



山东伟创石油技术有限公司
Shandong Weichuang Petroleum Technique Co., Ltd.

四川伟创石油装备制造有限公司
Sichuan Weichuang Petroleum Equipment Manufacturing Co., Ltd.

公司简介 COMPANY PROFILE



山东伟创石油技术有限公司(全资子公司四川伟创石油装备制造有限公司)是集科研攻关、新技术推广应用,石油设备、工具、仪器设计、制造、修理、租赁和石油工程技术服务于一体的高新技术企业。并已通过ISO9001:2015国际质量体系认证和美国石油学会的API认证。公司已聚集了一批高素质的管理和科技人才,具有了多项高科技含量的发明专利和实用新型专利,具备了较强的研发、制造和市场竞争能力。

我公司在引进消化吸收国外先进技术的同时结合国内油气勘探开发技术的特点与实际,研制开发的变径稳定器及系统(发明专利)、钻井随钻安全装置(发明专利)、无限开关旁通阀及系统(发明专利)、水力震荡防托压器(发明专利)、井下扩眼器(发明专利)、水力加压器(专利)、震击器系列(专利)、泥浆防溅阀(专利)、高性能内防喷工具(专利)、钻通刮一体工具(专利)等项石油工具专利技术和专有技术,经中石化各石油工程公司、中石油各石油钻探公司和中东各国现场使用证明,产品技术先进、质量稳定、服务优质,得到了用户一直好评。为提高石油工程的机械钻速、井身质量、井下安全和经济效益都起到了重要作用。

公司以“科技创新为基础,以产品和服务质量为根本,以诚信经营和客户满意为宗旨,以共同推进石油工程技术进步为己任。”公司内强素质外抓服务,推行了全面质量管理,以全员的工作质量保证产品质量。

公司承诺把每一件石油工具都做成精品,确保产品出厂合格率达百分之百;把服务做到现场,急用户所急、想用户所想。愿为中国油气田勘探开发技术的进步做出更大贡献。

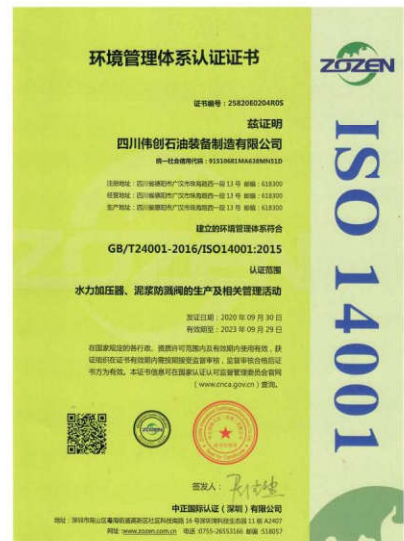
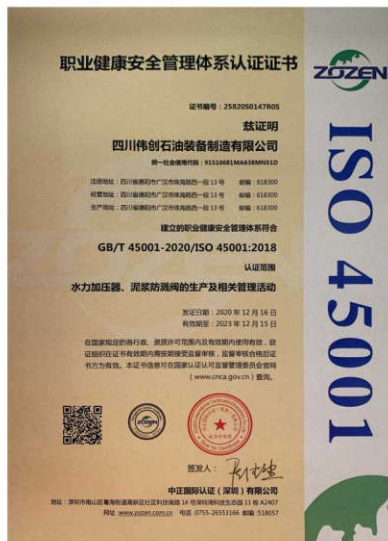
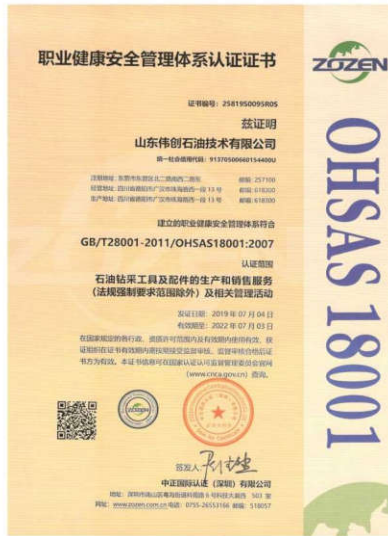
Shandong Weichuang Petroleum Technology Co., Ltd. (a wholly-owned subsidiary of Sichuan Weichuang Petroleum Equipment Manufacturing Co., Ltd.) is a collection of scientific research, new technology promotion and application, petroleum equipment, tools, instrument design, manufacturing, repair, leasing and petroleum engineering technology services An integrated high-tech enterprise. And has passed ISO9001:2015 international quality system certification and API certification of American Petroleum Institute. The company has gathered a group of high-quality management and scientific and technological talents, has a number of high-tech invention patents and utility model patents, and has strong R&D, manufacturing and market competitiveness

Together with the University of Petroleum and relevant scientific research departments, our company has developed dozens of patented and proprietary technologies for petroleum tools, approved by various petroleum engineering companies of Sinopec, petroleum drilling companies of CNPC and many countries in the Middle East that the products have advanced technology, stable quality and high-quality services, and have been praised by users. It has played an important role in improving the drilling speed, well quality, downhole safety and economic benefits of petroleum engineering.

The company takes "technological innovation as the foundation, product and service quality as the foundation, integrity management and customer satisfaction as the tenet, and joint promotion of petroleum engineering technology progress as its own responsibility." The company strengthens the quality of service and implements total quality management. Ensure product quality with the quality of the work of all staff.

The company promises to make every piece of petroleum tools into high-quality products, to ensure that the product pass rate is 100%; to provide services to the scene, anxious for users, and think about what users think. Willing to make greater contributions to the advancement of China's oil and gas field exploration and development technology.

资质证书 CERTIFICATE



专利证书 THE PATENT

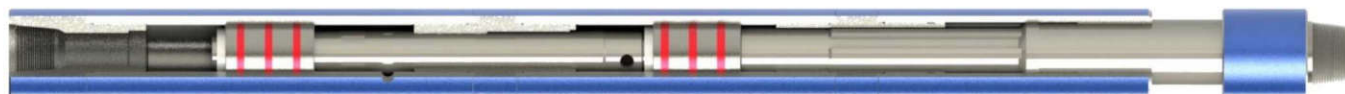


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水力加压器 (专利号:ZL 2008 2 0173683.0)

Hydraulic Thruster



SJ型水力加压器是一种应用于石油钻井、修井作业中的能量转换装置，它改变了钻井作业中靠下部钻铤的重量施加钻压的传统作业方式。它在不消耗额外能量、不需要其它特殊设备的情况下，利用循环钻井液的钻头水眼节流降压，作用在活塞上下端面造成推力的差值给钻头加压。解决了特殊钻井作业不能靠下部钻铤的重量施加稳定钻压的技术难题。

The SJ Hydraulic Thruster is an energy conversion device used in oil drilling and workover operations. It changes the traditional way of WOB by the weight of the lower drill collar. Without consuming or requiring additional energy and other special equipment, it can give a stable WOB by the fuction of the pressure drop on bit that actting on the upper and lower faces of the SJ tool pistons. It solves the technical problem that the weight of the lower drill collar cannot be applied to stabilize the WOB for special drilling operations

特点 Features & advantages

1、把钻铤刚性加压改为柔性加压，改善了钻杆的受力状态，降低了中和点高度，减小了钻杆弯曲和钻头倾角，提高了钻具的稳定性和导向性

Enhanced stability and directionality by shifting stressed states on drill pipes.

2、减震效果实现了“质”的飞跃

Improved shock absorbing performance.

3、它改变了钻压的施加位置，水力加压器通过水力效果直接给钻头加压，作用力不必经较长钻铤传递，实现了防斜打直、定向准确的目的

Better deviation control with hydraulic pressure directly to WOB.

4、多种钻具组合方式，适用范围广

Various BHA combination and wide application scenarios.

5、与常规钻井相同的操作方式，使用方便

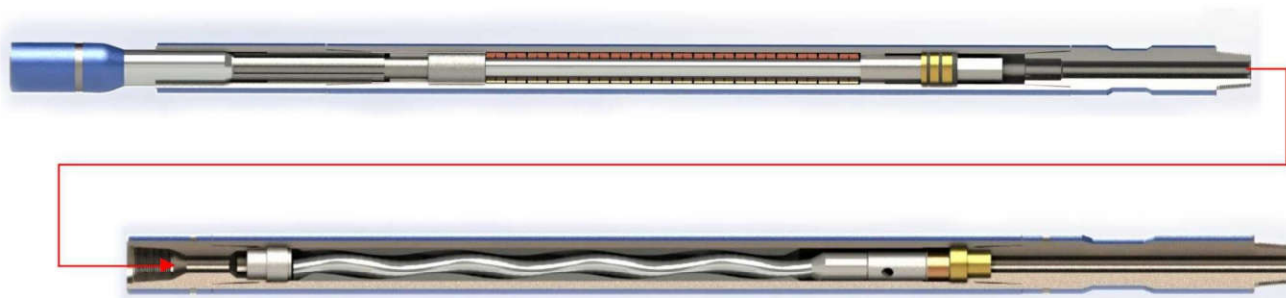
Simplify operation with conventional deployment

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	连接扣型 Connection (API)	默认活塞 级数 Qty of Piston	通径 I.D. (mm)	工作行程 Working Stroke (mm)	许用工作 扭矩 Max. Working Torque (KN·m)	屈服扭矩 Yield Torque (KN·m)	许用拉力 Max. Working Load (KN)	屈服拉力 Yeild Tension (KN)
SJ95	95	NC26	3	25.4	260	4.5	12	450	850
SJ105	105	NC31	3	32	260	6.5	14	500	950
SJ121	121	NC38	3	36	300	10	17	600	1050
SJ127	127	NC38	3	36	300	12	20	650	1100
SJ165	165	NC50	2	45	300	26	38	1800	2350
SJ178	178	NC50	2	45	300	30	45	2000	2500
SJ203	203	6 5/8 REG	2	57	300	36	52	2400	3000
SJ242	242	7 5/8 REG	2	75	300	45	60	3000	4500
SJ279	279	8 5/8 REG	2	76.2	300	60	85	4500	6000

水力振荡器 (专利号:ZL2015 2 0416341.7)

Hydraulic Oscillator



水力振荡器通过激发泥浆压力的脉冲波动,使自身产生纵向振动来提高钻进过程中钻压传递的有效性和减少BHA与井眼之间的摩阻,它可以应用于几乎所有的钻井设计中,特别是在有动力钻具的定向段改善钻压的传递,减少扭转振动效果尤为明显

The Hydraulic Oscillator can stimulate the pulse fluctuation of the mud pressure and make itself generate longitudinal vibration to improve the effectiveness of the WOB transmission during the drilling process and reduce the frictional resistance between the BHA and the borehole. It can be used in almost all drilling designs, especially in the directional section with power drilling tools.

特点 Features & advantages

1、改善井下钻压传递效果 Deliver weight directly on bit while horizontal drilling
依靠振动来改善钻压传递效果,定向滑动钻进时效果明显,降低粘卡趋势,降低了憋停马达等情况,减少了由于反扭矩而发生工具面失控的情况。
Perfect tool to speed up directional sliding drilling and reduce stuck occasion

2、明显降低摩阻 Lower friction dramatically
轻微振动BHA,将静摩擦转变为动摩擦,明显降低摩阻,改善钻压传递,避免出现脱压现象。
Continuous and mild vibration generated by Oscillator that shakes drill string to avoid statical friction and weight loss on bit situation

3、有效提高机械钻速 Increased ROP
通过改善钻压传递效率,避免粘卡、脱压,从而显著提高机械钻速,增加日进尺量。
Improved bit weight delivery to lessen tool stuck, thus increase ROP and daily drilling footage.

4、与MWD/LWD兼容 Compatible with MWD/LWD
水力振荡器产生的轴向振动是温和的,不会损坏MWD/LWD工具或干扰信号传递,安装于MWD/LWD上部或下部皆可。
The vibration generated by Hydraulic Oscillator is slight and mild, which will not affect MWD/LWD signal transmission or damage the device.

5、与各种钻头均配合良好 Optimal companion of drill bit
可同牙轮钻头和PDC钻头配合使用,对钻头牙齿或轴承无冲击损坏,同时,良好的钻压传递效果,更杜绝了顿钻冲击,使钻头受力均匀,能一定程度地保护钻头,延长钻头的使用寿命。
Excellent compatibility with roller bit and PDC bit accelerate WOB transmit and effect, hence eliminates drilling impact and extend bit lifetime.

技术参数 Specifications

型号规格 Model	SZ 127	SZ 172	SZ 203
工具外径O.D. (mm)	127	172	203
芯轴伸缩量 Vibration amplitude (mm)	3~8	3~9	3~9
最大冲击力 Max. Impact (KN)	50	50	70
压耗 Pressure Loss (MPa)	3~4	3~4	3~4
工作排量 Working Flow Rate (L/s)	10~20	20~35	40~50
工作频率 Working Frequency (Hz)	15 (16L/s)	15 (28L/s)	15 (45L/s)
许用拉力 Max. working Load (KN)	650	1800	2400
屈服拉力 Yield Pull (KN)	1000	2200	3000
许用扭矩 Max. Working Torque (KN•m)	18	30	36
屈服扭矩 Yield Torque (KN•m)	30	50	60
上部螺纹 Up Thread	NC38	NC50	6 5/8 REG
下部螺纹 Down Thread	NC38	NC50	6 5/8 REG

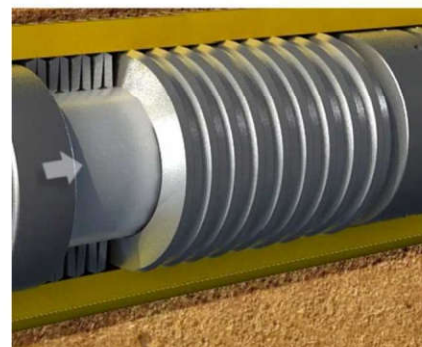
机械式减震器

Mechanical Shock Tool



HJ型机械式减震器，以碟形弹簧作为弹性元件来吸收钻具的跳动和震动，工作特性不受工作环境的影响，克服了常规液压减震器对密封性能的依赖，具有结构简单、工作可靠、操作维修方便、减震效果好、工作寿命长等优点。

The HJ type Mechanical Shock Tool uses a disc spring as an elastic element to absorb the beating and vibration of the drilling tool. The working characteristics are not affected by the working environment. It overcomes the dependence on the sealing performance, such as the conventional Hydraulic Shock Tools. It has a simple structure, Reliable work, convenient operation and maintenance, good effect, long working life and so on



特点 Features & advantages

1、轴向拉、压均有弹性

Bit bounce and vertical shock absorption

2、全机械式结构，减震效果不受温度影响

Mechanical structure, less affected from downhole temperature.

3、平衡活塞设计，内腔无高压，密封更可靠

Balanced piston design delivers reliable seal performance and normal bore pressure.

4、刚度可调，适应不同地层的需要

Adjustable shock absorption level to adapt different earth layer

技术参数 Specifications

型号规格 Model	外径 OD. (mm)	内径 ID. (mm)	接头螺纹 Connection (API)	最大抗拉负荷 Max. Tensile Load (KN)	最大工作扭矩 Max. Working Torque (KN·m)	最大允许钻压 Max. Compression (KN)	最大工作行程 Max. Stroke (mm)	平均刚度 Avg. Sniffness (KN/mm)
HJ 127	127	30	NC38	600	10	240	100	4.8
HJ 165	165	50	NC50	1800	25	350	100	4.8
HJ 178	178	50	NC50	2000	28	350	100	4.8
HJ 203	203	68	6 5/8 REG	2200	34	450	120	4.5
HJ 229	229	71.4	7 5/8 REG	2500	40	480	120	4.5
HJ 254	254	71.4	7 5/8 REG	3500	50	600	140	4.5
HJ 279	279	76.2	8 5/8 REG	4000	55	650	140	4.6

液压减震器

Hydraulic Shock Tool



YJ型液压减震器，以硅油作为弹性元件来吸收钻具的跳动和震动，安装在靠近钻头的位置，对延长钻头使用寿命、保护钻具和地面设备具有良好的效果。

The YJ type Hydraulic Shock Tool uses silicone oil as an elastic element to absorb the jump and vibration of the drilling tool. It is installed near the drill bit and has a good effect on prolonging the service life of the bit and protecting the drilling tool and ground equipment

特点 Features & advantages

1、弹性柔和，减震和钻头保护效果明显

Optimal mitigation to bit bounce, shock and vibration

2、进口密封材料，耐高温，耐高压

Robust seal performance even in Hi-Temp and Hi-Pressure environment

3、纯液压结构，减少内部刚性接触，耐用性更好

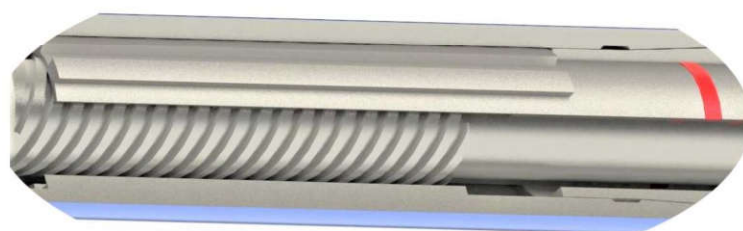
Durable hydraulic design to reduce internal abrasion

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	水眼 I.D. (mm)	工作行程 Max. Stroke (mm)	接头螺纹 Connection (API)	工作温度 Working Temp. (°C)	最大钻压 Max. Compression (KN)	许用拉力 Max. Working Load (KN)	屈服拉力 Yield Pull (KN)	许用扭矩 Max. Working Torque (KN•m)	屈服扭矩 Yield Torque (KN•m)
YJ121	121	38	100	NC38	-40-+150	260	600	900	10	17
YJ178	178	57	125	NC50	-40-+150	390	2000	2500	30	45
YJ203	203	68	140	6 5/8 REG	-40-+150	490	2400	3000	36	52
YJ229	229	71.4	140	7 5/8 REG	-40-+150	540	2800	4000	40	55
YJ254	254	71.4	140	7 5/8 REG	-40-+150	600	3500	6000	50	65
YJ279	279	76.2	140	8 5/8 REG	-40-+150	600	4000	6500	55	70

双向减震器

Tow-Way Shock Tool



SJ型双向减震器是一种液压式减震器,同时具有纵向和周向的减震效果,它能保持正常的钻压和扭矩,减少钻头、钻具及地面设备的振动破坏。

The SJ type Two-Way Shock Tool is a hydraulic shock absorber that has both longitudinal and circumferential shock absorption effects. It can maintain the right WOB and torque, and reduce vibration damage on bit, drilling tools and ground equipments.

特点 Features & advantages

1、纵向弹性,减少钻头跳动损伤

Optimal mitigation to bit bounce, shock and vibration

2、周向弹性,保持恒扭钻进

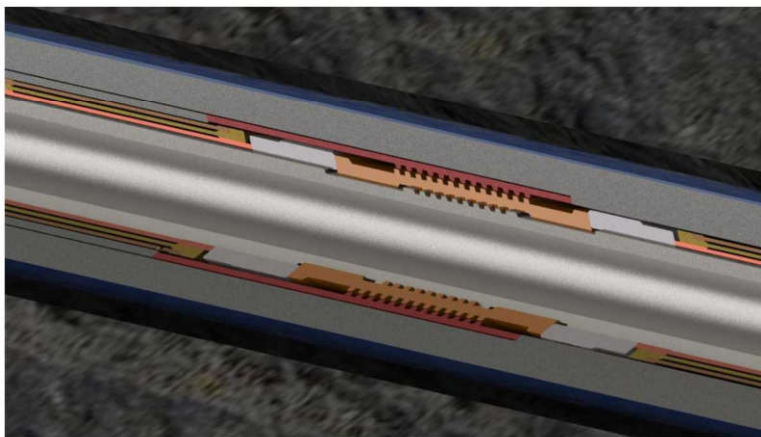
Circular shock absorption maintains steady torque while drilling

技术参数 Specifications

型号 Model	外径 O.D. (mm)	水眼 I.D. (mm)	工作行程 Max. Stroke	总长 Overall Length	接头螺纹 Connection (API)	最大钻压 Max. Compression (KN)	许用拉力 Max. working Load (KN)	屈服拉力 Yield Pull (KN)	许用扭矩 Max. Working Torque (KN•m)	屈服扭矩 Yield Torque (KN•m)
SJ165	165	48	120	5495	NC50	350	1800	2500	26	40
SJ203	203	65	120	6080	6 5/8 REG	490	2200	3000	36	52
SJ229	229	71.4	120	6080	7 5/8 REG	540	2600	4000	40	55
SJ254	254	71.4	140	6400	7 5/8 REG	600	2800	4600	43	58
SJ279	279	76.2	140	6400	8 5/8 REG	650	3000	5000	45	60

机械式随钻震击器 (专利号: ZL 2014 2 0859406.0)

Mechanical Drill Jar



QJ型机械式随钻震击器是一种全机械式的随钻震击工具,它集上、下击作用于一体,正常钻进时充当钻柱使用,钻具遇止时能及时震击解卡。

The QJ type Mechanical Drill Jar can be actuated by mechanical fully, and operated in two way, upwards and downwards. It will be used as a drill string when drilling naturally, and can jarring promptly when the drill string was sticking.

特点 Features & advantages

- 1、上、下击震击力可调,且调节准确、范围广
Adjustable and accurate impact power separately.
- 2、全机械式结构,震击效果不受油质变化的影响
Mechanical structure guarantees impact performance
- 3、平衡活塞设计,内腔无高压,密封更可靠
Piston balance design releases inside pressure
- 4、自带挠性接头,有效降低震击器自身的弯曲应力
Come with flexible joint to reduce self bending stress

技术参数 Specifications

表1 尺寸参数

型号规格 Model	外径 O.D. (mm)	内径 I.D. (mm)	接头螺纹 Connection (API)	开泵面积 Pump Area (cm ²)	上击行程 Stroke Upwards (mm)	下击行程 Stroke Downwards (mm)	总长 Overall Length (mm)
QJ121	121	45	NC38	60	198	205	6170
QJ159	159	57	NC46	100	149	163	6462
QJ165	165	57	NC50	100	149	163	6462
QJ178	178	57	NC50	125	148	168	6570
QJ203	203	71.4	6 5/8 REG	176	160	183	7049

表2 性能参数

规格型号 Model	许用拉力 Max. Working Load (KN)	屈服拉力 Yield Pull (KN)	许用扭矩 Max. Working Torque (KN·m)	屈服扭矩 Yield Torque (KN·m)	最大上击力 Max. Upward Jarring Force (KN)	最大下击力 Max. Downward Jarring Force (KN)	出厂上击力 Adjusted Upward Jarring Force (KN)	出厂下击力 Adjusted Downward Jarring Force (KN)
QJ121	600	900	10	17	400	270	360±30	200±30
QJ159	1600	2400	23	32	600	350	470±30	270±30
QJ165	1800	2600	25	38	650	350	470±30	270±30
QJ178	2000	3050	30	45	700	400	470±30	300±30
QJ203	2400	3400	36	52	800	450	600±40	400±40

备注: 出厂震击力以合格证所标实际试验数据为准!

全液压随钻震击器

Hydraulic Drilling Jar



QY型全液压随钻震击器是一种随钻震击工具,它上、下击均为液压式,震击延时时间范围:30s~240s,并能实现震击力无级调节。

The QY type Hydraulic Drill Jar is a kind of two-way Hydraulic jar that can be operated both upwards and downwards. The jarring delay time is 30s ~ 240s, and the act force can be adjusted according to the lifting force on the ground.

特点 Features & advantages

1、上、下震击力地面可控

Upward and downward jarring force can be controlled on ground.

2、液压式结构,冲击力更强

Hydraulic structure, stronger impact

3、正常钻进时内腔处于卸压状态,不影响震击执行机构寿命

The inner cavity is in the pressure relief state during normal drilling, which does not affect the service life of the jarring actuator

4、结构简单,有效避免机械卡滞

Simple structure, avoid mechanical sticking effectively

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	内径 I.D. (mm)	最大上击力 Max. Upward Jarring Force (KN)	最大下击力 Max. Downward Jarring Force (KN)	最大抗拉载荷 Max. Working Load (KN)	最大抗扭载荷 Max. Working Torque (KN·m)	接头螺纹 Connection (API)
QY121	121	50	350	180	930	13	NC38
QY159	159	57	700	350	2400	30	NC46
QY165	165	57	700	350	2500	32	NC50
QY178	178	71.4	800	400	3000	38	NC50
QY203	203	71.4	1000	500	3400	45	6 5/8 REG

地面震击器

Surface Bumper Jar



DJ型地面震击器是用于钻井平台上的下击器,震击释放瞬间利用钻柱重量锤击卡点,同时也能实时调节震击吨位,性能可靠,使用方便。

The DJ type Surface Bumper Jar can be used only on drill platform, hammering the sticking point with the weight of drill string. The bumper force can be adjusted on drill stand for reliable property and usability.

特点 Features & advantages

1、震击力连接可调

The bumper force can be adjusted continuously

2、长行程,下击可靠

Long working stroke, downwards jarring reliable

3、另有优化后的卡瓦结构,能明显提高震击寿命

Another optimized slip is designed, which can obviously improve the working life

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	内径 I.D. (mm)	工作行程 Jarring Stroke (mm)	闭合总长 Length (mm)	最大抗拉载荷 Max. Working Load (KN)	最大抗扭载荷 Max. Working Torque (KN·m)	接头螺纹 Connection (API)
DJ121	121	32	1800	3395	1000	15	NC38
DJ159	159	50.8	1200	3030	1600	25	NC46
DJ178	178	50.8	1200	3030	2200	30	NC50
DJ203	203	50.8	1200	3250	2600	35	6 5/8 REG

开式下击器

Fishing Bumper Jar



KXJ型开式下击器是利用钻柱重量产生下击的震击解卡工具，它工作行程长，下击力大，结构简单，便于维修和使用。

The KXJ type Fishing Bumper Jar can operate downwards by use of the weight of drill string on the top of itself. It has a long working stroke, big bumping force, simple structure, and easy operation and maintenance.

特点 Features & advantages

1、结构简单，几乎零故障率

Simple structure, almost zero failure rate

2、依靠上部钻柱重量产生下击，震击力地面可控

Operate by the weight of the drill string above, the jarring force can be controlled on the ground

3、切割作业中，可作为“恒压给进”工具使用

It can be used as a "constant WOB" tool in cutting operation

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	内径 I.D. (mm)	工作行程 Jarring Stroke (mm)	闭合总长 Length (mm)	最大抗拉载荷 Max. Working Load (KN)	最大抗扭载荷Max. Working Torque (KN·m)	接头螺纹 Connection (API)
KXJ121	121	38	920	2040	1000	14	NC38
KXJ159	159	51	1400	2600	1800	24	NC46
KXJ165	165	51	1400	2600	2000	25	NC50
KXJ178	178	70	1550	2740	2200	30	NC50
KXJ203	203	70	1600	2900	2500	35	6 5/8 REG

超级震击器

Super Fishing Jar



CSJ型超级震击器是一种液压式的上击器, 能实现震击力的无级调节, 与液压加速器配合使用时, 震击效果更明显。

The CSJ type Super Fishing Jar is a hydraulic jar upwards, and the operate force can be adjust continuously. The effect will be better when working with a Jar Intensifier.

特点 Features & advantages

1、震击力大, 打捞解卡效果明显

Great jarring force, free stick effectly

2、纯机械式限流阀设计, 震击延时不受液压油温度影响

Jarring delay time is not affected by temperature with a special mechanical release valve

3、与加速器配合使用, 提升震击能力, 有效缩短解卡时间

Working with a Jar Intensifier will get a greater jarring force and shorten the free stick hours

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	内径 I.D. (mm)	工作行程 Jarring Stroke (mm)	闭合总长 Overall Length (mm)	最大抗拉载荷 Max. Working Load (KN)	最大抗扭载荷 Max. Working Torque (KN·m)	最大震击力 Max. Jarring Force (KN)	接头螺纹 Connection (API)
CSJ121	121	50	305	3900	1000	10	350	NC38
CSJ159	159	57	320	3980	1500	15	700	NC46
CSJ165	165	57	320	3980	1600	15	700	NC50
CSJ178	178	60	320	4045	1800	16	800	NC50
CSJ203	203	76	330	4330	2200	20	1000	6 5/8 REG

液压加速器

Hydraulic Jar Intensifier



YJQ型液压加速器与CSJ型超级震击器配套使用, 增强震击效果, 建议连接在超级震击器上方1~3根钻铤范围内。

The YJQ type Hydraulic Jar Intensifier can be used with CSJ type Super Fishing Jar to stronger the jar action. It is recommended to connect the YJQ within 1~3 drill collars above the Super Jar.

特点 Features & advantages

1、充当“液力弹簧”, 显著提高钻柱的拉伸弹性

Acting as a "hydraulic spring" that can improve the tensile elasticity of drill string significantly

2、消除了井壁摩阻对上击器震击力的削弱作用, 提高震击效果

It can improve the jarring performance by eliminating the weakening effect of wellbore friction

3、可以减弱打捞震击过程对地面设备的有害冲击

Reduce the harmful impact on ground equipment during jarring process

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	内径 I.D. (mm)	工作行程 Working Stroke (mm)	闭合总长 Overall Length (mm)	最大抗拉载荷 Max. working Load (KN)	最大抗扭载荷 Max. Working Torque (KN·m)	接头螺纹 Connection (API)
YJQ121	121	38	240	3255	1000	10	NC38
YJQ159	159	57	320	4375	1500	15	NC46
YJQ165	165	57	320	3980	1600	15	NC50
YJQ178	178	60	320	4045	1800	16	NC50
YJQ203	203	76	330	4330	2200	20	6 5/8 REG

遥控变径稳定器 (发明专利号:ZL2012 1 0583186.9)

Remote Gauge Stabilizer

遥控变径稳定器在钻进过程中,通过地面遥控调整稳定器的尺寸大小,改变下部钻具的井斜控制能力,从而较准确地控制井眼的井斜角。

The RGS tool can accurately control the inclination angle of the wellbore by adjust the size of itself remotely on the ground during the drilling process.

特点 Features & advantages

1、一体式结构,强度高

Integral structure ensures high intensity of tool

2、小径起下钻,保证起下钻过程安全

Configurable tool diameter increases trip safety

3、引入电子检测系统,工作状态一目了然

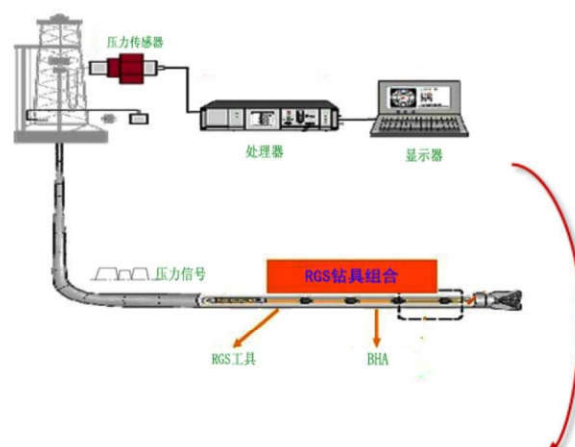
Visual display of downhole gauge status

4、扶正面激光融敷技术,高耐磨耐冲击

Laser melt hardbanding surface of stabilizer implement high abrasion resistance.

5、双位置控制的凸轮专利技术,能通过开停泵控制工具在井下的大小径工作状态

Adjusting tool diameter by open or stop the pump.



技术参数 Specifications

型号 Model	基体外径 Body Dia. (mm)	翼面外径 Blade Dia. (mm)	工作外径 Extended Dia. (mm)	通径 I.D. (mm)	连接螺纹 Connection (API)	最大流量 Max. Flow-Rate (L/s)	最大承拉 Max. Working Load (KN)	最大承扭 Max. Working Torque (KN·m)
RGS60	121	139.7	152	25.4	NC38	20	900	18
RGS62	121	146	159	25.4	NC38	20	900	18
RGS85	172	200	216	45	NC50	32	1900	30
RGS95	178	222	242	45	NC50	32	2100	32
RGS122	203	292	311	71.4	6 5/8 REG	50	2500	38

可调式变径稳定器

Adjustable Gauge Stabilizer



该稳定器是一种新型的钻井用的可变径稳定器，它是利用钻井液压力将扶正块推出，达到变径的目的，停泵时，扶正块会自动缩回，防止起下钻时发生遇阻或遇卡风险的发生。

The AGS tool is a new type of variable diameter stabilizer. It uses the pressure of drilling fluid to push out the centralizer to achieve the enlarged diameter. When the pump stopped, the righting block will automatically retract to prevent the risk of jade feet or jamming during tripping.

特点 Features & advantages

1、纯机械式结构，稳定、可靠

Mechanical design certifies stabilizer performance

2、小径起下钻，保证起下钻过程安全

Configurable tool diameter increases trip safety

4、入井使用前，根据需要调节扶正块直径，适应各种现场需求

Configuring tool diameter to match site needs

5、扶正面激光融敷技术，高耐磨耐冲击

Laser melt hardbanding surface of stabilizer implement high abrasion resistance

6、长度短，不影响立柱

Small size design to fit any string length

技术参数 Specifications

规格 Model	通径 I.D. (mm)	本体外径 Body Dia. (mm)	翼面外径 Blade Dia. (mm)	工作外径 调节范围 Extended Dia. (mm)	总长 Overall Length (mm)	上下连接螺纹 Connection (API)
8 1/2"	45	172	200	206-215.9	2386	NC50
9 1/2"	45	172	222	229-241.3	2386	NC50
12 1/4"	71.4	203	292	295-311	2680	6 5/8 REG

无限次开关旁通阀 (发明专利号: ZL 2013 1 0476726.8)

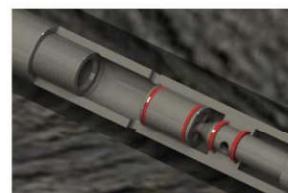
PTL Tool



1、停泵 (旁通关)
Pump stopped (bypass off)



2、开泵 (旁通关)
Pump started (bypass off)



3、开泵 (旁通开)
Pump started (bypass on)

无限次开关旁通阀是一种通过钻井压差进行开关的钻井阀,它不需要投球或憋压,通过地面控制泥浆泵的开停来切换井下工具的旁通通道打开或关闭,通常被安装在底部钻具组合的上部,在实施一些重要作业时,它可以提供旁通循环通道来实施这些作业。

The PTL tool is a drilling valve that can be opened and closed infinitely by the drilling pressure drop. It does not need to throw or hold the pressure. The bypass channel of the PTL tool can be switched on or off by controlling the start or stop of mud pump on ground. It is usually installed on the top of the BHA. It can provide bypass circulation during some important operations.

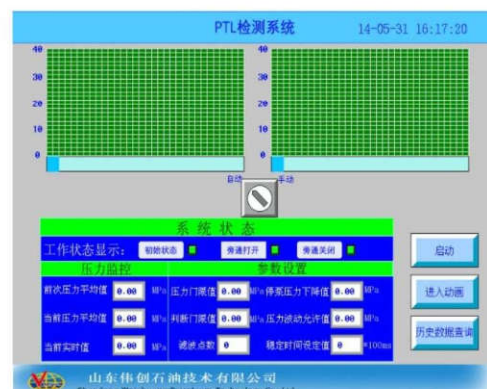
特点 Features & advantages

1、双位置控制的凸轮专利技术,能通过开停泵切换旁通打开与关闭
Patent technology enforces pump to control valve open and close

2、不必投球,适应多种钻具组合
No ball drop required

3、起下钻通过旁通侧吸,提高效率
Bypass circulation shorten tripping time

4、电子检测系统,方便判断井下工具的真实状态
Real time display of valve status



显示界面

技术参数 Specifications

规格 Model	通径 I.D. (mm)	本体外径 Body O.D. (mm)	旁通孔 By-pass Bore (mm)	连接螺纹 Connection (API)	最大承扭 Max. Working Torque (KN·m)	抗拉强度 Max. Working Load (KN)
PTL121	36	121	2-Φ30	NC38	18	950
PTL165	45	165	2-Φ32	NC50	30	1900
PTL203	57	203	2-Φ32	6 5/8 REG	38	2350

注:工具启动压力为2MPa,使用该工具时,应保证工具处环空压差差 $\geq$ 2MPa

套管防磨接头

Casing Anti-wear Joint



套管防磨接头是针对石油钻井施工中防止起下钻及旋转钻具过程对套管的磨损、损害而开发的专用井下工具。该系列的防磨接头具有表面摩擦系数低, 耐磨损、强度高的特点, 适用于井下条件恶劣的特殊情况。

Casing Anti-wear Joint is a special downhole tool developed for preventing the casing abrasion and damage during the tripping and rotating on drilling. This series of anti-wear joints have the characteristics of low surface friction coefficient, wear resistance, and high strength, and are suitable for special conditions under severe underground conditions.

技术参数 Specifications

规格和型号 Model	螺纹型号 Connection (API)	工作外径 Working O.D. (mm)	接头总长 Overall Length (mm)	抗扭强度 Max. Working Torque (KN·m)	抗拉强度 Max. working Load (KN)	转动 体长度 Rotation Length (mm)	本体外径 Body O.D. (mm)	内径 I.D. (mm)	备注 Remark
FM146-NC38	NC38	146	700-1100	20	1300	200	121-127	50	金属
FM155-NC38	NC38	155	700-1100	20	1300	200	121-127	50	非金属
FM190-NC50	NC50	190	700-1100	30	2200	200	159-168	71.4	金属
FM197-NC50	NC50	197	700-1100	30	2200	200	159-168	71.4	非金属
FM212-5 1/2FH	5 1/2FH	212	700-1100	36	2600	200	172-184	76.2	金属
FM215-5 1/2FH	5 1/2FH	215	700-1100	36	2600	200	172-184	76.2	非金属
FM240-5 1/2FH	5 1/2FH	240	800-1200	36	2600	200	178-184	76.2	金属
FM245-5 1/2FH	5 1/2FH	245	800-1200	36	2600	200	178-184	76.2	非金属

岩屑床清理器 Cuttings Bed Cleaner



岩屑床清理器(又名清砂器)主要用于破坏大斜度井眼中岩屑床的形成,利于岩屑随泥浆上返,达到“清砂”的目的。

The cuttings bed cleaner (also known as the sand cleaner) is mainly used to destroy the formation of the cuttings bed in high-inclination wellbore, which is conducive to the return of the cuttings with the mud to achieve the purpose of "sand cleaning".

特点 Features & advantages

1、一体式结构,无活动部件,强度高;

Integral Design

2、特殊设计的“V”形流道,机械旋转,水力返屑,双作用搅动、破坏、并清除岩屑床;

Cleaner incorporates "V" shape flow channel to implement mechanical rotation and hydraulic debris return simultaneously, hence stir, destroy and eliminate rock debris.

3、“V”形工作翼表面镶嵌合金硬饰层,高耐磨,不缩径,同时可碾碎大岩屑,便于岩屑上返;

Alloy hardening surface of flow channel surface relieve upward resistance and enhance through rate

4、长度短,不会影响立柱摆放和二层台操作;

Small size design to ease string set and handle

5、纯机械结构,使用效果不受井温影响;

Mechanical design reduces well temperature affect.

6、使用时直接接入需求井段即可,使用简单。

Direct deployment on needs, no well section required.

技术参数 Specifications

型号 Model	外径 O.D. (mm)	水眼 I.D. (mm)	总长 Overall Length (mm)	接头螺纹 Connection (API)	夹持长度 Clamp Length (mm)	许用拉力 Max. working Load (KN)	屈服拉力 Yield Pull (KN)	许用扭矩 Max. Working Torque (KN•m)	屈服扭矩 Yield Torque (KN•m)
XQ127	127	54	980	NC38	≥220	1000	1400	15	22
XQ165	165	71.4	1020	NC50	≥220	2200	3000	35	48
XQ178	178	71.4	1020	NC50	≥220	2400	3200	36	52

随钻微扩眼器

Reamed-Dimension Stabilizer



随钻微扩眼器设计有上、下两个偏心刀翼，主要作用是降低井眼的狗腿严重度，清除井下的微狗腿、小台阶，修复井壁。

The RDS Tool is designed with two eccentric blades, an upper and a lower. The main function is to reduce the severity of doglegs in the wellbore, remove the micro-doglegs and small steps in the well, and repair the wellbore.

特点 Features & advantages

1、偏心设计，可扩出比工具通过直径更大的井眼尺寸；

Eccentric blades design enables wider than tool diameter hole reaming

2、上、下两组刀翼，实现正划眼和倒划眼；

Top and bottom blades empowers reamer to rotate clockwise or anticlockwise

3、随钻使用，有效减少划眼时间与通井次数；

Reaming while drilling function achieved

技术参数 Specifications

型 号 Model	RDS 8 1/2"	RDS 9 1/2"	RDS 12 5/8"
连接扣型Conn. Thread	NC50	NC50	6 5/8 REG
工具总长Overall Length	1100	1250	1550
本体外径O.D.	165	165	203
工具内径I.D.	71.4	71.4	76
高翼面外径Upper Blade O.D.	226	252	325.5
低翼面外径Lower Blade O.D.	188	215	286
切削齿直径Cutting Teeth Dia.	13.4	13.4	13.4
保径齿直径Gauge Teeth Dia.	13.4	13.4	19

钻通刮一体工具 Drill-Drift Scraper



钻通刮一体工具主要用于清除井下套管内壁上残存的水泥、泥块和轧制中产生的毛刺、鳞片、管内防砂射孔时嵌在管壁上的子弹以及生产井套管壁上的铁锈、水垢、硬石蜡等所有正常施工作业中的杂物。

The Drill-Drift Scraper was designed to fit all the drill, drift and casing scrape situation. It clears away the cement, scrap iron, artillery shells, burrs, paraffins, greasy dirt and other debris in the casing pipe.

特点 Features & advantages

1、刮刀表面硬化处理, 耐磨

Hardening treatment on scraper blade

2、本体与刮刀筒体可相对转动, 适应钻、通、刮使用要求

Various utilization method to suit drilling, drifting and scraping conditions by application of relative rotation between scraper body and sleeve

3、周向错位的三组刮刀串联, 覆盖整个管壁范围

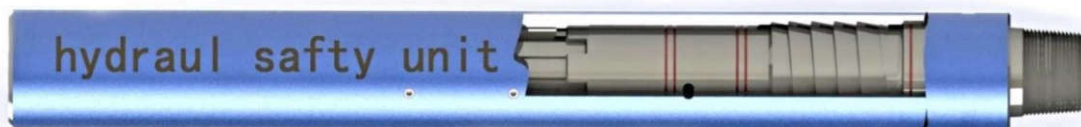
Fully covered by circumferential blade on scraper body

技术参数 Specifications

规格 Model	通径 I.D. (mm)	本体外径 O.D. (mm)	最大工作外径 Max. O.D. (mm)	总长 Overall Length (mm)	上下连接螺纹 Connection (API)	刮削范围 Scraping Range (mm)	最大承扭 Max. Working Torque (KN·m)	抗拉强度 Max. Working Load (KN)
GX 127	20	89	117	1350	NC26	108-114	7 KN·m	70T
GX 178	38	127	162	1430	NC38	152-161	22 KN·m	120T
GX 245	68	178	234	1659	NC50	203-229	36 KN·m	200T

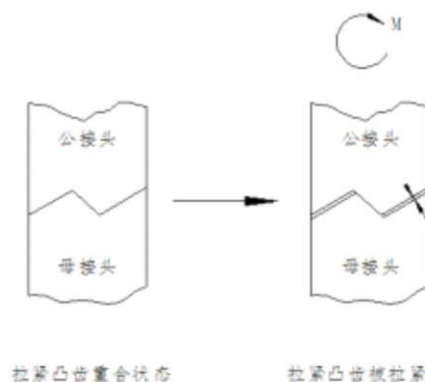
随钻安全装置 (发明专利号: ZL 2014 1 0168343.9)

Safety Sub



钻具随钻安全装置, 是一种钻具应急安全脱扣工具。当井内发生卡钻需要脱扣时, 可以很容易地从它本体联接螺纹处倒开, 起出公接头以上钻具或仪器。其本体采用特殊宽锯齿形螺纹联接, 设计有巧妙的拉紧结构, 如右图, 联接时只需施加一定的扭矩即构成一刚体, 当井下钻具遇卡需应急脱扣时, 从地面上给予大于联接扭矩40%以上, 且方向相反的扭矩, 即可轻松脱扣。

The HSU type drilling Safety Sub is a kind of emergency safety withdrawal tool. When a jam occurs in the well and needs to be tripped, it can be easily reversed from the connection thread of its body, and the drilling tool or instrument above the male joint can be pulled out.



特点 Features & advantages

1、与钻柱连接下井使用时, 两端接头螺纹紧扣扭矩应和钻柱的紧扣扭矩一致。

Clean and lubricate threads and faces and only apply make-up torque same as other tool of string.

2、倒扣时, 应施加10~20kN的压力, 决不能在受拉力的状态下倒扣, 这样会损坏螺纹, 也不易倒扣。

When back-off the sub, make sure 10~20kN forces applied and no tension on drill string which will damage threads of tool

3、倒扣时, 应停泵后稍活动钻具, 决不能在开泵的状态下倒扣, 这样防退扣机构紧死, 无法倒扣。

Stop pump and move string slightly to ease process.

技术参数 Specifications

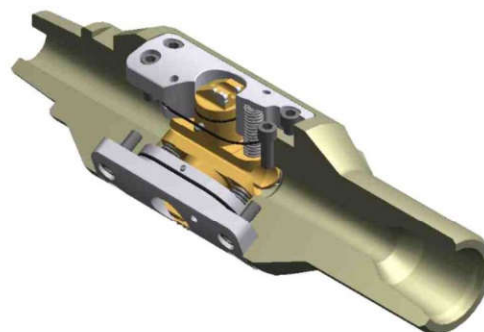
型号规格 Model	外径 O.D. (mm)	上端扣型 Upper Connection (API)	下端扣型 Lower Connection (API)	通径 I.D. (mm)	最大工作扭矩 Max. Working Torque (KN·m)	最大拉载荷 Max. Working Load (KN)	上扣扭矩 Make-up. Torque (KN·m)
HSU46	121	NC38	NC38	36	18.0	1315	19.6
HSU65	165	NC50	NC50	45	30.0	1950	49.0
HSU67	172	NC50	NC50	54	32.0	2040	50.8
HSU80	203	6 5/8 REG	6 5/8 REG	71.4	36.0	2300	60.0

钻具扩眼器 (专利号:Z;L2015 2 0321559.4)

KYQ Joint

KYQ型是一种柱塞式的微扩眼工具,可用于断铣和导斜开窗侧钻工艺中,也可用于井眼缩径、井壁修复等井眼保径作业中,以提高井眼质量

KYQ Joint is a kind of plunger type micro reaming tool, which can be used in cutting milling and deflecting window sidetracking process, as well as in undergauged interval, so as to improve the quality of the wellbore.



特点 Features & advantages

1、整体式结构,维护简单,安全可靠高

Integral structure brings robust and durable on harsh well condition

2、停泵后,刀体回缩,不影响起下钻

Automaticly draw blades back back when circulation stop

3、进口复合片切屑齿,寿命更长

Improved durability with high strength compound cutting teeth

技术参数 Specifications

型号规格 Model	本体外径 Body O.D. (mm)	扩眼尺寸 Ream Size (mm)	水眼 I.D. (mm)	接头螺纹 Connection (API)
KYQ121	121	146-175	38	NC38
KYQ165	165	188-216	51	NC50
KYQ178	172	188-216	57	NC50
KYQ203	203	216-245	71.4	6 5/8 REG
KYQ229	229	311-343	76.2	7 5/8 REG



扭力冲击器

Rotational Impactor



扭力冲击器可以将泥浆的流体能量转换成周向的、高频的、均匀稳定的机械冲击，并直接作用在PDC钻头上，使钻头能在旋转切削钻进的同时，辅助以冲击破碎岩层，以保证井身质量和提高机械钻速。

The Rotational Impactor can convert the fluid energy of the drilling mud into high frequency circumferential mechanical shock evenly and stably, and act directly on PDC, so that the bit can break the rock while rotary cutting drilling, which ensure the well bore quality and improve the ROP.

特点 Features & advantages

1、消除粘滑现象，减少反冲扭力

Eliminate stick slip and reduce recoil torque

2、提供额外的高频的周向冲击，提高PDC破岩能力

Provide additional high frequency circumferential impact to improve PDC drilling capacity

3、内部结构通畅，保证泥浆流动能量不会流失

No loss of mud energy because of the unobstructed bore

4、纯机械构造，无橡胶元件，无电子元件

Full mechanical structure, no rubber, no electronic component

技术参数 Specifications

型号 Model	基体外径 Body Dia. (mm)	连接螺纹 Connection (API)	工作压降 Pressure drop (Mpa)	适用井眼 Applicable Hole (mm)	推荐流量 Recommended Flow-Rate (L/s)	推荐钻压 Recommended WOB (KN)
5"	133.3	3 1/2 REG	1.5-3	5 1/2"~7"	11~24	70~100
6 1/2"	180.1	4 1/2 REG	1.5-3	7 1/2"~9 1/2"	22~32	100~140
11"	279.4	6 5/8 REG	1.5-3	12 1/4"~13 1/2"	35~50	150~220

泥浆防溅阀 (专利号:ZL2013 2 0870824.5)

Mud No-splash Valve

方钻杆型:



顶驱型:



加入滤网:



泥浆防溅阀是石油、天然气及地质勘探钻井工程中,在接单根卸开方钻杆之后防止钻井液从方钻杆水眼内流到钻台上的一种工具。

Mud No-splash Valve is a kind of tool to prevent drilling fluid from flowing from the Kelly to the drill platform when make a connection.

技术参数 Specifications

1、规格型号Model: FJF165-NC50, FJF168-NC50, FJF178-520×521

(扣型可根据用户需要订做,需在订单中说明)

2、开启压力: $\leq 2.0\text{MPa}$ 反向开启压力: $\leq 0.9\text{MPa}$

3、运行压力降: $\leq 0.7\text{MPa}$ 、剪切销钉压力: 15-16 MPa

4、工作环境温度: $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$

5、循环介质温度: $0^{\circ}\text{C} - 100^{\circ}\text{C}$

6、抗拉强度: $\geq 965\text{MPa}$

7、最大抗拉能力: 250T

8、阀体最大承压: 35 Mpa

旋塞阀 (专利号: ZL 2017 2 0854990.4)

Kelly & Top Drive Plug

旋塞阀是防止井喷的有效工具之一,属于内防喷工具范畴,包括有方钻杆上、下旋塞和顶驱手动、液动旋塞。

Plug is manual control valve in the drill string circulation system, and one of the effective tools to prevent blowout. It includes upper & lower Kelly plugs and top drive upper & lower plugs.



特点 Features & advantages

1、采用硬质合金喷涂和表面涂层工艺,质量可靠、寿命长

The valve achieves a reliable quantity and long service life by using professional surface treatment, like carbide spraying, PVD.

2、专利技术,材料、结构优化设计,实现带压开启

Patented Technology: material and structure be redesigned optimized, and lower switch torque

3、设计有与防溅阀配合使用的专用结构,实现顶驱防溅系统

A special structure is designed to cooperate with the Mud No-splash Valve to realize the top-drive anti splash system



顶驱液动阀
Top Drive Plug

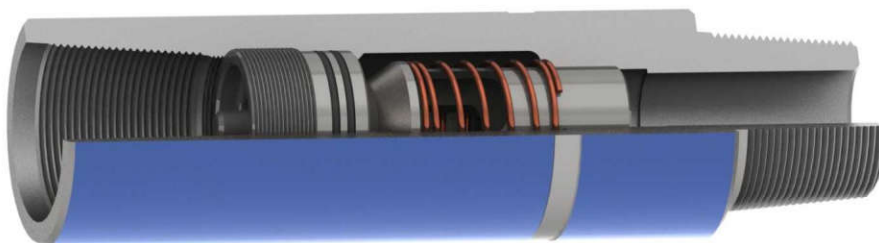
技术参数 Specifications

型号 Model	外径 O.D. (mm)	水眼 I.D. (mm)	总长 Overall Length (mm)	接头螺纹 Connection (API)
XS121(127)/70	121(127)	50.8	590	NC38
XS121(127)/105	121(127)	50.8	590	NC38
XS165/70	165	71.4	610	NC50
XS165/105	165	57.2	610	NC50
XS178/70	178	71.4	625	5 1/2 FH
XS178/105	178	57.2	625	5 1/2 FH
XS197(203)/70	197(203)	76.2	610	6 5/8 REG LH
XS197(203)/105	197(203)	71.4	610	6 5/8 REG LH

注:本表为方钻杆上、下旋塞参数,顶驱旋塞根据顶驱厂家和尺寸而定(略),也可根据用户需求订做

箭形止回阀

Arrow Back-pressure Valve



箭形止回阀具有防止高压油气从钻具内喷出的功能，是一种重要的钻柱内防喷工具。

Arrow Back-pressure Valve is a sort of pipe inside blowout preventer. It adopts arrow valve structure. It's directly connected to drill stem, and can prevent high-pressure oil stream from blowing out from drilling tool.

特点 Features & advantages

1、密封表面喷焊合金层，高耐冲刷；

Alloy layer bearing surface for long term capability

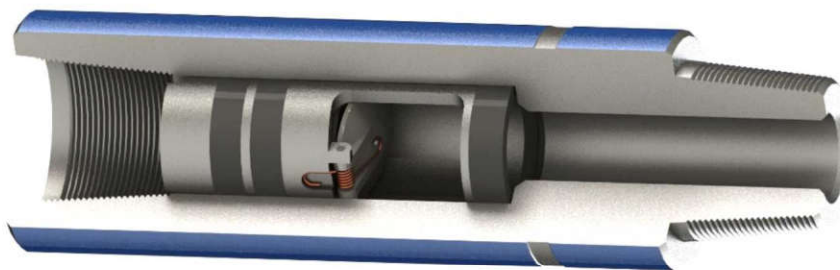
2、阀芯尺寸标准化，便于维护、更换

Standard assembly components ensure easy and quick maintenance

技术参数 Specifications

型号 Model	外径 O.D. (mm)	水眼 I.D. (mm)	总长 Overall Length (mm)	接头螺纹 Connection (API)	工作压力 Working Pressure Mpa
FJ121	121	48	610	NC38	35/70/105
FJ127	127	48	610	NC38	
FJ133	133.35	48	610	NC40	
FJ140	139.7	48	610	NC40	
FJ165	165	63.5	610	NC50	
FJ178	178	70	650	5 1/2 FH	
FJ203	203	75	700	6 5/8 REG	

钻具浮阀 Float Sub



钻具浮阀是一种重要的钻柱内防喷工具, 包括有顶尖式浮阀和翻板式浮阀。

Float Sub is one of the most important drill string not-return valve, which include arrow type and plate type.

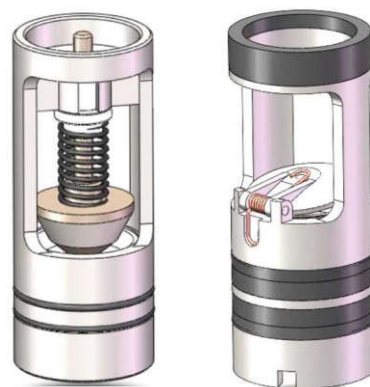
特点 Features & advantages

1、全金属密封, 耐冲蚀

Full metal sealing structure, erosion resistance

2、合金密封面, 寿命长

Alloy sealing surface, long service life



技术参数 Specifications

型号 Model	外径 O.D. (mm)	水眼 I.D. (mm)	总长 Overall Length (mm)	阀芯代号 Valve Assembly	接头螺纹 Connection (API)	工作压力 Working Pressure Mpa
FF121	121	48	610	3 1/2 IF	NC38	35/70/105
FJ127	127	48	610	3 1/2 IF	NC38	
FJ165	165	63.5	610	4R	NC50	
FJ178	178	70	650	5R	5 1/2 FH	
FJ203	203	75	700	5F-6R	6 5/8 REG	
FJ229	229	75	700	5F-6R	7 5/8 REG	

旁通阀

Bypass Valve



旁通阀是一种简单实用的应急工具,在钻井中发生溢流、钻头水眼堵塞或需要进行堵漏作业时,可打开该阀进行旁通循环。

Arrow Back-pressure Valve is a sort of pipe inside blowout preventer. It adopts arrow valve structure. It's directly connected to drill stem, and can prevent high-pressure oil stream from blowing out from drilling tool.

特点 Features & advantages

1、内置剪销,使用更安全

The shear pin is placed inside, which makes it safer to work

2、孔口喷焊合金,投球座封可靠

The head of bore is sprayed with alloy, which makes it more reliable to seal & shear

技术参数 Specifications

型号 Model	外径 O.D. (mm)	水眼 I.D. (mm)	总长 Overall Length (mm)	匹配的钢球直径 Ball Dia (mm)	接头螺纹 Connection (API)	工作压力 Working Pressure Mpa	剪切压力 Shear Power Mpa
PT121	121	45	535	SΦ50	NC38	35/70/105	9-11
PT127	127	45	535	SΦ50	NC38		
PT133	133.35	45	560	SΦ50	NC40		
PT140	139.7	45	560	SΦ50	NC40		
PT165	165	51	610	SΦ55	NC50		
PT178	178	60	630	SΦ63.5	5 1/2 FH		
PT203	203	60	650	SΦ63.5	6 5/8 REG		
PT229	229	60	675	SΦ63.5	7 5/8 REG		

板式强磁打捞器

Plate Magnetic Fisher



板式强磁打捞器用于打捞井下任何形状的小型铁磁性落物

Plate Magnetic Fisher can be used to catch downhole small magnetic absorption falling objects of any shape.

特点 Features & advantages

1、设计有循环通道

Circulation tunnel available

2、磁铁在半圆筒内呈多层排列, 增强磁场强度, 增大接触面积

Deployment of multi-level magnetic pattern to boost magnetic field intensity and amplify contact area.

3、磁铁置于打捞筒外壳的保护之中, 不易破碎

External sleeve protection to avoid magnetic damage

4、底部堆焊铣齿, 可进行辅助研磨

With milling teeth on bottom to grinding

技术参数 Specifications

型号规格 Model	外径 O.D. (mm)	适用井眼 Hole Size (mm)	使用温度 Working Temp. (°C)	最高温时 最大滑脱吸力 Max. Slip Force at Max. Temp. (KN)	最大工作钻压 Max. Compression (KN)	最大工作扭矩 Max. Working Torque (KN·m)	温度衰减率 Decay Rate of Temp. (%)	接头螺纹 Connection (API)
BCL/C116	116	120	≤160	2.9	10	6	≤0.05	NC31
BCL/G116	116	120	≤250	2.6	10	6	≤0.12	NC31
BCL/C146	146	152-165	≤160	4.4	15	10	≤0.05	NC38
BCL/G146	146	152-165	≤250	4.0	15	10	≤0.12	NC38
BCL/C200	200	216	≤160	7.4	20	15	≤0.05	NC50
BCL/G200	200	216	≤250	6.7	20	15	≤0.12	NC50
BCL/C286	286	311	≤160	9.1	26	20	≤0.05	NC50
BCL/G286	286	311	≤250	8.4	26	20	≤0.12	NC50

螺旋扶正器

Integral Spiral Stabilizer



LX型整体螺旋扶正器分为钻柱型和井底型，螺旋扶正翼面硬度高、韧性好、耐磨性强。

Model "LX" Integral Spiral Stabilizer is divided into drill string model and near bit model. It's characterized by high hardness, good toughness and wear resistance of the spiral rib belt, as well as long service life.

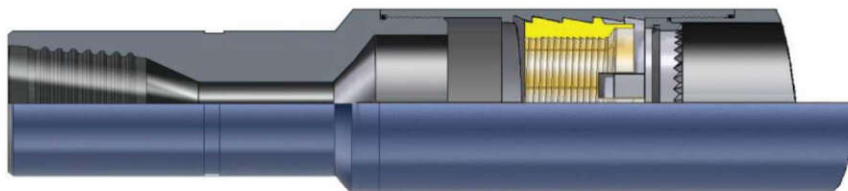
技术参数 Specifications

适用井眼 Hole Size (mm)	工作外径范围 Working O.D. (mm)	工作外径 最小长度 Blade Length (mm)	接头外径 Body Dia. (mm)	水眼直径 I.D. (mm)	扶正条数量 Blade Quantity	上端接头 最小长度 Upper Body Length (mm)	下端接头最小长度 lower Body Length (mm)	
							外螺纹 Pin	内螺纹 Box
152.4	130-152.4	305	121	50.8	3	760	600	450
165.1	153-165.1	305	121	50.8	3			
215.9	191-215.9	406	165 172	71.4	3			
244.5	216-244.5	406	172 203	71.4	3			
311.1	245-311.1	457	203	71.4	3或4			
508.0	394-508.0	508	241	76.2	3或4			
660.4	508-660.4	508	241 279	76.2	3或4			

接头外径 Body Dia.	钻柱连接螺纹代号 Thread when Connect to Drill String	近钻头下端母螺纹代号 Thread when Connect to Bit
121	NC35, NC38	3 1/2 REG
165	NC46, NC50	4 1/2 REG
171	NC50	4 1/2 REG
203	6 5/8 REG, NC56	6 5/8 REG, 7 5/8 REG
241-279	7 5/8 REG, NC61, NC77	7 5/8 REG, 8 5/8 REG

可退式卡瓦打捞筒

Releasing and Circulating Overshot



LT-T型可退式卡瓦打捞筒是用于抓捞落鱼光滑外径最有效的工具，能高压循环，也能在井内释放落鱼。

Model "LT-T" Releasing and Circulating Overshot is an external fishing tool used for catch the fish with smooth external surface. Its circulation can be carried out under high pump pressure and the fish can be released on the inside of well

可退式卡瓦打捞矛

Grapple Releasing Spear



LM-T型可退式卡瓦打捞矛是从落鱼内孔进行打捞的工具，其结构简单、性能稳定、强度高。

Model "LM-T" Grapple Releasing Spear is an internal catch fishing tool.

因为有你 同一个团队 同一个梦想 所以精彩

THE SAME TEAM THE SAME DREAM



逐梦前行 领航未来

PURSUE THE DREAM LEAD THE FUTURE





泥浆防漏产品使用报告

1. 在钻井过程中，使用泥浆防漏产品，可以有效防止井漏，保证钻井安全。

内放喷工具使用证明

中石化国际工程股份有限公司在胜利油田地区进行钻井作业

2. 在钻井过程中，使用内放喷工具，可以有效防止井漏，保证钻井安全。

使用报告

山东胜利石油技术有限公司设计生产的100mm全金属管接头和215mm非金属管接头，经过现场使用证明，该工具质量长，对套管保护效果明显。

中原石油工程有限

水力加压泵使用证明

胜利油田在胜利油田地区进行钻井作业时，使用水力加压泵，可以有效防止井漏，保证钻井安全。

2. 平均机械效率有大幅提高，使用水力加压泵时钻速比常规钻速提高30%以上，钻速的提高，对钻井安全有重要意义。

3. 在水力加压泵工作过程中，钻头上的钻压为一个定值，工具面的变化取决于钻头上的钻压大小，钻压一定，即可保持相对稳定的工具面，有利于定向钻进。

4. 综合分析，水力加压泵设计合理，性能稳定，对提高机械钻速，保护钻头效果尤为明显，建议在胜利油田地区广泛推广应用。



业绩证明

关于双向减震器的使用情况证明

河坝1-10井上部地层钻速经常发生，自使用山东胜利石油技术有限公司双向减震器后，钻速明显提高，极大地减轻了钻井难度。

山东胜利石油技术有限公司53-22井应用证明

53-22井是一口生产井（定向井），构造位置：济阳坳陷沾化凹陷

53-22井进行了水力加压泵的应用，应用

试验数据证明：2491.00-3182.00米（一

）：Φ215.9mmPDC钻头+Φ171.5mm.25' 单

重Φ158.8mm钻杆27m+Φ127mm加重钻

杆Φ127mm加重钻杆21m+Φ127mm钻杆，工具

面加入水力加压泵后WD-140信号传输正

常，工具入井正常循环工作钻速156

米/小时，钻速提高，深度相同和钻速相

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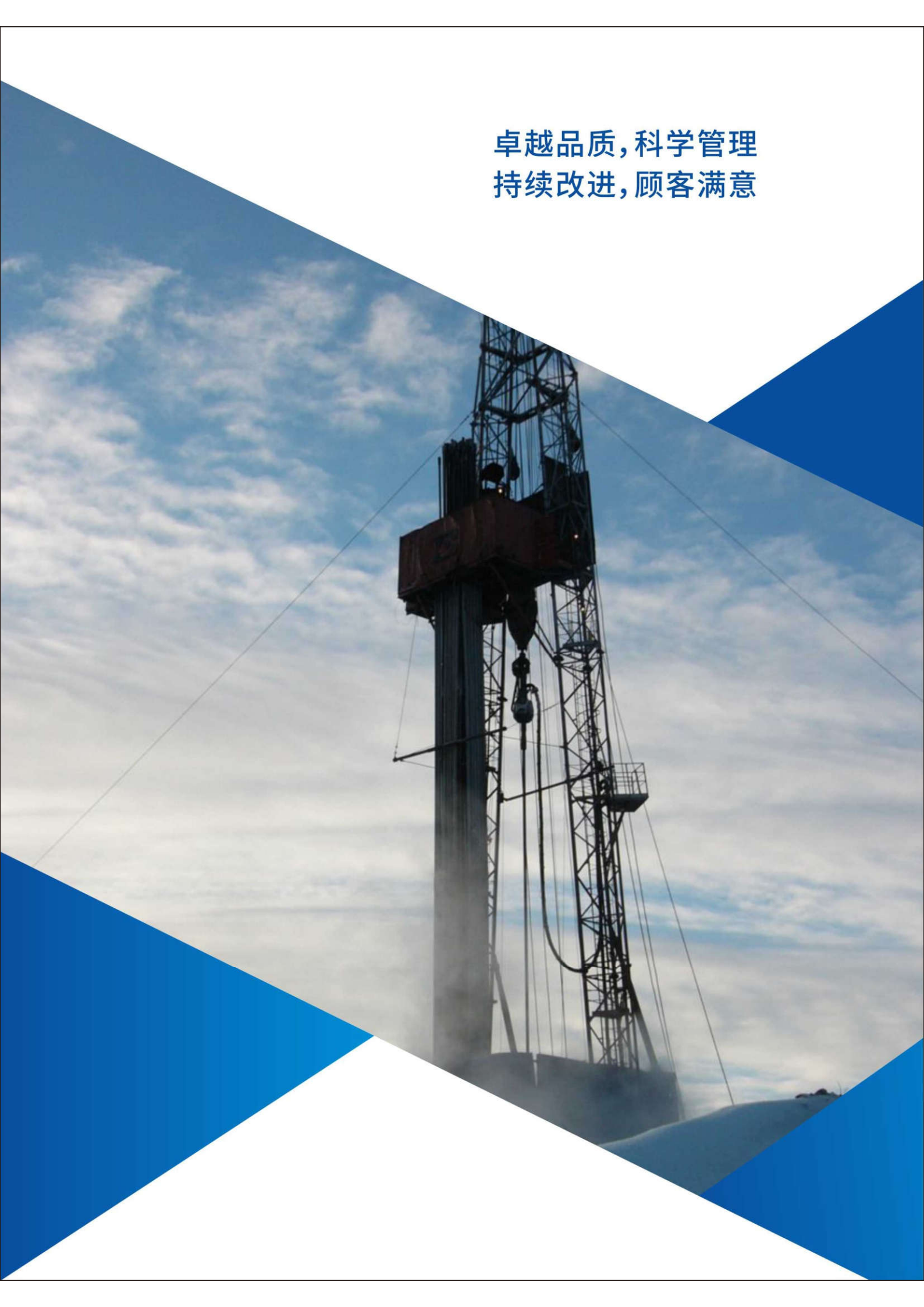
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同，钻速提高，深度相同和钻速相

卓越品质, 科学管理
持续改进, 顾客满意



山东伟创石油技术有限公司

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四川伟创石油装备制造有限公司

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