ANTON 安東

资产租赁及技术服务公司

Asset Leasing & Technical Service Company

安东通奥科技产业股份有限公司

Anton TongAo Technology Industry Co.Ltd

Catalog

Introduction to Anton Asset Leasing & Technical Service Company

Anton Asset Leasing & Technical Service Company (hereinafter referred to as "Anton Leasing") is committed to building a global oil and gas exploitation resource sharing and financial leasing service platform, providing high-quality and efficient asset resource services for oilfield customers, helping partners improve the utilization efficiency of asset resources, enable cooperation and common development, so as to maximize the benefits of multi-party assets.

Service scope

Anton Leasing

- Drilling Tool Leasing
- Drilling Equipment Leasing
- Oilfield Production Equipment Leasing
- Oilfield Production Facility Leasing

- Provide integrated oilfield equipment and facilities investment construction and leasing services, covering drilling tool leasing services, drilling equipment leasing services, oilfield production equipment leasing services, and oilfield production facilities leasing services
- Possess a complete risk assessment system, professional technical services and information-based asset management capabilities, and the ability to carry out selection, evaluation and testing, upgrading and transformation, and operation management of oilfield equipment and facilities
- Established a comprehensive market network, with business in 20 countries and regions, with multiple service bases and supporting service capabilities at home and abroad, forming a fast-response global service support system
- Cooperate with domestic and foreign first-class manufacturers, banks and professional financial leasing companies, have strong industry resources to drive capacity, support the provision of more comprehensive products around the world, and develop a larger range of integrated services

Technical advantages

- Professional management team, rich experience in leasing services
- Integrated service model, fast global service response
- Standardized quality management, information-based asset management

Scope of application

- Equipment and facility leasing services for the entire process of oil and gas exploration and development

Service performance

- Developed asset leasing services for more than 20 years, with more than 100 customers worldwide, leading the industry in customer satisfaction

Drilling Tool Leasing

Anton Leasing Company has specialized in drilling tool leasing for 20 years and is the most powerful drilling tool leasing service provider in China.

Service scope

Drilling Tool Leasing

- Drilling tool integration service
- Drilling Tool Leasing
- Drilling Tool Detecting, Repairing and Anti-corrosion Service
- Speed-up Tool Leasing
- Fishing Tool Leasing

- It has 120,000 drill tools of various types and more than 10,000 tools of various types, and has the ability to provide integrated drill string leasing services
- Provide integrated services such as drilling tool rental, testing, repair, anti-wear, anti-corrosion, warehousing and logistics
- Built multiple service bases and supporting inspection and maintenance service capabilities at home and abroad to provide customers with convenient services
- Complete risk control system, with API Q2, DNV, CNAS, CMA, ASNT and other certification qualifications
- Integrate customers' idle resources, cooperate and empower, increase customer return on assets, and reduce asset risks

Technical advantage

- In addition to conventional API drilling tools, high steel grade, high tensile and torsion resistance drilling tools are also provided to meet the needs of deep and ultra-deep well operations
- A team of professional drilling experts and engineers determine the optimal drilling tool assembly and tool selection according to different stratum conditions, as well as supporting speed-up tools to improve drilling efficiency
- With special tool repair, special thread processing, fishing tool design and processing capabilities, and provide one-stop solutions
- Professional service team of patrol engineers, quickly solve the problems in the use of drilling tools
- Use information technology to build a drilling tool management information system to realize drilling tool life cycle management

Scope of application

- Suitable for drill strings, wellhead tools, Downhole tools, fishing tools, etc.

Service performance

- The service covers 20 countries and regions, including China, the Middle East, Africa, Central Asia, Southeast Asia, and Latin America, with a total of more than 800,000 drilling tools leased, providing customers with a full range of drilling tool rental services, which are highly appreciated by customers

Drilling Equipment Leasing

Anton Leasing Company provides total package service and individual equipment leasing service of drilling equipment.

Service scope

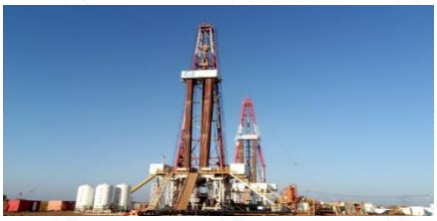
Drilling Equipment Leasing

- Rig Leasing
- Top Drive Leasing
- Blowout Preventers Leasing
- Other drilling equipment rental

- Various types of drilling rigs, blowout preventers, top drives and other drilling equipment
- Complete supply chain management system, using Internet, big data analysis and other information technology to meet customer customized drilling equipment service needs
- Provide drilling equipment supervision services, energy reduction transformation, operation maintenance, technical support, spare parts supply, contract operation, financial leasing and other integrated services
- A globalized resource sharing and financial leasing service platform provides customers with high-quality and efficient resource services, helps partners improve resource utilization efficiency, and maximizes multi-party asset benefits

Technical advantages

- Cooperate with many domestic and foreign drilling equipment suppliers to carry out various forms of leasing and maintenance technical services
- A professional team with rich experience in drilling equipment management and technical services
- Implement standardized quality management and technical management to create greater value for customers through cost reduction and efficiency enhancement



Scope of application

- For all kinds of drilling requirements
- Suitable for the exploitation of various oil and gas fields

Service performance

- Serving China, Kazakhstan, Turkmenistan, Uzbekistan, Major oil fields in countries and regions such as Iraq and Colombia,Rich experience in drilling equipment leasing

Leasing of Oilfield Production Equipment

Anton Leasing company provides a full range of oilfield production equipment and supporting services.

Service scope

Oilfield Production Equipment Leasing

- Fracturing Equipment Leasing
- Coiled Tubing Equipment Leasing
- Workover Equipment Leasing
- Other production equipment leasing

- Provide a full range of supporting services and solutions in oilfield production link with various types of fracturing pump sets, coiled tubing, workover rig and other equipment
- Provide equipment service required for fracturing, drilling and grinding, logging, acidizing, blasting perforation, plugging, cutting and other types of operations
- A platform of resource sharing and financing leasing serving. Provide excellent resource sharing service to customers and help partners improve application efficiency of asset, realizing the maximum benefit of various assets

Technical advantage

- Services such as equipment selection, equipment matching, equipment evaluation, upgrading and transformation according to customer needs
- Complete supply chain management system, using Internet, big data analysis and other information technology to meet customer customized drilling equipment service needs
- Technical personnel and financial leasing professionals required for oilfield equipment technical services, provide technical services and consulting design services for oilfield equipment and facilities, and enhance the added value of technology

Range of application

- Suitable for the exploitation of various oil and gas fields

Service performance

- Serving China, Pakistan, Kazakhstan, Turkmenistan, Uzbekistan, Iraq, Colombia and other countries and regions Major oil fields have experience in equipment leasing.

Leasing of Oilfield Production Facilities

Anton Leasing Company provides leasing services for investment and construction of oilfield production facilities.

Service scope

Oilfield Production Facility Leasing Services

- Leasing Service for Production Base Construction
- Leasing Service for Plant Construction
- Leasing Service for Ground facility construction
- Leasing Service for Construction of other production facilities

- Provide construction and leasing services for oil and gas treatment facilities, power plants, well stations, pipeline operation and maintenance facilities, production facilities
- Provide upgrade, operation and maintenance service and general contracting services of surface facilities in oil and gas fields
- A platform of resource sharing and financing leasing serving. Provide excellent resource sharing service to customers and help partners improve application efficiency of asset, realizing the maximum benefit of various assets

Technical advantage

- API workshop standardization base construction technical services with independent intellectual property rights, realizing a full range of maintenance services for oilfield production equipment, drilling and completion tools
- Possess an international oilfield management team and large-scale oil and gas field development management experience and the ability to build oilfield production facilities
- Possess the technical personnel and financial leasing professional team required to construct oilfield facilities, provide consulting and design services and financial services

Range of application

- Suitable for operation and maintenance of various oil and gas fields

Service performance

- Serving China, Kazakhstan, Turkmenistan, Uzbekistan, Major oil fields in Iraq, Colombia and other countries and regions Have experience in oil and gas field operation management

Special technical service

Drilling Tools Maintenance Technical Services

Anton Leasing company has been engaged in drilling tool maintenance services for more than 20 years, providing various drilling tool repair and processing services to help customers improve efficiency of asset use and maximize asset value.

Service scope

Drilling Tools Maintenance Technical

- Drill Pipe
- Motor
- Downhole Tools
- Wellhead Tools
- Fishing Tools
- Milling Tools
- Special Thread

- There are advanced API standardization workshops, perfect repair technology and service quality control system at home and abroad to provide customers with one-stop service for drilling tool inspection and maintenance
- With rich operating experience and technical support team, provide equipment transformation and process optimization and upgrade
- With advanced tool disassembly, testing and maintenance equipment, provide customers with diversified tool repair services
- Have a high-quality professional repair team, provide drill tool repair business general contracting and personnel labor services

Technical advantage

- All kinds of drilling tools special thread authorization, through advanced special CNC lathes, imported tools, special gauges and measuring tools, the repair quality is reliable
- The self-developed mobile skid-mounted modular repair system can provide drilling tool repair services at the well site
- Obtained a number of national thread repair patent technologies to improve drill tool repair efficiency

Range of application

- All kinds of drill thread repair processing, straightening, anti-wear
- All kinds of drilling tools and fishing tools are repaired and processed

Service performance

- Serving oil fields in China, Kazakhstan, Turkmenistan, Uzbekistan, Iraq, Colombia and other countries
- Accumulatively repaired 500,000 threads of various drilling tools and 50,000 tools



Drilling Tool Anti-wear Technical Services

Anton Leasing Company specializes in anti-wear technical services for oil drilling tools, and can provide anti-wear processing services for drill tool joints.

Service scope

Drilling Tool Anti-wear Technical Services

- Drill Pipe
- Weighted Drill Pipe
- Drill Collar
- Welding Materials Sale
- Welding Machine Sale

Technical advantage

- Self-developed FYH series wear - resistant belt automatic welding equipment with stable performance and high welding quality
- Provide professional ARNCO series flux cored wire welding service and high wear resistance alloy powder welding service
- Provide upgrade and repair services for wear-resistant special welding machine
- Provide wear-resistant belt special welding machine upgrade transformation, maintenance services
- Provide well-site wear-resistant belt processing services using skid-mounted wear-resistant belt welding equipment

Technical advantage

- Effectively reduce drilling resistance and increase speed
- Full-size drill pipe, heavy duty drill pipe and drill collar wear-resistant processing service
- Provide welding wire, welding powder and welding machine sales
- With 10 professional welding service teams, daily welding capacity is more than 1000

Range of application

- Suitable for protecting drilling tools and reducing drilling tool wear

Service performance

- Serving oil fields in China, Kazakhstan, Turkmenistan, Uzbekistan, Iraq, Colombia and other countries
- A total of 500,000 welded drilling tools

Vertical Rotary Steerable Device

The vertical steering tool is mainly used to ensure the vertical trajectory of oil Wells, the quality of the well reaches the standard, and provide a better environment for the subsequent drilling and production process during the drilling process. It is one of the high-tech automation equipment in the field of petroleum engineering, which is related to the safety, production and cost of oil Wells.Compared with conventional drilling tools, vertical steering tools are not restricted by the formation, have a large weight on bit, high safety, good anti- (correction) deflection effect, and a ROP can be increased by more than 50%.

At present, our company's vertical drilling tools are mainly divided into two categories: mechanical vertical drilling tools and electronic vertical drilling tools.

Mechanical Vertical Drilling Tools

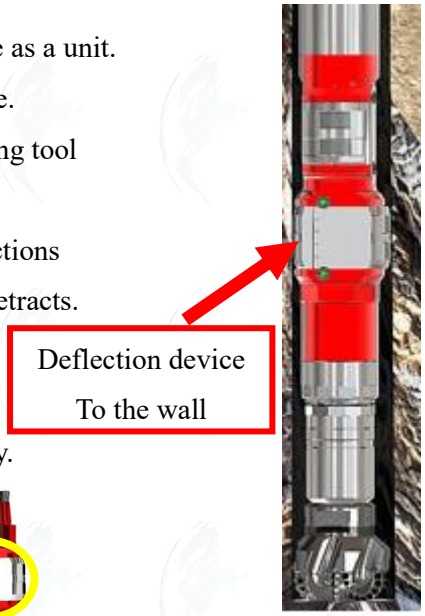
Principle, Structure

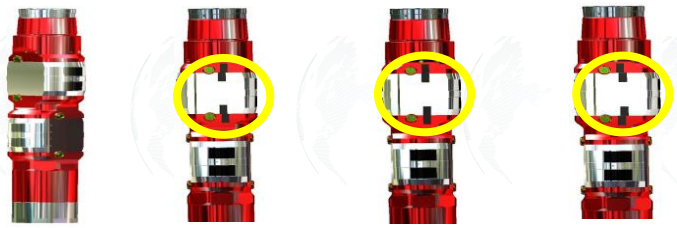
The vertical drilling system is a purely mechanical drilling tool. There is a set of pendulum device inside the tool. Once the well deviation is greater than 0.3 degrees, the pendulum device will offset the axis of the drilling tool, so that part of the mud flowing through the tool depends on the pressure difference between the inside and outside of the mud to push and push. The plate is pushed out to the high side of the wellbore, so that the well wall generates a reaction force to push the tool to shift to the low side. This process does not require any instructions from the ground.

The mechanical vertical drilling tool adopts a brand-new design, which is different from any push and lean system. It consists of two sets of control units (a total of 4 push plates), which are located at the lower end of the tool, arranged along the axis, and separated by 90° distributed. This unique design greatly increases the annulus flow area at the pushing unit, improves the flow pattern of the mud, and reduces the risk of blocking downhole drilling tools.

Principle of operatio

- Every two push plates are connected by a hook connection and move as a unit. This structure avoids the risk of abrasion and falling of the push plate.
- When the push plate is extended, the centralizer on the vertical drilling tool is used as a fulcrum to force the drill string to run vertically.
- The two push plates of the same unit are distributed in opposite directions and interlocked. When one push plate extends, the other push plate retracts.
- Pushing the plate will not cause the borehole to expand.
- When encountering a borehole shrinkage, regardless of whether there is a circulation, the push plate will shrink appropriately.





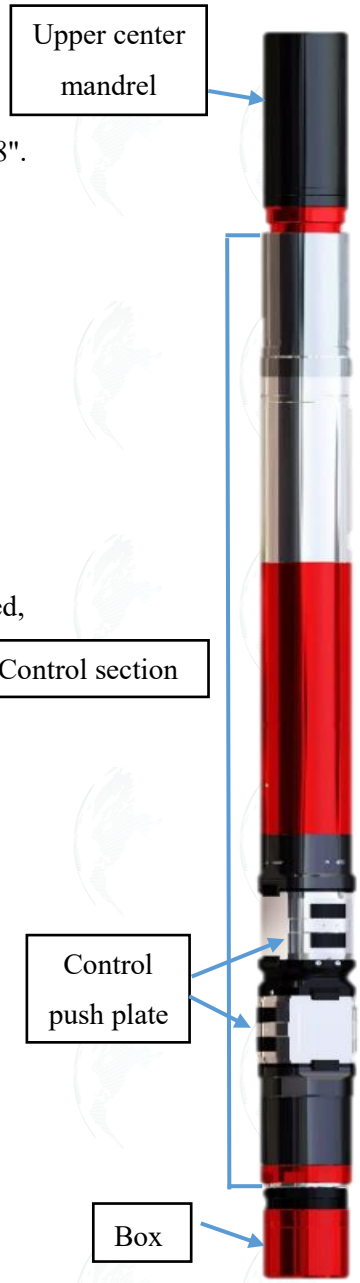
Drill tool assembly

- Can be used for rotary drilling
- Use with motor to increase drilling speed
- The drilling pressure and speed are not limited, and the best drilling effect can be achieved
- This tool is suitable for a variety of complex drilling conditions, and has a good declination effect in salt formations, gravel-bearing formations, highly abrasive formations, and formations with high inclination angles.

Note: The size of the first centralizer connected to the vertical drill tool is very important and must be configured in strict accordance with the required size.

Technical advantages

- The push plate is designed as upper and lower parts, which increases the annulus and reduces the risk of stuck drill.
- The tool size ranges from 5" to 14", suitable for borehole sizes from 6" to 28".
- Temperature resistance up to 218°C (425°F).
- Compared with electronic rotary steering tools, this tool is more suitable for various harsh drilling conditions.
- Longer working life underground.
- Can be used for conventional rotary drilling, and can also be used in conjunction with a motor.
- The vertical drilling tool is sturdy, reliable and durable, and can be applied to various harsh drilling conditions.
- The maximum weight on bit is not limited, the maximum speed is not limited,
- There has never been an accident of the push plate falling.



Technical characteristics

- Model fully meets 6″-28″ wellbore
- High temperature resistance 218
- Good vibration resistance
- Strong abrasion resistance, the push plate is not easy to fall off
- Configure according to needs, and quickly adjust tools from abroad
- All parts are imported, fast maintenance (24-40Hrs)
- The success rate is as high as >99%

At present, there are 5 strings of 17-1 / 2 "well tools, 6 strings of 13-1 / 8" (12-1 / 4 ") well tools and 4 strings of 6-1 / 2" well tools in Korla base.

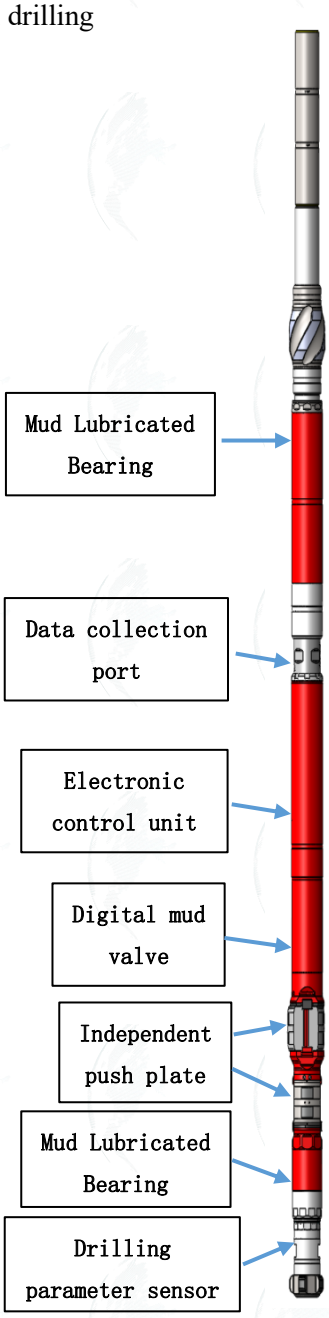
Electronic Vertical Drilling Tools

Technical characteristics

- The electronic vertical drilling system is a new digital rotary steering system based on the original mechanical vertical drilling technology
- Stable mechanical vertical drilling platform is adopted, and reliable numerical control unit and mud valve are included in the design.
- It can be used in 12 1 / 4 "and 13 1 / 8" hole sizes
- Command information can be sent down
- It can be used for increasing inclination, stabilizing inclination and vertical drilling
- The pusher plate can be retracted for smooth reaming and tripping
- The downhole sensor is embedded near the bit end female buckle
- It can be used with motor to improve efficiency

Tool parameters

Tool size	9 5/8″
Motor Size (inch)	12 1/4″&13.1/8″
Build rate	0 to 3 deg/100′
Length	18.22 ft (5.55)
Push plate displacement	11.7″to 13.5″& 12.6″to 14.4″
Max Flow	1,200GPM
Max pressure	20,000PSI
Max temperature	302°F(150°C)
Max WOP	60,000LBS
Rotating speed	400RPM
Button type	6 5/8″Reg 6 5/8″Reg
Maximum dogleg degree that can pass (non-rotating)	12deg/100′
Maximum dogleg degree that can pass (rotating)	8deg/100′
Automatic orientation	Vertical drilling & deviation stabilization
Energy / available time	lithium battery /200h
Delivery method	rotating



Motor

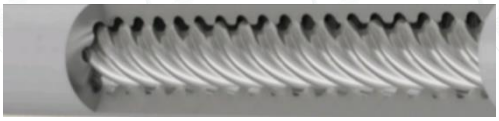
The motors provided by our company mainly include all-metal motors and plastic injection motors.

Tool features

- Customized drive ends for major international companies; radial bearing life is 10 times longer than the average industry standard
- RSA is a customized motor for rotary guide, which is suitable for the special requirements of rotary guide
- CAM compound high build rate motor
- Both the outer shell and the inner shaft have angles, which have a higher build rate.
- High torque motor
- High temperature motor

Note: The glue injection motor can reach 204℃, small size metal motor, not affected by high temperature.

Metal motor



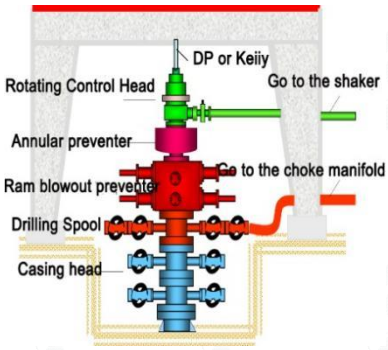
- The power end is made of all metal
- Unrestricted temperature resistance
- Life can be guaranteed for 500-1000 hours according to different working conditions
- Can be customized according to customer needs

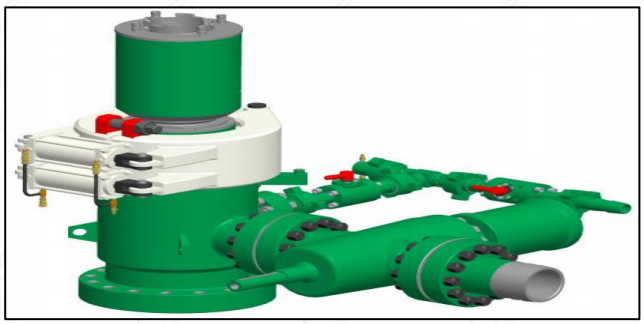
All metal motor parameter table

Motor size	**5″**		**3 1/8″**	**80mm**	**2 7/8″**	**73mm**
Use drill size	5 7/8″-7 7/8″	140-200mm	3 3/4″-4 3/4″	95-120mm	3 3/8″-4 3/8″	85-111mm
Flow	150-400gpm	9.5-25.3l/s	50-250gpm	3.16-15.83l/s	50-200gpm	3.16-12.66l/s
Rotating speed	80-220		190-950		190-760	
Stator-rotor ratio	9/10		9/10		9/10	
Motor stage	4.0		3.8		3.6	
Rotating speed (no load)	0.53rev/gal		/		/	
Rotating speed (full load)	0.20rev/gal		/		/	
Maximum torque	5000ft.lbs	6750n.m	850ft.lbs	1150n.m	750ft.lbs	1013n.m
Maximum pressure drop	2000psi	6900kpa	2000psi	13800kpa	2000psi	13800kpa
Length	21ft	6900mm	155in	3940mm	155in	3940mm
Weight	1050lbs	475kg	265lbs	120kg	290lbs	132kg
Maximum weight on bit	35000lbs	156kn	5500lbs	25kn	5500lbs	25kn
Maximum pull	120000lbs	535kn	57200lbs	260kn	57200lbs	260kn
Top button type	3 1/2″REG/IF		2 3/8″REG/2 7/8″PAC		2 3/8″PAC	
Bottom button type	3 1/2″REG		3 3/8″REG/2 7/8″PAC		2 3/8″PAC	

Rotating Control Head

The Rotating Control Head, also called the rotating blowout preventer, is a special wellhead control equipment used for special operations such as underbalanced, gas drilling and controlled pressure drilling technology. The rotating control head is installed at the top of the wellhead blowout preventer group. When carrying out drilling under pressure (underbalanced or gas drilling), the rotating control head is used to seal the drill pipe and the kelly, and the drilling tool rotates in under the allowable wellhead pressure. It is used to seal the wellhead annulus in pressure (snubbing) drilling operations and other under pressure operations, and to pass the specified size of the drilling tools and their joints.





Technical advantage

- A set of rotating bearing system is added to the top of the inner cavity of the rotating control head shell base. The upper and lower two sets of rubber cores of the rotating assembly can seal the annulus between the drilling tool and the wellbore in the well
- The rotating assembly allows the kelly to drive the central pipe and the rubber core to rotate at a certain speed within a certain pressure range for drilling operations;
- The rubber core of the rotary control head has different sizes to suit different sizes of drill rods and kelly rods
- When the kelly and drill pipe pass through the rotating assembly, the rubber core generates a pre-tightening force to tighten the drilling tool under the action of its own elasticity, and at the same time obtains another sealing force under the action of well pressure to increase the reliability of the rubber core seal

Technical characteristics

- Under pressure drilling operation; under pressure drilling operation; under pressure replacement rubber core operation

Casing Drive Technology

The casing drive technology provided by Anton can realize the automatic buckle connection of the casing string through the top drive, which can greatly reduce the running resistance and reduce the risk of casing adhesion. The success rate of the casing under place is significantly improved. It is a safer, more reliable, and more efficient method of casing running. Each casing team has an annual service capacity of over 60 wells.

Technical Features:

- Integrated operation (rotation, lifting, circulation), safe and efficient;
- Double-channel lifting of lifting ring/slip, micro-tooth mark technology;
- Interchangeable slip design, a set of devices covering multiple specifications of casing;
- Maximum lifting load 250-450 tons;
- Maximum tightening torque 35-50kN*m;
- Support full casing database intelligent software, automatic report generation; and
- Select the casing specifications, the system automatically executes the best buckling torque.

Application Scope:

It is applicable to many types of wells such as large-displacement horizontal wells, high-angle wells, deep wells, ultra-deep wells and complex wells.

- Compatible with various top drives, such as BPM (North Stone), TianYi, HongHua, Varco, etc.
- Applicable to various types of buttons, such as VAM, Tenaris, API Buttress, Fox, BGT2, TPCQ, etc.

Technical Advantages (compared to the traditional casing method):

- The manual tools such as power tongs and elevators have been cancelled to reduce potential safety hazards;
- Downhole complexes such as leaks and wells can be dealt with in time and have the ability to quickly handle well control risks;
- The casing can simultaneously achieve grouting, pipe string rotation, and drilling fluid circulation while greatly reducing the potential risks of casing resistance and jamming;
- The rolling and grinding of the shaft wall make the shaft wall smoother and the pipe string more centered, which can improve the displacement efficiency and improve the cementing quality.

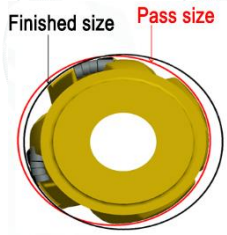
Service Performance:

- 5-1/2″ casing drive service for horizontal shale gas well in Sichuan-Chongqing area, performed over 200 wells per year, the longest horizontal section is 2,897m (completion depth is 5,934.41m);
- Casing drive service for large-displacement well in CNOOC Panyu Oilfield, the maximum depth of casing is 6,114.28 m (vertical depth: 2,420.3m), which is rotated safely and efficiently into the predetermined depth;
- Casing drive technology is widely used in 5″ ~ 13-3/8″ horizontal well in AUG and ANZ blocks in Nigeria, Saskatchewan, Alberta and NOMAC in the United States, serving more than 500 wells.

Micro reaming tool

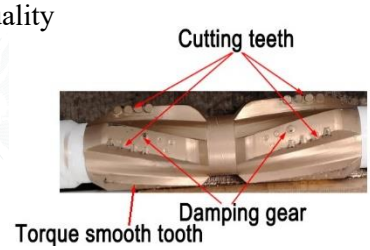
The micro reaming tool (also known as the borehole dressing tool) is an eccentric reaming tool, which is suitable for reaming operations while drilling or for scoring and reaming when drilling. The most prominent feature is the slightly eccentric design, which can pass under-size when entering the well. Not only helps to eliminate smaller dog legs, but also can cope with complex conditions caused by shale formation reduction, well wall trimming, salt creep or complex formations. The tool combines two different cutting structures, so that the tool can perform micro-reaming operations during forward and backward undercutting.

Technical advantage



- Reduce downhole complexity; eliminate redundant drilling, short trip and trip operations, and reduce trip time
- Reduce the number of well-travels and eliminate separate well-travel operations; it has little impact on normal drilling operations
- It can effectively reduce or eliminate the micro-dog legs during the drilling time; it has a stirring effect on the cuttings bed and improves the cleaning effect
- Suitable for all vertical and directional well operation requirements, and can be used with rotary steering tools
- Solve the problem of unsmooth return of cuttings in horizontal wells and highly inclined directional wells and formation of cuttings beds
- Solve the problem of plastic creeping salt paste layer
- Eliminates the need for a separate trip time before tripping to ensure smooth running of casing and screens
- Increase the environmental control gap and improve the cementing quality

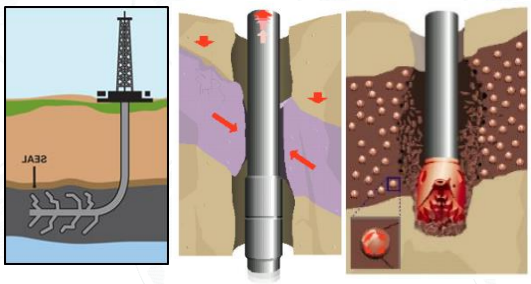
Technical characteristics



- Eccentric design
- Spiral blade + dual cutting structure design
- Structure design of high impact and abrasive resistant cutting teeth + damping teeth + torque smoothing teeth

Range of application

- Directional well, horizontal well drilling
- Soft and hard interlaced stratum in vertical section
- Extended reach well drilling
- Salt paste layer
- Water sensitive mud shale, etc.



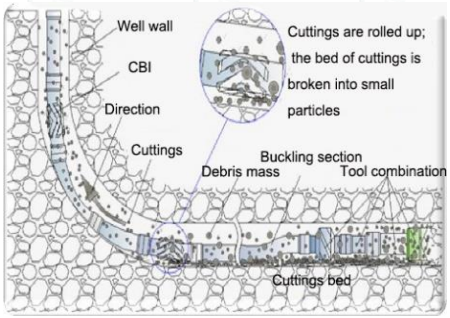
Cyclone Sand Cleaner

With the continuous deepening of the exploration and development process, the proportion of horizontal wells, extended reach wells, highly deviated wells and branch wells is increasing. In the tilting section and the horizontal section, the cuttings particles are subjected to gravity in the vertical direction. If there is no corresponding vertical upward velocity to lift them up, they will easily settle at the bottom of the well wall to form a cuttings bed, resulting in wellbore cuttings. The bed is difficult to clean, and the migration of cuttings particles will cause stratification. By optimizing the hydraulic structure, changing the "swirl flow" to "strong turbulence + swirling flow" to form a stronger cuttings bed destruction ability, coupled with the mechanical removal method combined with the traditional drilling technology, to form a cyclonic sand removal with hydraulic and mechanical coupling. To meet the requirements of drilling wellbore cleaning.

Cyclone Sand Cleaner Second-generation products

Technical advantage

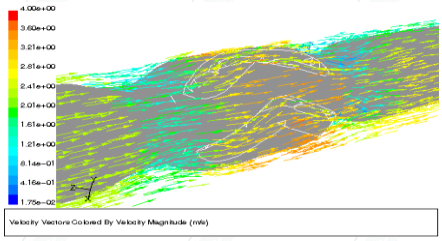
- Can reduce the friction between the drill tool assembly and the borehole wall
- Reduce the degree of wear of the rotating drill string
- Ensure cleaner and more stable underground working conditions
- Avoid complex downhole accidents such as stuck drilling
- Improve drilling efficiency and reduce drilling costs



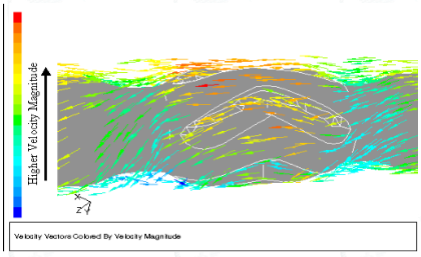
Working principle diagram

Technical advantage

- It is composed of a single part and has a symmetrical structure, which is connected with the drill pipe as one
- The diameter of the turbulent structure (V-shaped turbulent edge) is slightly smaller than the diameter of the drill pipe joint
- Mechanical properties (torsion resistance, tensile resistance) are not lower than drill pipes of the same specification
- High degree of matching with the drill string, can be directly connected with the drill string, easy to operate
- The tool V-shaped turbulent edge can process coatings with different hardness according to the working conditions
- Turbulent flow is applied to the flow field as the drill pipe rotates, and the cuttings bed is destroyed and removed under the coupling action of hydraulic and mechanical



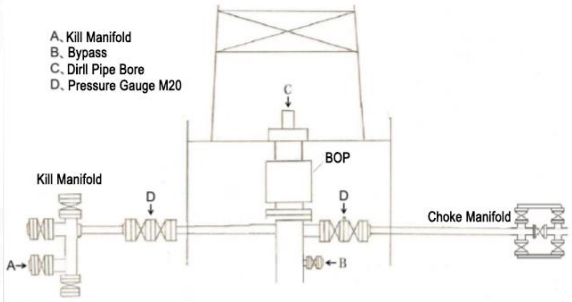
Numeral Calculations



Numeral Calculations

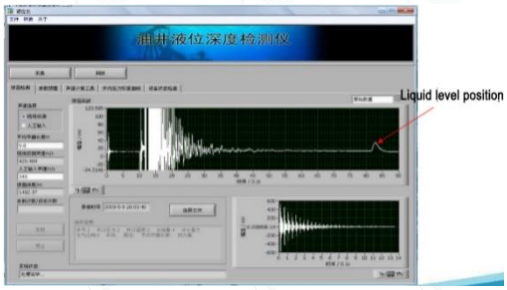
Wellbore Liquid Level Depth Monitoring Technology

During the drilling process, safety accidents such as kick and lost circulation are most likely to occur during tripping and drilling, and it is also the most difficult to monitor this process. This system uses a dynamic liquid level monitor to monitor the mud level in the wellhead, and directly monitors the change in the mud volume in the wellbore by changing the mud level in the wellbore. Scientifically and intuitively predict and judge safety accidents such as well kicks and lost circulation.



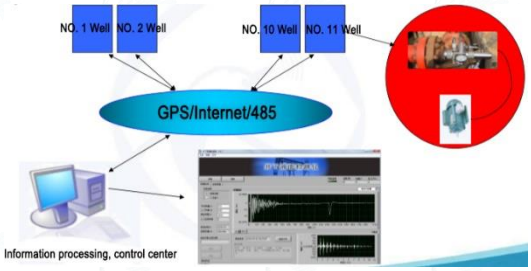
Technical advantage

- The accurate monitoring of the position of the liquid level in the wellbore plays an important role in both exploration well testing and development well production
- Liquid level monitoring can be used to understand the recovery of liquid level and evaluate the productivity and permeability of oil wells
- Used to understand the dynamic liquid level and adjust the drainage parameters in the development of the development well
- Effectively provide liquid level data, provide basis for construction measures, and reduce well control risks



Technical characteristics

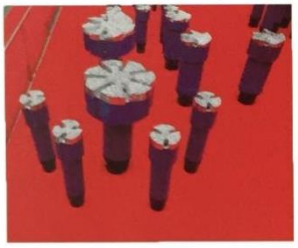
- Using the principle of sonar echo ranging to measure the distance of the liquid level in the wellbore
- The sound source of the air gun generates an explosion wave
- Sound waves propagate into the well along the annulus
- Sound waves reflect on the hoop, phonetic symbol, and liquid surface
- Get the depth of the liquid surface by calculating the speed of sound and time
- Can realize online liquid level monitoring and control
- Reduce equipment energy consumption, improve pump efficiency and work efficiency
- Prevent the cavity pump from emptying and ensure the safety of oil extraction equipment
- Remote data and transmission (GPRS or internal network)
- Realize unattended operation, reduce labor cost



Other general tools

Our company also provides various types of high-quality milling and milling tools, fishing tools and various general drilling tools in different sizes.

High-quality milling tools





Various fishing tools

Various fishing tools

Strong magnetic fishing device

Safety connector

Kava salvage spear

Reverse circulation overshot

Various general tools

Scraper

Reaming device

Pressure test occluder

Reamer

Upper jar

Lower jar

Drilling jar

Slip

Elevator

Rings

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