

INNOVATIVE HIGHLAND ENDURING HIGHLAND

HXJ900DBZ 型网电修井机 步进式 + 自平衡井架

HXJ900DBZ GRID POWERED WORKOVER RIG SELF-PROPEL+SELF BALANCED MAST

该型设备是一种新型高效节能环保丛式井组修井设备。主要由液压步进平车、无绷绳自平衡井架、交流变频电机、电控系统、绞车总成、液压系统、井口工作平台、司钻房等部件组成。该设备结合油田及人工岛丛式井组井间距小、井口工作平台空间受限的作业工况，主机安装在全液压步进平车上，可实现前后、左右移动及转向，井架采用自平衡、无绷绳设计，双节桁架式垂直结构，修井移位时仅需要收回内架，无需放倒井架，可满足油、水井小修作业的需求。



截止目前，该机型具有多项自主知识产权，其中整机获得国家发明专利；并通过顾心恹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。

This is a new type of workover rig, featuring high-efficiency, energy-saving and emission reducing, designed for cluster well workover operation. It is mainly composed of hydraulic self-propel flat wagon, self-balanced mast without guy line, AC variable frequency motor, electric control system, drawworks assembly, hydraulic system, wellhead working platform, operator's cabin, etc. With regard to small well spacing in some oil field or artificial island cluster well group, where wellhead platform space is limited, main parts of the rig installed on full hydraulic self-propel flat wagon, to realize all round movement and steering; self-balanced mast without guy line adopts double section truss type vertical structure, reduced the labor intensity and time by just returning upper part of the mast without putting it down when workover shifts, which is ideal for oil or water well minor repair. Up to now, the rig has a number of independent intellectual property rights, among which the whole unit obtained national invention patent and reached international advanced level appraised by expert group of Science and Technology Bureau lead by academicians and director of Gu Xin yi.

产品特点

- 1、主刹车采用液压盘式刹车，刹车力矩大、制动稳定，刹车准确灵敏；
- 2、采用电机能耗制动和电机悬停，可精确控制游钩位置、零速度悬停；
- 3、操作平台满足作业时安装防喷器要求，满足作业安全性要求；
- 4、数字化控制技术，为修井作业创建了数字化、智能化、信息化平台；
- 5、修井移位时仅需要收回内架，无需放倒井架，大大节省了作业搬家时间；
- 6、配置管链式管杆输送机，实现管杆在管排、井口之间安全平稳移运。

Product Features

1. The main brake adopts hydraulic disc brake with high braking torque for stable, accurate and sensitive braking;
2. Combination of motor dynamic braking and motor suspension results in precise control of hook position and hook suspending at zero speed ;
3. The operating platform can install BOP during operation up to safety requirement ;
4. Digital control technology offers a digital, intelligent and information platform for workover operation;
5. Workover shift just returns upper part of the mast without putting it down, greatly saved time for mobilization;
6. Chain type pipe conveyor adopted to realize pipe safe and smooth movement between pipe rack and well head.

整机主要参数 Specifications

小修深度 m (3 $\frac{1}{2}$ 外加厚油管) Service Depth (3 $\frac{1}{2}$ EUE Tubing)	3000
大钩额定钩载 kN Rated Hook Load,kN	600
大钩最大钩载 kN Max.Hook Load,kN	900
绞车电机功率 kW Rated Power,Winch,kW	160
井架高度 (离地) m Mast Height(Ground Clearance),m	23(双节 Double Section)
最大抗风能力 Max. Max.Wind Load Capacity	设计风速 93 节 (47.8m/s 无钩载) Wind Load Rating 93 KTS (47.8m/s No Hook Load) 风暴自存 107 节 (55m/s 无钩载) Wind Load Rating 107 KTS(55m/s No Hook Load)
游动系统 Travelling System	4 × 3
大绳直径 mm Dia.,Wire Line,mm	Φ26
大钩起升速度 m/s Hoisting Speed,m/s	0-1.25
操作平台高度 (离地) m Height,Operating Platform(Ground Clearance),m	5
行走速度 m/min Walking Velocity,m/min	1
行走方式 Walking Mode	液压步进式 Hydraulic Self-propel
作业状态外形尺寸 (长 × 宽 × 高) mm Overall Dimensions of Movement (L × W × H),mm	11000 × 4000 × 24500