Harmonious Competition and Create Another Brilliance

Founded in 1939, Tianjin Exploration Machinery General Works (TEMGW) is a key enterprise specializing in manufacturing hydrogeological well drilling rig and geological engineering drilling rig. It started manufacturing geological machinery since 1996. It has a history of 70 years until now and has sold 10 thousand sets at home and abroad. It was originally owned by Ministry of State Geology and Mineral Resources, now it is a medium-sized state owned enterprise with a registered capital of RMB 14.21 million, owned by Tianjin BENEFICO Machinery & Electric Holding Group Ltd. Its area is 99,232 m² (99 mu) and the building area is 10,211 m². There are 242 sets of equipment, including 26 sets of large ones. There are 204 workers, including 86 technicians, 30% of total workers. The equipment is excellent and the technology is powerful.

TEMGW has its own design team. The technology development department is in charge of research and development, and it practices chief engineer system. There are four workshops—machinery processing workshop, final assembly workshop, structure parts workshop and bearing workshop, they can do the processes as metal cutting, gear processing, casting and welding, assembling, etc. The factory has basically established a multi-functional management system, including manufacturing, marketing, market development, technology development, financial cost control, etc. and implements a complete market-oriented management system. The products are mainly categorized into two series: hydrogeological well drilling rig and geological engineering drilling rig. Totally 10 kinds. The registered brands are "TMT", TMT-high capacity, various vehicle loading, trailer loading and independent hydrogeological well drilling rigs and geological engineering drilling rigs, long & short spiral drill rigs, special geological mud pumps, winches, jet drills, agricultural drill rigs and other boring tools. These products are reliable in performance, innovative in design, simple in operation. The products have been sold to over 20 provinces and municipal cities in China and a great number of products have been used at both home and abroad. In recent years, the products have passed ISO9001 quality management system certification, military quality management system certification, and provide a reliable guarantee for the product quality. The warmly welcomed clients from home and abroad to visit the factory and we will appreciate your motivations very much.
成就辉煌 回报社会
Achieve Brilliant Success and Return Society

胡锦涛回忆在中部少数民族地区视察
President Hu visits the western minority areas to inspect high-quality wells drilled by water supply corporation, Lanzhou Military Region

自成立以来，在经历了数十年的风雨兼程，天策钻机和我们一起取得了辉煌的成就。

承载着中国精神的天策钻机，始终在努力为社会做出贡献。

在众多的钻井施工项目中，天策钻机以卓越的性能和高效的施工速度赢得了广大用户的高度赞誉。

胡锦涛参观使用天策钻机的队伍
President Hu inspects a team using our drilling rig.

云南旱情
Yunnan drought

中国地质矿产资源开发，展现了国家对自然资源开发和利用的重视和努力。

在不断推进科技创新的同时，天策钻机始终坚持以人为本，注重与社会的和谐共生。

成就辉煌，回报社会，天策钻机将继续以实际行动为社会的发展和进步贡献力量。
以质立信 品行天下
Quality supports credibility and quality conquers world

探索不止，创新不息。天瑞钻机走过70多年的岁月与风雨，通过树立民族钻机行业的品牌和服意识，出优质产品，做优秀企业。至今为止，天瑞钻机已行销国内外近一万台，为世界三十多个国家和地区解决水资源供应问题做出了贡献。

天瑞钻机，厚德载物。天瑞企业的不断发展始终坚持对品质的追求，天瑞人始终把客户的需求放在首位，立足国内，辐射国外；强大的营销网络和市场无限延伸。

With over 70 years’ constant exploration and innovation, TT purposes to offer excellent products and does great enterprises by establishing its brand and services. So far, TT has sold nearly 10 thousands of rigs to both home and abroad, made great contributions in solving water supply problems for more than 30 countries and regions in the world.

TT heritages the past and looks for the future. Its exploration development always adheres to pursue the noble values; it always tops the clients’ demands, gains a foothold in China and serves the whole world. Its strong marketing network will infinitely extend to the future market.

我厂主打产品SPC-600型车载水井钻机在南美洲玻利维亚高原上进行钻井施工，打出了优质水井，为当地人民解决了饮水困难问题，获得了当地人民的称赞。

The flagship product SPC-600 vehicle-mounted well rig drill works out a high-quality well in Bolivian plateau of South America, which solves the drinking water problems and is greatly praised by local citizens.
天探品质  行业标准
TT Quality  Industry Standard

细节极致的专业化，现代化，智能化钻探装备全球化，国际化，这是天探永不停止的目标。智能化，创新服务是天探前进的源动力，以人为本，以客为尊，线上线下服务于广大钻探用户，让用户直接感受到天探钻探的优良品质，周到的服务。在天探钻机的身后，是一支团结进取，勇于挑战，充满活力与朝气的研发、生产、营销、服务团队。天探始终坚持以专业与创新引领，依托现代企业的管理模式，完善的配套服务，严格的质量体系认证，今天天探钻机在钻探行业中地位领先。

2011年由国土资源部举办的第一届全国地质钻探职业技能大赛中，天探车载钻机在比赛中屡获佳绩，充分展示了天探钻机钻探品质。

TT’s never-ending target is to create professional and modern rigs, and make the drilling equipment globalized and internationalized. TT is driven by the forces of harmonious competition and innovative success. It respects all clients and sincerely serves the rig users, so that the users could directly feel its excellent quality and considerate service. A team of united, challengeable, vital and spiritual workers research, manufacture, market, and offer services for the factory. TT rigs top the whole industry with the help of its advanced and professional manufacturing and testing methods, as well as relying on modern enterprise management mode, perfect services, and strict quality system certification.

In 2011, Finals for the 1st National Competition of Professional Skills in Geological Prospecting and Drilling Unveiled by Ministry of Land and Resources selected TT vehicle-mounted rig as the only machine for competition, which fully showed the superior quality of TT rigs.
该钻机以转盘回转多轴循环为基本钻进方式，钻机适应性强，可钻岩石、砂砾层、似乎是及基岩等多种地层钻进。根据地层选取钻具，可进行一定的地质钻探，钻机的主传动方式为机械传动，操作结构为液压、机械组合操作，其特点是：机动性能好，整体性强，操作简便，传动可靠，用途广泛，效率高。

**Its main drilling process is rotary plate and slurry’s Positive cycle. It is of strong adaptability, could drill in clay, sand, gravel and pebble, float stone stratum and bedrock. If with proper tools, it can be used for other drilling technologies.**

**The main transmission is a mechanical one and the control mechanism is hydraulic-mechanical. It is featured with: good mobility, high integrity, convenient in operation, reliable transmission, wide application and high efficiency.**

**SPC-300D型水文水井钻机**

**SPC-300D WATER WELL DRILLING RIG**

SPC-300D型水文水井钻机是一款车装回转钻机，其主要性能规格在“东风天龙”6×4气车上，采用柴油机吊杆钻机设计，该钻机适用于各类地质条件和各种水井水井钻探工程。

该钻机以回转钻进为主要钻进方式，配备套管装置，可实现复杂钻进，空心钻杆钻进，钻机的主传动方式为机械传动，操作结构为液压、机械组合操作，该钻机具有以下优点：结构紧凑，运输方便，传动可靠，操作简便，效率高等。

**It is a vehicle-mounted rotary one. Its main components are installed on chassis of Dongfeng Tianlong Brand 6×4 vehicle. The diesel engine works as the only driving force. It is suitable for drilling water wells or construction holes on the Quaternary stratigraphy and the bedrock.**

**The slurry’s Positive cycle is its main drilling process. It is equipped with proper auxiliary devices, so that it can also drill in a reversed manner and DTH hammer could work in it too.**

**The main transmission is a mechanical one and the control mechanism is hydraulic-mechanical. It is with the following advantages: compact structure, convenient in transportation, reliable transmission, easy operation and high efficiency.**

**SPC-300ST型水文水井钻机**

**SPC-300ST WATER WELL DRILLING RIG**

SPC-300ST型水文水井钻机是一款车装回转钻机，其主要性能规格在“东风天龙”6×4气车上，采用柴油机吊杆钻机设计，该钻机以回转钻进为主要钻进方式，配备套管装置，可实现复杂钻进，空心钻杆钻进，钻机的主传动方式为机械传动，操作结构为液压、机械组合操作，该钻机具有以下优点：结构紧凑，运输方便，传动可靠，操作简便，效率高等。

**It is a vehicle-mounted rotary one. Its main transmission is a mechanical one and the control mechanism is hydraulic-mechanical. It is featured with: high mobility, integrity, convenient in operation, reliable transmission, wide application and high efficiency.**

**SPC-300HW型水文水井钻机**

**SPC-300HW WATER WELL DRILLING RIG**

SPC-300HW型水文水井钻机是一款车装回转钻机，其主要性能规格在“HOWO”6×6全驱动式汽车底盘，越野性能好，可在湿软路基及非硬化路面行驶，钻机动力配备独立的柴油机，提高了钻机的动力性能。

**It is a vehicle-mounted rotary one. It is installed HOWO’s 6×6 full-wheel automobile chassis as its driving force. It is good at running on off highways and can run on rock roads. It is equipped with separated diesel engine which helps enhance the rig’s driving characteristics.**

**Its main drilling process is rotary plate and slurry’s Positive cycle. It is of strong adaptability, could drill in clay, sand, gravel and pebble, float stone stratum and bedrock. If with proper tools, it can be used for other drilling technologies.**

**The main transmission is a mechanical one and the control mechanism is hydraulic-mechanical. It is featured with: good mobility, high integrity, convenient in operation, reliable transmission, wide application and high efficiency.**
YZC-500型车载岩芯钻机

YZC-500 VEHICLE-MOUNTED CORE DRILLING RIG

YZC-500型车载岩芯钻机是某公司研制的新产品。该产品以XY-4G型岩芯钻机为主机，钻机的辅助设备均装在“HOWO”卡车车厢上。该钻机以湿式钻进为主，钻孔直径可变，可根据钻探要求，实现多级钻进。湿式钻进可以获得良好的钻孔质量，提高钻进效率。

SPC-400型水井钻机

SPC-400 WATET WELL DRILLING RIG

SPC-400型水井钻机是一种车装岩芯钻机，其主要部件均装在车厢内，钻机的主体部分为机械传动，其辅助部分则为机械传动。

钻机以转盘与钻杆为驱动，其旋转部分采用液压马达，其部分则为机械传动。钻机以转盘与钻杆为驱动，其旋转部分采用液压马达，其部分则为机械传动。
SPC-600HW型号水文水井钻机

SPC-600HW
WATER WELL DRILLING RIG

SPC-600HW型是系列水文水井钻机，车架回转钻机，以钻杆回转钻进正循环为主钻进方式，结构简单直接，机械性能优越。可进行其它钻进工艺方法，可钻取土层、砂土层、砾层等多种地层钻进。该钻机主要适用于水文、地质勘查，水文钻探，地质、地热钻探、地质工程等施工。

钻机主体结构紧凑，操作集中，配备有大压力，大流量泥浆泵，该钻机配置有液压制、液压制，可实时观察、控制钻进、提高钻进效率。

SPC-600ST型

SPC-600ST
WATER WELL DRILLING RIG

SPC-600ST型是系列水文水井钻机，车架回转钻机，以钻杆回转钻进正循环为主钻进方式，结构简单直接，机械性能优越。可进行其它钻进工艺方法，可钻取土层、砂土层、砾层等多种地层钻进。该钻机主要适用于水文、地质勘查，水文钻探，地质、地热钻探、地质工程等施工。

钻机主体结构紧凑，操作集中，配备有大压力，大流量泥浆泵，该钻机配置有液压制、液压制，可实时观察、控制钻进、提高钻进效率。

main working method. If equipped with proper drilling tools, it can be used for other drilling explorations. It can drill in clay, stone, bedrock, etc. It is mainly used for hydrogeology and well drilling.

It is mainly used for hydrogeology and well drilling. It is equipped with a hydromill and a small rotary plate based on a large drill diameter, so that it can work with small-diameter adaminomotive drill.

It is compact in structure, centralized in control and equipped with high pressure & high volume slurry pump. Its pressurization mechanism could increase the drilling efficiency by increasing and decreasing the pressure.
SDC-1000水文井钻机
SDC-1000 WATER WELL DRILLING RIG

SDC-1000型全断面岩钻机是全能设备，适用于大口径钻进，适合各种岩土条件。采用液压驱动，全液压驱动方式，动力头设计最大提升力为485kN，加压压力700kN，采用液压变排量形式，打钻时，保持钻具采用液压控制，减少工人的劳动强度并增加工作效率。可以采用2.7，3.1/2，4/1.2，5”双壁钻杆及多种钻杆进行钻进，适应性好。底盘采用6×4驱动形式，动力机采用原装三标车用柴油机和意大利变速箱及分箱箱，配置行走机构，方便使用作业。

It is made by TEMGW for large-diameter well, CMB well, shallow oil and gas well whose depth is less than 1,000 meter. The automobile diesel engine works as its power and driven by full hydraulic force. The maximal lifting force of driving head is 485kN and the maximal pressure is 700kN. It applies full-hydraulic control method. To screw & unscrew the shank and lift the drilling tools are all hydraulically controlled, which helps reduce labor intensity and increase work efficiency.

SPC-1000水文井钻机
SPC-1000 WATER WELL DRILLING RIG

SPC-1000水文井钻机是全能型岩钻进钻机，所有功能均HGWQ84型上，钻机的主要动力为机械驱动，操纵机构中大部分为液压驱动，其余为机械驱动。

钻机以旋转驱动——正反循环钻进为主钻进方式，既可适用于钻探工具，也适合其它钻探工作方法，可在煤层、岩层、煤岩层及岩层中钻进，并且可采用高压水枪冲洗钻头，实现高压冲洗，以提高钻进效率。随着钻具的增加，钻具重量超过最大钻具的额定压力时，可实行减压钻进。

钻机有前一个驱动主卷筒，一个工具卷筒，低压自卷筒用于升降钻具、下井管等，工具卷筒主要用于提升移动单根立根，也用来提升其他工具等以减轻体力劳动。

It is a vehicle-mounted rotary rig. All the components are installed on HOWO 8×4 chassis. The main transmission force is mechanically controlled, the main control is hydraulic and the other is mechanical.

The using movement-skyl’s Positive cycle is its main drilling manner, if equipped with proper drilling tools, it can be used for other drilling technologies. At initial stage of drilling, the pressurized machine could be used to pressurize the drills, do the pressurized drilling, so as to improve the drilling efficiency of shallow hole; with the deepening of the hole, when the weight of drill exceeds the pressures it needs, it can reduce the pressures.

The rig is equipped with a main host and a tool host. The main host is used to lift the drill, lay the tube and reduce the pressure. The tool host is mainly used to lift and move the single part, lift other tools, in order to reduce manual labor.
机上配备有主导驱动和备用装置。钻杆为整体式，液压起降。整机具有搬迁方便、机械化的程度高等特点。钻机的动力可采用柴油机或电动机为动力。

该机适用于水文地质勘探、钻探水井、地下水道、通风孔等工程钻孔。可在粘土、沙土层，基岩多种地质钻探孔，井喷避应用在冶金、地质、石油、煤炭、水利、林业、部队、建材等领域。

It is suitable for geology and geology exploration, water well drilling, underground tunnel, ventilation holes and construction holes. It can drill holes on clay, sand, bedrock, etc. It is widely used in fields of metalurgy, geology, oil exploration, coal mining, water conservancy, forest, army troop and construction material, etc.

SPT-600型拖车式水井钻机
SPT-600 TRAILER WATER WELL DRILLING RIG

SPT-600型钻机为半拖车式水井钻机。以钻杆回转架为主体回转为主钻进方式。若配套适合钻孔机，可进行岩芯钻探等钻孔方法。可钻较大孔径，较小孔径，整机具有良好的钻速和钻孔。该钻机适用于水文地质勘探，钻探水井，亦可进行地下孔道、通风孔等工程钻探。整机整体结构的紧凑，操作集中，配有大功率、大流量液压泵。该机构能配钻孔，反变转机构，既能反钻，又能钻孔，提高钻孔效率。

It is a traeler mounted water well drilling rig and the swing movement and slurry “ is Positive cycle are the main working method. If equipped with proper drilling tools, it can be used for other drilling explorations. It can drill in clay, sand, bedrock, etc. It is mainly used for geology and geology exploration and it can also be used for underground tunnels, ventilation holes and etc.

SPT-450型拖车式水井钻机
SPT-450 TRAILER WATER WELL DRILLING RIG

SPT-450型拖车式水井钻机为半拖车式，以机械传动为主，部分液压控制。钻盘回转，设定正确循环钻速的水井钻机。

It is a semi-trailer one. It is mainly mechanically driven and partly hydraulically controlled. It is a swing movement and slurry’s Positive cycle one.

SC-6000型车载多功能修井机
SC-6000 TRUCK MOUNTED WELL SERVICING RIG

SC-6000型车装多功能修井机是一种新型车载式、多功能钻机。设备底盘选用“金龙”牌6×6全驱汽车底盘。可进行水井、油井固井及钻水井或进行浅层钻井、小修、修井等作业工作。

It is a multi-functional vehicle-mounted rig for well maintenance and well drilling. The chassis selects “Golden Dragon” full-wheel driving chassis. It can be applied for water well, shallow oil well, or minor maintenance for oil well, oil field, etc.
我们的产品已经出口到世界许多国家：尼日利亚、阿联酋、巴基斯坦、马达加斯加、斯里兰卡、赞比亚、几内亚、塞拉利昂、秘鲁、科特迪瓦、乍得、尼泊尔、刚果、津巴布韦、安哥拉、埃塞俄比亚、阿尔及利亚、波斯尼亚-黑塞哥维那、布基纳法索、苏丹、也门、塞内加尔、乌克兰、摩洛哥、瑞典、维也纳、利比里亚、贝宁等。

Our products have been exported to world many country: Nigeria, UAE, Pakistan, Madagascar, Sri Lanka, Zambia, Guinea, Zanzibar, Peru, Ivory Coast, Chad, Nepal, Congo, Zimbabwe, Angola, Ethiopia, Algeria, Botswana, Mongolia, Burkina faso, Sudan, Yemen, Senegal, Mali, Ghana, Essex, Bolivia, Benin, etc.