

科技领先 品质保证

Advanced Technology Qualification Assurance



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腾飞— 钻机行业的高新技术企业

Tefico — Hi-Tech of the drilling rig field

- 设计并研发各类型石油钻机和修井机
- 研制钻机绞车、传动系统、井架、底座、天车等部分
- 石油钻机、修井机及相关部件生产和销售
- 石油钻机和修井机的升级改造
- 油田工程技术服务（下套管、定向井和钻井服务等）
- 石油钻机和修井机相关的国际贸易
- Design, research and development of various drilling rigs and workover rig
- Develop and manufacture drawworks, transmission system, mast, substructure, crown block and so on. Production and sales of drilling rig, workover rig and related parts & spares
- Upgrading and rebuilding for drilling rig and workover rig
- Oilfield engineering technical services (casing running, directional drilling service and drilling service etc.)
- Relevant international trade for drilling rig and workover rig

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腾飞石油机械

——腾飞中的石油钻采设备制造商

陕西腾飞石油设备有限公司,位于陕西宝鸡,是一家专业从事石油钻机研发、设计、制造和成套的高新技术企业。公司成立于2000年5月25日,经过十多年的高速发展,目前公司下设石油机械制造公司、石油工程技术服务公司及香港国际商贸公司,拥有五个国内油田服务站和六个国外销售分公司,占地面积100000平方米,员工600多人,具有年产石油钻机、修井机100台套,产值规模达到10亿元的生产加工能力,是中国最大的石油钻机制造商之一。

公司的主要产品涵盖1000米-7000米(280hp-2000hp)机械驱动和复合驱动钻机,1500米-9000米(350hp-3000hp)直流电驱动和交流电驱动钻机,1000米-4000米(250hp-1000hp)车装钻机,20吨-225吨修井机,4000米-7000米(1000hp-2000hp)拖挂钻机以及相关的钻机附件,包括绞车、传动装置、井车链条箱、井架、底座等,产品已成功销往印度、印尼、伊朗、哈萨克斯坦、埃及、厄瓜多尔、巴基斯坦等国家地区,建有完善的售后服务体系,全方位快速准确地保障客户生产使用需求。

公司拥有一流的厂房及设备,可以满足机械加工、铆焊、打砂、喷漆、组装、试验等工艺要求。其中机加工车间、装配车间、铆焊车间及打砂油漆车间钢结构厂房面积2.6万平方米,配有各类型金切设备、剪板机、折弯机、滚板机、油压机、保氢焊机300多台,钻机装配场地2万多平方米,配有三台50吨龙门吊及最大负荷675吨的钻机电液试验台架,完全满足产品研发、生产加工及装配检测的需要。

公司十分注重新产品开发,为了满足特殊环境和气候对钻机的要求,公司先后研发制造了低温钻机、教学钻机和沙漠钻机。公司质量体系完备,先后取得了ISO9001:2008国际质量体系认证、OHSAS18001:2007职业健康安全管理体系和ISO14001:2004环境管理认证,并拥有美国石油学会API Spec 4F、API Spec 7K和API8C会标使用权。

依据市场走向和行业发展的,公司的主营业务将围绕装备制造、工程服务、国际贸易三大板块展开,同时加速产业升级,加速研发制造高端海洋钻机,加速开发非常规油气设备。

陕西腾飞石油机电新技术有限公司,竭诚欢迎世界各国用户和朋友们莅临指导和洽谈合作!

TEFICO Petroleum Machinery

——The High-Speed Developing Oilfield Equipment Manufacturer

TEFICO Petroleum located in Baoji city of China, is specializing in design, manufacture, assembly and commissioning for oil drilling rig and workover rig. It also provide oilfield engineering services including drilling, casing running, directional drilling service and so on at home and abroad. The company is established on May, 2000. After decades of development, it consists of petroleum machinery manufacturing company, petroleum engineering services company and Hong Kong international trading company now, having five domestic services stations and six oversea sales offices. The company covers an area of 100,000m² with more than 600 staffs, and has annual production capacity of 100 sets of drilling rigs and workover rigs. It is one of biggest oil rig manufacturer in China.

Its products is mainly composed of 280hp-2000hp mechanical drilling rig and compound drive drilling rig, 350hp-3000hp DC-SCR drilling rig and AC-VFD drilling rig, 250hp-1000hp truck-mounted drilling rig, 20ton-225ton workover rig, 1000hp-2000hp desert trailer-mounted drill rig and related components, which include mast, substructure, drawworks, crown block, rotary table, mud pump, hoisting system, transmission system, compound chain box etc. The products are exported to India, Indonesia, Iran, Kazakhstan, Egypt, Ecuador and so on at abroad. The company has built an excellent after-sales service system to provide a full range of fast and timely equipment maintenance and repair, spare parts supply and staff training service.

The company has first-class facilities and equipment to meets the technology requirements of machining, rivet welding, sandblasting, painting, assembling and testing, of which the area of workshop of machining, assembling, rivet welding, sandblasting and painting is around 26,000m² equipped with more than 300 sets production and test equipment including various of metal cutting equipment, shearing machines, bending machines, plate rolling machines, hydraulic machines and welding machines, and the area of rig assembly site is more than 20,000m², equipped with 3 sets 50tons gantry crane and 1 set 675tons hydraulic test device of rig loading, to meet the demands of research and development, production and manufacture, assembly and inspection.

The company pays great attention to develop new product. In order to meet requirement of special environment and temperature for rig, the company have developed and produced cryogenic drilling rig, training drilling rig and desert fast moving drilling rig. The company has perfect quality management system. It passed the international quality system authentication of ISO9001:2008, Occupational Health and Safety Management authentication of OHSAS18001:2007, Environmental Management System authentication of ISO14001:2004 and obtain the use right of API Spec 4F, API Spec 7K and API8C Monogram.

As per market trend and industrial development, the company will be devoted to develop equipment manufacture, engineer service and international trade. At the same time, accelerate industrial upgrading, accelerate offshore drilling rig research and manufacture, and accelerate unconventional oil and equipment development.

We, Shaanxi TEFICO Petroleum Mechanical and Eclectic New Technology Co., Ltd. warmly welcome the clients and friends of the world to visit us for business negotiation and cooperation.





Certificates 资质证书

通过了ISO9001: 2008版和API SPEC Q1: 2008质量体系认证, 取得了API Spec 4F, 7K, 8C会标使用权。
Tefico has passed the ISO9001:2008 and API SPEC Q1, and has the right to use API monogram
4F, 7K, 8C.

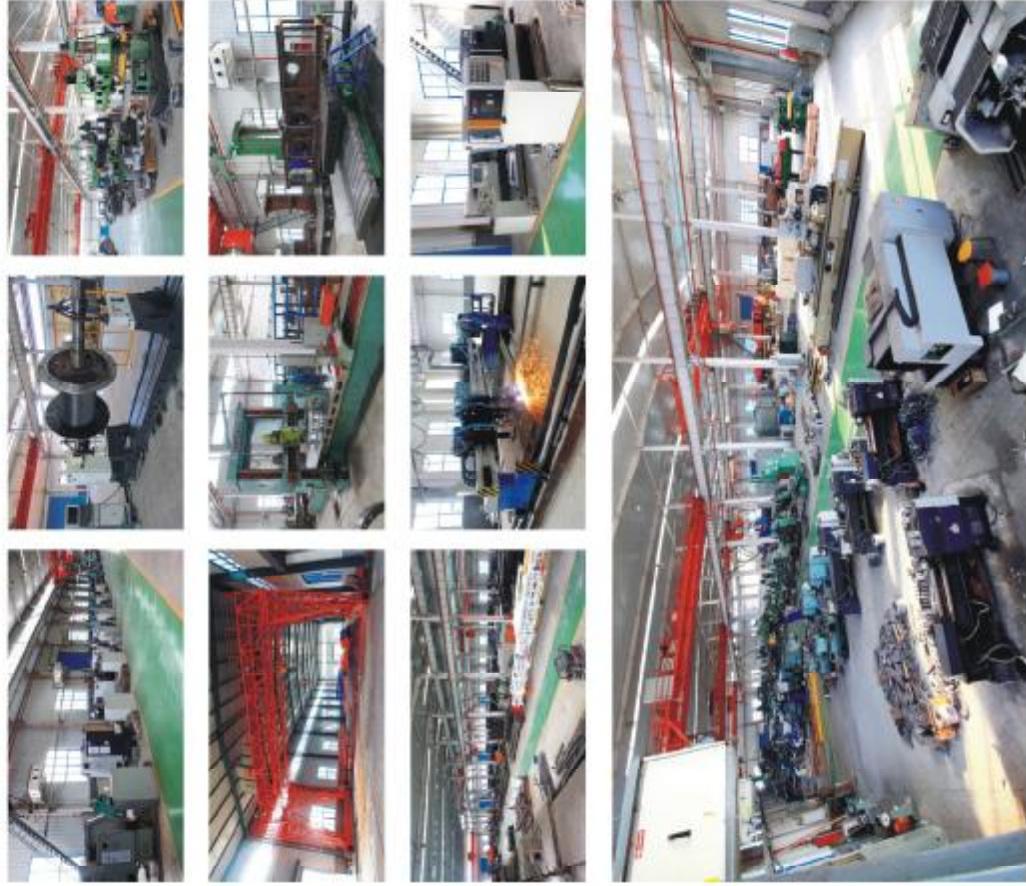


Company View 厂区预览





Workshop and Production Facilities 车间和生产设备



陆上钻井装备 Onshore Drilling and Workover Rig

陕西腾飞石油机电新技术有限责任公司，从2000年开始从事生产石油钻机及修井机，到2014年为止，已经生产相关产品225套。经过十多年的不断积累、研发和改进，公司主营产品已经形成7大系列，50多个品种。包括机械钻机、混合动力钻机、直流电驱动钻机、交流电驱动钻机、车载钻机、修井机、及拖挂钻机，能够满足陆地、沙漠、沙漠、极地等各种地貌，并可以根据客户要求，定制各种钻机和修井机，并提供钻机和修井机的更新改造，以满足油田回钻修井服务的需求。

Shaanxi Tefico Petroleum Mechanical and Electric New Technology Co., Ltd started producing complete sets of drilling rigs and workover rigs since 2000. It has already produced 225 sets of related product till 2014. After ten years of accumulation, development and improvement, the main products of our company have formed 7 major series, more than 50 varieties, including mechanical drilling rig, compound drilling rig, DC-SCR electrical drilling rig, AC electrical drilling rig, truck-mounted drilling rig, workover rig, and trailer rig. It can fit in the land, sands, desert and various polar geomorphology, and we can tailor all kinds of drilling rig and workover rig according to customer's requirement and provide replacement and technical transformation for drilling and workover rig, to meet the various requirement for oilfield drilling and repairing service.



公司不断完善质量管理体系，加强内部质量管理，建立健全内部质量管理体系，同时严格控制原材料采购，对生产过程中的每道工序，配备专业的质量检验人员进行检验，对钻机及各个部件，完全按试验大纲要求进行各项实验，确保产品出厂合格率达100%。公司同时建有完善的售后服务体系，公司在国内外各大油田及海外主要销售市场均设有售后服务点，向客户提供完善的售后服务，保证客户信息反馈处理率100%，包括在开钻后前两个月，确保两名工程师在钻井现场，在质保期后10个月，配备专业的技术服务小组，24小时响应客户要求，并为客户提供所需服务。

The company constantly improves the quality management system, strengthen internal quality management, establish a sound internal quality control procedure, and meanwhile strictly control procurement of raw materials. For every procedure in the process of production, professional quality inspection personnel can check drilling rig and parts fully in accordance with the requirements of the test outline, to ensure that the product qualified rate at 100%. Our company has also a complete after-sale service system, the company has set up after-sale service network station in the domestic big oilfield and mainly overseas sales market, provide complete after-sale service, to ensure that customer feedback handling rate at 100%, including the first two months before drilling, ensure that the two engineers present at the drilling site; 10 months after the warranty period, provide professional technical services team, 24 hours in response to customer requirements, and provide tailored services to the customers.

DC-SCR Electrical Drilling Rig 直流电驱动钻机

结构特点:

- 采用先进的AC-SCR-DC电传动技术, 实现绞车、转盘和泥泵的光速调速, 获得良好的钻井性能;
- 平行四边型整体起升式底座, 有铰弓式(双升式)和旋升式两种形式, 可实现台面设备和井架低位安装, 依靠绞车动力整体起升到位;
- 绞车主刹车采用液压盘式刹车, 也可选用带式刹车。绞车辅助刹车配备风冷式或水冷式电液调速刹车, 根据需要提供辅助刹车也可气动盘式刹车;
- 转盘采用从绞车取力的离合驱动或由一台电机提供动力的独立驱动两种形式;
- 配备独立的可控硅调速。气、电、液控制、钻井参数及仪表显示统一布局, 通过PLC实现钻井全过程的逻辑控制、监控和保护, 并可实现数据的储存、打印和远程传输。司钻在房内即可完成全部操作, 改善了司钻的工作环境, 减轻了劳动强度;
- 可配顶部驱动钻井装置;



TECHNICAL FEATURES

- Adopting advanced AC-SCR-DC technology to realize stepless speed regulation of drawworks, rotary table and mud pump for optimum drilling performance.
- Both swing lift and sling-shot parallel-integrated substructures are optional. All parts on rig floor and mast can be installed on ground and raised with drawworks power.
- Main brake of drawworks can be hydraulic disc brake or band brake. Auxiliary brake of drawworks can be eddy current brake which is water cooling or air cooling brake as the client's requirements.
- Rotary table is driven by drawworks power through compound drive or by an independent motor.
- Independent driller cabin is on the user's requirements. To realize intelligent control of pneumatic, electric, hydraulic and instrument system so that driller completes the total operations in the cabin for better working conditions and lessening working strength. Logic control, supervision and maintenance during complete drilling operations are available by PLC process. The drilling data can be stored printed and remote transmitted.
- Top drive drilling system can be equipped.

技术参数 TECHNICAL PARAMETER

钻机型号 Drilling rig model	ZJ40/2250D	ZJ80/3150D	ZJ70/4500D	ZJ80/5850D	ZJ90/6750D
名义钻深范围 Nominal drilling depth, m	2000-3200	2800-4500	4000-6000	6000-8000	6000-9000
1"套管12" 套管钻深	2500-4000	3500-5000	5000-7000		
最大钩载 Max. hook load, kN	2250	3150	4500	5850	6750
钩速 Hook speed, m/s	0-1.44	0-1.49	0-1.51	0-1.54	0-1.78
滚筒直径 Dia. of driving system	10	12	12	14	14
钻杆伸出长度 Drill line clearance, mm	32	36	38	38	45
最大钩载力 Max. pull of hook line, tN	280	350	487	610	720
型号 Model	JC40D	JC50D	JC70D	JC80D	JC90D
功率 Power, kW	735	1100	1470	1800	2400
转速 Speed	4	4	4	4	4
主刹车 Main brake	液压盘式刹车 Hydraulic disc brake				
辅助刹车 Auxiliary brake	电液调速刹车或气冷盘式刹车 Eddy or pneumatic air-cooled disk brake				
天车 Crown block	TC225	TC315	TC450	TC585	TC675
游车 Travelling block	YC225	YC315	YC450	YC585	YC675
游车材料 Sprocket/chain/guide, mm	1120	1270	1524	1524	1524
大钩 Hook	DG225	DG315	DG450	DG585	DG675
水龙头 Swivel	SL225	SL450	SL450	SL585	SL675
芯轴直径 Standa. mm	75	75	75	75	102
芯轴长度 Standa. mm	698.5	862.5	962.5	962.5	862.5
转速 Speed	随用, 无级调速 1 or 1/1, smooth change				
驱动方式 Drive mode	独立电液调速驱动 Independent electric drive or compound drive 液压电液驱动 Compound drive				
型式 Type	K	K	K	K	K
高度 Height, m	43	45	45	48	48
最大钩载 Max. Load, tN	2250	3150	4500	5850	6750
二倍钻柱长度 2x Drill pipe length, m	24.5, 25.5, 26.5				
底座 Subbase	旋升式或旋升式 Swing lift or sling-shot 旋升式 Sling-shot				
钻台高度 Floor height, m	7.5	9	9	10.5	12
净空高度 Clear height, m	6.3	7.6	7.6	9	10.3
型号/排量 Model number	F1300x2	F1600x2	F1600x3	F1600x3	F1600HLx3
驱动方式 Drive mode	直流电液驱动 DC electroic				
最高工作压力 High pressure manifold	Φ103(孔径 bore dia.) x 35MPa				
传动方式 Electric drive mode	AC-SCR-DC, 一对一或一对二控制 one for one or one for two control				

AC-VFD Electrical Drilling Rig 交流变频电驱动钻机

结构特点:

- 采用先进的全数字交流变频技术, 通过PLC、触媒屏和气和电、液及钻井仪表参数的一体化设计, 实现钻机智能化控制;
- 钻机采用变频电动机驱动, 完全实现了钻机、转盘和泥浆泵的全程无级调速;
- 钻机绞车方钻杆传动轴转速, 二档无级调速, 结构简单, 性能可靠。刹车采用液压盘式刹车和电机能耗制动相结合的方式;
- 绞车采用主电机或独立电机实现自动送钻。并对钻下钻工况和钻井工况进行实时监控;
- 采用智能启动装置、ET200或ASi模块实现对MCC系统的保护和监控;
- 智能化游车位置控制, 具有防止“上碰下碰”的功能;
- 具有气、液失压、电机故障、转盘挂阻和液压限制等保护功能;
- 配备独立的电控控制房。气、电、液控制、钻井参数及仪表监测统一布局, 通过PLC实现钻并全过程的逻辑控制、监控和保护, 并可实现数据的储存、打印和远程控制。可在钻并内即可完成全部操作, 改善了井站的工作环境, 减轻了劳动强度;
- 可配顶驱驱动装置;



TECHNICAL FESTURES

- Adopting advanced fully digital AC variable frequency technology, the intelligent driller control is realized through the integrated design of PLC, touch screen, pneumatic, electric, hydraulic and drilling instrument.
- Drawworks, rotary table, and mud pump are driven by wide frequency, high power motor. Thereby the stepless speed regulation is reached.
- Drawworks is single shaft gear drive drawworks with 2 gear, compact size, light weight, little vibration, low noise, high efficiency and long service life and adopt the compound mode with hydraulic disc brake and motor dynamic brake.
- Automatic drilling is obtained by drawworks main motors or auxiliary motor. At the same time, the trip and drill working condition are monitored in real time.
- Adopting intelligent soft starter, ET200 or ASI module to protect and supervise the MCC system.
- Intelligent position control of traveling block is supplied to prevent top and low collision.
- Protective functions including loss pressure of pneumatic or hydraulic, the fault of electrical control system or motor, the limit of rotary table torque or pump pressure is provided.
- Independent driller cabin is on the user's requirements. To realize intelligent control of pneumatic, electric, hydraulic and instrument system so that driller completes the total operations in the cabin for better working conditions and lessening working strength. Logic control, supervision and maintenance during complete drilling operations are available by PLC process. The drilling data can be stored printed and remote transmitted.
- Top drive drilling system could be equipped.

技术参数 TECHNICAL PARAMETER

钻机型号 Drilling rig model	ZJ115/9000DB	ZJ30/1700DB	ZJ40/2250DB	ZJ50/3150DB	ZJ70/4500DB	ZJ85/5550DB	ZJ90/7500DB	ZJ130/9000DB
最大钻深 Max. Depth, m	700-1400	1500-2500	2000-3200	2800-4500	4000-6000	6000-8000	9000	12000
最大钩载 Max. hook load, kN	800-1500	1600-3000	2500-4000	3600-5000	4800-7000			
最大转速 Max. hook load, kN	800	1600	2200	3150	4500	5550	6750	9000
滚筒直径 Diameter of hoisting system	8	10	10	12	12	14	14	14
钻机重量 Drilling rig weight, ton	26	29	32	35	36	38	45	48
最大提升力 Max. pull of hoist line, kN	130	210	280	350	487	510	643	851
型号 Model	JC100B	JC300B	JC400B	JC500B	JC700B	JC800B	JC900B	JC1200B
功率 Power	300	600	800	1100	1470	2000	4000HP	6000 Hp
调速 Speed	电液 电 无级调速 Gear or 11 stepless speed regulation 电 无级调速 电 无级调速 电 无级调速 电 无级调速							
刹车型式 Brake mode	液压盘刹+摩擦制动 Hydraulic disc brake + Regenerative brake							
天车 Crown block	TC90	TC170	TC225	TC315	TC450	TC585	TC675	TC900
游车 Travelling block	YB135	YB170	YB225	YB315	YB450	YB585	YB675	YB900
游动系统滑轮外径尺寸 Diameter of traveling system, mm (φ)	660	1005	1120	1270	1524	1524	1524	1828
大钩 Hook	YB135	YB170/YB170	DG225/DG225	DG315	DG450	DG585	DG675	DG900
水龙头 Swivel	XSL135	XSL170	SL225	SL450	SL450	SL585	SL675	SL975
井架高度 Height, m	64	64	75	75	75	102	102	75
井架最大载荷 Max. Load, kN	44.5	520.7	698.5	952.5	952.5	952.5	952.5	1257.3
转盘 Rotary table	电 液 无级调速 or 11 smooth change 电 液 无级调速 电 液 无级调速 电 液 无级调速							
驱动方式 Drive mode	独立电液驱动 Independent Drive 独立电液驱动 Independent Drive 独立电液驱动 Independent Drive 独立电液驱动 Independent Drive							
型式 Type	K 变频驱动 K 变频驱动 K 变频驱动 K 变频驱动 K 变频驱动 K 变频驱动 K 变频驱动 K 变频驱动							
井架高度 Height, m	31 减 30	33 减 41	44	45	45	48	48	52
最大提升力 Max. Load, kN	900	1700	2250	3150	4500	5550	6750	9000
型式 Type	直立式 Direct Drive 直立式 Direct Drive 直立式 Direct Drive 直立式 Direct Drive 直立式 Direct Drive 直立式 Direct Drive 直立式 Direct Drive 直立式 Direct Drive							
滚筒直径 Diameter of hoisting system	3.8	4.5	5	6	7.5	9	10.5	10.5
滚筒重量 Hoisting system weight, ton	2.6	3.3	3.8	4.8	6	7.6	9	10
额定功率 Rated power, kW	F800 x 1	F1300 x 1	F1500 x 2	F1600 x 2	F1600 x 3	F1600 x 3	F1600HL x 3	F2200HL x 3
驱动方式 Drive mode	电液驱动 Electric drive 电液驱动 Electric drive 电液驱动 Electric drive 电液驱动 Electric drive 电液驱动 Electric drive 电液驱动 Electric drive 电液驱动 Electric drive							
电液方式 Electric control mode	AC-DC-AC							

Mechanical Drilling Rig 机械驱动钻机

结构特点:

- 采用“柴油+液力偶合+变速箱+链条+车箱”、“柴油+减速机+V带+车”等驱动方式，满足不同钻井工况的需要。动力分配合理，功率利用率高。
- 绞车有内变速箱和外变速箱两种形式。3000m以上钻杆绞车采用同轴离合器气动远程控制，操作方便。主刹车采用带式刹车或液力盘式刹车，辅助刹车采用电磁涡流刹车。
- 4000m以上级别的钻机，主机采用“前高低”的布置方式，动力和传动系统低位安装，通过锥齿轮和万向轴将动力传递到钻台上驱动转盘和钻头旋转。
- 模块化设计，技术先进，拆装方便。
- 配有捞砂装置，机械摩擦离合器和转盘驱动装置。
- 可配独立可控制油房。气、电、液控制及钻井仪表统一布局，可在井内即可完成全部操作。
- 可配独立的单机自动注钻系统。
- 可配顶部驱动钻井装置。
- 满足丛式钻井时井位间隔转移的要求。



TECHNICAL FEATURES

- Various drive modes including "diesel engine + hydraulic coupling transmission + chain compound" "diesel engine + reducing gear box + narrow V belt compound" are available for option. The power is reasonable distributed for higher efficiency.
- Either inner or outer speed change is optional for drawworks. Speed change is easy and fast by remote pneumatic control. Main brake is either band brake or hydraulic disc brake. Electric magnetic eddy current brake for auxiliary brake.
- For drilling rig over 4000m in drilling depth, rig floor is in two levels which is "front high rear lower". Power and transmission system are installed on the rear low level and the rig power is transmitted to drive rotary table and catwalks located on drill floor through bevel gear reducer and universal shaft.
- Module designed, advanced technology, easy for assembly and disassembly.
- With bailing drum, mechanical friction cathead and rotary table drive device.
- Independent driller cabin is on the user's requirements. To realize intelligent control of pneumatic, electric, hydraulic and instrument system so that driller completes the total operation in the cabin.
- Independent automatic drilling system could be equipped as the client's requirement.
- Top drive drilling system could be supplied.
- Meeting the requirement of well position transferring during cluster well drilling.

技术参数 TECHNICAL PARAMETER

钻机型号 Drilling rig model	ZJ106	ZJ15D	ZJ30B	ZJ300J	ZJ40L/40J	ZJ50L/50J	ZJ70L
名义钻深 Nominal drilling depth	500-800	700-1400	1500-2500	1500-2500	2000-3200	2600-4500	4000-6000
最大钩载 Max. hook load, kN	500-1000	800-1500	1600-3000	1600-3000	2500-4000	3500-5000	4500-7000
钩载速度 Hook speed, m/s	0.134-1.3	0.26-1.08	0.192-1.468	0.23-1.21	0.154-1.75	0.22-1.324(0.19-1.77NF)	0.22-1.88
游动系统绳数 Line strag of hoisting system	8	8	10	10	10	12	12
钻井钢丝绳直径 Drill line diameter, mm	22	26	29	29	32	35	38
最大拉力 Max. pull of fast line, t	103	130	210	210	280	350	485
绞车 Draw-works	型号 Model JC10B	JC15DJ	JC30B	JC30DJ	JC40B	JC50B	JC70B
主刹车 Main brake	液力盘式刹车或带式刹车	3F+1R	4F+1R	4F+1R	4F+2R, 6F+2R	4F+2R, 6F+2R	4F+2R, 6F+2R
辅助刹车 Auxiliary brake	液力盘式刹车或带式刹车	3F+1R	4F+1R	4F+1R	4F+2R, 6F+2R	4F+2R, 6F+2R	4F+2R, 6F+2R
天车 Crown block	TC80	TC90	TC170	TC170	TC225	TC315	TC450
游车 Traveling block	YG80	YG135	YG170	YG170	YG225	YG315	YG450
游车速度 Speed of hoisting system, m/s	600	660	1005	1005	1120	1270	1524
大钩 Hook	YD60	YG135	DG325	YG170	DG325	DG315	DG450
水龙头 Swivel	SL60	SL135	SL170	SL170	SL225	SL450	SL450
转盘 Rotary table	444.5	444.5	520.7	520.7	698.5	952.5	952.5
井深 Mast	2F+1R	3F+1R	4F+1R	4F+1R	4F+2R, 3F+1R	6F(4F)+2R	6F(4F)+2R
底座 Sub-structure	A	K	K or A	K or A	K	K	K
高度 Height, m	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	64	64	64	64
井深 Mast	29	31	41	41	43	45	45
最大速度 Max. load, m	585	900	1700	1700	2250	3150	4500
型式 Type	64	64	64	64	64	64	64
结构形式 Structure	64	64	64	6			



Rotary Independent-Electrical-Driven Drilling Rig/Compound Drive Drilling Rig

复合驱动钻机



结构特点:

- 采用“柴油机+偶合器+车减速器+链条+井车箱”驱动绞车和游浆泵。转盘采用交流变频电机或直流电机独立驱动方式，实现转盘的无级调速和扭矩限制，提高了钻井性能；
- 主机模块采用“前高后低”的布置方式，动力和传动系统实现低位安装；
- 绞车内变速，换挡采用气动远程控制，操作简便；
- 主刹车采用液压盘式刹车或带式刹车，辅助刹车采用电磁涡流刹车；
- 底座采用箱式或前台提升后台块装结构；
- 模块化设计，布局合理，动力互济性好，功率利用率高。钻台面平整，操作空间大；
- 井车箱可节省能源电机和自动压风机；
- 可配独立电机自动送料系统；可配独立司钻控制房。气、电、液控制及钻井仪表统一布局，可站在房内即可完成全部操作，改善了司钻的工作环境，减轻了劳动强度；
- 可配顶部驱动钻杆装置；
- 可配整体移动滑轨，满足丛式钻井时井位间迁移的要求。

TECHNICAL FEATURES

- The drawworks and mud pumps are driven by "diesel engine + coupling transmission + chain compound" while rotary table is driven independently by AC variable frequency motor or DC motor to obtain smooth speed and torque limited so that the drilling performance is improve.
- Rig floor is in two level "front high rear lower" power and transmission system are installed on the rear low level.
- Drawworks is inner speed change. Speed shift adjustment and change is easily available by remote pneumatic control.
- Main brake is hydraulic disc brake or band brake and auxiliary brake is eddy current brake.
- Box or front level with swing lift and rear level with box type substructure is available.
- Module design is provided for reasonable arrangement, power compensation and high use ratio. Ample space on rig floor is available for convenient operation.
- Compound can be used to drive the energy saving generator and automatic air compressor.
- Independent driller cabin is on the user's requirements. To realize intelligent control of pneumatic, electric, hydraulic and instrument system so that driller completes the total operations in the cabin for better working conditions and lessening working strength. Logic control, supervision and maintenance during complete drilling operations are available by PLC process. The drilling data can be stored printed and remote transmitted.
- Top drive drilling system could be equipped.
- Integrated skid rail may be provided to meet requirement for cluster well drilling.

技术参数 TECHNICAL PARAMETER

钻机型号 Drilling rig model	ZJ30LCB	ZJ40LDB	ZJ50LDB	ZJ70LDB/LLD
额定钻进深度 Nominal drilling depth	1500-2500	2500-4000	3500-5000	4500-7000
127mm(5英寸)钻杆 depth	1600-3000	2000-3200	2800-4500	4000-6000
最大钩载 Max. hook load, kN(t)	1700	2250(225)	3150(315)	4500(450)
转速 Hook speed, m/s	0.22-1.63	0.21-1.35	0.21-1.39	0.21-1.35(0.25-1.91)
游动系统绳径 Line string of hoisting system	10	10	12	12
钻杆接头直径 Drill line diameter, mm	29	32	35	38
最大钩载力 Max. pull of derrick, kN	210	280	350	465
型号 Model	JC30B	JC40B	JC50B	JC70B
额定功率 Rated Power (kW/HP)	400(500)	735(1000)	1100(1500)	1470(2000)
刹车 Brakes	4F	6F+1R	4F+2R	6F(4F)+2R
主刹车 Main brake	液压盘式刹车或带式 Hydraulic disc brake			
辅助刹车 Auxiliary brake	电磁涡流刹车 Eddy brake			
天车 Crown block	TC170	TC225	TC315	TC450
游车 Travelling block	YC170/VG170	YC225	YC315	YC450
游动系统绳径 Line string of hoisting system, mm (in)	1005	1120	1270	1524
大钩 Hook	DG225/VG170	DG225	DG315	DG450
水龙头 Swivel	SL170	SL225	SL450	SL450
中心管直径 Stem diameter, mm	64	75	75	75
开口直径 Tubing opening, mm (in)	520.7	698.5	698.5	662.5
转速 Rotary table	I, 无级调速 I, smooth change			
驱动方式 Drive mode	变频电机 VFD motor			
型式 Type	K	K	K	K
高度 Height, m	42	43	45	45
最大提升速度 Max. Lift, m/min	1700	2250	3150	4500
型式 Type	箱式 Box			
钻台高度 Floor height, m	2.9	4.8	7.4	7.4(或3.9)
钻台长度 Floor length, m	4.5	4.5	4.5	4.5
净空高度 Clear height, m	2.9	4.8	7.4	7.4(或3.9)
型号 Model x number	F1000x1	F1300x2	F1300x2	F1600x2
驱动方式 Drive mode	井车联合驱动 Compound drive			
特殊配置方式 Special mode available	AC-DC-AC或AC-SCR-DC, 一对一控制 AC-DC-AC or AC-SCR-DC, one for one control			

Desert Fast Moving Drilling Rig/Desert Trailer-mounted Drilling Rig 沙漠拖挂钻机

沙漠拖挂钻机适应环境温度0-55℃、湿度≤100%、风速≤100%，环境条件下，勘探、开发石油及天然气井，整机性能及制造水平处于国际先进。

钻机可实现在井距10公里内搬家，时间不超过48小时。

The desert trailer rig is adaptable to environmental conditions of temperature range 0-55 °C , humidity less than 100%. It is used to explore and exploit oil and gas well. It is the leading product of the industry in an international level.

The rig can be moved to another well within 48 hours and 10 km distance.



技术特点:

- 钻机短距离作业时，井架、底座可在直立状态整体移送，轴轴总成可旋转90度，满足钻机纵向和横向移动。
- 国内陆上钻机首次配备全覆盖消防系统。
- 泥浆泵组液力端国内首次设计为液力拆装的快速拆装结构，减轻劳动强度。
- 可钻控预防配整体正压送风空调系统，使H₂S等有害气体不能进入可钻控机房，提高了可钻的安全性。



TECHNICAL FEATURES

- When the rig is in a short-distance movement, the mast and substructure can be overall moved in standing state. Axle assembly can be rotated by 90 degrees, to realize longitudinal and lateral movement of the drilling rigs.
- The first one of China to fully cover onshore drilling rigs with fire protection system .
- The first one of China to employ hydraulic quick disassembly structure on the mud pump package fluid end, reducing labor intensity.
- The driller' s house is installed with overall positive pressure air conditioning system, therefore H₂S and other harmful gases are not permitted into driller' s house, guaranteeing safety of the driller.

技术参数 TECHNICAL PARAMETER

型号 Model	ZJ100BT	ZJ300BT	ZJ400BT	ZJ500BT	ZJ700BT
名义钻进深度 [Nominal drilling depth (4 1/2" 钻杆 钻台)]	500-1000	1600-3000	2500-4000	5000	7000
游车钩最大钩重 [Lifting system max Hook load]	500kN	1700kN	2250kN	3150kN	4500kN
钻井钢丝绳直径 [Drill line diameter, mm]	Φ22mm	Φ29mm	Φ32mm	Φ35mm	Φ38mm
最大钩重 [Max. hook load,kN]	600kN	1700kN	2250kN	3150kN	4500kN
绞车额定输入功率 [Drawwork Rated input power]	110hp	600hp	800hp	1500hp	2000hp
钻井泵型号 [Drilling pump model]	F-800 x 1	F-1300 x 1	F-1300 x 2	F-1600E	F-1600E
控制系统总容积 [Solid control system Total volume]				400m ³	400m ³
转盘型号 [Rotary model]	ZP-375Z	ZP-375Z	ZP-375Z	ZP-375Z	ZP-375Z
柴油发电机 [Diesel generator sets]	CAT3512C/SR4	CAT3512C/SR4	CAT3512C/SR4	CAT3512C/SR4	CAT3516CHD
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
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井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
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井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
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井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
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最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
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最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
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井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
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井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
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转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
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井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
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井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
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井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
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井架高度 [Mast height]	19m	33m	35m	35m	35m
井架形式及有效高度 [Mast type and height]	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式	K型，两段伸缩式
最大行程 [Max type end]	19m	33m	35m	35m	35m
转速 [Revolution frequency]	0-120rpm	0-120rpm	0-120rpm	0-120rpm	0-120rpm
功率 [Power]	110kW	600kW	800kW	1500kW	2000kW
重量 [Weight]	10000kg	30000kg	40000kg	50000kg	70000kg
井架高度 [Mast height]	19m	33m	35m	35m	

Truck-mounted Drilling Rig/Mobile Drilling Rig 车载钻机

产品特点:

- 非机采用卡特彼勒柴油机和艾力逊变速箱驱动动力总成，性能可靠，故障率低。
- 绞车为双（单）滚筒绞车，主刹车为带（鼓）式刹车，配有水冷式辅助刹车，制动液前可选配。转盘传动与绞车采用联合驱动方式，转盘配有惯性刹车。整机传动可靠、维护简单。
- 钻机配两节伸缩型井架，利用油缸完成起升和伸缩。
- 钻台为六立柱提升式或八立柱垂直伸缩式，结构稳定、安装便捷。采用吊车起升，低位时转盘及钻铤可随底座整体旋转，移动方便。
- 运载车底盘为专业厂家生产，满足汽车公告要求，能适应油田复杂路况，越野能力强、使用寿命长。
- 气、电、液路系统集成中控制，主要元件选用进口件。



PRODUCT FEATURES

- Power units of the rigs consists of Caterpillar diesel engines and Allison transmissions, contributing to its outstanding performance and low failure rate.
- Drawwork uses double(single) roller, and main brake is band(disk) brake. It is equipped with a water-cooled auxiliary brake, the sand drum is optional. Rotary table transmission and drawwork employ combined drive method, inertia brake is also equipped within. The whole rig reliable in transmission and easy to maintain.
- The rig use two telescopic mast type mast, completion of lifting and telescopic with hydraulic cylinder.
- The drill floor is in six stands swing up type or eight stands vertical telescopic type, making it stable in structure and easy to install. Lifted with crane, the rotary table and chain box can be overall transported conveniently with substructure when the drill floor is in the low position.
- The truck chassis is produced by professional manufacturers, being adaptable to complicated road conditions on oilfield, strong off-road capability and long service life is possible.
- Air-electric-hydraulic system controlled, and import products are used in key parts.



技术参数 TECHNICAL PARAMETERS

钻机级别 Grade of drilling rig	ZJ10/1100Z	ZJ15/1350Z	ZJ20/1600Z	ZJ30/1800CZ	ZJ40/2250CZ
名义钻深 Nominal drilling depth, m	500-800	700-1400	1100-1800	1600-2600	2000-3200
最大钩载 Max. hook load, kN	500-1000	800-1500	1200-2000	1600-3000	2500-4000
最大钩载 Max. hook load, kN	1100	1350	1800	1800	2250
型式 Drawwork type	单滚筒/双滚筒 Single drum/double drums				
功率 Drawwork power (hp)	450	550	650	750	1000
提升机构 Drawwork hoisting gears	行星轮齿 Drive with planetary gears				
刹车型式 Brake mode	常闭制动-棘子刹车/常闭水刹/常闭水刹+棘子液压制动/棘子水刹+棘子液压制动 Fail-safe brake + Retain hydraulic brake/water-cooling brake				
滚筒系 Line string of travelling system	4 x 5				
钢丝绳直径 Dia. of drilling wire rope, mm(in)	φ 25(1)	φ 29 (1 1/8)			φ 32 (1 1/4)
转盘开口直径 Opening dia. of rotary table, mm(in)	φ 445 (17 1/2)	φ 520 (20 1/2)	φ 550 (20 1/2)	φ 700 (27 1/2)	φ 700 (27 1/2)
钻台高度 Height of derrick floor, m	3.7, 4.5	4.4, 5	4.5, 5	5.6	5.6, 7.7, 5
井架型式 Mast type	桅杆式/双节液压提升/单节 Mast-type double-section hydraulic hoisting				
井架高度 Mast height, m	33, 34, 35				
最高车速 Max. Speed, km/h	45				
底盘驱动型式 Drive mode of chassis	10 x 8				
	12 x 8				
	14 x 8				

注：表中数据允许用户要求对参数进行变更，按双方约定执行。
Remarks: Data in this table are allowed to be modified upon client's requirement in accordance with the agreement between both parties.

Workover Rig/Pulling Unit 修井机



技术参数 TECHNICAL PARAMETERS

钻机级别 Grade of workover rig	XJ250	XJ350	XJ450	XJ550	XJ650	XJ750	XJ850
钻杆直径 Tool joint diam./standards	3200	4000	5500	7000	8500	9000	9000
大钩 Sarge of hook	2000	3200	4500	5800	7000	8000	9000
钩载 Depth of hook	2500	3500	4500	5500	6500	7500	8000
最大钩载 Max. hook load, kN	675	900	1100	1350	1600	1800	2250
额定钩载 Rated hook load, kN	400	600	800	1000	1200	1500	1800
型式 Drawwork type	单滚筒/双滚筒 Single drum/double drums						
功率 Drawwork power, HP	250	350	450	550	650	750	1000
提升机构 Drawwork hoisting gears	行星轮齿 Drive with planetary gears						
刹车型式 Brake mode	常闭制动-棘子刹车/常闭水刹/常闭水刹+棘子液压制动/棘子水刹+棘子液压制动 Fail-safe brake + Retain hydraulic brake/water-cooling brake						
滚筒系 Line string of travelling system	3 x 4	3 x 4	4 x 5		5 x 6		
钢丝绳直径 Dia. of drilling wire rope, mm(in)	φ 22	φ 25 (1)		φ 29 (1 1/8)		φ 32 (1 1/4)	
转盘开口直径 Opening dia. of rotary table, mm(in)	φ 445 (17 1/2)	φ 445 (17 1/2)	φ 445 (17 1/2)	φ 520 (20 1/2)	φ 520 (20 1/2)	φ 520 (20 1/2)	φ 700 (27 1/2)
钻台高度 Height of derrick floor, m	1.8, 2.7	1.8, 2.7	3.7, 4.5	4.5, 5	4.5, 5	5.6	6.6, 7.7, 5
井架型式 Mast type	桅杆式/双节液压提升/单节 Mast-type double-section hydraulic hoisting						
井架高度 Mast height, m	27	29, 31	31, 33, 34, 35		35, 36	36, 38	38, 39, 41
最高车速 Max. Speed, km/h	45						
底盘驱动型式 Drive mode of chassis	6 x 8	8 x 8/10 x 8		10 x 8	12 x 8	14 x 8	14 x 8

注：表中数据允许用户要求对参数进行变更，按双方约定执行。
Remarks: Data in this table are allowed to be modified upon client's requirement in accordance with the agreement between both parties.



钻机主部件 Drill Rig Components

Substructure 底座

结构特点:

- 底座结构分为拖车式、车装式、拖挂式、箱体式、双升式和翻升式等;
- 箱体式结构的前台高度较高, 满足安装标准防倾覆扭的要求; 后台高度较低, 适应于安装较重的主绞车和传动机组;
- 双升式结构用于电驱钻机。钻台及台面设备可低位安装, 井架在钻台低位时升起, 然后再将钻台和井架整体升起。钻台左、右带有缓冲液压缸, 钻台升起时作为缓冲器, 下落时作为顶推的动力;
- 翻升式结构的钻台及台面设备可低位安装, 井架低位安装可携带立柱升起, 井架升起后钻台整体升起。



TECHNICAL FEATURES

- The substructure types used are skid mounted, truck mounted/mobile, trailer mounted, piled box, sling-shot and swing lift etc.
- Piled box substructure is high in the front section to meet requirement of installing standard BOP stack and is low in the rear section to meet requirement of installing drawworks and transmission block.
- Sling-shot substructure, the drill floor and equipment on the drill floor can be installed in low position. The mast can be raised when the drill floor is in its low position and then the drill floor and mast can be raised integrally. In the two side of drill floor has hydraulic buffer to buffer the power when raise the rig and push as power when put down the rig.
- Swing-lift substructure, the drill floor and the equipment on the drill floor can be installed in low position. The mast support/leg can be assembled in low position and the mast be raised after drill floor being raised.

技术参数 TECHNICAL PARAMETER

底座型号 Model	DZ80/3.9-T	DZ170/4-T	DZ170/6-T	DZ170/5.1-TG	DZ225/6-TG
钻台高度 Floor height, m	3.8	4	6	5.1	6
净空高度 Height of rotary beam above ground, m	3.234	2.91	4.9	3.8	4.9
转盘梁负荷 Rotary beam capacity, kN	900	1700	1700	1700	2250
立柱梁负荷 Setback capacity, kN	500	900	900	900	1200
井架支撑跨距 Bottom bore, m	5	6.5	7.5	2.9	4
重量 Weight, kg	30110	72717	40524	32000	78500

注 Note: T-拖车式 Trailer TG-拖挂式 Trailer

底座型号 Model	DZ225/6-X	DZ315/9-X	DZ460/10.5-X	DZ675/12-X	DZ800/12-X
钻台高度 Floor height, m	6	8	10.5	12	12
净空高度 Height of rotary beam above ground, m	4.8	7.7	9.08	10	10
转盘梁负荷 Rotary beam capacity, kN	2250	3150	4500	6750	9000
立柱梁负荷 Setback capacity, kN	1200	1600	2200	3250	4320
井架支撑跨距 Bottom bore, m	6	9	10	10	10
重量 Weight, kg	124000	154780	147800	245000	265000

注 Note: X-翻升式 Swing lift

底座型号 Model	DZ225/6-TG	TJ2-41	DZ225/6-K	DZ315/7.5-K	DZ460/7.5-K
钻台高度 Floor height, m	5	4.5	6	7.5	7.5
净空高度 Height of rotary beam above ground, m	3.8		4.8	6.3	6.2
转盘梁负荷 Rotary beam capacity, kN	2250	2200	2250	3150	4500
立柱梁负荷 Setback capacity, kN	1200	1500	1200	1600	2200
井架支撑跨距 Bottom bore, m	4	8.02 x 8.02	9	9	10
重量 Weight, kg	102000	36800	125100	118300	145800

注 Note: T-拖车式 Trailer TG-拖挂式 Trailer K-箱体式 Piled box S-双升式 Swing shot X-翻升式 Swing lift

底座型号	DZ304.5-S	DZ225/7.5-S	DZ315/9-S	DZ450/9-S	DZ450/10.5-S	DZ652/13.5-S
钻台高度 Floor height, m	4.5	7.5	9	9	10.5	10.5
净空高度 Height of rotary beam above ground, m	3.4	6.15	7.69	7.62	9	9
转盘梁负荷 Rotary beam capacity, kN	900	2250	3150	4500	4500	5850
立柱梁负荷 Setback capacity, kN	500	1200	1600	2200	2200	2700
井架支撑跨距 Bottom bore, m	2.9	8.5	8	8	9	9
重量 Weight, kg	28716	131400	165000	190024	197000	212000

注 Note: S-双升式 Swing shot

Mast 井架

结构特点:

- 井架分为A型、K型（前开口型）、塔型、桅型和套筒等型式；
- A型井架大腿截面有矩形或三角形形式，承载能力和局部稳定性好。各段间采用销子连接，井架低位安装，利用人字架依靠绞车动力整体起放；
- K型井架主体为“K”型截面，大腿为片状桁架结构，各段间采用销子连接。井架低位安装，利用人字架依靠绞车动力整体起放；
- 桅型井架工作时井架向井口方向倾斜，靠钢丝绳保持井架的稳定和承载能力；
- 套筒型井架是一种垂直安装的伸缩式井架，是我公司近年开发的新产品。其特点是沿垂直方向将井架分成若干空间段，其中基段作为导向段与支撑段，通过绞车动力或液压动力将其余各段依次垂直提升安装，达到节约安装用地的目的。



技术参数 TECHNICAL PARAMETERS

井架型号 Model	JJ170/35-A	JJ170/41-A	JJ225/42-A	JJ315/43-A	JJ400/31-KS	JJ170/33-KS	JJ225/43-KS
最大静钩重 Max static hook load,kN	900	1700	2250	3150	900	1700	2250
有效高度 Clear height,m	39	41	42	43	31	33	43
底部跨距 Bottom span,m	6.5	7.5	8	9	2.9	2.9	2.9
二腿台容量 Height of monkey board,m	24.5,25.5, 26.5	24.5,25.5, 26.5	24.11,25.21, 26.31	22.1,23.5, 25.5,26.5	17.5	16.5, 17.5, 25.5, 26.5	
二腿台容量 Setback capacity,m	1680	2750	4000	4500	1500	3000	4000
抗风能力 Wind loading	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3
重量 Weight,kg	26592	34387	36321	37874	16627	26000	38000

注 Note: A--A型 mast K--K型伸缩式 telescoping mast

井架型号 Model	JJ170/42-K	JJ225/43-K	JJ250/42-K	JJ315/45-K	JJ400/45-K	JJ400/45-K	JJ400/45-K
最大静钩重 Max static hook load,kN	1700	2250	2450	3150	4500	4500	4500
有效高度 Clear height,m	42	43	42	45	45.5	45.5	45.5
底部跨距 Bottom span,m	7.5	8.5	7.5	8	10	9	10
二腿台容量 Height of monkey board,m	23.35,24.35, 25.35,26.35	24.5,25.5, 26.5	24.5,25.5, 26.5	22.5, 23.2, 25.8, 26.5	24.5,25.5, 26.5	24.5,25.5, 26.5	24.5,25.5, 26.5
二腿台容量 Setback capacity,m	3000	3500	4000	5000	7000	7000	7000
抗风能力 Wind loading	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3
重量 Weight,kg	39910	46922	41000	67550	63000	103000	81227

注 Note: K--K型 mast

井架型号 Model	JJ585/66-K	JJ75/48-K	JJ500/32-K	JJ225/43-Z	TJ2-41	JJ500/33-W	JJ120/31-W	JJ152/31-W
最大静钩重 Max static hook load,kN	5850	6750	9000	2250	2200	900	1200	1500
有效高度 Clear height,m	46.5	48	52	43	41	39	31	31
底部跨距 Bottom span,m	9	10	10	8	8.02×3.02	8	2.32	2.52
二腿台容量 Height of monkey board,m	24.5,25.5, 26.5	24.5,25.5, 26.5	24.5,25.5, 26.5	24.5,25.5, 26.5	22.543, 26.5	24.5,25.5, 26.5	16.1, 17.1, 18.1	16.6, 17.5
二腿台容量 Setback capacity,m	8000	9000	12000	4000	4000	1960	2000	3000
抗风能力 Wind loading	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3	≤8.3
重量 Weight,kg	87340	16200	18000	67000	31179	23990	11247	14372

注 Note: K--K型 mast, Z--套筒型 Bootstrap, W--桅型 Mast

TECHNICAL FESTURES

- Mast types are including A type, k type (open-front type), derrick, mast, and bootstrap etc type.
- The shape of A-mast section is rectangle or triangle. A-mast has attractive features of high loading capacity and perfect local stability. Each section of A-mast is connected by pins. The mast is assembled on the ground and raised or lowered integrally by the power of drawworks upon the gin poles.
- The shape of K-mast section is "K" open face type. The beam legs adopt laminated girder structure. Each section of the mast is connected by pins. K masts can be assembled on the ground and raised or lowered integrally by the power of the drawworks upon the gin poles.
- The masts will incline to the wellhead during the drilling operation and keep their stability and load capacity by guy lines.
- The bootstrap mast which is the latest line product developed is a kind of telescoping and erecting mast which can be assembled vertically. The main feature is that the boot strap mast can be divided into several sections along the vertical direction. The base section will be as the guide section and the support section to raise and assemble the other sections in turn by the power of drawworks or the hydraulic power, which can save the field greatly for installation of drilling rig.

▶ Crown Block 天车

结构特点:

- 系列天车符合API4F及6A规范, 并拥有API商标使用权;
- 符合行业标准SY/T5527要求;
- 滑轮绳槽经淬火处理, 耐磨损, 寿命长;
- 设有挡绳杆和卡绳槽, 防止钢丝绳跳槽或脱落;
- 设有防撞缓冲装置;
- 设有防撞修滑轮组用的起重梁;
- 设有防砂滑轮和辅助滑轮组;
- 天车滑轮与其配套的游车滑轮可互换。



TECHNICAL FEATURES

- Series crown blocks conform to API Spec 4F and Spec 6A, and are granted the right to use API monogram.
- Conform to industry standard SY/T5527. Sheave grooves are heat quenched to provide good abrasion resistance and long service life.
- Rope bar and rope barrier are provided to prevent the wire rope from crossing or falling out of the sheave grooves.
- Wooden buffer device is provided.
- Lifting frame for maintaining sheaves assembly is provided.
- Sand sheaves and auxiliary sheaves assembly are provided.
- Crown block sheaves and travelling block sheaves are interchangeable.

技术参数: TECHNICAL PARAMETERS

型号 Model	TC90	TC170	TC225	TC315	TC450	TC585	TC675	TC675H	TC900
最大钩载 Max. Load, kN	900	1700	2250	3150	4500	5850	6750	6750	9000
钢丝绳直径 Drilling line size, mm	26	29	32	35	38	38	45	38	48
滑轮外径 Sheaves O.D., mm	762	1005	1120	1270	1524	1524	1524	1524	1829
滑轮数 Number of sheaves	5	6	6	7	7	7	7	8	8
外形尺寸 mm	2317	2668	2668	3192	3410	3625	4650	5180	4217
Overall Sheave H	2076	2460	2709	2783	2753	2832	3340	3220	3606
高度 Height	1577	1855	2469	2350	2420	2580	2702	2904	3146
重量 Weight, kg	2668	4540	6500	8500	11105	12100	13750	18780	18000

▶ Drawworks 绞车

结构特点:

- 绞车有内变速和外变速两种形式;
- 轴承全部采用滚子轴承, 轴材料均为优质合金钢;
- 链条均为强制润滑;
- 液面开槽。液面高、低速端带有通风式气胎离合器。刹车轮胎(齿)采用循环水强制冷却;
- 主刹车采用带式或液压盘式刹车。辅助刹车配有磁滞液刹或气刹盘式刹车。



TECHNICAL FEATURES

- With inner gear shift and outer gear shift in drawworks.
- Shafts adopt superior alloy steel, bearings adopt roller bearings.
- All the chains are forced lubrication.
- Drum grooved, and the high-speed and low-speed ends of the drum shafts are equipped with ventilated-type air tube clutches. The brake rim is circulation water cooled.
- Band or Disc brake is master brake. Auxiliary brake is electromagnetic eddy current brakes.

技术参数: TECHNICAL PARAMETERS

绞车型号 Model	JC10E	JC15DB	JC30B	JC40B	JC50B	JC50D	JC70B	JC70D
最大输入功率 Rated input power, kW	210	300	440	735	1100	1100	1470	1470
最大钩载力 Max. piling lift/hoist, kN	80	150	210	280	350	350	437	437
钻井钢丝绳直径 Diameter of wire rope mm	22	26	29	32	35	35	38	38
滚筒外径直径×宽度 Drum size (D×W), m	400×650	475×900	560×1304	640×1308	685×1160	770×1310	770×1310	770×1310
滚筒轴径(轴径×轴径) Shaft size (D×H), mm	-	-	-	-	-	-	400×1320	-
滚筒容量 Sarc drum capacity, m	-	-	-	-	-	5000	-	7000
提升相数 Hoisting speeds for cathead shaft	2F+2R	2F+2R	4F	4F+2R	4F+2R	4F+4R	4F+2R	4F+4R
滚筒转速表转速 Speeds for cathead shaft	2	-	2	2	-	2	-	2
辅助刹车 Auxiliary brake	-	DWS15	DWS40	DWS40	DWS40	DWS40	DWS70	DWS70
外形尺寸 Overall dimensions (长×宽×高) (L×W×H), m	7390×2590×2410	4550×2400×2350	6000×2850×2580	6950×2820×2880	8750×2845×2880	7180×2880×2880	7180×2880×2880	7370×2880×2870
重量 Weight, kg	9819	11000	27300	28000	34203	49600	46050	55809

Single Speed Gearbox Drawworks 单轴齿轮传动绞车

结构特点:

- 单轴齿轮传动绞车由交流变频电机、齿轮减速箱、液压盘式刹车、绞车架、滚筒轴总成和自动送钻装置等主要部件组成;
- 绞车由交流变频电机驱动实现无级调速, 功率大、调速范围宽, 齿轮传动效率高, 振动小, 噪声低, 使用寿命长;
- 绞车为单滚筒轴结构, 滚筒开槽, 与同类绞车相比, 结构简单, 体积小, 重量轻;
- 绞车刹车采用液压盘式刹车和电液能转换组合;
- 绞车配有独立电机自动送钻系统。



TECHNICAL FESTURES

- The single speed gearbox drawworks consists of AC variable-frequency motor, gear box, hydraulic disc brake, drawworks frame, drum shaft assembly and automatic-drilling system, etc.
- Drawworks is driven by AC variable-frequency motor to realize stepless speed regulation, thus have big power, wider range in speed regulation. Provide high efficiency in gear transmission, having light vibration, less noise and long service life.
- The drawworks is single shaft, drum grooved, Comparing with other products, with simpler, smaller and lighter structure.
- The drawworks adopt hydraulic disc brake and dynamic brake.
- Complete with independent system to realize automatic-drilling.

技术参数: TECHNICAL PARAMETERS

绞车型号 Model	JC300DB	JC400DB	JC500DB	JC700DB	JC900DB	JC1200DB
最大输入功率 Rated. Input power, kW	600	800	1100	1470	3200	6400
最大轴输出功率 Max. pulling of fish-line, kN	210	280	350	450	640	851
钻杆钢丝绳直径 Diameter of wire rope, mm	29	32	35	38	45	48
滚筒尺寸(直径×宽度), mm Drum size (D×W)	560×1000	644×1208	770×1310	770×1434	1060×1840	1320×2312
辅助刹车 Auxiliary brake	液刹制动 Regenerating brake	DWS40	液刹制动 Regenerating brake	液刹制动 Regenerating brake	液刹制动 Regenerating brake	液刹制动 Regenerating brake
外形尺寸(长×宽×高), mm Overall dimensions (L×W×H)	4700×2600×2660	7000×3695×3610	6500×3152×2660	7620×3050×2660	10000×3560×3005	12000×3560×3260
重量 Weight, kg	19600	39125	36000	46500	763000	111000

Rotary Table 转盘

结构特点:

- 系列转盘符合API 7K规范, 并拥有API认证使用权;
- 符合行业标准SY/T5531要求;
- 转盘传动采用双弧齿锥齿轮, 承载能力强, 运行平稳, 寿命长;
- 转盘外壳为铸钢结构, 刚性好, 精度高;
- 齿轮和轴承采用飞溅润滑, 润滑可靠;
- 输入轴为筒式结构, 便于维修更换。



TECHNICAL FESTURES

- Series rotary tables conform to API Spec 7K, and are granted the right to use API monogram.
- Conform to industry standard SY/T5531.
- The transmission of the rotary tables adopts spiral bevel gear with heavy load, smooth running and long service.
- The housing is casting and welding structure with good rigidity, high precision.
- Reliable the gears and bearings adopt splash lubrication.
- Input drum shaft is convenient for maintaining and replacing.

技术参数: TECHNICAL PARAMETERS

型号 Model	ZP175	ZP205	ZP275	ZP375	ZP575Z	ZP465
开孔直径 Table opening, mm(吋)	444.5 (17 1/2)	620.7 (20 1/2)	698.5 (27 1/2)	962.6 (37 1/2)	962.6 (37 1/2)	1257.3 (49 1/2)
额定输入功率 Static load rating, kW	2700	3160	4600	5850	7280	9000
最大轴输出功率 Max. output power, kW	10728	22555	27459	32362	45000	64400
转子中心到轴端轴心距离, mm(吋) Distance from table axis to center of sprocket teeth	1118 (44)	1353 (53 1/4)	1353 (53 1/4)	1353 (53 1/4)	1353 (53 1/4)	1651 (65)
齿轮传动比 Gear ratio	3.75	3.22	3.67	3.56	3.62	4.0863
最高转速 Max. Speed, r/min	300	300	300	300	300	300
输入轴中心高 The center height of input shaft, mm	260.4	316	330	330	330	368
外形尺寸(长×宽×高), mm Overall dimensions (L×W×H)	1972×1372×566	2266×1475×704	2380×1475×690	2468×1920×718	2468×1810×718	3015×2254×819
净重 (包括万向节和联轴器) Net weight (drive motor, bearing and coupler) kg	4172	5662	6122	7870	9540	11280

Travelling Block 游车

结构特点:

- 系列游车符合API 8A规范, 并拥有API会标使用权;
- 符合行业标准SY/T5527要求;
- 滑轮轮槽经淬火处理, 耐磨损, 寿命长;
- 滑轮与轴承可与配套天车的滑轮与轴承互换。



TECHNICAL FEATURES

- Series travelling blocks conform to API Spec 8A, and are granted the right to use API monogram.
- Conforms to industry standard SY/T5527.
- Sheave grooves are heat quenched, wear-resistance and a long service life.
- Sheaves and bearings are interchangeable with its matched crown block sheaves and bearings.

技术参数: TECHNICAL PARAMETERS

型号 Model	YG135	YG170	YG170	YC225	YC315	YC450	YC585	YC675	YC900
最大钩载 Max. Load, kN	1350	1700	1700	2250	3150	4500	5850	6750	9000
钢丝绳直径 Drilling line size, mm	29	29	29	32	35	38	38	45	48
滑轮数 Number of sheaves	4	5	5	5	6	6	6	7	7
外形尺寸 mm Overall dimensions	长度 Length	3400	2030	2294	2690	3110	3132	3410	3830
	宽度 Width	960	960	1060	1190	1350	1600	1600	1905
	高度 Height	610	715	620	630	800	840	840	1150
重量 Weight, kg	4350	4590	2410	3756	5500	8300	8556	10805	15000

Hook 大钩

结构特点:

- 系列大钩符合API 8A规范, 并拥有API会标使用权;
- 符合行业标准SY/T5527要求;
- 筒体内特殊的结构, 具有良好的缓冲功能;
- 主钩有双重安全装置;
- 大钩主要零件采用高强度合金钢, 并经无损探伤检测。

TECHNICAL FEATURES

- Series hooks conform to API Spec 8A, and are granted the right to use API monogram.
- Conform to industry standard SY/T5527.
- Special structure in main body with good buffer function.
- The master hook is equipped with double safety device.
- The main parts of Hooks are made of high-strength alloy steel, and passed non-destructive test.



技术参数: TECHNICAL PARAMETERS

型号 Model	DG-50	DG-100	DG-135	DG-225	DG-315	DG-450	DG-675	DG-900	
最大钩载 Max. Load, kN	500	1000	1350	2250	3150	4500	6750	9000	
钢丝绳直径 Spring steel, mm	140	140	150	180	200	200	250	250	
主钩开口尺寸 mm Opening size of hook	长度 Length	130	140	165	190	220	234	305	
	宽度 Width	1650, 522 x 550	1905, 765 x 700	1997, 700 x 730	2548, 780 x 750	2980, 890 x 855	2050, 890 x 860	3705, 1210 x 930	4150, 1135 x 1090
	重量 Weight, kg	419	1310	1685	2175	3430	3520	7065	10500

Swivel 水龙头

结构特点:

- 系列水龙头符合API 8A规范, 并拥有API会标使用权;
- 符合行业标准SY/T5530要求;
- 可选配双扣和合金钢短节;
- 冲管和盘根装置为盒式一体结构, 便于更换;
- 配API 4LP水龙头接头。



TECHNICAL FESTURES

- Series swivels conform to API Spec 8A, and are granted the right to use API monogram.
- Conforms to industry stand SY/T5530.
- Double pin threaded alloy steel sub is optional.
- Wash pipe and packing device are integral type structure, convenient for replacing.
- Complete with API 4LP hose joint.

技术参数: TECHNICAL PARAMETERS

型号 Model	SL135	SL170	SL225	SL450	SL675	SL770
最大静负荷 Max. static load, kN	1350	1700	2250	4500	6750	7700
最高转速 Max. Speed, r/min	300	300	300	300	300	300
额定工作压力 Max. working pressure, Mpa	35	35	35	35	52	52
中心管直径 Stem I. D., mm	64	64	75	75	102	102
大钩钩臂空间 Hook clearance, mm	495	495	540	540	628	628
接头 Sub thread	4 1/2" REG, LH	4 1/2" REG, LH	6 5/8" REG, LH	7 5/8" REG, LH	8 5/8" REG, LH	8 5/8" REG, LH
	6 5/8" REG, LH	6 5/8" REG, LH	6 5/8" REG, LH	6 5/8" REG, LH	6 5/8" REG, LH	6 5/8" REG, LH
外形尺寸 (长×宽×高) ,mm Overall dimensions(L×W×H)	2505×758×840	2788×706×751	2880×1010×1110	3035×1096×1110	3775×1240×1406	3820×1410×1240
重量 Weight, kg	1341	1834	2815	3060	6880	7215

注: 水龙头分为带盘根器(带筒)和不带盘根器两种。Note: Swivels fall into two types, those with spinner (multi-purpose) and swivels without.

Compound Transmission Unit 并车传动装置

结构特点:

- 并车传动装置主要用于机械驱动钻机和机电复合驱动钻机, 主要有带V形带和链条并车两种形式。
- 本公司设计生产的链条并车箱采用整体式结构, 拆卸、安装方便, 结构紧凑, 可靠性高。



TECHNICAL FESTURES

- Compound transmission is mainly used for mechanical drive rig and compound drive rig and have two kinds: V-belt compound and chain compound.
- Tefico produces chain compound transmission box adopts integrated structure, easy for assembling and disassembling, with a high performance.



技术参数: TECHNICAL PARAMETERS

链条并车 Chain compound	BCX30L	BCX30LDB	BCX40L	BCX40LDB	BCX50L	BCX50LDB	BCX70L	BCX70LDB
输入功率 Input power, kw	1620	1620	2430	2200	3000	3000	4000	3300
带轮转速 Drive sprocket rpm	450	450	735	785	1100	1100	1470	1470
带轮功率 Mud Pump power, kw	956	956	2x856	2x856	2x1176	2x1176	2x1176	2x1176
适用钻机 Used drilling rig	ZJ30/1700L	ZJ30/1700LDB	ZJ40/2250L	ZJ40/2250LDB	ZJ50/3150L	ZJ50/3150LDB	ZJ70/4500L	ZJ70/4500LDB
皮带并车 Belt compound	BC30J		BC40J		BC50J		BC70J	
输入功率 Input power, kw	1620		2430		3000		4000	
带轮功率 Drawworks power, kw	450		735		1100		1470	
带轮转速 Mud Pump power, kw	956		2x856		2x1176		2x1176	
适用钻机 Matched drilling rig	ZJ30/1700J		ZJ40/2250J		ZJ50/3150J		ZJ70/4500J	

固控系统 Solid Control System

固控系统是现代化钻井中不可缺少的重要组成部分。它能保证钻机在钻井过程中泥浆的正常循环及性能稳定，系统主要由泥浆罐、振动筛、真空除气器、除泥清渣器、除砂清渣器、搅拌机、离心机、泥浆枪、混合加重漏斗、砂泵、灌注泵及各级固控设备组成。我公司自2002年就开始致力于固控系统及设备的生产制造，在美国内、外同行业领先的科学技术水平，开发、研制的ZJ10钻机、ZJ20钻机、ZJ30钻机、ZJ40钻机、ZJ50钻机、ZJ60钻机、ZJ70钻机、ZJ80钻机、ZJ90钻机等大、中、小型各类钻固控系统已普遍应用在国内、外钻井工程项目中。

Slurry Solid Control System is an indispensable constituent part for the modern well drilling section. It can ensure the normal circulating and stable performance of slurry during well drilling process. The system mainly consists of slurry tank, vibrating screen, vacuum degasser, sand-removing cleaner, desalter, stirrer, centrifuge, mud gun, mixed aggravating funnel, sand pump, filling pump and all levels of solid control equipments. Since 2002, we have been engaged in production-manufacturing of the solid control system and equipments by meriting advanced science and technology from companies of the same industry both home and abroad. And up to now, the developed ZJ10 Driller, ZJ30 Driller, ZJ40 Driller, ZJ50 Driller, ZJ60 Driller, ZJ70 Driller, ZJ90 Driller and the slurry solid control system for all kinds of driller in large, medium and small type have been extensively applied in the well drilling projects both domestic and overseas.



主要特点：

- 固控系统适用于公路、铁路、地铁、白骨塔、油、满足井场搬家拆装标准要求。
- 罐体采用V型瓦楞板，整体钢性好，外形美观。
- 罐底平面采用倾斜结构，排砂快速、干净。
- 罐内设有中压泥泵管径和清水管径。
- 罐内根据现场环境配备采暖管线，保证在寒冷季节正常作业。
- 罐体之间采用气胎曲瓦、玻璃钢管、钢由壬、无缝钢等连接方式，安装、拆卸方便，伸缩性好。
- 选用压缸式清砂门或蝶阀式，开启方便灵活。



MAIN CHARACTERISTICS:

- The tank system is applied in road, railway, self-transportation, and can meet the convenient dismantling and installation requirements of drilling site move.
- The tank body adopts V type corrugated board and enjoys the integral rigidity and nice outlook.
- There is medium-pressure slurry pressing pipelines and clean water pipelines inside the tank.
- The tank is equipped with heating pipelines inside to guarantee the normal operation in winter.
- The tank bodies are connected in such types as pneumatic tire unions, glass steel tubes, steel unions, and seamless steel, which enjoys convenient installation and dismantling, and good elasticity.
- The tank adopts the pressure bar type sand-cleaning valve, which is very easy for opening.

技术参数 TECHNICAL PARAMETERS

配套钻机 Surfact Drill Rig	罐数量 Tank Amounts	罐体有效尺寸(长×宽×高)mm Tank Effective Dimension(L×W×H)mm	总容积M ³ Effective Volume	净化级别 Purification Level
1000吨钻机 Drilling rig for 1000m	3	7500×2400×2000	90	3级 3Level
2000吨钻机 Drilling rig for 2000m	4	8000×2400×2000	126	4级 4Level
3000吨钻机 Drilling rig for 3000m	4	8000×2400×2000	126	4级 4Level
4000吨钻机 Drilling rig for 4000m	5	9000×2800×2200	160	5级 5Level
5000吨钻机 Drilling rig for 5000m	6	10000×2800×2500	220	5级 5Level
6000吨钻机 Drilling rig for 6000m	6	12000×2800×2500	360	5级 5Level
7000吨钻机 Drilling rig for 7000m	8	12000×2800×2500	480	5级 5Level
9000吨钻机 Drilling rig for 9000m	9	12000×2800×2500	600	5级 5Level

泥浆泵及配件 Mud Pump and Fitting



钻井泥浆泵是在钻井过程中以高压向井底输送高粘度、大比重和含砂量低的钻井液，用以冷却钻头、冲刷井底、冲碎岩石，从井底返回时携带出岩屑，是石油钻井作业最重要的工艺设备之一。
钻井泥浆泵的设计制造符合API Spec 7K《钻井设备规范》的要求。泵力端所有的易损件（阀体、阀座、缸套等）均可与符合API标准制造的同规格零件互换。

Mud pump is one of the most important equipments in drilling operation which discharge high viscosity, heavy density and low sand contented fluid to well bottom in order to cool drill bit, flush well, crush the rock and take out debris.

Mud pump is designed and manufactured in compliance with API Spec 7K "Specification for Drilling Equipment". All wearing parts of fluid end (valve, valve seat, liner and etc) can be interchanged according to API specification.



技术特点

- F-1300、F-1600和1600L钻井泵最高泵压达34.5MPa (5000 psi)，使用 ϕ 180mm缸套排量可达46.5l/s，是目前中、深井钻机配套泵的首选。

TECHNICAL FESTURES

- F-1300 and F-1600drilling pump has a Max. Pump pressure of 34.5MPa(5000Psi)and a displacement of 46.5L/S with a liner of ϕ 180mm. These two models are the first choice for the medium and deep drilling rig as an assorted component.



技术参数 TECHNICAL PARAMETERS

型号 Model	F-500	F-600	F-1000	F-1300
最大缸套, mm (直径 x 冲程, in) Max. Liner size x stroke	170 x 191 (6-3/4 x 7.5)	170 x 229 (6-3/4 x 9)	170 x 254 (6-3/4 x 10)	180 x 305 (7 x 12)
额定冲数 Strokes Rating, r/min	165	150	140	120
额定功率 Power Rating, kW (HP)	373 (500)	597 (800)	746 (1000)	989 (1300)
齿轮速比 Gear Type	4.206:1	4.185:1	4.207:1	4.206:1
吸入管口法兰 Suction Inlet Flange, in	8	10	12	12
排出口法兰 Discharge Outlet Flange, in	4	5	5	5
小齿轮轴直径 Pinion Shaft Dia., mm (in)	139.7 (5-1/2)	177.8 (7)	196.9 (7-3/4)	215.9 (8-1/2)
键 Key, mm (in)	31.75 x 31.75 (1-1/4 x 1-1/4)	44.45 x 44.45 (1-3/4 x 1-3/4)	50.8 x 50.8 (2 x 2)	50.8 x 50.8 (2 x 2)
阀座 Valve Pots	配置 Valve-Over-Valve, API 67	配置 Valve-Over-Valve, API 67	配置 Valve-Over-Valve, API 67	配置 Valve-Over-Valve, API 67
参考重量 Approx. Weight, kg (lb)	9770 (21540)	14530 (31970)	18790 (41420)	26700 (59170)

型号 Model	F-1600/1600L	F-1600HL	F-2200	F-2200HL
型式 Type	三缸单作用柱塞式 Triplex single acting plunger piston	三缸单作用柱塞式 Triplex single acting plunger piston	三缸单作用柱塞式 Triplex single acting plunger piston	三缸单作用柱塞式 Triplex single acting plunger piston
最大缸套, mm (直径 x 冲程, in) Max. Liner Size x Stroke	180 x 305 (7 x 12)	180 x 305 (7-1/2 x 12)	230 x 356 (9 x 14)	230 x 356 (9 x 14)
额定冲数 Strokes Rating, r/min	120	120	105	105
额定功率 Power Rating, kW (HP)	1193 (1600)	1193 (1600)	1640 (2200)	1640 (2200)
齿轮速比 Gear Type	4.206:1	4.206:1	3.512:1	3.512:1
排出口 Discharge Outlet Flange	5" 法兰 Flange, 5000psi (110 mm)	5" 法兰 Flange, 10000psi (110 mm)	5" 法兰 Flange, 5000 psi (130 mm)	5" 法兰 Flange, 10000 psi (130 mm)
小齿轮轴直径 Pinion Shaft Dia., mm (in)	215.9 (8-1/2)	215.9 (8-1/2)	254 (10)	254 (10)
键 Key, mm (in)	50.8 x 50.8 (2 x 2)	50.8 x 50.8 (2 x 2)	63.5 x 44.45 (2-1/2 x 1-3/4)	63.5 x 44.45 (2-1/2 x 1-3/4)
阀座 Valve Pots	配置 Valve-Over-Valve, API 67 L型布置 L type, API 67	配置 Valve-Over-Valve, API 67 L型布置 L type, API 67	配置 Valve-Over-Valve, API 67 L型布置 L type, API 67	配置 Valve-Over-Valve, API 67 L型布置 L type, API 67
参考重量 Approx. Weight, kg(lb)	24791 (54680) / 27020kg (57100lb)	29400 (64820)	36460 (80760)	44000 (96980)

Mud Pump Unit 泥浆泵组

机泵组可为各种类型钻机或修井机配置。动力可以选柴油机驱动或电驱动；传动方式有皮带传动、链条传动、齿轮传动、传动轴等多种形式；移动方式分为棚架式、拖挂式两种。可以根据用户特殊需要，配置防雨、防沙、防寒等各种配套设施。

The pump-engine unit can be associated with different drilling rigs or workover rigs. Its power can be diesel engine or motor. The transmission ways include belt, chain, gear, transmission shaft and other ways. The moving ways include the skid mounted type and the trailer-mounted type. This unit can be equipped with a rain-proof shed, sand-proof shed and winter-proof facilities according to the special requirements of the user.



柴油机驱动机泵组技术参数 ENGINE-DRIVE MUD PUMP UNIT TECHNICAL PARAMETERS

机泵组型号 Model of mud pump unit	JBZ500A	JBZ600A	JBZ800B	JBZ1000A	JBZ1000B
柴油机 Diesel engine	CAT C15 402 (540) 额定转速 Rated speed, RPM 2100	CAT C27 800 (800) 2100	G12V190PZL 800 (800) 1000	CAT 3512 754 (1020) 1200	G12V190PZL 810 (1085) 1300
泥泵 Mud pump	F500 368 (500) 165	F800 568 150	F800 568 150	F1000 735 140	F1000 735 140
离合器 Clutch	无 NO	无 NO	有 YES	无 NO	有 YES
传动箱 Transmission box	Allison S5620	Allison S6620	J53-1000	YOFJ750	J53-1000
传动比 Speed ratio	4.268	4.185	4.185	4.207	4.207

电机驱动机泵组技术参数 MOTOR-DRIVE MUD PUMP UNIT TECHNICAL PARAMETERS

机泵组型号 Model of mud pump unit	JBZ800C	JBZ1000C	JBZ1300C	JBZ1600C
电机 Motor	YJ23 600 1035	YJ26 800 970	YJ31 1000 1000	YJ13 1200 1000
泥泵 Mud pump	F800 568 150	F1000 735 140	F1300 956 120	F1600 1176 120
传动比 Speed ratio	4.185	4.207	4.206	4.206
传动方式 Transmission type	皮带传动皮带传动 Belt drive / Chain drive	皮带传动 Belt drive	皮带传动 Belt drive	皮带传动 Belt drive



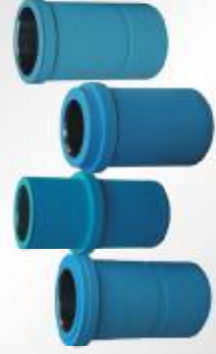
Mud Pump Fitting
泥浆泵配件



液缸和液缸总成 Hydraulic cylinder and assy



喷淋泵 Spray pump



双金属钢套 Bi-metal liner



十字头、十字头销 Crosshead, Wrist pin



阀总成和阀体、阀盖 Valve assy and valve body, Valve seat



曲轴
Crankshaft



缸盖堵头
Plug



剪销安全阀
Shear relief valve



导板
Slide



缸盖法兰、缸盖压盖
Cylinder cover flange, End cover



耐磨盘、顶缸器
Anti-friction plate, Liner pushe



2S型齿轮泵
Gear pump



空气包
Pulsation dampener



插板总成、上下导向器
Insertor assy upper, Lower guiding device



卡箍
Clamp



缸盖、阀盖
Cylinder cover, Valve cover



活塞总成和活塞拉杆
Piston assy and piston rod

钻机相关部件、附件和备件销售

Sales of Related Components, Accessories and Spares with Rig

腾飞公司不仅提供自己生产的钻机、修井机及其部件，同时也能够提供与钻机配套相关的部件、附件及备件，包括但不限于发电机、井控系统、顶驱、钻具、油水罐等。

TEFICO not only provide the drilling rig, workover rig and related parts, but also supply the relevant components, accessories and spares with rig including but not limited generator set, well control equipment, top drive, drilling string, fuel tank, water tank and so on.

防喷器及配件的销售 BOP, Spare Parts



顶驱
Top Drive



井口工具
well head tools



地面管汇
Ground Manifold

井下工具销售 Sales for Drilling Down-hole Equipment

- 震击器 Drilling Jars
- 打捞工具 Fishing Tool



倒绳机
Drilling Line Spooler



电磁涡流刹车
Eddy Current Brake



司钻房
Driller's Cabin



液气分离器
Mud Gas Separator



铁钻工
Iron Roughneck



钻具
Drilling String



发电机组
Generator Unit



营房
Camp

钻井服务 Drilling Service

腾飞能为石油和煤层气的勘探开发提供钻井服务。

自从腾飞公司成立以来，腾飞公司已经在国内外完成了许多口油井和煤层气勘探服务。腾飞公司已经在能源技术领域取得了丰富的经验。

腾飞拥有5部钻机，包括修井机及撬装钻机。作为一家钻机制造厂商，能够确保提供高质量高效率的产品和服务。

腾飞的腾飞宗旨是质量第一，信誉至上。我们的产品和服务目前处于国内领先，国际一流真诚期待能够为您提供高质量的服务，期待合作。

TEFICO, can provides drilling services for oil and coal bed methane exploration and development industry.

Since it was founded, TEFICO has accomplished many oil wells and coal bed methane exploration package services and both in China and overseas. TEFICO has gained great experience in energy technology services.

TEFICO has five sets rigs, including workover rig and skid-mounted drilling rig. TEFICO as a rig manufacturer can enable to provide quality and efficiency products and services.

TEFICO service creed is "Quality First, Credit Uppermost". Our products and services are considered highly advanced in China in accordance with the international standards and look forward to cooperating and providing high quality technology and services to you.



Casing Running Services 下套管服务

腾飞公司具备保障60个钻井队的下套管作业服务能力，施工区域横跨陕、甘、宁、蒙四省（区），经过几年的发展，公司具有适合于不同地层、各类油气井下套管技术服务的人才队伍、装备和技术水平。是中国及亚洲地区下套管技术服务能力优秀的公司之一。

我公司下套管作业服务开始于2008年，截至2013年年底，已经累计下油气井套管523口井。现拥有专业下套管人员16名，其中工程师、技术员各1名。配备有6个下套管服务小组，可以同时为6个钻井队提供下套管服务。目前主要服务长庆油田、中石华北分公司、延长油田的石油、气井下套管工作。

Tefico company possesses the ability to guarantee casing running service of 60 drilling crews. The construction area stretches across Shaanxi province, Gansu province, Ningxia province and Inner Mongolia. After several years of development, the company has talent team of casing technical service, equipment and technical merit suitable for different strata, various oil and gas. The company is one of the outstanding companies with the ability of casing technology service in China as well as Asia.

Casing running service of our company began from 2008. By the end of 2013, the company has accumulated 523 casing running wells of oil and gas casing. Now the company has professional casing running personals, among whom includes one engineer and one technician. We have 6 teams of casing running service so we can provide services to 6 drilling crews simultaneously. The main services are provided for oil and gas drilling crew casing running service of Changqing oil field, North China branch of SINOPEC, Yanchang oil field.



从事过下套管作业服务的套管尺寸规范:

- 碳钢管: 20"、13-3/8"、10-3/4"、9-5/8"、7"、5-1/2"、4-1/2" ;
- 碳钢管: 4-1/2"、3-1/2"、2-7/8" ;
- 13Cr油管: 4-1/2"、3-1/2"。

从事过下套管作业服务的套管螺纹规范:

- CSG、LCSG、BCSG、3SB、SEC、VAGT、FOX、NS-CC、TP-CO、VAM-TOP。

Dimensions and specifications of casing pipe once used in casing running service:

- Carbon steel casing pipe: 20"、13-3/8"、10-3/4"、9-5/8"、7"、5-1/2"、4-1/2" ;
- Carbon steel oil pipe: 4-1/2"、3-1/2"、2-7/8" ;
- 13Cr oil pipe: 4-1/2"、3-1/2"。

Specifications of casing pipe thread once used in casing running service:

- CSG、LCSG、BCSG、3SB、SEC、VAGT、FOX、NS-CC、TP-CO、VAM-TOP。

Directional Drilling Service 定向井服务

腾飞石油致力于做全球定向井技术的专业技术服务公司。施工区域横跨陕、甘、宁、蒙四省(区),是中国及亚洲地区技术结合服务能力优秀的公司之一。公司定向项目可同时为30台钻机提供配套技术服务,具备年完成各类定向井、水平井300余口,形成了以一趟钻为核心的腾飞石油公司特色钻井技术,公司面向国内外油气勘探开发市场,竭诚为各方提供各类定向井、纵式井、水平井、套管开窗井、大位移井等特殊工艺井的设计、轨迹控制、随钻测量服务。几年来,公司主要服务长庆油田、鄂池油田、新疆油田、大庆油田、延长油田等区域。不仅满足和保证了长庆油田市场,同时将业务扩展到东南亚、伊朗等海外市场。

腾飞石油公司目前拥有LMWD无线随钻设备16套,有线随钻设备1套;电子单点仪器18套,多点仪器1套,与西安石油大学、中国地质大学、西南石油大学等多家科研机构长期合作,研发了适应各种地层的定向钻井组合,拥有先进的钻井设计,能够及时提供井下数据,为预防井下风险提供理论依据。



Tefico Petroleum devotes to be global professional technical directional well service company. The construction region stretches across Shaanxi province, Gansu province, Ningxia province and Inner Mongolia. The company is one of the outstanding companies with the ability of casing technology service in China as well as Asia. Directional items of the company can supply site technical services for 30 drilling rigs simultaneously. It has the ability to finish more 300 wells of all kinds of directional wells and horizontal wells a year. It has formed Tefico unique well drilling technical service. The company opens to oil and gas exploration market in domestic and overseas. We are wholehearted to provide all parties with special process design, well trajectory control and measurement drilling services of directional wells, the vertical wells, horizontal wells, casing window well, big displacement wells and other various types. In recent years, the main services of the company are for Changqing oil field, Sinkiang oil field, Yanchang oil field and etc. areas. The company not only satisfied and guaranteed Changqing oil field market, but also expanded its business to Southeastern Asia, Iran and other overseas market.

Tefico Petroleum now owns 16 sets LMWD wireless drilling equipment, 1 set of cable drilling equipment, 18sets of electronic single point instrument, 1 set of multipoint instrument. The company makes long term cooperation with many scientific research institutions such as Xi'an Petroleum University, China university of geosciences, Southwest Petroleum University. We have researched and developed directional drilling tool used for various stratum. We also possess advanced drilling rig design technology. We can supply data under well timely to provide theoretical foundation for preventing risk under well.

产品质量保证措施 Products Quality Assurance

腾飞石油机械新技术有限公司秉承公司的质量目标：产品出厂合格率达100%；顾客满意度达95%；顾客投诉处理合格评价不少于90分。

腾飞石油机械新技术有限公司的质量方针是：零为精，质为首，重诚信，持创新，不断持续改进，增强顾客满意。

为了实现上述的质量方针和目标，公司采取如下的质量保证措施：

- 建立一支精悍的专业技术队伍，确保公司拥有自主创新能力和技术先进性。
- 目前公司拥有三十多人的专业设计队伍，承担公司的新产品研发任务。在机械性能和安全性能等方面，都有专业的技术人员，在不断吸取国内外先进技术的基础上，对钻机进行改进和创新，研发了具有自主知识产权的模块化钻机。
- 过程的质量体系认证，是产品质量稳步提高的坚实基础。
- 公司在完善质量管理体系，加强内部质量管理的基础上，于2004年通过了ISO9001:2000质量管理体系认证，使产品质量上台阶。2008年又取得了美国石油学会的API会标认证。按照API Spec Q1管理体系的要求，建立了内部质量管理体系文件，从原材料一切与产品质量有关的活动，都按文件的要求进行。
- 严格控制原材料的采购。一是对供方进行严格的评审，选择质量和信誉良好的供方进行合作。二是严格原材料的出厂检验，普通材料要做外观及材质单，合金材料还要进行性能检验，确保出厂材料都是合格品。
- 加强公司的产品检验工作，在生产过程中的每个工序，配备专业的质量检验人员，严格按图纸和工艺进行检验。定期对检验人员进行培训，不断提高检验人员的业务素质，同时配备足够的检验器具，使检验工作不断上台阶。
- 严格按照试油相对钻机各个部件进行空载试验或负载试验，以试验部件的密封性能和承载能力。并严格按照要求进行扭矩试验，按试油大纲的要求做相关的连接和回潮，达到图纸的设计要求。
- 按照API Spec Q1的规定，公司对新开发的钻机，必须由资质的第三方，进行模拟工况加载试验，并进行高力测试，把试验的结果反馈给顾客。
- 公司高度重视顾客意见，注重对顾客反馈意见的研究，在技术上不断的进行完善，使公司的产品品质稳步提高。



The products quality target of our company is: 100% qualified products; 100% customers feedback solution; customers satisfaction survey is not lower than 90%;

Business Tenet: Assuring Quality, Valuing Reputation, Abiding by Contract and Optimizing Service

● A professional technique group for the advancing and creation of the company.

Now, we have a group of professional technicians over 30. They are in charge of research and development of the pioneer products. We have special researchers on the performance and safety, and we developed the rigs on our own intellectual property.

● A perfect quality system is the basic of the products develop constantly.

The company passed the ISO9001:2000 quality management system certification in 2004, and got the right to use API meogram. According to the requirements of API Spec Q1, we set up an internal quality control program documents, to make sure all producing processes under control.

● Strict control of the raw material. Firstly, reviewing the supplier strictly, choosing the best supplier as the cooperator. Secondly, we do incoming inspection seriously to ensure the raw material qualified.

● Reinforce the product inspection, with special quality inspector and appliances.

● No-load or load test follow the program to check the seal performance and bearing capacity.

● According to API Spec Q1, for the new developed rig, we invite the qualified third party to do simulated condition load test and supply the test outcome to the user.

● We pay the return visit to the customer regularly, focus on the feedback information to develop our technique and improve the rig quality with steady steps.

销售网络图 Sales Graph

完善的售后服务体系为公司赢得了客户，让客户满意是我们的服务宗旨。
Our perfect and fast after-sales system has won the customer. Making customer satisfied is our service tenet.

产品销往全国各地及世界多个国家和地区。 Products are sold to large-scale oilfields both at home and abroad.

