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HORIZONTAL DIRECTIONAL DRILLING MACHINE

GOODENG MACHINE

PRODUCT INTRODUCTION

产品手册

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为城市, 创造更多美好!



COMPANY PROFILE 企业概况

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“谷登机械”成立于2002年5月，是一家专业从事非开挖机械设备研发、制造、销售和服务于一体的国家高新技术企业，主营产品为GD/GS系列水平定向钻机及配套件。作为中国建筑科学研究院机械化研究分院产业化基地，在强大专业研发团队的支持下，已自主研发5T—1200T近30多种型号的水平定向钻机，填补多项国内、外技术空白，多类产品获国家及省级机械工业科技进步奖，“GOODENG”2018年荣获“中国驰名商标”，是中国非开挖行业唯一获此殊荣的企业。

2009年8月，“谷登机械”江苏基地——江苏谷登工程机械装备有限公司投入使用。新基地拥有三个厂区，占地200多亩，环境优美，功能齐全。2011年7月，全国唯一的水平定向钻机自动化生产流水线在“谷登机械”建成，为生产出高品质的非开挖产品保驾护航。

2012年，“谷登机械”先后顺利通过“江苏省高新技术企业”认定、“重型智能化非开挖定向钻机关键技术研究及产品研制”工业支撑项目验收及成果鉴定，公司技术中心被认定为中国机械工程技术研究中心。2018年，“GOODENG”荣获“中国驰名商标”。

公司现有员工500余人，可年产各种大、中、小型水平定向钻机2000台/套，产品遍及全国各地，还远销亚洲、欧洲、澳洲、南美及非洲的近30多个国家和地区。经过几年的发展，已成为国内规模最大、设备最先进、技术最前沿的水平定向钻机生产制造基地，并成为国际非开挖钻机主导品牌。

“谷登机械”以“客户、团队、员工、创新、效率”为核心价值观，以“成为国际机械制造一流企业”为愿景；在“西气东输”、“川气东送”、“中俄天然气”、“中缅油气管道”等国内外大型非开挖管线穿越工程中屡建奇功；谷登机械正通过不懈的努力，为客户创造最大的价值。

“Goodeng Machine”, founded in May 2002, is a national high-tech enterprise, which is specialized in research & development, manufacturing, sales and service for trenchless equipment. Our main products are GD/GS series of horizontal directional drilling machine and accessories. As Mechanization Research Branch industrialization base of China Academy of Building Research, Goodeng Machine has independently developed almost 30 models of horizontal directional drilling machine from 5T to 1200T with strong and professional R & D team's support, which has filled in multiple domestic and foreign technical blanks. Many kinds of products have obtained national and provincial progress prize in science and technology of machinery industry. In 2018, “Goodeng Machine” had honor to get the Chinese Well-Known Trademark, which is the only enterprise to acquire in China's trenchless industry.

In August 2009, we have put Jiangsu base of “Goodeng Machine”- Jiangsu Goodeng Engineering Machinery Assembling CO., LTD into use, and it is fully functional including three factories with more than 200,000m² area and beautiful environment. In July 2011, the sole automatic production line for horizontal directional drilling machine was established in “Goodeng Machine”, which guarantees more trenchless machine high quality.

In 2012, “Goodeng Machine” was identified successfully as “Jiangsu Province high-tech enterprise”, and then successfully got the achievements identification for project named “key -technology research and product development of heavy intelligent trenchless directional drilling machine, and company technology center was identified as Chinese Machine Engineering Technology Research Center in the same year. In 2018, “Goodeng Machine” had honor to get the Chinese Well-Known Trademark.

Now there are more than 500 staffs in “Goodeng Machine”, with the capacity of producing 2000 sets of all kinds of large, medium and small series HDD machines covering more than 30 countries and districts in Asia, Europe, Australia, South America and Africa. With several years of development, “Goodeng Machine” has become leading brand of international trenchless HDD machine with the biggest scale in domestic, the most advanced equipment and the newest technology.

“Goodeng Machine” takes “Customer, Team, Staff, Innovation and Efficiency” as core value. We aim to become the first-class enterprise in international machinery industry. “Goodeng Machine” repeatedly performed the outstanding services in large trenchless pipeline crossing projects, such as “Gas Transporting from West to East”, “Russia to China natural gas” and “oil-gas pipelines between China and Burma”. Through unremitting efforts, “Goodeng Machine” has continually created the biggest value for all customers.

荣誉与专利

HONORS AND
PATENT
CERTIFICATES

公司荣誉 COMPANY HONOR



质量认证

QUALITY CERTIFICATION



专利技术

PATENT CERTIFICATES





GS50-L/LS 水平定向钻机

Horizontal Directional Drilling Machine



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|----------------------------------|---------------------|-----------------------------------|-----------|
| 机器尺寸 (长*宽*高) Size L*W*H | 3870*1300*1470 (mm) | 泥浆泵最大流量 Max. Mud Pump Flow | 75 L/min |
| 主机重量 Rig Weight | 3650 kg | 泥浆泵最大压力 Max. Mud Pump Pressure | 6 MPa |
| 最大推拉力 Max. Push & Pull force | 51 kN | 最大扭矩 Max. Torque | 2235 N·m |
| 最大推拉速度 Max. Push & Pull speed | 61 m/min | 动力头转速 Max. Rotation Speed | 215 r/min |
| 发动机功率 Engine Power | 43 kW | 入土角 Entry Drill Angle | 14° ~ 17° |
| 钻杆尺寸 Drill rod size | Φ42×1800 mm | 钻杆箱容量 Drill rods box capacity | 44 pcs |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1、选配日本洋马进口发动机保证充足的动力支持，确保机器性能的稳定，低油耗和低噪音更能够适合城市施工。
- 2、动力头旋转采用美国大扭矩伊顿马达驱动，性能稳定并且实现无级变速。推拉马达同样采用美国伊顿马达实现了无级变速，在同行业中机器工作速度遥遥领先。
- 3、采用Φ42*1800mm钻杆使得机器能够更加适应较小的施工区域，钻杆箱容量44根。
- 4、机器结构设计简单，具有低故障率和易于维护的特点。
- 5、旋转和推拉马达采用负载敏感控制系统以及国际先进的液压元器件，独立冷却系统保证了机器具备高效率施工和较高的性能可靠性。

- 1.The imported Japanese Yanmar engine can provide sufficient power support to ensure stable machine performance. The low fuel consumption and low noise are more suitable for urban construction.
- 2.The power head rotation is driven by the American high-torque Eaton motor, which is stable in performance and achieves infinitely variable speed. The push-pull motor also adopts the American Eaton motor to achieve stepless variable speed, and the machine's work speed is far ahead in trenchless industry.
- 3.The Φ42*1800mm drill pipe allows the machine to be adapted to smaller construction space. The drill rod box capacity is 44pcs.
- 4.The machine structure is simple in design, with low failure rate and easy maintenance.
- 5.The load-sensitive control system and internationally advanced hydraulic components are adopted for the rotation and push & pull motors. The independent cooling system ensures high-efficiency construction and more reliable performance.

GD130C-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



GD200F-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|------------------------------------|----------------------------------|----------------------------------|
| 整机质量 Rig Weight | 4750 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 5465*1670*2040 (mm) |
| 最大推拉力 Max. Push & Pull force | 135 kN | 最大扭矩 Max Torque | 4500 N·m |
| 最高推拉速度 Max. Push & Pull speed | 36 m/min | 最高回转速度 Max Rotation Speed | 193 r/min |
| 发动机功率 Engine Power | 93 kW | 泥浆泵最大流量 Max Mud Pump Flow | 200 L/min |
| 履带行走速度 Caterpillar Walking Speed | 2.5-4.5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 12°-22° | 最大爬坡度 Max Climbing Gradient | 16° |
| 最大回扩孔径 Max Aperture Diameter | φ750mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 200m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 康明斯发动机: 功率大、力量强、效率高、低排放。
2. 推拉、旋转采用手动手柄, 操作简单、快捷。
3. 操作台人性化设计: 可在60度范围内旋转, 视野广阔; 座椅可前后移动, 提高了操作人员的舒适度。
4. 外罩壳、操作台均采用玻璃钢流线形设计, 外形美观大方。罩壳可整体开启, 操作灵活, 便于日常保养与维护。
5. 钻机外形小巧, 重量轻, 适合城区施工、运输、转场等, 灵活方便。
6. 配置威猛扣型φ50或φ60×3000mm钻杆, 质量可靠, 钻杆性能优越。
7. 主要液压部件选自国际一流生产商, 产品安全性、可靠性大大提高;
8. 采用齿轮齿条推拉系统, 效率高, 故障率低, 工作平稳。
9. 可配置自动送杆机构、自动液压锚、自动丝扣油机等, 可大大提高工作效率, 减轻施工人员劳动强度 (选装)。

1. The machine is equipped with Cummins engine, with high efficiency, large power, low fuel consumption, low noise, and strong ability in construction.
2. Push & pull and rotation adopt manual handle, which is simple and quick to control.
3. Humanized-design worktable can rotate within 60°, with a wider view range, and high-quality seat that can be moved forward /backward is comfortable for operator.
4. Europe-American style surface, streamline sculpt, and elegant appearance, fully embody humanist designing idea. And it can be opened overall for flexible operation and daily convenient maintenance.
5. Small size and lightness is better for construction in city center, transferring and drilling in different kinds of working condition.
6. It is equipped with Vermeer type drill rod (Φ50 or Φ60×3000), with high quality, high reliability and superior performance.
7. Main assembly parts adopt components from international first-class hydraulic components manufacturer, which can greatly improve the performance of products reliability.
8. The rack and pinion push & pull system is adopted for the rig, so our machine is with high efficiency, low failure and stable working condition.
9. Optional auto loading, auto anchor, auto thread oil machine etc., can greatly improve working efficiency and reduce working intensity.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 8200 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 6750*2050*2400 (mm) |
| 最大推拉力 Max. Push & Pull force | 225/300 kN | 最大扭矩 Max Torque | 6500 N·m |
| 最高推拉速度 Max. Push & Pull speed | 60 m/min | 最高回转速度 Max Rotation Speed | 230 r/min |
| 发动机功率 Engine Power | 113 kW | 泥浆泵最大流量 Max Mud Pump Flow | 250 L/min |
| 履带行走速度 Caterpillar Walking Speed | 2.5-4.0 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 12° ~ 22° | 最大爬坡度 Max Climbing Gradient | 17° |
| 最大回扩孔径 Max Aperture Diameter | φ900 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 300 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 东风康明斯发动机: 动力强劲、性能稳定、油耗低、噪声小, 更适合城区施工。
2. 动力头旋转采用美国伊顿大扭矩摆线马达直接驱动, 扭矩大、性能稳定, 旋转速度两档无级调速; 动力头推拉采用美国伊顿摆线马达, 推拉速度三档可调, 施工速度在同行业遥遥领先。预留增力 (推拉), 扩大了施工范围。
3. 采用军工技术液压齿轮泵; 履带线控操作, 装卸车、转场方便快捷。
4. 操作台采用人机工程方式, 操作舒适, 大大降低了施工人员疲劳程度, 视野宽阔、乘坐舒适。
5. 配用φ60×3000mm钻杆, 机身占地面积小, 满足在狭窄场地高效施工的需求。
6. 电路设计科学合理, 故障率低, 便于维护。
7. 整机外形美观大方, 维修方便, 充分体现了以人为本的设计理念。

1. The machine is equipped with Cummins engine, with high efficiency, large power, low fuel consumption, low noise, strong ability in construction.
2. Rotation adopts American Eaton large torque motor driving directly, with large torque, stable performance, and two gears speed regulation. Push & pull adopts American Eaton motor and three gears speed regulation. The Construction speed is far ahead of other manufactures in the same industry. Driving head reserves reinforced power -push & pull force, which expands the scope of drilling construction.
3. It is equipped with hydraulic gear pump with military technology. Steel track walks by wire-control, which is convenient for load & unload and transfer.
4. Operation table adopts man-machine construction manner with comfortable operation, which greatly reduce workers fatigue level, broad vision, and comfortable seat.
5. Equipped with φ60×3000mm drill rod, the machine uses less field area, meeting the requirement for high efficiency construction in small place.
6. Electric design is reasonable with low failure rate, which is easy to maintain.
7. The rig shape is beautiful, easy to repair, which fully shows "people-oriented" design vision.

GS250-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



GD320C-L/LS GD320D-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 9000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 6950*2160*2400 (mm) |
| 最大推拉力 Max. Push & Pull force | 260/330 kN | 最大扭矩 Max Torque | 8100 N·m |
| 最高推拉速度 Max. Push & Pull speed | 45 m/min | 最高回转速度 Max Rotation Speed | 190 r/min |
| 发动机功率 Engine Power | 110 kW | 泥浆泵最大流量 Max Mud Pump Flow | 250 L/min |
| 履带行走速度 Caterpillar Walking Speed | 2.5-4.0 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 12° ~ 22° | 最大爬坡度 Max Climbing Gradient | 17° |
| 最大回扩孔径 Max Aperture Diameter | Φ1000 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 300 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 东风康明斯发动机：动力强劲、性能稳定、油耗低、噪声小，更适合城区施工。
2. 动力头旋转采用美国伊顿大扭矩摆线马达直接驱动，扭矩大、性能稳定，旋转速度两档无级调速；动力头推拉采用美国伊顿摆线马达，推拉速度三档可调，施工速度在同行业遥遥领先。
3. 采用军工技术液压齿轮泵；履带线控操作，装卸车、转场方便快捷。
4. 专利技术——大梁滑移变幅机构，整机变角大，工作稳定性强。
5. 采用人机工程设计的可旋转操作台，视野宽阔，操作舒适，大大降低了施工的疲劳程度。
6. 配备φ60×3000mm钻杆，机身占地面积小，满足在狭窄场地高效施工的需求。
7. 旋转、推拉先导控制，操作更轻便。
8. 电路设计科学合理，故障率低，便于维护。
9. 整机外形美观大方，充分体现了以人为本的设计理念；整体后翻式罩壳，开关灵活快捷，保养、维护和检修更方便。
10. 最新设计仪表盘，可选装DCI Aurora彩色显示屏，可记录相关钻机施工参数。

- 1.The machine is equipped with Cummins engine with high efficiency, large power, low fuel consumption, low noise and strong ability in construction.
- 2.Rotation adopts American Eaton large torque motor driving directly which features large torque, stable performance, and two gears speed regulation. Push & pull adopts American Eaton motor and three gears speed regulation. The construction speed is far ahead of other manufactures in the same industry.
- 3.It is equipped with hydraulic gear pump with military technology. Steel track walks by wire-control, which is convenient for load & unload and transfer.
- 4.Four bar linkage luffing structure, our patented technology, is used for the main girder to make sure the big entry angle as well as the stable performance of the machine.
- 5.Operation table are adopted with man-machine construction manner, which is comfortable for operation and reduce workers fatigue level. The rotating cab is optional, with AC, broad vision, and comfortable seat.
- 6.Equipped with φ60×3000mm drill rod, the machine occupies less field area, meeting the requirement for high efficiency construction in small place.
- 7.Push & pull and rotation adopt multi-functional handle controlled by pilot valve, which is easy and simple to operate.
8. Electric design is reasonable with low failure rate, which is easy to maintain.
- 9.The rig shape is beautiful, and easy to repair, which fully shows "people-oriented" design vision. The cover shell adopts overall backflip and air-spring assisted opening mechanism with large open space and is very convenient for maintenance.
- 10.New designed dashboard, optional DCI Aurora colorful display screen, can record the relative drilling machine's parameter.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 10500 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 7300*2150*2250 (mm) |
| 最大推拉力 Max. Push & Pull force | 350/700 kN | 最大扭矩 Max Torque | 12600 N·m |
| 最高推拉速度 Max. Push & Pull speed | 40 m/min | 最高回转速度 Max Rotation Speed | 140 r/min |
| 发动机功率 Engine Power | 154 kW | 泥浆泵最大流量 Max Mud Pump Flow | 320 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3.5-6.0 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 12° ~ 22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | Φ1100 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 400 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 东风康明斯发动机，高效、节能、环保、动力强劲、性能稳定，更适于城区施工。
2. 动力头旋转采用美国伊顿大扭矩摆线马达，扭矩大、性能稳定，具有两档无级调速。
3. 动力头推拉采用美国伊顿摆线马达和推拉一体式减速机，推拉速度三档可调，施工速度在同行中遥遥领先。
4. 采用一流液行走驱动装置，线控操作，双速行走，行走、转场及装卸车方便快捷。
5. 采用人机工程设计的可旋转操作台，并配备高档座椅，可前后移动，视野宽阔，操作舒适方便。
6. 采用整体后翻式气弹簧辅助罩壳开启机构，罩壳开启灵活方便，检修维护方便快捷。
7. 配备φ73×3000mm、φ76×3000mm钻杆，机身占地适中，具备在狭窄场地高效施工的客户需。
8. 电路设计科学合理，故障发生率，便于维护。
9. 自动化程度高：可选装自动丝扣油机、自动液压锚、自动送杆机构；大大提高了工作效率，减轻了劳动强度。
10. 欧美风格的流线型外观设计，造型美观大方，充分体现了以人为本的设计理念。
11. 动力头推拉、旋转液压系统采用先进的串并联控制技术和国际一流液压元件，独立的散热系统，工作高效节能，可靠性高。

- 1.The machine is equipped with Cummins engine with high efficiency, large power, low fuel consumption, low noise and strong ability in construction.
- 2.Rotation adopts American Eaton large torque motor driving directly, which contains large torque, stable performance, and two gears speed regulation.
- 3.Push & pull adopts American Eaton motor and Push & pull one-piece reducer with three gears speed regulation. The construction speed is far ahead of others in the same industry. Driving head reserves reinforced power -push & pull force, which expands the scope of drilling construction.
- 4.It is equipped with first-class walking hydraulic driving device Steel track walks with double speed by wire-control, which is convenient for load & unload and transfer.
- 5.Operation table adopts man-machine construction manner, which is comfortable for operation, and can greatly reduce workers fatigue level. The rotating cab is optional, with AC, broad vision, and comfortable seat.
- 6.The cover shell is adopted with overall backflip, so the opening and closing are flexible and quick the maintenance is more convenient.
- 7.Equipped with φ73×3000 mm or φ76×3000mm drill rod, the machine contains medium field area, meeting the requirement for high efficiency construction in small place.
- 8.Electric design is reasonable with low failure rate, which is easy for maintenance.
- 9.The machine is equipped with a high degree of automation, with optional automatic drill rod greasing system, auto anchor, auto loading, which can greatly improve the working efficiency and reduce the labor intensity.
- 10.The rig shape is beautiful, and easy to repair, which fully shows "people-oriented" design vision.
- 11.The driving head and rotation hydraulic system of driving head are adopted with advanced series of parallel control technology and the international first-class hydraulic components, as well as independent cooling system, with high working efficiency and high reliability.



GD360-L/LS 水平定向钻机

Horizontal Directional Drilling Machine

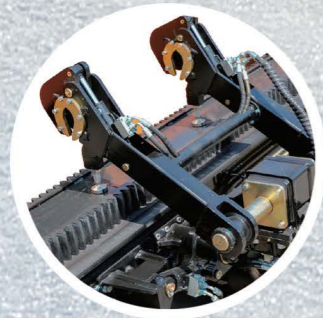
主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 9500/10500 kg | 外形尺寸(长*宽*高) Dimension(L*W*H) | 7300*2230*2310 (mm) |
| 最大推拉力 Max. Push & Pull force | 380/760 kN | 最大扭矩 Max Torque | 14000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 36 m/min | 最高回转速度 Max Rotation Speed | 135 r/min |
| 发动机功率 Engine Power | 153kW/154 kW | 泥浆泵最大流量 Max Mud Pump Flow | 400 L/min |
| 履带行走速度 Caterpillar Walking Speed | 2.5-4.0 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 13°-23° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | Φ1200 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 450 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 配置东风康明斯发动机，动力强劲、性能稳定、油耗低、噪声小，更适于城区施工。
2. 采用军工技术液压齿轮泵，推拉旋转液压系统采用先进的串并联控制技术和进口的国际一流液压元件，工作高效、节能、可靠。
3. 旋转推拉先导控制，动作灵活、轻便、舒适。
4. 动力头旋转采用伊顿公司产大扭矩摆线马达直接驱动，扭矩大、性能稳定，两档无级调速；动力头推拉采用伊顿公司产摆线马达，推拉速度三档可选。
5. 预留推拉增力装置，扩大施工范围，方便工程抢险。
6. 采用一流液压行走驱动装置，线控操作，装卸车及工地转场快速方便。
7. 采用人机工程设计的可旋转操作台，并配备高档座椅，可前后移动，视觉范围广，操作舒适方便。
8. 配用φ73/φ76/φ83×3000mm钻杆，机身占地适中，兼顾了高效施工和窄小场地施工要求。
9. 电路设计简单，故障率低，便于维护。
10. 欧美风格的流线型外观设计，造型美观大方；整体后翻式玻璃钢罩壳，维护、检修更方便，充分体现以人为本的设计理念。
11. 整机设计理念先进，施工效率提升30%，国内同行业中遥遥领先。
12. 人性化设计，自动化程度高，标配上杆机械手，大大提高工作效率，减轻劳动强度。同时，可根据客户需求选装：驾驶室（冷暖空调）、自动上杆箱、自动液压锚、自动丝扣油机等。
13. 最新设计仪表盘，可选装DCI Aurora彩色显示屏，可记录相关钻机施工参数。

- 1.The machine is equipped with Cummins engine with high efficiency, large power, low fuel consumption, low noise, and strong ability in construction.
- 2.It is equipped with hydraulic gear pump used military technology. Push & pull and rotation hydraulic system adopt advanced series of parallel control technology and the international first-class hydraulic components with high efficiency, low consumption and high stability.
- 3.The machine is equipped with rotation and push & pull pilot control, and the operation is more portable.
- 4.The power head rotation is driven by the American high-torque Eaton motor, which is stable in performance and achieves infinitely variable speed. Push & pull adopts American Eaton motor and three gears speed regulation.
- 5.Driving head reserves reinforced power - push & pull force, which expands the scope of drilling construction, and makes it convenient for emergency project.
- 6.It is equipped with first-class walking hydraulic driving device. Steel track walking is driven by wire-control, which is convenient for loading & unloading and transferring.
- 7.Operation table adopts man-machine construction manner, which is comfortable for operation, and can greatly reduce workers fatigue level. The rotating cab is optional, with AC, broad vision, and comfortable seat.
- 8.Equipped with φ73×3000 mm or φ76×3000mm or φ83×3000mm drill rod, the machine contains medium field area, meeting the requirement for high efficiency construction in small place.
- 9.Electric design is reasonable with low failure rate, which is easy to maintain.
- 10.The rig shape is beautiful, and easy to repair, which fully shows "people-oriented" design vision.
- 11.The design of the rig is advanced, and the working efficiency has been improved by 30%. It is far ahead of other manufactures in trenchless industry.
- 12.Humanization design: The mechanical arm can greatly improve working efficiency and reduce working intensity. And the clients can choose cab (with air-condition), auto rod-loading box, auto anchor, auto thread oil machine etc.
13. New designed dashboard, optional DCI Aurora colorful display screen, can record the relative drilling machine's parameter.



专利技术：旋转机械手

PATENT TECHNIQUE: ROTARY MANIPULATOR



先导控制

PILOT CONTROL



最新设计仪表盘

NEWLY DESIGNED DASHBOARD

GD380A/B-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



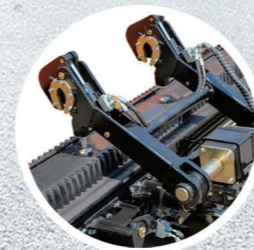
GS420-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



原装进口法国波克兰马达
ORIGINAL IMPORTED FRENCH POCLAIR MOTOR



专利技术：旋转机械手
PATENT TECHNIQUE: ROTARY MANIPULATOR



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 12820/14270 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 7300/8200*2250*2270 (mm) |
| 最大推拉力 Max. Push & Pull force | 406/812 kN | 最大扭矩 Max Torque | 17000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 45 m/min | 最高回转速度 Max Rotation Speed | 135 r/min |
| 发动机功率 Engine Power | 179 kW | 泥浆泵最大流量 Max Mud Pump Flow | 450 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 12°-25° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1300 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 600 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 回转采用闭式系统，推拉、夹持、行走采用自动变量系统，负载敏感控制；其液压系统与传统液压系统相比：工作效率提高20%以上，设备节能20%以上。
2. 采用康明斯工程机械专用发动机，节能、环保、高效、动力强劲。
3. 主梁采用四连杆调幅梁结构，大大提高了导向入射角范围；同时确保大角度施工时钻机履带不离开地面，提高钻机稳定性和安全性。
4. 线控行走系统，确保钻机在行走、转场、装运过程中的安全。
5. 适用φ76×3000mm、φ83×3000mm/φ83×4500mm钻杆，机身占地适中，满足在狭窄场地高效施工的需求。
6. 主要液压部件选自国际一流生产商，大大提高了产品性能的可靠性和安全性。
7. 电路设计科学合理，故障率低，便于维护。
8. 履带采用钢制履带外挂橡胶板，既可承受高负载，又能满足在不同道路上行走。
9. 推拉采用齿轮齿条结构：效率高、寿命长、工作平稳、维护方便。
10. 选配机械手。

1. Close-circuit system is adopted for rotation. Automatic variable system is adopted for push & pull, clamping, and walk and and it is under load sensitivity control. Advanced hydraulic system raises more than 20% productivity than traditional one, and saves more than 20% energy compared with traditional one.
2. The machine is equipped with Cummins engine, with high efficiency, large power, low fuel consumption, low noise, and strong ability in construction.
3. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off ground, having improved the safety performance.
4. Wire-control walking system can ensure the safety when the machine performs walk, transfer and load & unload.
5. Equipped with φ76×3000mm, φ83×3000mm or φ83×4500mm drill rod, the machine contains medium field area, meeting the requirement for high efficiency construction in small place.
6. Main hydraulic components are from the international first-class hydraulic components manufacturer, which greatly improve the reliability of the product performance and safety.
7. Electric design is reasonable with low failure rate, which is easy for maintenance.
8. The steel track with rubber plate is adopted for crawler, which can not only bear high load, but also satisfy walking on different roads.
9. The rack and pinion structure is adopted for push & pull, which features high efficiency, long lifespan, stable work and convenient maintenance.
10. You can choose optional manipulator.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 13000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 7300*2250*2270 (mm) |
| 最大推拉力 Max. Push & Pull force | 430/860 kN | 最大扭矩 Max Torque | 19000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 53 m/min | 最高回转速度 Max Rotation Speed | 185 r/min |
| 发动机功率 Engine Power | 179 kW | 泥浆泵最大流量 Max Mud Pump Flow | 450 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 8 MPa |
| 入土角度 Entry Drill Angle | 12°-25° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1350mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 650 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 回转采用闭式系统，推拉、夹持、行走采用自动变量系统，负载敏感控制；其液压系统与传统液压系统相比：工作效率提高20%以上，系统发热量减少50%左右，设备节能20%以上等；
2. 采用康明斯工程机械专用发动机，节能、环保、高效、动力强劲；
3. 主梁采用四连杆调幅梁结构，大大提高了导向入射角范围；同时确保大角度施工时钻机履带不离开地面，提高钻机稳定性和安全性；
4. 线控行走系统，确保钻机在行走、转场、装运过程中的安全；
5. 适用φ83/φ76×3000mm钻杆，机身占地适中，满足在狭窄场地高效施工的需求；
6. 主要液压部件选自国际一流生产商，大大提高了产品性能的可靠性和安全性；
7. 电路设计科学合理，故障率低，便于维护；
8. 履带采用钢制履带外挂橡胶板，既可承受高负载，又能满足在不同道路上行走；
9. 推拉采用齿轮齿条结构：效率高、寿命长、工作平稳、维护方便。

1. Close-circuit system is adopted for rotation system; automatic variable system is adopted for push & pull, clamping and walking and it is under load-sensitive control. Advanced hydraulic system raises more than 20% productivity, reduces about 50% heat, and saves more than 20% energy compared to traditional one.
2. The machine is equipped with Cummins engine, with high efficiency, large power, low fuel consumption, low noise, and strong ability in construction.
3. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off ground, having improved the safety performance.
4. Wire-control walking system can ensure the safety when the machine performs walk, transfer and load & unload.
5. The machine is equipped with φ76×3000mm or φ83×3000mm, and the machine body occupies a moderate area, meeting the requirement for high efficiency construction in small place.
6. Main hydraulic components are from the international first-class hydraulic components manufacturer, which greatly improve the reliability of the product performance and safety.
7. Electric design is reasonable with low failure rate, which is easy for maintenance.
8. The steel track with rubber plate is adopted for crawler, which can not only bear high load, but also satisfy walking on different roads.
9. Rack and pinion system is adopted for push&pull, which is good for high efficiency, long life, stable working and maintenance is also convenient.

GS450B-L/LS

Horizontal Directional Drilling Machine
水平定向钻机



GD450-L/LS

Horizontal Directional Drilling Machine
水平定向钻机



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 13500 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 7500*2250*2500 (mm) |
| 最大推拉力 Max. Push & Pull force | 450/900 kN | 最大扭矩 Max Torque | 23500 N·m |
| 最高推拉速度 Max. Push & Pull speed | 55 m/min | 最高回转速度 Max Rotation Speed | 105 r/min |
| 发动机功率 Engine Power | 194 kW | 泥浆泵最大流量 Max Mud Pump Flow | 600 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 12°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1400 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 700 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 旋转采用闭式系统，推拉、夹持、行走采用自动变量系统，负载敏感控制，其液压系统比传统液压系统提高15%-20%的工作效率，可节能15%-20%；
2. 旋转、推拉采用液控方式，减少了由于电气元器件的老化引起的故障，使控制更稳定、更可靠，推拉、旋转响应更快；
3. 采用康明斯工程机械专用发动机，功率强劲；
4. 大梁采用四连杆调幅梁结构，大大提高入射角范围，同时确保大角度时钻机履带不用离地，提高安全性能；
5. 线控行走系统，确保行走及转场过程的安全；
6. 装卸钻杆采用最新研发翻转角度可调的机械手臂机构，装卸钻杆方便快捷，大大降低施工人员劳动强度，提高工作效率；
7. 适用φ83×3000mm、φ89×3000mm钻杆，机身占地适中，兼顾了高效施工和城区窄小场地施工要求；
8. 主要部件选自国际一流液压元件生产商配套，大大提高了产品性能的可靠性；
9. 电路采用线束设计，故障率低，便于维护；
10. 采用齿轮齿条推拉，效率高、工作平稳，维修和维护方便；
11. 履带采用钢履带加橡胶垫片，既可承受高负载，又可以满足在各种道路上行走。

1. Close-circuit system is adopted for rotation, and auto-variable system is adopted for push & pull clamping and walk, and load-sensing control is also used, which increases work efficiency by 15%-20%, and totally saves 15%-20% energy compared with traditional system.
2. Hydraulic control is adopted for rotation and push & pull, reducing the faults resulted from the aging of electrical components, realizing more stable and reliable control and quicker response.
3. It is equipped with Cummins engine specialized in engineering machinery with strong power.
4. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off ground, improving the safety performance.
5. Wire-control walking system ensures the safety for walk and transfer.
6. Newly developed reversible manipulator is convenient for loading and unloading drill rod, which can greatly reduce the workers labor intensity and improve work efficiency.
7. Applicable for φ83×3000mm or φ89×3000mm drill rod, the machine fits moderate field area, meeting the requirement for high efficiency construction in small downtown district.
8. Main hydraulic components are from the international first-class hydraulic components manufacturer, which can greatly improve the reliability of the product performance and safety.
9. Electric design is reasonable with low failure rate, which is easy to maintain.
10. Rack & pinion model is adopted for push & pull, which ensures high efficiency, stable work, and convenient maintenance.
11. Steel track with rubber plate can be loaded heavily and walk on all kinds of roads.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|
| 整机质量 Rig Weight | 14500 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 8450*2320*2650 (mm) |
| 最大推拉力 Max. Push & Pull force | 480/960 kN | 最大扭矩 Max Torque | 27000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 55 m/min | 最高回转速度 Max Rotation Speed | 116 r/min |
| 发动机功率 Engine Power | 194 kW | 泥浆泵最大流量 Max Mud Pump Flow | 600 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 12°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 800 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 旋转、推拉、夹持、行走采用德国力士乐自动变量系统，负载敏感控制；其液压系统比传统液压系统提高15%-20%的工作效率，可节能15%-20%。
2. 采用康明斯工程机械专用发动机，功率强劲。
3. 动力头可增力，最大推拉力达900kN，在大管径施工时保证施工的安全性。
4. 大梁采用四连杆调幅梁结构，大大提高入射角范围，同时确保大角度时钻机履带不用离地，提高安全性能。
5. 线控行走系统，确保行走过程中人员和设备的安全。
6. 装卸钻杆采用翻转角度可调机械手臂机构，装卸钻杆方便快捷，大大降低施工人员劳动强度，提高工作效率。
7. 适用φ89×4500mm、φ102×4500mm钻杆，机身占地适中，兼顾高效施工和窄小场地施工要求。
8. 主要部件选用国际一流液压元件生产商，大大提高了产品性能的可靠性和安全性。
9. 电路设计科学合理，故障率低，便于维修。
10. 采用齿轮齿条推拉，效率高、工作平稳，维修和维护方便。
11. 履带采用钢履带加橡胶垫片，既可承受高负载，又可以满足在各种道路上行走。

1. German Rexroth automatic variable system is adopted for rotation, push & pull, clamping and walk, with load sensitivity control. Advanced hydraulic system raises more than 15%-20% productivity, and saves more than 15%-20% energy compared with traditional one.
2. The machine is equipped with Cummins engine with high efficiency, large power, low fuel consumption, low noise and strong ability in construction.
3. Driving head reserves reinforced power (push & pull force). Push & pull force can be increased to 960kN, which ensures the safety of the construction in the construction of big diameter.
4. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off ground, having improved the safety performance.
5. Wire-control walking system can be used to ensure the safety in the process of walk, transfer and load & unload.
6. Reversible manipulator is convenient for loading and unloading drill rod, which can greatly reduce the workers labor intensity, and improve work efficiency.
7. With φ89×4500mm or φ102×4500mm drill rod, the machine can be used in medium field area, meeting the requirement for high efficiency construction in small place.
8. Main hydraulic components are from the international first-class hydraulic component manufacturer, which greatly improve the reliability of the product performance and safety.
9. Electric design is reasonable with low failure rate, which is easy to maintain.
10. Push & pull contains rack and pinion push-pull system, which is good for high efficiency, long lifespan, stable work, and maintenance is also convenient.
11. The steel track with rubber plate is adopted for crawler, which can not only bear high load, but also satisfy walking on different roads



GS700-L/LS 水平定向钻机

Horizontal Directional Drilling Machine

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|---------------------------------------|----------------------------------|------------------------------------|
| 整机质量 Rig Weight | 15000 kg | 外形尺寸(长*宽*高) Dimension(L*W*H) | 9100*2280*2585 (mm) |
| 最大推拉力 Max. Push & Pull force | 700/1400 kN | 最大扭矩 Max Torque | 30000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 40 m/min | 最高回转速度 Max Rotation Speed | 125 r/min |
| 发动机功率 Engine Power | 199 kW | 泥浆泵最大流量 Max Mud Pump Flow | 600 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 12°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | Φ1500 mm (根据地质状况) (Soil Dependent) | 最大施工距离 Max Crossing Length | 900 m (根据地质状况) (Soil Dependent) |

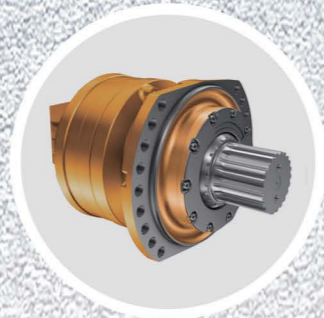
主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 旋转采用德国林德液控闭式系统，系统高效、稳定、可靠。推拉、行走采用德国力士乐自动变量系统，负载敏感控制。旋转采用法国原装进口波克兰马达，推拉采用高压柱塞马达，比传统液压系统工作效率提高20%以上，减少系统发热量，可节能20%。
2. 推拉、旋转手柄采用液控方式，减少了操作故障，系统更稳定，响应更快。
3. 采用潍柴工程机械专用发动机，功率强劲。
4. 动力头可增力，最大推拉力达1400kN，为大型工程施工提供保障。
5. 采用四连杆调幅大梁结构，大大提高入射角范围，同时确保大角度时钻机履带不用离地，提高安全性能。
6. 线控行走系统，确保行走及转场安全。
7. 装卸钻杆采用翻转角度可调机械手臂机构，装卸钻杆方便快捷，大大降低施工人员劳动强度，提高工作效率。
8. 适用φ89×4500mm、φ102×4500mm钻杆，机身占地适中，转场方便。
9. 主要部件选用国际一流液压元件，大大提高了产品的品质、性能和可靠性。
10. 电路采用线束设计，故障率低，便于维修。
11. 采用齿轮齿条推拉，效率高、工作平稳，维修和维护方便。
12. 履带采用钢履带加橡胶垫板，既可承受高负载，又可以满足在各种道路上行走，便于城区运输。

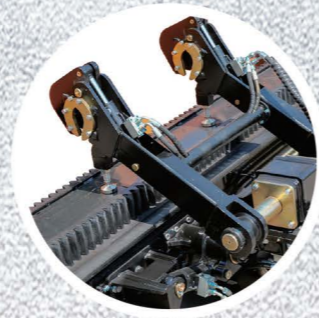
- 1.The rotation is equipped with German Rexroth closed-circuit system, which is efficient, stable and reliable. German Rexroth auto-variable system is adopted for push & pull and walk and load-sensing control is also used. Rotation motor is originally imported French Poclair brand which is famous all over the world, and push & pull motor is high pressure plunger motor and which increases work efficiency more than 20%, and totally saves about 20% energy compared with traditional system.
- 2.Hydraulic control is adopted for rotation and push & pull, reducing the faults resulted from the aging of electrical components, realizing more stable and reliable control and quicker response.
- 3.It is equipped with Weichai engine specialized in engineering machinery with strong power.
- 4.Driving head reserves reinforced power (push & pull force). Push & pull force can be increased to 1400KN, which ensures the safety of the big diameter construction
5. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off ground, having improved the safety performance.
- 6.Wire-control walking system can be used to ensure the safety in the process of walk, transfer and load & unload.
- 7.Reversible manipulator is convenient for loading and unloading drill rod, which can greatly reduce the workers labor intensity, and improve work efficiency.
- 8.With φ89×4500mm or φ102×4500mm drill rod, the machine can be used in medium field area, meeting the requirement for high efficiency construction in small place.
- 9.Main hydraulic components are from the international first-class hydraulic component manufacturer, which greatly improve the reliability of the product performance and safety.
- 10.Electric design is reasonable with low failure rate, which is easy to maintain.
- 11.Push & pull contains rack and pinion push-pull system, which is good for high efficiency, long lifespan, stable work, and maintenance is also convenient.
- 12.Steel track with rubber plate can be loaded heavily and walks on all kinds of roads as well.



三阶段潍柴高效低噪发动机
THE THIRD STAGE WEICHAI ENGINE
WITH HIGH EFFICIENCY AND LOW LOISE



原装进口法国波克兰马达
ORIGINAL IMPORTED FRENCH
POCLAIR MOTOR



专利技术：旋转机械手
PATENT TECHNIQUE:
ROTARY MANIPULATOR

GS900-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



GS900A-L/LS

Horizontal Directional Drilling Machine

水平定向钻机



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|------------------------------------|
| 整机质量 Rig Weight | 20000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 10600×2260×2550 (mm) |
| 最大推拉力 Max. Push & Pull force | 910/1360 kN | 最大扭矩 Max Torque | 33000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 55 m/min | 最高回转速度 Max Rotation Speed | 110 r/min |
| 发动机功率 Engine Power | 239 kW | 泥浆泵最大流量 Max Mud Pump Flow | 800 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 11°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 1000 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 旋转采用德国进口林德闭式泵、力士乐变量马达系统，结构简单、高效、节能。推拉采用德国力士乐自动变量系统、负载敏感控制。该液压系统比传统液压系统提高15%-20%的工作效率，同时减少系统发热量50%，可节能15%-20%。
2. 采用康明斯工程机械专用发动机，功率强劲。
3. 动力头预留增力，增力后最大推拉力可达1360KN，确保在大型非开挖施工中的安全性。
4. 大梁采用四连杆滑移调幅梁结构，大大提高了入土角度，同时确保大角度时钻机履带不离地，提高钻机稳定性和安全性。
5. 线控行走系统，确保行走过程的人员和钻机安全。
6. 采用齿轮齿条式机械臂装卸钻杆，高效、方便、快捷，大大降低施工人员劳动强度，提高工作效率。
7. 适用φ102×6000钻杆，机身占地适中，兼顾了高效施工和狭窄场地施工要求。
8. 主要部件选自德国一流液压元件生产商，大大提高了产品性能的可靠性。
9. 电路简单，故障率低。
10. 采用齿轮齿条推拉，寿命长、效率高、工作平稳，维修、维护方便。
11. 可旋转驾驶室，带冷暖空调，操作室人性化设计。
12. 履带采用钢履带加橡胶垫板，既可承受高负载，适合在所有道路上行走。
13. 选配自动上杆系统，自动化程度高，大大提高了工作效率，减轻了劳动强度。

1. Germany imported Linde close-circuit pump and Rexroth variable motor system are adopted for rotation, and the system improves more than 15%-20% productivity, reduces about 50% heat, and saves more than 15%-20% energy compared to traditional one.
2. The machine is equipped with Cummins engine with dedicated purpose for engineering machinery, with strong power.
3. Power head reserves reinforcement, which can reach 1360KN, to ensure the safety of the big diameter construction.
4. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off the ground, having improved the safety performance.
5. Wire-control walking system can ensure the safety during walk, transfer and load & unload.
6. Reversible manipulator with rack and pinion is convenient for loading and unloading drill rod, which is efficient, convenient and fast. This greatly reduces the labor intensity and improves work efficiency.
7. Equipped with φ102×6000 drill rod, the machine is used for medium field area, meeting the requirement for high efficiency construction in small place.
8. Main hydraulic components are from the international first-class hydraulic components manufacturer, which greatly improves the reliability of the product performance and safety.
9. Electric design is reasonable with low failure rate, which is easy to maintain.
10. Gear rack push-pull system is used for push & pull, which is good for high efficiency, long lifespan, and stable work, and maintenance is also convenient.
11. It is equipped with movable operation cab with AC and humanized design.
12. Steel track with rubber plate can be loaded heavily and walk on all kinds of roads as well.
13. Optional auto-loading system with high automation can greatly enhance work efficiency and reduce labor intensity.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|------------------------------------|
| 整机质量 Rig Weight | 21000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 10600×2260×2550 (mm) |
| 最大推拉力 Max. Push & Pull force | 1020/1530 kN | 最大扭矩 Max Torque | 38000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 55 m/min | 最高回转速度 Max Rotation Speed | 120 r/min |
| 发动机功率 Engine Power | 264 kW | 泥浆泵最大流量 Max Mud Pump Flow | 800 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 11°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 1000 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 旋转采用德国进口林德闭式泵、力士乐变量马达系统，结构简单、高效、节能。推拉采用德国力士乐自动变量系统、负载敏感控制。该液压系统比传统液压系统提高15%-20%的工作效率，同时减少系统发热量50%，可节能15%-20%。
2. 采用康明斯工程机械专用发动机，功率强劲。
3. 动力头预留增力，增力后最大推拉力可达1530KN，确保在大型非开挖施工中的安全性。
4. 大梁采用四连杆滑移调幅梁结构，大大提高了入土角度，同时确保大角度时钻机履带不离地，提高钻机稳定性和安全性。
5. 线控行走系统，确保行走过程的人员和钻机安全。
6. 采用齿轮齿条式机械臂装卸钻杆，高效、方便、快捷，大大降低施工人员劳动强度，提高工作效率。
7. 适用φ102×6000、φ114×6000钻杆，机身占地适中，兼顾了高效施工和狭窄场地施工要求。
8. 主要部件选自德国一流液压元件生产商，大大提高了产品性能的可靠性。
9. 电路简单，故障率低。
10. 采用齿轮齿条推拉，寿命长、效率高、工作平稳，维修、维护方便。
11. 可旋转驾驶室，带冷暖空调，操作室人性化设计。
12. 履带采用钢履带加橡胶垫板，既可承受高负载，适合在所有道路上行走。

1. German Linde closed-circuit pump and Rexroth auto-variable system are adopted for rotation with simple structure, high efficiency and low consumption. German Rexroth auto-variable system and load-sensing control are adopted for push & pull and walk. The hydraulic system increases work efficiency by 15%-20%, reduces heat about 50%, and saves 15%-20% energy compared to traditional system.
2. The machine is equipped with Cummins engine specialized in engineering machinery with strong power.
3. The force of driving head can be reinforced to 1530KN to ensure the reliability in large pipe project.
4. Four bar linkage luffing structure is adopted for main girder, which highly increases entry angle range and ensures the large angle and rig tracks are not off the ground, improving the safety performance.
5. Wire-control walking system can ensure the safety for walk and transfer.
6. Newly developed reversible manipulator is convenient for loading and unloading drill rod, which can greatly reduce the workers labor intensity, and improve work efficiency.
7. Applicable for φ102×6000mm and φ114×6000mm drill rod, the machine fits moderate field area and is easy for site transfer.
8. Main hydraulic components are from the international first-class hydraulic components manufacturer, which can greatly improve the reliability of the product performance and safety.
9. Electric design is reasonable with low failure rate, which is easy to maintain.
10. Push & pull adopts rack & pinion model, which ensures high efficiency, stable work, and convenient maintenance.
11. Rotatable and humanized operation cabin is equipped with air conditioner.
12. Steel track with rubber plate can be loaded heavily and walks on all kinds of roads.

GD1100-L/LS

Horizontal Directional Drilling Machine
水平定向钻机



GD1600-L/LS

Horizontal Directional Drilling Machine
水平定向钻机



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|------------------------------------|
| 整机质量 Rig Weight | 26000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 10300*2500*3100 (mm) |
| 最大推拉力 Max. Push & Pull force | 1170/1750 kN | 最大扭矩 Max Torque | 43000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 35 m/min | 最高回转速度 Max Rotation Speed | 100 r/min |
| 发动机功率 Engine Power | 264 kW | 泥浆泵最大流量 Max Mud Pump Flow | 800 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 10°-22° | 最大爬坡度 Max Climbing Gradient | 20° |
| 最大回扩孔径 Max Aperture Diameter | Φ1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 1200 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 配置涡轮增压发动机，动力强劲，性能稳定，油耗低于其他发动机10%-20%。
- 德国力士乐/林德开闭式结合变量液压系统，流量大、耐污好、寿命长、安全可靠。
- 配置进口电比例马达，齿轮传动结构简单、性能可靠，推拉无级变速，工作效率行业领先；动力头预留增力（推拉），推拉力可达1750kN。
- 配置进口电比例马达，旋转无级变速，大大提高了工作效率。
- 韩国三星挖掘机双速马达，行走速度最高达5km/h。
- 夹持器中心低，不仅有效地保护了钻杆，而且施工占用空间小；前、后夹钳可分离；夹持器可根据钻杆规格更换相应夹块。
- 标配φ114×6000mm或φ127×6000mm钻杆；主轴浮动，有利于保护钻杆丝扣。
- 采用四连杆变幅机构，变角范围大（10°~18°），钻机重心低，稳定性好。
- 线控比例行走系统，确保设备和人员安全，行走、转场及装卸车方便快捷。
- 全开启动转机械手，钻杆自动滑落，无需人工卸杆，节省人工费用。
- 车载操作室空间大，可升降，配备冷暖空调。
- 液晶人机交互系统，可实时监控、调整设备状态，操作更简便、更舒适。
- 智能程序控制系统，操控舒适，性能稳定，而且具有很强的功能扩展性。

主要技术参数 MAIN TECHNICAL PARAMETERS

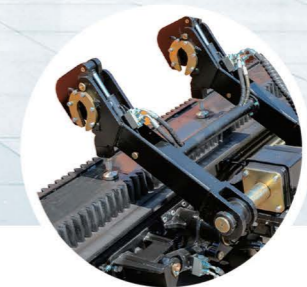
| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|------------------------------------|
| 整机质量 Rig Weight | 29000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 11000*2450*3100 (mm) |
| 最大推拉力 Max. Push & Pull force | 1700 kN | 最大扭矩 Max Torque | 78000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 37 m/min | 最高回转速度 Max Rotation Speed | 95 r/min |
| 发动机功率 Engine Power | 2*194/2*239 kW | 泥浆泵最大流量 Max Mud Pump Flow | 自选 外置 Optical Extra Mud Pump |
| 履带行走速度 Caterpillar Walking Speed | 3-6 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 自选 外置 Optical Extra Mud Pump |
| 入土角度 Entry Drill Angle | 8°-22° | 最大爬坡度 Max Climbing Gradient | 20° |
| 最大回扩孔径 Max Aperture Diameter | Φ1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 1500 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 康明斯涡轮增压发动机，动力强劲，性能稳定，油耗低于其他发动机20%以上。
- 配置进口电比例马达，齿轮传动结构简单、性能可靠，推拉无级变速，推拉力可达1700kN，工作效率行业领先。
- 配置进口电比例马达，旋转无级变速，大大提高了工作效率。
- 采用韩国三星挖掘机双速马达，行走速度最高达6km/h。
- 夹持器中心低，不仅能有效地保护钻杆，而且施工占用空间更小；前、后夹钳可分离，可根据钻杆规格可更换相应夹块。
- 标配φ127×6000mm钻杆；主轴浮动，有利于保护钻杆丝扣。
- 采用四连杆变幅机构，变角范围大（0°~18°），钻机重心低，稳定性好。
- 比例线控行走系统，确保设备和人员安全，钻机行走、转场和装卸车方便快捷。
- 全开启动机械手，钻杆自动滑落，无需人工卸杆，节省人工费用。
- 车载操作室空间大、可升降，配备冷暖空调。
- 液晶人机交互系统，可实时监控、调整设备状态，操作更简便、更舒适。
- 系统设置自动与人工2种操作模式，自动操作状态下可根据地质状况及时调整钻机运行参数，从而达到保护钻机的目的。
- 配置双动力系统，可根据工况要求选择单机或双机工作，节约燃油费用。



原装进口法国波克兰马达
ORIGINAL IMPORTED FRENCH POCLAIN MOTOR



专利技术：旋转机械手
PATENT TECHNIQUE: ROTARY MANIPULATOR

GS2200-L/LS 水平定向钻机

Horizontal Directional Drilling Machine

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1、康明斯涡轮增压发动机，动力强劲，性能稳定，油耗低于其他发动机；
- 2、推拉装置配置法国波克兰高压柱塞马达，传动结构简单、性能可靠，推拉多级变速，推拉力可达2200kN，工作效率与速度行业领先；
- 3、旋转配置法国波克兰高压柱塞马达马达，旋转多级变速，大大提高了工作效率；
- 4、采用挖掘机双速马达；
- 5、夹持器中心低，不仅能有效地保护钻杆，而且施工占用空间更小；前、后夹钳可分离，可根据钻杆规格可更换相应夹块；
- 6、主轴浮动，有利于保护钻杆丝扣；
- 7、采用四连杆变幅机构，变角范围大（10°~22°），钻机重心低，稳定性好；
- 8、比例线控行走系统，确保设备和人员安全，钻机行走、转场和装卸车方便快捷；
- 9、谷登专利旋转机械手，钻杆自动滑落，无需人工卸杆，节省人工费用；
- 10、车载操作室空间大、可升降，配备冷暖空调；
- 11、液晶人机交互系统，可实时监控、调整设备状态，操作更简便、更舒适；
- 12、系统设置自动与人工2种操作模式，自动操作状态下可根据地质状况及时调整钻机运行参数，从而达到保护钻机的目的；
- 13、配置双动力系统，可根据工况要求选择单机或双机工作，节约燃油费用。

1. The machine is equipped with Cummins turbocharged engine, which is characterized with strong power, and stable performance. The oil consumption is lower than other engine.
2. Push & pull device is equipped with French Poclair high pressure piston motor with simple transmission structure and reliable performance. Push & pull has multiple variable speed, and push-pull force can reach 1300KN. The working efficiency is the top rank in this industry.
3. Rotation is equipped with French Poclair high pressure piston motor, with infinitely variable speed, which can improve working efficiency greatly.
4. The machine is equipped with the double speed motor of excavator.
5. Low clamping center can protect the drill rod effectively, and takes up small construction space. Front and back clamps can be separated, and the clamping can change block according to drill rod specification.
6. The floating spindle is in favor of protecting drill pipe thread.
7. Four bar linkage luffing structure increases entry angle range (10°~22°). The machine has low gravity center and good stability.
8. Proportional wire control walking system ensures the safety of people and rig in the process of walking, loading and unloading.
9. Rotary Manipulator is Goodeng's patent. The drill rods slip automatically, so there is no need to unload drill rod with people to save labor charge.
10. The operating room with warm/cool AC, can be lifted up and down.
11. Liquid crystal man and rig exchange system can monitor rig condition at any time, which can adjust rig work, making operation simpler and more comfortable.
12. There are two operation systems, automatic operation system and manual operation system. In automatic operation condition, it can adjust rig parameter on time according to soil condition to protect the rig.
13. With double power system, you can choose single engine or dual engine to work according to the project requirement, saving oil charge.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------------------------------|----------------------------------|------------------------------------|
| 整机质量 Rig Weight | 29000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 11000*2450*3100 (mm) |
| 最大推拉力 Max. Push & Pull force | 2200 kN | 最大扭矩 Max Torque | 83000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 41 m/min | 最高回转速度 Max Rotation Speed | 90 r/min |
| 发动机功率 Engine Power | 2*239 kW/2*242 kW | 泥浆泵最大流量 Max Mud Pump Flow | 自选 外置 Optical Extra Mud Pump |
| 履带行走速度 Caterpillar Walking Speed | 3-6 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 自选 外置 Optical Extra Mud Pump |
| 入土角度 Entry Drill Angle | 10°-22° | 最大爬坡度 Max Climbing Gradient | 20° |
| 最大回扩孔径 Max Aperture Diameter | ∅1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 1500 m (根据地质状况) (Soil Depended) |



GD2600-L/LS 水平定向钻机

Horizontal Directional Drilling Machine

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--|----------------------------------|--------------------------------------|
| 整机质量 Rig Weight | 45000 kg | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 16600*2950*3400 (mm) |
| 最大推拉力 Max. Push & Pull force | 2600 kN | 最大扭矩 Max Torque | 85000 N·m |
| 最高推拉速度 Max. Push & Pull speed | 35 m/min | 最高回转速度 Max Rotation Speed | 100 r/min |
| 发动机功率 Engine Power | 2*239/2*242 kW | 泥浆泵最大流量 Max Mud Pump Flow | 自选 外置 Optical Extra Mud Pump |
| 履带行走速度 Caterpillar Walking Speed | 4 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 自选 外置 Optical Extra Mud Pump |
| 入土角度 Entry Drill Angle | 9°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1500 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 1600 m (根据地质状况) (Soil Depended) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1、液压系统：推拉、旋转、行走采用闭式系统，电液比例控制。
- 2、配置双动力系统，满足不同工况的需要，可灵活实现双机工作或单机工作，节能降耗；一套液压系统或发动机出现故障时，另一套系统可正常工作（力量不变、速度减慢），大大提高了施工的安全性。
- 3、前、后夹钳可分离，夹持器全程浮动。
- 4、标配φ127/φ140×9600mm钻杆；主轴浮动，有利于保护钻杆丝扣。
- 5、浮动大梁，有利于爬坡和运输，也便于调整入射角。
- 6、比例线控行走系统，确保行走、装卸车过程中的人机安全。
- 7、电控手柄，电路简单，安全可靠，灵敏度高。
- 8、车载驾驶室空间宽大，可调节式座椅，更人性，更舒适。
- 9、为提升设备作业能力，液压系统采取大流量、高压化设计，配置谷登机械自主设计的插装式控制阀组，系统响应快速，系统压力损失可降低50%左右。
- 10、自主设计研发的电液联合控制系统，实现了主机对不同工况、不同地质的自适应控制，可提高主机施工效率30%左右。系统设置自动操作与人工操作2种模式；自动操作状态下，根据地质情况及时调整钻机运行参数，并对钻机实现自动调整，达到保护钻机安全的目的。
- 11、液晶人机交互系统，可随时调整设备工作、报警参数，实时监控设备的状态，使操作更加简便、舒适。
- 12、合理有效的冲洗冷却系统，保证了系统运行的可靠性、高效性；避免马达损坏，延长使用寿命。

1. Hydraulic system: Closed-circuit system is adopted for push-pull rotation walking, with electro-hydraulic proportional control.
2. The machine is equipped with two diesel engines, so one or two engines working is realized to meet different conditions, and it can save energy. If one set hydraulic system or one of the two engines breaks down, the other one can still be operated normally (with the same force and lower speed), which can greatly improve construction safety.
3. Front and back clamping can be separated, and the clamping floats in the whole process.
4. It is equipped with φ127 or φ140 ×9600mm drill pipe. The floating spindle is in favor of protecting drill pipe thread.
5. Floating girder is good for loading, unloading, climbing and transportation, and it is convenient for adjusting entry angle, which can effectively protect clamps.
6. Proportional wire control walking system ensures man and rig safety in the process of walking, loading and unloading.
7. It is equipped with electrical control handle, with simple electric circuit, safe, reliable, and sensitive.
8. The spacious operation cab is equipped with adjustable seat, which is more humanized and more comfortable.
9. To enhance the executing mechanism ability, hydraulic system is designed in conformity to large flow and high pressure. Our self-designed inserting control valve group reacts fast and reduces 50% pressure loss in hydraulic system.
10. Self-designed and developed, combined electronic controlling system realizes its adaptive control to different working condition and different geologic strata, improving the 30% efficiency of construction. The system is configured with both auto-operation and man-operation. Auto-operation could timely adjust the running parameter according to the strata situation and automatically adjust the rig for rig protection.
11. Liquid crystal man and rig exchange system can monitor rig condition at any time, which can adjust rig work and alarm parameter, making operation simpler and more comfortable.
12. Rational and effective washing and cooling system ensures safety, reliability and efficiency of system, extends motor using lifespan, and avoids motor damages.



GD3500-L/LS 水平定向钻机

Horizontal Directional Drilling Machine

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|---|--------------------------------------|--|------------------------------------|
| 主机质量 Rig Weight | 56000 kg | 主机外形尺寸(长*宽*高) Dimension(L*W*H) | 18610*3400*3600 (mm) |
| 最大扭矩 Max Torque | 125000 N·m | 最大推拉力 Max Push & Pull Force | 3700 kN |
| 最高旋转速度 Max Rotation Speed | 95 rpm | 最高推拉速度 Max Push & Pull Speed | 45 m/min |
| 最大夹持力 Max Clamp Force | 2540 kN | 最大卸扣力 Max Unscrewing Force of Pipe Jaw | 367000 N·m |
| 发动机功率 Engine Power | 2*264 kW | 最高工作压力 Max Working Pressure | 35 MPa |
| 钻杆直径 Drill Pipe Diameter | φ127 mm - φ140 mm | 钻杆最大长度 Max Length of Drill Pipe | 9.6 m |
| 入射角 Entry Angle | 8°-18° | 履带最高行走速度 Max Caterpillar Walking Speed | 2.5 km/h |
| 主轴浮动距离 Main Spindle Floating Distance | 100 mm | 泥浆通道直径 Mud Pipe Channel Diameter | 3" |
| 最大泥浆通过量 Max Mud Floating Volume | 2000 L/min | 最高泥浆压力 Max Mud Pressure | 20 MPa |
| 工作允许环境温度 Permitted Environment Temperature | -30°C ~ 50°C | 工作允许环境湿度 Permitted Environment Humidity | >90% |
| 最大回扩孔径 Max Aperture Diameter | φ2000 mm(根据地质状况) (Soil Dependent) | 最大施工距离 Max Crossing Length | 2000 m(根据地质状况) (Soil Dependent) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1、主液压系统：高压电比例控制开式系统，较之闭式系统无补油压力导致的压差损失，系统更加节能、环保，主机作业能力进一步提升。
- 2、双动力系统（双发），满足不同工况的需要，可灵活实现双机工作或单机工作，节能减耗；一套液压系统或发动机出现故障时，另一套系统可正常工作（力量不变、速度减慢），大大提高了施工的安全性。
- 3、动力头旋转及推拉速度为全比例线性无级调速。
- 4、前、后夹钳可分离，夹持器全程浮动。
- 5、标配φ127×9600 mm、φ140×9600 mm钻杆或168×9600 mm钻杆；主轴浮动，有利于保护钻杆丝扣。
- 6、浮动大梁，有利于运输和爬坡，便于调整入射角，动力头行程达11米，可有效保护夹持器。
- 7、主机行走采用宽钢履带，便于上下车，无需拆装，可直接移动就位。
- 8、驾驶室双人位，宽敞舒适，可升高、旋转，视野开阔。
- 9、配置中间钻杆托架，提高装卸钻杆的准确性，大幅提升工作效率。
- 10、主控制阀：根据钻机施工特点自主设计并享有专利保护的主切换阀；结构简单可靠，确保无故障运行；大通径设计，节流损失更小、发热量小、更加节能、外形紧凑等；动力系统布局更合理，在不影响钻机扭矩及推拉力的情况下提高推拉速度，从而满足在不同工况下对速度的需求。
- 11、为提高设备作业能力，液压系统采用大流量、高压化设计；我司自主设计的插装式控制阀组技术，使系统响应更快，可压力降低损失50%左右。
- 12、自主设计开发的电液联合控制系统，实现了主机对不同工况、不同地质的自适应控制，可提高主机施工效率30%左右。
- 13、液晶人机交互系统实时监控设备状态，可随时调整设备工作、报警参数，使操作更简便、更舒适。
- 14、合理有效的冷却系统，保证了系统运行的安全性、可靠性、高效性；避免马达损坏，延长马达使用寿命。
- 15、系统设置自动操作与人工操作状态，自动操作状态下可根据地质情况及及时调整钻机运行参数，并对钻机实现自动调整，达到有效保护钻机和钻杆的目的。

1. Main hydraulic system: High pressure electric control open-circuit system, compared to closed-circuit system, there is no pressure difference loss caused by oil-adding pressure, the system is more energy-saving and environmentally friendly, and rig work ability can be further enhanced.
2. The machine is equipped with two diesel engines, and one can choose one or two engines to work according to different conditions, so energy is saved. If one of the twin engines breaks down, the other one can still be operated normally (with the same force and low speed), which can greatly improve construction safety.
3. Proportional linear stepless regulation is adopted for driving head rotation and push & pull speed.
4. Front and back clamping can be separated, and the clamping floats in the whole process.
5. It is equipped with φ127×9600mm, φ140×9600mm or φ168×9600mm drill pipe. Floating spindle can further protect the drill pipe thread.
6. Floating girder is good for loading, unloading, climbing and transportation, which is convenient for adjusting entry angle, and the power head length can reach 11 meters, which can effectively protect clamps.
7. Wide steel walking track is convenient for loading and unloading directly in position without taking apart.
8. Two seats are in operation cab, spacious and comfortable, and can be lifted, rotated, with open field of vision.
9. Drill pipe bracket in the middle increases the accuracy of drill pipe loading and unloading, which can highly improve working efficiency.
10. Main control valve: The main switch valve is independently designed according to rig construction conditions, with patent protection. The simple and reliable structure can ensure smooth operation. Big drift diameter design is characterized with smaller throttling loss, smaller heating power, more energy saving, compact shape etc. More reasonable power system structure can improve push-pull speed on the condition of not affecting rig torque and push-pull force, hence meeting speed demands in different construction conditions.
11. To enhance the executing mechanism ability, hydraulic system is designed in conformity to large flow and high pressure. Our self-designed inserting control valve group reacts fast and reduces 50% pressure loss in hydraulic system.
12. Self-designed and developed, combined electronic controlling system realizes its adaptive control to different working conditions and different geologic strata, improving 30% efficiency of construction.
13. Liquid crystal man and rig exchange system can monitor rig condition at any time, which can adjust rig work and alarm parameter, making operation simpler and more comfortable.
14. Rational and effective cooling system ensures safety, reliability and efficiency of system, extends motor using lifespan, and avoids motor damages.
15. System is configured with both auto-operation and man-operation. Auto-operation could timely adjust the running parameter according to the strata situation and automatically adjust the rig for rig and drill rod protection.

GS5000-L/LS 水平定向钻机

Horizontal Directional Drilling Machine



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|---|--------------------------------------|--|------------------------------------|
| 主机质量 Rig Weight | 57500 kg | 主机外形尺寸(长*宽*高) Dimension(L*W*H) | 17700*2500*3460 (mm) |
| 最大扭矩 Max Torque | 140000 N·m | 最大推拉力 Max Push & Pull Force | 6000 kN |
| 最高旋转速度 Max Rotation Speed | 92 rpm | 最高推拉速度 Max Push & Pull Speed | 45 m/min |
| 最大夹持力 Max Clamp Force | 2550 kN | 最大卸扣力 Max Unscrewing Force of Pipe Jaw | 370000 N·m |
| 发动机功率 Engine Power | 2*294 kW | 最高工作压力 Max Working Pressure | 35 MPa |
| 钻杆直径 Drill Pipe Diameter | φ127 mm - φ168 mm | 钻杆最大长度 Max Length of Drill Pipe | 9.6 m |
| 入射角 Entry Angle | 9°-16° | 履带最高行走速度 Max Caterpillar Walking Speed | 4.5 km/h |
| 主轴浮动距离 Main Spindle Floating Distance | 100 mm | 泥浆通道直径 Mud Pipe Channel Diameter | 3" / 4" |
| 最大泥浆通过量 Max Mud Floating Volume | 2000 L/min | 最高泥浆压力 Max Mud Pressure | 12 MPa |
| 工作允许环境温度 Permitted Environment Temperature | -30°C~50°C | 工作允许环境湿度 Permitted Environment Humidity | >90% |
| 最大回扩孔径 Max Aperture Diameter | φ2000 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 2500 m (根据地质状况) (Soil Depended) |

主要配置 MAIN EQUIPMENTS

1. 配置双动力(国Ⅲ排放)系统;
2. 德国力士乐主泵、马达, 高压电比例控制开式系统;
3. 自动上、卸钻杆装置;
4. 5t随车吊;
5. 独立式宽大操作室, 豪华装修, 精致内饰, 配置冷暖空调及桌椅床等;
6. PLC 智能程序控制系统;
7. 配置有线导向;
8. 履带线控行走, 速度两档可调(高速、低速);
9. 配置电控泥浆卸压装置;
10. 预留3寸泥浆接口;
11. 大梁带行走平台。

1. Dual drive engine system meets national III-phase exhaust standard
2. Germany Rexroth main pump and motors, open circuit with high pressure proportional electrical control.
3. Automatic rod loading/unloading equipment.
4. 5t crane.
5. Independent luxury operation cabin with AC and furniture.
6. PLC computer program control system
7. Wire guidance available.
8. Wire control walking with high/low speed choice.
9. Slurry pressure release equipment with electrical control.
10. 3 inch slurry port reservation
11. Gird with pedestrian platform.

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 整机结构: 主机与动力系统一体式结构, 外形紧凑、2.5m宽度、3.4m高度, 满足国内、外交通运输法规, 方便运输。
2. 国内首创设计: 大型钻机配置机械手, 可自动完成上、卸杆动作, 极大节省人工成本, 提高工作效率。
3. 配置两台潍柴大功率高效低噪发动机, 可灵活实现双机工作或单机工作, 节能降耗。
4. 主液压系统: 高性能电比例控制开式系统, 较之闭式系统, 无需系统补油, 系统更加节能, 主机作业能力进一步提升。
5. 动力头旋转及推拉为全比例线性无级调速。
6. 夹持器前、后夹钳可分离, 可全程浮动; 夹持器前方配置托杆机构, 有效减小钻杆与夹持器的互相磨损。
7. 适用φ140×9600mm、φ168×9600mm钻杆, 主轴浮动, 有利于保护钻杆杆丝扣。
8. 浮动大梁、前后油缸, 可调整入射角, 便于上下车及运输。
9. 履带式行走装置, 可在施工环境直接移动就位。
10. 采用独立驾驶室, 内含工作与生活基本设施, 装饰精致、宽敞舒适、视野开阔。
11. 配置中间钻杆托架, 提高上卸钻杆的准确性, 大幅提升工作效率。
12. 主控制阀: 结构简单可靠, 确保无故障运行; 大通径设计, 节流损失更小, 系统发热量小, 更加节能; 外形紧凑, 布局合理更加适应钻机动力系统布置, 可以在不影响主轴扭矩及推拉力的情况下增加推拉速度, 从而满足在不同工况下对速度的需求。
13. 为满足执行机构作业能力, 液压系统采取大流量、高压化设计; “谷登机械”自主设计的控制阀组, 系统响应快, 压力损失低。
14. 自主设计的电液联合控制系统, 实现了主机对不同工况, 不同地质的自适应控制; 提高主机施工效率20%-30%。
15. 整车线束电路, 简单、稳定、可靠。
16. 液晶人机交互系统, 可随时控制设备工作, 实时监控设备的状态, 使操作更简便、更舒适。
17. 独立高效节能的冷却系统, 保证了系统运行的可靠性、高效性; 并延长了马达的使用寿命, 避免马达损坏。

1. The rig frame, which is attached to the power system, compact, 2.5m wide, and 3.4m tall, meets the demands of transportation regulation both at home and abroad.
2. It is an initial design domestically that large rig is equipped with manipulator to automatically load/unload rods, which is significant to save labor cost and enhance working efficiency.
3. The machine is equipped with two sets Weichai engine, which features high efficiency and low noise. One or two engines can be applied flexibly, saving energy and reducing fuel consumption.
4. High-performance proportional electrical control open circuit system is adopted for main hydraulic system, and there is no need for oil supplement compared to closed circuit system, making it more efficient.
5. Driving head rotation and push & pull are performed in full-scale stepless speed regulation.
6. Front and back clamping can be separated, and float in the whole process. The front of clamp is equipped with rod supporting mechanism, which can reduce clamping abrasion effectively.
7. It is equipped with φ140×9600mm or φ168×9600mm drill rod, and the floating spindle is in favor of protecting drill pipe thread.
8. Floating girder and front/back cylinder make entry angle adjustable, which is easy to load/unload and transport.
9. Steal track walking system is convenient for transferring at site.
10. It is equipped with independent operation cabin with necessary and comfortable decoration.
11. Drill pipe bracket in the middle increases the accuracy of drill pipe loading and unloading, which can highly improve working efficiency.
12. About Main control valve. The simple and reliable structure can ensure smooth operation. Big drift diameter design is characterized with smaller throttling loss, smaller heating power, more energy saving, compact shape etc. More reasonable power system structure can improve push-pull speed on the condition of not affecting rig torque and push-pull force, hence meeting speed demands in different construction conditions.
13. The design of large flow and high pressure is adopted for hydraulic system, and the self-designed control valve group ensures the fast response and low-pressure loss.
14. The electricity-liquid combined control system realizes the self-adapting control of machine to the different construction situation, increasing the working efficiency by 20%-30%.
15. The cable of the electrical circuit is simple, stable and reliable.
16. The LCD human-computer interaction system offers real-time inspection and control, making the operation easier and more comfortable.
17. Rational and effective cooling system ensures safety, reliability and efficiency of system, extends motor using lifespan, and avoids motor damage.



GS6000-T/TS 水平定向钻机

Horizontal Directional Drilling Machine

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1. 动力系统**
 - a) 410KW×3台电控东风康明斯发动机，通过电液控制功率系统实现了各种工况下与液压系统功率的完美匹配，动力强劲，节能环保。独立布置的动力站，结构按集装箱尺寸设计，运输方便。
 - b) 根据施工要求，可实现单机工作、双机工作、三机工作组合。
 - c) 基于多项安全保护措施的柴油监控系统，便于观察、记录柴油机运行状态，并在故障及不利于柴油机运行情况下及时保护柴油机。
- 2. 液压系统**
 - a) 主驱动油泵：原装进口德国力士乐高压大流量斜盘式轴向柱塞泵，电控恒功率+压力切断+电比例排量控制，实现了流量按需供给，避免了压力损失和流量损失，并带有压力自动保护，液压系统运行更加安全、节能。
 - b) 主控制阀：根据钻机施工特点自主设计并享有专利保护的主动切换阀，结构简单可靠，确保无故障运行，大通径设计，节流损失更小，系统发热量小，更加节能，外形紧凑，布局合理更加适应钻机动力系统设计。
 - c) 旋转、推液马达：享有盛誉并引领行业标准的德国力士乐高压轴向柱塞马达，出色的重载高压及低速适应能力，拖管工况下强劲、平稳，确保了工程施工的安全可靠。
 - d) 主液压系统：高压电比例控制开式系统，较之闭式系统，无补油压力导致的压差损失，系统更加节能，主机作业能力进一步提升。
 - e) 推液旋转控制：动力头旋转及推液速度为全比例线性无极调速，工作压力可在设置的范围内实行远程调节控制，便于随时调整扭矩及推拉力，确保工程及钻具安全。
 - f) 行走减速机总成：挖掘机大量使用的紧凑型高压重载行走减速机总成，可靠性更高；更大的输出扭矩，提供了强劲的行走及爬坡能力，可适应更加恶劣的地面及坡地。
 - g) 辅助液压系统：经典的萨澳高压负载敏感油泵+比例控制多路阀组成的开式系统，确保了夹持器的卸扣能力。同时，各辅助动作控制更加精准、可靠、有力。
 - h) 液压附件：大容量高精过滤器，确保了系统清洁度并延长了维护保养间隔；关键管路采用意大利原装进口高压钢丝胶管。
 - i) 快速管路连接系统：意大利原装进口高压大通径快速接头+意大利原装进口高压钢丝胶管，确保了主机与动力站的快速、可靠连接与拆卸，且该过程中最小的漏油量可满足苛刻的环保要求。
- 3. 电气系统**
 - a) 软件：包含一系列自主开发的安全控制系统及辅助施工控制软件，诸如“整车自诊断系统”，“自动垂直钻进系统”，“电子压力切断系统(压力自动保护)”，“自动取消临时限位功能”等，更人性化的设计和强大的纠错能力，最大限度发挥钻机能力，提高了使用作业效率。
 - b) 硬件：美国原装进口工程机械专用控制器，可适应钻机恶劣的施工环境，防水、防震、防尘、防电磁干扰，且在钻机机上得到了充分的安全运行验证，确保了电液控制系统的可靠运行。
- 4. 结构设计特点**
 - a) 主机、动力站、操作室分体设计，主机采用轮式拖车方案，运输尺寸符合法规要求。
 - b) 动力站、操作室模块化设计，接口符合集装要求。
 - c) 10台推液马达采用高强度大扭矩离合器手动离合器操作，可轮流替换使用，以延长马达及减速机使用寿命，旋转马达带离合器。
 - d) 动力头推液传动形式为齿轮/齿条。
 - e) 主轴承浮动，方便钻杆卸扣，消除交变应力，延长钻杆使用寿命。
 - f) 前、后夹钳可分离，夹持器全程浮动，根据钻杆规格可更换相应夹块。
 - g) 有线控制。
 - h) 配置泥浆加压装置。
 - i) 独立操作室，多人位，宽敞舒适，视野开阔，配置冷暖空调。
 - j) 大梁一侧及尾部装有防滑走道及护栏。
 - k) 泥浆泵及泥浆混合系统独立外置，用户可选配。
 - l) 配钻杆机械手，可大大提高上下钻杆的效率。
 - m) 高耐磨、高冲击合金钢齿圈齿条。

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|---|---------------------------------------|--|-------------------------------------|
| 主机质量 Rig Weight | 52 t | 主机外形尺寸(长*宽*高) Dimension(L*W*H) | 20400*2500*3740 (mm) |
| 最大扭矩 Max Torque | 173000 N·m | 最大推拉力 Max Push & Pull Force | 6700 kN |
| 最高旋转速度 Max Rotation Speed | 90 rpm | 最高推液速度 Max Push & Pull Speed | 40 m/min |
| 最大夹持力 Max Clamp Force | 1500 kN | 最大卸扣力 Max Unscrewing Force of Pipe Jaw | 420000 N·m |
| 发动机功率 Engine Power | 3*410 kW | 最高工作压力 Max Working Pressure | 35 MPa |
| 钻杆直径 Drill Pipe Diameter | φ168 mm - φ194 mm | 钻杆最大长度 Max Length of Drill Pipe | 9.6 m |
| 入射角 Entry Angle | 8°-18° | 动力站外形尺寸(长*宽*高) Power Station Size (L*W*H) | 20400*2500*3740 (mm) |
| 主轴浮动距离 Main Spindle Floating Distance | 110 mm | 泥浆通道直径 Mud Pipe Channel Diameter | 4" |
| 最大泥浆通过量 Max Mud Floating Volume | 3000 L/min | 最高泥浆压力 Max Mud Pressure | 20 MPa |
| 工作允许环境温度 Permitted Environment Temperature | -20°C~45°C | 工作允许环境湿度 Permitted Environment Humidity | >90% |
| 最大回扩孔径 Max Aperture Diameter | φ2000 mm (根据地质状况) (Soil Dependent) | 最大施工距离 Max Crossing Length | 2500 m (根据地质状况) (Soil Dependent) |



GS8000-T/TS 水平定向钻机

Horizontal Directional Drilling Machine

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 动力系统
 - a) 410KW×3台电控东风康明斯发动机，通过电控功率控制系统实现了各种工况下与液压系统功率的完美匹配，动力强劲，节能环保。独立动力站，结构按集装箱尺寸设计，运输方便。
 - b) 根据施工要求，可实现单机工作、双机工作、三机工作组合。独立布置的动力站，结构按集装箱尺寸设计，运输方便。
 - c) 基于多项安全保护措施，柴油机油控系统，便于观察、记录柴油机运行状态，并在故障及不利于柴油机运行情况下及时保护柴油机。
2. 液压系统：
 - a) 主驱动油泵：原装进口德国力士乐高压大流量斜盘式轴向柱塞泵，电控恒功率+压力切断+电比例排量控制，实现了流量按需供给，避免了压力损失和流量损失，并带有压力自动保护，液压系统运行更加安全、节能。
 - b) 主控制阀：根据钻机施工特点自主设计并享有专利保护的主控制阀，结构简单可靠，确保无故障运行，大通径设计，节流损失更小，系统发热量小，更加节能，外形紧凑，布局合理更加适应钻机动力系统布置。
 - c) 旋转、推拉液压马达：享有盛誉并引领行业标准的德国力士乐高压轴向柱塞马达，出色的重载高压及低速适应能力，推管工况下强劲、平稳，确保了工程施工的安全可靠。
 - d) 主液压系统：高压电比例控制开式系统，较之闭式系统，无补油压力导致的压差损失，系统更加节能，主机作业能力进一步提升。
 - e) 推拉旋转控制：动力头旋转及推拉速度为全比例线性无极调速，工作压力可在设置的范围内实现远程调压控制，便于随时调整扭矩及推力，确保工程及钻具安全。
 - f) 辅助液压系统：经典的萨澳高压负载敏感油泵+比例控制多路阀组成的开式系统，确保了夹持器的卸扣能力。同时，各辅助动作控制更加精准、可靠、有力。
 - g) 液压附件：大容量高转速过滤器，确保了系统清洁度并延长了维护保养间隔；关键管路采用意大利原装进口高压钢丝胶管。
 - h) 快速管路连接系统：意大利原装进口高压大通径快速接头+意大利原装进口高压钢丝胶管，确保了主机与动力站的快速、可靠连接与拆卸，且该过程中极小的漏油量可满足环保要求。
3. 电气系统：
 - a) 软件：包含一系列自主开发的安全控制系统及辅助施工控制软件，诸如“整车自诊断系统”，“电子压力切断系统(压力自动保护)”，“自动取消临时限位功能”等。更人性化的设计和强大的纠错能力，最大限度发挥钻机的能力，提高了使用作业效率。
 - b) 硬件：美国原装进口工程机械专用控制器，可适应钻机恶劣的施工环境，防水、防震、防尘、防电磁干扰。且在挖掘机上得到了充分的安全运行验证，确保了电控系统的可靠运行。
4. 结构设计特点
 - a) 主机为拖车式(拖轮可独立转向)，与汽车车头连接后直接上普通道路运输，主机配备辅助发动机，为拖轮独立转向提供动力，方便运输转移。
 - b) 动力站、操作室模块化设计，接口符合集装箱要求。
 - c) 配备主机滑移装置，便于无车时小范围移动，以及辅助转移。
 - d) 12台推拉马达采用高强度大扭矩离合器手自一体离合操作，可轮流替换使用，以延长马达及减速机使用寿命，旋转马达带离合器。
 - e) 动力头推拉传动形式为齿条/齿条。
 - f) 主轴承浮动，方便钻杆卸扣，消除交变应力，延长钻杆使用寿命。
 - g) 前、后夹钳可分离，夹持器全浮浮动。根据钻杆规格可更换相应夹块座。
 - h) 有线控制。
 - i) 配置泥浆卸压装置。
 - j) 独立操作室，多人位，宽敞舒适，视野开阔。配置冷暖空调。
 - k) 大梁一侧及末端装有防滑走道及护栏。
 - l) 泥浆泵站及泥浆混配系统独立外置，用户可选配。
 - m) 配钻杆机械手，可大大提高上下钻杆的效率。
 - n) 高耐磨、高冲击合金钢齿圈齿条。

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|---|---------------------------------------|--|-------------------------------------|
| 主机质量 Rig Weight | 67 t | 主机外形尺寸(长*宽*高) Dimension(L*W*H) | 21600*2700*3900 (mm) |
| 最大扭矩 Max Torque | 210000 N·m | 最大推拉力 Max Push & Pull Force | 8040 kN |
| 最高旋转速度 Max Rotation Speed | 90 rpm | 最高推拉速度 Max Push & Pull Speed | 42 m/min |
| 最大夹持力 Max Clamp Force | 1526 kN | 最大卸扣力 Max Unscrewing Force of Pipe Jaw | 610000 N·m |
| 发动机功率 Engine Power | 3*410 kW | 最高工作压力 Max Working Pressure | 35 MPa |
| 钻杆直径 Drill Pipe Diameter | φ168 mm - φ254 mm | 钻杆最大长度 Max Length of Drill Pipe | 9.6 m |
| 入射角 Entry Angle | 9°-16° | 动力站外形尺寸(长*宽*高) Power Station Size (L*W*H) | 6100*2500*2700 (mm) |
| 主轴浮动距离 Main Spindle Floating Distance | 110 mm | 泥浆通道直径 Mud Pipe Channel Diameter | 4" |
| 最大泥浆通过量 Max Mud Floating Volume | 3000 L/min | 最高泥浆压力 Max Mud Pressure | 20 MPa |
| 工作允许环境温度 Permitted Environment Temperature | -20°C~45°C | 工作允许环境湿度 Permitted Environment Humidity | >90% |
| 最大回扩孔径 Max Aperture Diameter | φ2000 mm (根据地质状况) (Soil Dependent) | 最大施工距离 Max Crossing Length | 3000 m (根据地质状况) (Soil Dependent) |



GS12000-T/TS 水平定向钻机

Horizontal Directional Drilling Machine

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 动力系统：配置3台大功率发动机（沃尔沃 Volvo/康明斯Cummins），动力强劲，三台发动机均能实现单机独立工作，满足不同工况的需要，节能减耗，提高了系统冗余能力，提高系统的可靠性。
2. 独特的动力头结构的设计：
 - a) 双重结构齿轮箱，有限元刚度、强度双重标准设计，齿轮箱强度高。
 - b) 齿轮箱沉入式设计，充分改善在最大推拉力下齿轮箱的受力情况。
 - c) 动力头主轴浮动设计。
3. 四点式全新优化设计夹持器，结构刚度、结构强度、油缸强度提高，卸扣扭矩增大，现场维护更换夹条更方便，夹持器可全程浮动，夹持力可根据钻杆大小及工况电比例无极可调。
4. 可选配大型钻机自动化上杆机械手，谷登专利技术，技术成熟可靠，自动化程度高，解放劳动力，降低劳动强度。
5. 人性化智能电液联合控制与电液监控系统应用：
 - a) 数字化显示钻机运行参数：回转扭矩、回转压力、回转速度、推拉力、推拉压力、推拉速度、夹持器压力、泥浆压力等。
 - b) 电-液智能监控及诊断系统：实现液压系统故障自动检测与诊断，极大地方便后期钻机的保养和维护。
 - c) 电-液联合控制系统：实现设定恒定扭矩自动钻进，避免由于误操作导致钻杆等过度弯曲和损坏。
 - d) 岩石工况垂摆电控功能应用，岩石工况专用模式，极大地提升入岩效率。
6. 离合器专利技术应用：在回转和推拉传动系统上应用机械离合器和液压离合器，有利于分工况控制参与工作马达的数量，提高动力系统的效率。
7. 钻杆反弹能量回收释放系统（核心技术），防止回转马达超速或过载损坏，避免大直径岩石工程马达的损坏。
8. 行业领先的高性能电比例正流量液压控制系统，高效率、低能耗、耐高温、耐污染、防交叉污染，世界一流品牌的液压元器件。
9. 一流世界品牌的电气元件选用，一体化的线束设计，保证电气系统可靠性和稳定性。
10. 主机为拖车式，与汽车车头连接后直接上普通道路运输，方便运输转移。
11. 驾驶室宽敞明亮，人性化的操作台设计，操作更舒适、方便，控制精准。
12. 主机设有护栏和人行防滑通道。

1. Power system: The machine is equipped with 3 sets high-power engine (Volvo/Cummins). Three engines can work independently to meet the different working condition, making it energy-saving and systematically reliable.
2. Unique driving head design
 - a) Dual structure gear box with finite element stiffness and strength standard design, making it extremely strong.
 - b) Submerged design improves the stress condition under max push & pull force.
 - c) Driving head adopts main shaft floating design.
3. Brand-new optimized four-point clamp, the improvement of structure stiffness, strength, cylinder strength and the increase of unscrewing torque making it easy to change the grips, clamp is all-floating and clamping force is stepless adjustable in accordance with the rod size and working condition.
4. Optional heavy-duty automatic manipulator is Goodeng patent to relieve the heavy labor work.
5. Application of intelligent electrical-hydraulic combined control and monitor system
 - a) Digitally display rig working parameters: rotation torque, rotation pressure, rotation speed, push & pull force, push & pull pressure, push & pull pressure speed, clamping pressure, slurry pressure etc.
 - b) electrical-hydraulic intelligent monitor and debug system: automatically inspect and debug hydraulic system fault, convenient for the maintain.
 - c) electrical-hydraulic combined control system: set constant torque for automatic drilling, avoid the overbend and damage of drill rod by misoperating.
 - d) Application of pendulum electrical control technique for rocky condition, specialize for rocky condition, enhance the efficiency of drilling in the rock.
6. Application of clutch patented technology: the application of mechanic and hydraulic clutch in rotation and push & pull transmission system can decide the quantity of working motors in accordance with working requirement to improve the efficiency of power system.
7. Rod rebound energy recycle and release system (core technology): avoid the damage of motor due to overspeed and overload, especially for large diameter rock drilling project.
8. Advanced electric proportional hydraulic control system: adopt high-efficiency, energy-saving, high temperature resistant, pollution resistant, state-of-the-art hydraulic components.
9. The selection of state-of-the-art electrical components and the integral design of wiring harness ensure the reliability and stability of electrical system.
10. Main body is design as trailer, connecting with automobile head, it can be transported directly on ordinary road, which is convenient for transportation and transfer.
11. The operation cabin is capacious and bright with humanized bench board make it easy and comfortable for work.
12. Main rig is fitted with non-slip passage and guardrail.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|---|--------------------------------------|--|------------------------------------|
| 主机质量 Rig Weight | 81 t | 主机外形尺寸(长*宽*高) Dimension(L*W*H) | 21400*3200*3800 (mm) |
| 最大扭矩 Max Torque | 250000 N·m | 最大推拉力 Max Push & Pull Force | 12000 kN |
| 最高旋转速度 Max Rotation Speed | 85 rpm | 最高推拉速度 Max Push & Pull Speed | 40 m/min |
| 最大夹持力 Max Clamp Force | 2900 kN | 最大卸扣力 Max Unscrewing Force of Pipe Jaw | 520000 N·m |
| 发动机功率 Engine Power | 2*565 kW、1*264 kW | 最高工作压力 Max Working Pressure | 35 MPa |
| 钻杆直径 Drill Pipe Diameter | φ168 mm-φ254 mm | 钻杆最大长度 Max Length of Drill Pipe | 9.6 m |
| 入射角 Entry Angle | 8°-18° | 动力站外形尺寸(长*宽*高) Power Station Size (L*W*H) | 6100*2500*2700 (mm) |
| 主轴浮动距离 Main Spindle Floating Distance | 140 mm | 泥浆通道直径 Mud Pipe Channel Diameter | 4" |
| 最大泥浆通过量 Max Mud Floating Volume | 4000 L/min | 最高泥浆压力 Max Mud Pressure | 20 MPa |
| 工作允许环境温度 Permitted Environment Temperature | -30°C~50°C | 工作允许环境湿度 Permitted Environment Humidity | >90% |
| 最大回扩孔径 Max Aperture Diameter | φ2000 mm (根据地质状况) (Soil Depended) | 最大施工距离 Max Crossing Length | 3000 m (根据地质状况) (Soil Depended) |



GS450AT-L/LS 新型岩石钻机

ALL TERRAIN HDD MACHINE



主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|---------------------------------------|--|-----------------------------------|
| 整机质量 Rig Weight | 15000 kg | 外形尺寸(长*宽*高) Dimension(L*W*H) | 8250*2320*2650/3150 (mm) |
| 最大推拉力 Max. Push & Pull force | 450/900 kN | 最高推拉速度 Max Push & Pull speed | 55 m/min |
| 外钻杆最大扭矩 Exterior rod Max Torque | 27000 N·m | 外钻杆最高回转速度 Exterior rod Max Rotation Speed | 95 r/min |
| 内钻杆最大扭矩 Interior rod Max Torque | 4600 N·m | 内钻杆最高回转速度 Interior rod Max Rotation Speed | 152 r/min |
| 发动机功率 Engine Power | 194 kW | 泥浆泵最大流量 Max Mud Pump Flow | 600 L/min |
| 履带行走速度 Caterpillar Walking Speed | 3-5 (km/h) | 泥浆泵最高压力 Max Mud Pump Pressure | 10 MPa |
| 入土角度 Entry Drill Angle | 12°-22° | 最大爬坡度 Max Climbing Gradient | 18° |
| 最大回扩孔径 Max Aperture Diameter | φ1300 mm (根据地质状况) (Soil Dependent) | 最大施工距离 Max Crossing Length | 700m (根据地质状况) (Soil Dependent) |



主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1、旋转、推拉、夹持、行走采用德国力士乐自动变量系统，负载敏感控制；其液压系统比传统液压系统提高15%-20%的工作效率，减少系统中的发热量50%，可节能15%-20%。
- 2、采用康明斯工程机械专用发动机，功率强劲。
- 3、动力头可增压，最大推拉力达900kN，在大管径施工时保证施工的安全性。
- 4、大梁采用四连杆调幅梁结构，大大提高入射角范围，同时确保大角度时钻机履带不离地，提高安全性能。
- 5、线控行走系统，确保行走过程中人员和设备的安全。
- 6、装卸钻杆采用翻转角度可调机械手臂机构，装卸钻杆方便快捷，大大降低施工人员劳动强度，提高工作效率；可根据客户需求选装驾驶室。
- 7、适用φ89×3000mm、φ114×3000mm、φ127×3000mm钻杆，机身占地适中，兼顾高效和狭小空间的施工要求。
- 8、主要部件选用国际一流液压元件生产商，大大提高了产品性能的可靠性和安全性。
- 9、电路设计科学合理，故障率低，便于维修。
- 10、采用齿轮齿条推拉，效率高、工作平稳，维修和维护方便。
- 11、履带采用钢履带加橡胶垫片，既可承受高负载，又可以满足在各种道路上行走。
- 12、GS450AT-L/LS型双壁岩石钻机可在岩石地层高效施工，在普通地层施工效率更快（配置普通钻具）。

1. Germany Rexroth automatic variable system and loaded sensitive control hydraulic system are used for rotation, thrust & pull back, clamp and walking system. As a result, it can improve the efficiency for 15%-20% and reduces the calorific value, which can save the energy for 15%-20%.
2. The machine is equipped with Cummins construction engine with the large power.
3. Thrust & pulling capacity can be reinforced to as large as 900KN to make sure the reliable performance for the large diameter piping project.
4. Four bar linkage luffing structure increases the drilling angle without rig body leaving the ground level.
5. Wire controlling for track walking can make sure the safety of people.
6. The machine is equipped with the rotary type manipulator driven by high torque motor for disassembling the drill rods, which ensures the convenience of disassembling the drill rods and saves the labor force. Operation cab is optional.
7. Compact size design adopts φ89*3000 mm, φ114*3000 mm and φ127*3000 mm drill roads which ensures the high efficiency and is suitable for small space project.
8. Main hydraulic parts sourced from the world-famous suppliers can make sure the reliable performance.
9. Simple wiring design makes sure low fault rate.
10. Adopting the rack and pinion thrust & pull provides high efficiency, stable working performance and easy maintenance.
11. Steel track plate with rubber can be loaded heavily and walk on all kinds of roads.
12. GS450AT-L/LS series HDD machine can work in rock condition with high efficiency and can also work in common soil condition effectively.



GN1800 型泥浆泵

1800L MUD PUMP

GN2500 型泥浆泵

2500L MUD PUMP

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|---------------|----------------------------------|---------------------|
| 发动机品牌 Engine Brand | 康明斯 (Cummins) | 发动机功率 Engine power | 194 kW |
| 液压系统最高压力 Max systematic pressure | 35 MPa | 泥浆泵缸径 Mud pump cylinder | φ190 mm |
| 泥浆泵冲程 Mud pump stroke | 150 mm | 泥浆泵最高冲次 Max stroke frequency | 140/min |
| 泥浆最高压力 Max slurry pressure | 10 MPa | 泥浆泵最大流量 Max slurry flow | 1800 L/min |
| 整机质量 Weight | 10 t | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 5800*2250*2300 (mm) |

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|-------------------------------------|--------------|----------------------------------|---------------------|
| 发动机品牌 Engine Brand | 潍柴 (Weichai) | 发动机功率 Engine power | 316 kW |
| 液压系统最高压力 Max systematic pressure | 35 MPa | 泥浆泵缸径 Mud pump cylinder | φ220 mm |
| 泥浆泵冲程 Mud pump stroke | 180 mm | 泥浆泵最高冲次 Max stroke frequency | 120/min |
| 泥浆最高压力 Max slurry pressure | 10 MPa | 泥浆泵最大流量 Max slurry flow | 2500 L/min |
| 整机质量 Weight | 14 t | 外形尺寸 (长*宽*高) Dimension(L*W*H) | 6200*2500*2900 (mm) |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

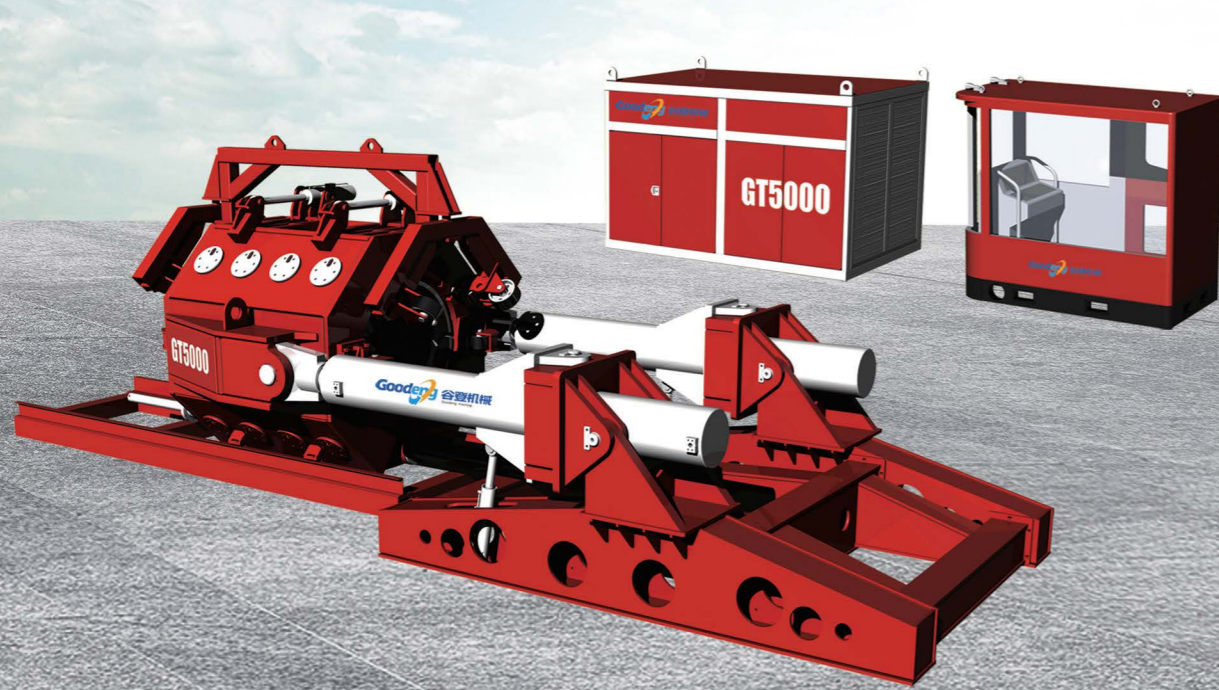
- 专门针对非开挖施工特点设计的大型泥浆泵系统，PLC控制，无级泥浆流量调节，适合不同工况的非开挖施工需求。减少了老式泥浆泵通过现场换缸套调节流量的麻烦。
- 司钻手在主机操作室里可直接操作泥浆泵站，远程启动关闭发动机、远程调节泥浆流量，操控更直观方便。
- 配置东风康明斯发动机，动力强劲、性能稳定、油耗低。
- 全液压驱动，液压采用德国力士乐液压系统，性能稳定、可靠。与传统的机械液力耦合器传动相比传效率更高，更节能。
- 配液晶显示器，可显示泥浆流量、压力、发动机参数、故障诊断等。
- 撬装式运输方式，外形尺寸适合国内外运输需要。

- The heavy-duty mud pump system is specially designed for trenchless project, the characteristics of PLC control and stepless adjustment for slurry flow can meet the demand of various project requirements, discarding the traditional method of changing cylinder liner to adjust the flow.
- Operators are entitled to start/stop the engine, adjust the slurry flow by remote control in the cabin of rig, making operation easier and more convenient.
- Equipped with Cummins engine with strong power, stable performance and low fuel consumption.
- Completely driven by Germany Rexroth hydraulic system with stable and reliable performance, more efficient and energy-saving than traditional mechanical fluid transmission.
- Equipped with LED display, indicating slurry flow, pressure, engine parameters and trouble-shooting data etc.
- The skid-mounted type and dimension meets the standard of transportation regulation both at home and abroad.

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 专门针对非开挖施工特点设计的大型泥浆泵系统，PLC控制，无级泥浆流量调节，适合不同工况的非开挖施工需求。减少了老式泥浆泵通过现场换缸套调节流量的麻烦。
- 司钻手在主机操作室里可直接操作泥浆泵站，远程启动关闭发动机、远程调节泥浆流量，操控更直观方便。
- 配置潍柴发动机，动力强劲，性能稳定，油耗低。
- 全液压驱动，液压采用德国力士乐液压系统，性能稳定、可靠。与传统的机械液力耦合器传动相比传效率更高，更节能。
- 配液晶显示器，可显示泥浆流量、压力、发动机参数、故障诊断等。
- 撬装式运输方式，外形尺寸适合国内外运输需要。

- The heavy-duty mud pump system is specially designed for trenchless project, the characteristics of PLC control and stepless adjustment for slurry flow can meet the demand of various project requirements, discarding the traditional method of changing cylinder liner to adjust the flow.
- Operators are entitled to start/stop the engine, adjust the slurry flow by remote control in the cabin of rig, making operation easier and more convenient.
- It is equipped with Weichai engine, which features strong power, stable performance and low consumption.
- Completely driven by Germany Rexroth hydraulic system with stable and reliable performance, more efficient and energy-saving than traditional mechanical fluid transmission.
- Equipped with LED display, indicating slurry flow, pressure, engine parameters and trouble-shooting data etc.
- The skid-mounted type and dimension meets the standard of transportation regulation both at home and abroad.



GT5000 型推管机

GT5000 PIPE THRUSTER

GT8000 型推管机

GT8000 PIPE THRUSTER

主要技术参数 MAIN TECHNICAL PARAMETERS

| A型 | | B型 | |
|------------------------------------|------------------|--|---------------------------------------|
| 主机外形尺寸 (L×W×H) Dimension(L*W*H) | 9597*3825*3332mm | 主机最大工作尺寸 (L×W×H) Max Working Dimension(L*W*H) | 14200×4335×3820 (mm) (最大角度时H=6220) |
| 发动机功率 Engine Power | 264 kW | 夹具外形尺寸 Clamping Tools Dimension | 2060×3320×2808 (mm) |
| 最大推力 Max Push Force | 5080 kN | 发动机功率 Engine Power | 264 kW |
| 最高推进速度 Max Push Speed | 2.7 m/min | 发动机品牌 Engine Brand | 康明斯 (Cummins) |
| 最大拉力 Max Pull Force | 3516 kN | 适用管径 Applicable Pipe Diameter | 20~56 inch |
| 最高回拉速度 Max Pull Speed | 3.9 m/min | 操作角度 Operation Angle | 0°~15° |
| 适用管径 Applicable Pipe Diameter | 24~48 inch | 最大推力 (推模式) Max Push Force(Push Mode) | 5120 kN(34MPa) |
| 推行程 Distance of Push & Pull | 3 m | 最大拉力 (拉模式) Max Pull Force(Pull Mode) | 5200 kN(23MPa) |
| 操作角度 Operation Angle | -15°~5° | 推模式最大负载时的推进速度 Push Speed with Max Loading (Push Mode) | 2.4 m/min |
| | | 拉模式最大负载时的回拉速度 Pull Speed with Max Loading(Pull Mode) | 2.4 m/min |
| | | 推模式夹具空载复位最大速度 Max Speed of Replacement with no Loading(Push Mode) | 4.4 m/min |
| | | 拉模式夹具空载复位最大速度 Max Speed of Replacement with no Loading(Pull Mode) | 5.9 m/min |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

- 1、该机器采用液压传动工作方式，以柴油机为动力源，主要包括动力系统、推进系统、液压系统。
- 2、机器采用分体设计，主机、动力站、操作室三大部分独立设计，运输方便。
- 3、液压系统性能稳定、可靠。
- 4、电控操作，操作更轻便、舒适，系统设计简单，故障率低，便于维护。
- 5、造型美观，维修方便，充分体现了以人为本的设计理念。

- 1.The pipe thruster adopts hydraulic transmission, employs diesel engine as power source, encompasses power system, thrust system and hydraulic system.
- 2.The main machine, power station and operation cabin is independently designed for transport convenience.
- 3.Hydraulic system is stable and reliable.
- 4.The electrical control makes it easy and comfortable to operate, the simple design makes low failure rates and convenient maintenance.
- 5.The attractive appearance easy maintenance and embodies the concept of people oriented design.

主要技术参数 MAIN TECHNICAL PARAMETERS

| | | | |
|--|---------------------------------------|--|---------------------|
| 主机最大工作尺寸 (L×W×H) Max Working Dimension(L*W*H) | 14200×4335×3820 (mm) (最大角度时H=6220) | 主机/夹具重量 Weight/Clamping Tools Weight | 72000/30500 kg |
| 夹具外形尺寸 Clamping Tools Dimension | 2060×3320×2808 (mm) | 夹具拆分运输尺寸 Transportation Dimension of Separated Clamping Tools | 3320×2060×1810 (mm) |
| 发动机功率 Engine Power | 316 kW | 发动机品牌 Engine Brand | 潍柴 (Weichai) |
| 适用管径 Applicable Pipe Diameter | 20~56 inch | 操作角度 Operation Angle | 0°~15° |
| 最大推力 (推模式) Max Push Force(Push Mode) | 7979 kN(35MPa) | (推模式)最大推力时行程 Distance under Max Push Force(Push Mode) | 5.2 m |
| 最大拉力 (拉模式) Max Pull Force(Pull Mode) | 7903 kN(26MPa) | (拉模式)最大拉力时行程 Distance under Max Pull Force(Pull Force) | 2.5 m |
| 推模式最大负载时的推进速度 Push Speed with Max Loading (Push Mode) | 2.4 m/min | 拉模式最大负载时的回拉速度 Pull Speed with Max Loading(Pull Mode) | 2.4 m/min |
| 推模式夹具空载复位最大速度 Max Speed of Replacement with no Loading(Push Mode) | 4.4 m/min | 拉模式夹具空载复位最大速度 Max Speed of Replacement with no Loading(Pull Mode) | 5.9 m/min |

主要性能特点 MAIN PERFORMANCE CHARACTERISTICS

1. 推管机采用液压传动工作方式，以柴油机为动力源，主要包括四大部分：推管机主机、电气系统、液压系统、操作室等。
2. 机器采用分体设计，独立动力站、主机可拆分设计，运输方便。
3. 大管径抱瓦边缘采用自有专利技术：锯齿状边缘技术，从根本上杜绝了施工过程中管道因瓦片间隙挤压变形翘起而造成的损坏。
4. 采用抗污防堵电子负荷传感量控制系统，电路设计简单，性能稳定，操作轻便、舒适，便于维护。
5. 数字化显示推管机运行参数，包括推力、拉力、夹持力、发动机运行参数等，方便对施工工况的实时监控。
6. 电-液智能监控及诊断系统：实现液压系统故障自动检测与诊断，极大地方便后期推管机的保养和维护。
7. 推拉力、推拉速度、抱紧力电比例无极可调。
8. 推拉高速合流技术，提升推拉速度，提高施工效率。
9. 采用夹持同步技术，充分保证抱瓦在夹持过程中同步，避免对管材的损害。
10. 更低的运营成本，GT8000推管机采用长寿命抗磨液压油、长寿命高效高纳污能力的吸回油液压滤芯、长寿命柴油机三滤，结合谷登推拉高速合流技术，在整个钻机运营周期内能有效节约费用8%以上！

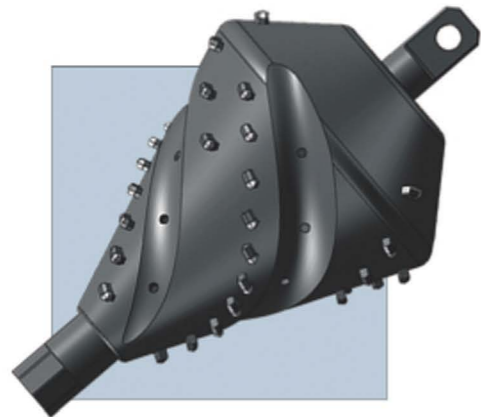
- 1.The hydraulic transmission is adopted for the pipe thruster, and the diesel engine is selected as power source. The pipe thruster mainly encompasses four parts: the main machine, the electrical system, the hydraulic system and the operating room.
- 2.The main machine and the power station are independently designed for transport convenience.
- 3.Serrated edge technique is Goodeng's patent for the large diameter holding tile edge. This technique can fundamentally solve the problem that the tiles clearance extruding damages the pipe in the construction process.
- 4.Anti-pollution and loss-prevention electronic load sensor control system is adopted for the machine. The simply designed electric circuit is stable, which makes the machine portable and comfortable to operate, and convenient to maintain.
- 5.The machine can digitally display the operating parameters of the thruster, including push force, pull force, clamping force, the parameters of the engine and so on, which is convenient to monitor the machine's working condition.
- 6.The electro-hydraulic intelligent monitoring and diagnosis system can ensure the hydraulic system automatically detect and diagnosis the fault, which greatly facilitates the maintenance and repairment.
- 7.The push & pull force, push & pull speed and the holding force can be adjusted with electric proportion infinite variable speed.
- 8.The push& pull high speed interflowing technique improve the push& pull speed and the construction efficiency.
- 9.The synchronous clamping technology guarantees the holding tiles synchronous when clamping, which can protect the pipe.
- 10.The lower operating cost: we put the long-period and antiwear hydraulic oil, the long-period hydraulic filter element with high pollution capacity and the push& pull high speed interflowing technique together, which can effectively save the cost more than 8% in the operation cycle.

GOODENG DRILL TOOLS

谷登钻具



导向钻头
Drill bit



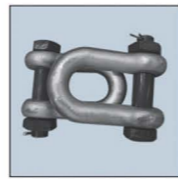
流道式扩孔器
Fluted reamer



10T分动器
10T Swivel



保护短接
Sub Saver



U型扣
"U" Buckle



40T分动器
40T Swivel



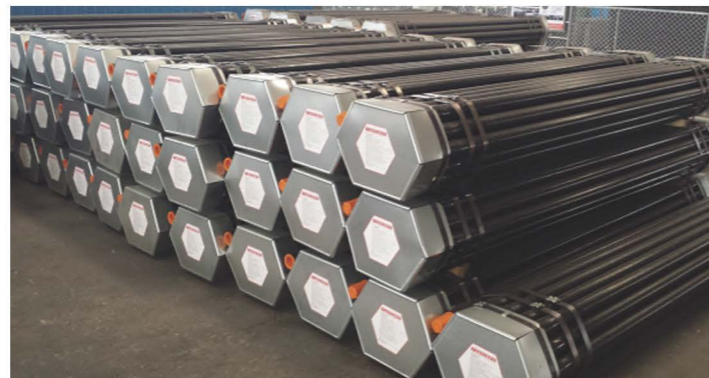
100T分动器
100T Swivel



分动器系列
Swivel



挤扩式扩孔器
Barrel reamer



钻杆 Drill pipe



钻具新品 —— 软岩扩孔器

NEW TYPE DRILL TOOLS—SOFT ROCK REAMER



LOCATING SYSTEM

定位系统



产品亮点

1. 采用高精度抗干扰法拉第屏蔽三维立体双天线结构
2. 工业镀金天线信号铝箔整形处理模块
3. 高性能逻辑双核DSP
4. 二合一导向系统, 两台导向仪独立跟踪提供了更高准确性和可靠性
5. 配置探棒全面升级: CTX70/CTX90/CTX110新型结构探棒
6. 110米超深测量深度, 续航能力高达120小时
7. 应用最为先进的前点法

PRODUCT HIGHLIGHTS

1. High precision and high anti-interference Faraday shield 3D antenna structure.
2. Aluminum foil shaping processing module for industrial gold-plated antenna signal.
3. High-performance DSP.
4. Two-in-one locating system: two locators independently tracking provides better accuracy and reliability.
5. Fully upgraded transmitter: CTX70/CTX90/CTX110 new designed transmitter
6. The survey depth can reach 110m, and the durability is up to 120 hours.
7. The most advanced Front Point Method.

隆重推出 Digitrak 猎鹰系列 Introducing Digitrak Falcon

Simplicity. Precision. Speed
操控简单; 测量精准; 反应快速

The ability of an HDD guidance system to perform well in interference has become a crucial factor in maintaining crew productivity. Falcon technology for the F2 and the F5 minimizes the effects of active interference (noise) on the jobsite using a single wideband transmitter.

Digitrak Falcon™ 定位系统采用了独创和革命性的方法来解决主动干扰的影响。一根传感器足以应对每一个钻孔, 每一个地点: 总是能够选择出最佳工作频率来满足每一次导向孔施工的不同需求。



Falcon F5 Display
猎鹰F5显示界面



Simple IR Pairing
红外匹配

- Widest range of frequencies in the industry
- Scans for active interference at every jobsite
- Nine bands of optimized frequencies to help avoid active interference
- Uses powerful and reliable 15-inch transmitter design
- Max Mode boosts data range and stabilizes depth range in areas with extreme interference

拥有全球首创的Digitrak 频率扫描优化功能, 轻松应对不同工作环境中的强干扰影响。
一根 Falcon 多频传感器, 具备从4.5 kHz 到45 kHz 的多种工作频率。
智能模式噪音过滤, 有效地增大数据量程和深度读数的稳定性。
增强型和可靠性设计的15" 传感器



Aurora 10 in. Touchscreen

多样化的系统配置
满足客户各种需求



Falcon Compact Display



Aurora 8 in. Touchscreen



Backed by world-class 24/7 customer service
全球一流的24/7全时段客户服务支持

指挥官
6&8导向仪
Commander
6&8 Locator



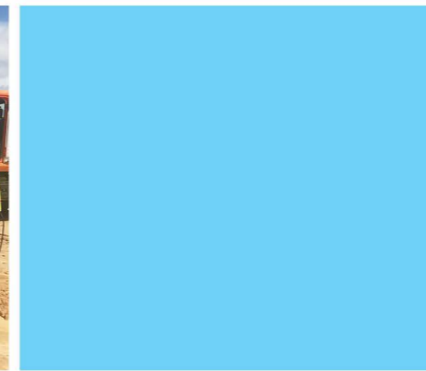


GD450-LS型水平定向钻机
柬埔寨施工现场
GD450-LS HDD project site
in Cambodia

GD130-L型水平定向钻机
澳大利亚施工现场
GD130-L HDD project site
in Australia



GS350-LS型水平定向钻机
菲律宾施工现场
GS350-LS HDD project site
in Philippines



GD320C-LS型水平定向钻机
印度尼西亚施工现场
GD320C-LS HDD project site
in Indonesia

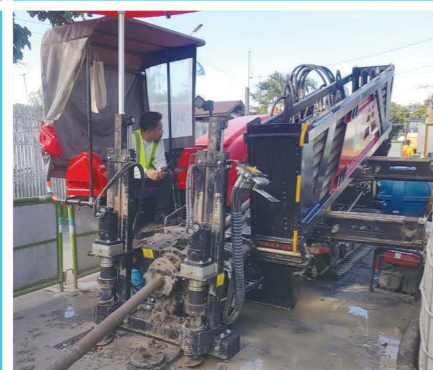
GS900-LS型水平定向钻机
俄罗斯施工现场
GS900-LS HDD project site
in Russia



GS900-LS型水平定向钻机
印度施工现场
GS900-LS HDD project site
in India

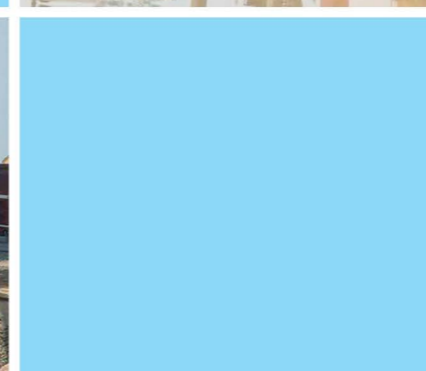
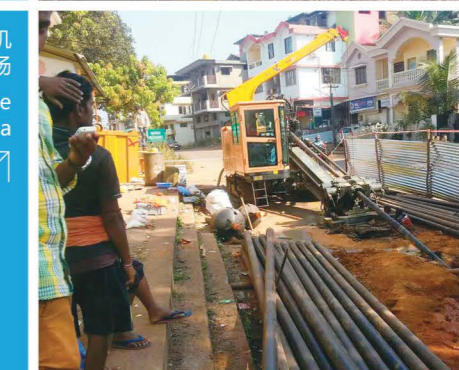
GS6000-T型水平定向钻机
孟加拉施工现场
GS6000-T HDD project site
in Bangladesh

GS6000-T型水平定向钻机
中石化广东湛江“中国第一穿”
施工现场(长度4060米)
"China First Crossing" (4060m)
project site of GS6000-T
horizontal directional drilling
machine Sinopec in Zhanjiang,
Guangdong



GS900-LS型水平定向钻机
印度施工现场
GS900-LS HDD project site
in India

GS6000-T型水平定向钻机
孟加拉施工现场
GS6000-T HDD project site
in Bangladesh



GD3500-L型水平定向钻机
江西施工现场
GD3500-L HDD project site
in Jiangxi Province

工程案例 PROJECT CASES



GD320-L 型水平定向钻机
江苏施工现场
GD320-L HDD project site
in Jiangsu Province

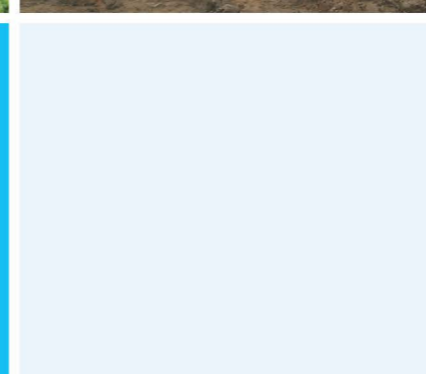
GD800-L 型水平定向钻机
陕西施工现场
GD800-L HDD project site
in Shanxi Province



GD320D-L 型水平定向钻机
上海施工现场
GD320D-L HDD project site
in Shanghai



GD3500-L 型水平定向钻机
湖北施工现场
GD3500-L HDD project site
in Hubei Province



GD8000-L 型水平定向钻机
江西施工现场
GD8000-L HDD project site
in Jiangxi Province

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服务热线: 18352028089、18352028073

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