks (DW) to ensure the convenience of maintenance.



Main technical parameters:

ZJ20/1580T Trailer Rig

1	Nominal drilling depth	2000m (114mm DP)	10	Substructure Model	Swing up type
		1800 m (127mm DP)	11	Substructure height & clear height under RT beam	6m \ 4.3m
2	Max. hook load	1580 kN	12	Mast type and effective height	Mast type, bi-section matched installation , 36m
3	Wire rope system of traveling system	4×5 , parallel	13	Transmission mode	Hydraulic mechanical speed regulation +chain transmission
4	DW rated power	400kW (536hp)	14	Quantity/power of diesel engine	CAT C18/ 522k W
5	DW gear	5 forward +1 reverse	15	Substructure height and clear height under RT beam	Allison S6610H
6	Diameter of drilling line	φ 29mm	16	HP mud manifold	Φ 103mm (bore diameter) ×35MPa
7	RT opening diameter	520mm (20 1/2")	17	Effective mud volume of solid control system	120m ³
8	RT gear	5forward +1 reverse	18	Working pressure of hydraulic system	16MPa
9	Qty. and power of drilling pump	1×800hp	19	Qty. and power of backup motor	1×37kw