

INNOVATIVE HIGHLAND ENDURING HIGHLAND

XJ1800DBZ 型网电修井机

XJ1800DBZ GRID POWERED WORKOVER RIG

该机型的网电修井机是目前国内首套、最大级别型的自走式车载电驱钻修设备，配备钻修井折叠钻台、转盘、司钻房等设备。该机通过交流变频电机驱动绞车和转盘实施钻、修井作业，绞车由一台 800kW 的交流变频电机驱动，转盘由一台 400kW 的交流变频电机驱动来进行作业。整机采用模块化设计，具有整机移运安装方便、越野性能强、作业性能可靠、使用维护简单、作业成本低、污染零排放等特点，适用于井深 3000m 以内的侧钻井、定向井和直井的钻井作业，是油田绿色开采、清洁生产的经典机型。

该机型具有多项自主知识产权，钻修井折叠钻台、自动送钻修井机绞车等技术已获得国家专利，并通过顾心悱院士任主任的科技局专家组鉴定，科技成果达到国际先进水平。

XJ1800DBZ grid powered workover rig is the first and maximal self-propel vehicle in China, installed with foldable platform, rotary table, operator's cabin etc. This rig carries out drilling and workover service through the drawworks and the rotary table driven by 800kW and 400kW AC variable frequency motor respectively. Modular design is adopted, the rig features convenient transportation, easy installation, strong off-road performance, reliable operation, simple maintenance, low cost and zero pollution. It is suitable for sidetracking well, directional well and vertical Well application, well depth is no more than 3000m, a classical type of green exploitation and clean production.

The rig has a number of independent intellectual property rights, among which foldable platform, drawworks of automatic driller etc. have won national patents at the same time highly appraised as reaching international advanced level by the Science and Technology Bureau expert group headed by academician and director Gu xinyi.



产品特点

- 1、整机结构先进、配置合理、模块化、集装化程度较高，占地面积较小；
- 2、14×8加强型底盘，整机的通过性、越野性能良好；
- 3、交流变频电机驱动绞车和转盘，同比传统修井机节约动力费用超过50%；
- 4、绞车、转盘分别由两台独立电机驱动，简化了传动链；
- 5、独立交流变频自动送钻装置实现了自动恒压钻井，送钻可作应急装置；
- 6、司钻房配置视频监控、防爆喊话系统，可实时掌握井场作业情况；
- 7、司钻房控制与主机全部数字化数据传输，操作数字化、智能化、信息化；
- 8、采用以人为本实际理念，强化安全保护和检测措施，复合HSE规范要求。

Features

1. The rig is of advanced structure, reasonable configuration, high modularization and integration and small footprint;
2. 14 x 8 reinforced chassis for good transportation and excel cross-country capacity;
3. Drawworks and rotary table driven by AC variable frequency motor leads power saving over 50%, compared with traditional workover rig;
4. Drawworks and rotary table driven by two independent motors respectively results simplified transmission chain;
5. Automatic driller driven by independent AC variable frequency motor realizing automatic drilling with stable pressure, which can be used as backup in emergency;
6. Video monitoring and explosion-proof interphone system installed in cabin for operating situation of the well site receiving in real time;
7. Centralized control in cabin combines digital data transmission for the main units offer digital, intelligent and informational operation;
8. People-oriented concept, strengthened safety protection and testing measures are in conformance with requirements of HSE specification.

整机主要参数 Specifications

钻杆深度 m (5" 钻杆) Drilling Depth m(5"DP)	2500
钻杆深度 m(4 $\frac{1}{2}$ " 钻杆) Drilling Depth m(4 $\frac{1}{2}$ " DP)	3000
大修深度 m (2 $\frac{7}{8}$ " 外加厚油管) Nominal Service Depth m (2 $\frac{7}{8}$ " EUE Tubing)	8000
大钩额定钩载 kN Rated Hook Load,kN	1500
大钩最大钩载 kN Max.Hook Load,kN	1800
装机功率 kW Installed Power,kW	470kW (柴油机 Diesel Engine) +800kW (Drawworks Motor+400kW (转盘电机 Rotary Table Motor)
井架高度 (离地) m Working Height,m	38 (两节 Double Section)
游动系统 Travelling System	6 x 5
大绳直径 mm Dia.of Wine Line,mm	Φ32
大钩起升速度 m/s Hoisting Speed,m/s	0.2-1.2
钻台高度 (离地) m Drill Floor Height(Ground Clearance),m	6
转盘型号 Chassis	ZP275
底盘驱动形式 Drive Mode	14 x 8
整机移动状态外形尺寸 Overall Dimensions of Movement (长 x 宽 x 高) mm(L x W x H)mm	22330 x 3380 x 4450