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# XZ系列水平定向钻机

XZ SERIES HORIZONTAL DIRECTIONAL DRILL



徐州徐工基础工程机械有限公司

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2012年11月印刷



## XZ系列 水平定向钻机

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DIRECTIONAL DRILL

**XZ**系列水平定向钻机主要用于在非开挖地表的条件下，铺设及更换各类地下管线，该机性能先进、工作效率高、操作舒适，关键部件采用国际化配套，是供水、煤气、电力、电讯、暖气、石油、天然气等行业施工的理想设备。



徐工水平定向钻流水线正式运行

## XZ SERIES HORIZONTAL DIRECTIONAL DRILL

XZ Series Horizontal Directional Drills are mainly used in the trenchless piping construction and replacement of the underground pipe. The XZ Series Horizontal Directional Drills have the advantages of advanced performance, high efficiency and comfortable operation. Many key components adopt international famous products to guarantee the quality. They are the ideal machines for the construction of the water piping, gas piping, electricity, telecommunication, heating system, crude oil industry.



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### Performance characteristic of large directional drilling rig

- This drill is self-propelled and walks by wire control, so it is convenient for the transfer of working site.
- It is adopted turbine engine which can increase torque. The reserve power is enough and insures there is enough power for drill and exigency.
- This drill is adopted the advanced control technique include load sensitive control and electro-hydraulic proportion control, the import hydraulic parts and the independent heat dissipation system. The working efficiency is high and the energy saving is reliable.
- The equipments of power unit revolve and the pinion and rack are all installed on the drill. The working efficiency of continuously transmission with two shift gears is high.
- The 3.2t assistant crane equipped. The load and unload of the drilling rod is efficient and save labour.
- The all-weather double cab is adopted. The colour monitor is equipped on the drill, and the operation is comfortable.
- The parameter monitor alarms of the interlock for up and down, the automatic high pressure protection, engine, and hydraulic etc, which can protect the machine, are also equipped in it.
- It has the manual operation system for the especial condition to protect the construction.

### 大型定向钻性能特点

- 钢制履带车载自行式，线控行走，工地转移快速方便。
- 采用康明斯涡轮增压发动机，功率储备大，确保钻进功率及应急需要。
- 先进的负载敏感控制、电液比例控制等控制技术，进口液压元件，独立散热系统，工作高效节能可靠。
- 动力头回转和齿轮齿条推拉机构，两档无级调速，工作效率高。
- 配备3.2吨辅助吊车，装卸钻杆高效省力。
- 采用双人全天候驾驶室，配有彩色监控仪，操作舒适。
- 上下车互锁，高压自动保护，发动机、液压等参数监测报警，有效保护机器安全。
- 备有手动操作系统，以应付特殊情况，保护施工安全。



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## 施工范例 Construction Cases



XZ3000在山东省青岛市做抢险工程，其中有500M为岩石工程，设备进场要将 $\phi 1505\text{MM}$ 直径的三牙轮钻头在岩石地层中拉出来，经过86小时不间断施工，扩孔成功，最终轻松托管。



徐工XZ1000在江苏省连云港市施工，穿越河流，回托管线长度为1520M，管径为 $\phi 500\text{MM}$ 。



国内最大吨位水平定向钻机徐工XZ5000建功东北。



XZ680在山东莱州做污水管线施工，长度为625M，穿越一条河，一座桥。



XZ160A在甘肃省兰州市做移山工程。



XZ1000在河北省文安县做天然气管线铺设工程，长度1200M，其中有320M软岩，在回扩过程中使用组合式回扩器进行扩孔。



XZ320在徐州经济开发区做穿越马路的信号管线施工，每天做500M左右工程。



XZ320在埃及施工。



XZ320B在哈萨克斯坦施工。



XZ320C在坦桑尼亚施工。







### 性能特点 <<<<<<<<<<<<

- ◎ 采用PLC控制、电液比例控制、负荷敏感控制等多项先进的控制技术。
- ◎ 钻杆自动装卸装置，可以提高工作效率，减轻操作者的劳动强度和手工误操作，减少施工人数，降低施工成本。
- ◎ 自动锚固：液压驱动控制锚杆的钻进和回提。锚固力大，操作简单方便。
- ◎ 双速动力头：钻进、回拖时低速运行，确保顺利施工；接卸钻杆空载往返时，可倍速滑动，减少辅助时间，工作效率更高。
- ◎ 发动机具有涡轮增矩特性，遇到复杂地质时，能瞬时增加动力，确保钻进功率。
- ◎ 动力头转速高，成孔效果好，施工效率高。
- ◎ 单手柄控制推力和旋转等多种作业，便于精确控制，操作简单舒适。
- ◎ 绳系控制器，单人就能进行钻机的装卸车作业，安全高效。
- ◎ 专利技术的浮动式虎钳，可有效延长钻杆的使用寿命。
- ◎ 具有发动机、液压参数监测报警及多种安全保护，有效保护操作者和机器的安全。

### Performance and characteristic

- ◎ Pluralities of advanced control technologies are adopted, including the PLC control, electro-hydraulic proportion control, load sensitive control, etc.
- ◎ The pipe automatic disassembly and assembly device can improve the working efficiency, relieves the labor intensity and manual error operation of the operators, and reduces the construction personnel and the construction cost.
- ◎ Automatic anchor: The down and the up of the anchor is driven by hydraulics. The anchor is great in force and is easy and convenient to operate.
- ◎ The dual-speed spindle drive is operated with low speed when drilling and dragging back to ensure smooth construction, and can speed up to slide with 2 times of speed to reduce the auxiliary time and improve the working efficiency when returning and disassembling the drilling rod with empty loads.
- ◎ The engine has the turbine torque increment characteristic, which can instantly increase the power to ensure the drilling power when coming across the complex geology.
- ◎ Spindle drive has high rotation speed, good boring effect and high construction efficiency.
- ◎ Single-lever operation: It is convenient to precisely control and is easy and comfortable to operate in performing various functions such as thrust/pullback and rotary, etc.
- ◎ The rope controller can carry out the disassembly and assembly vehicle operation with single person, with safe and high-efficiency.
- ◎ The floating vice with patent technology can effectively prolong the service life of the pipe.
- ◎ The engine, hydraulic parameter monitoring alarm and a plurality of safety protection are provided to effectively protect the safety of the operators and the machines.





