

# XZ1000 水平定向钻机

## SERIES HORIZONTAL DIRECTIONAL DRILL

XZ1000型水平定向钻机为一体式全载式设计，整机布局合理，结构紧凑，外形美观。采用了闭式节能回路、电液比例控制、负荷敏感控制等多项先进的控制技术与本公司专有技术，主要性能参数和控制技术达到了国际先进水平。主要元件选用国外知名品牌产品，整机高效可靠。

The XZ1000 horizontal directional drilling rig is integral and self-loading design, the whole machine has reasonable arrangement, compact structure and beautiful exterior condition, it adopts various advanced control technologies such as the closed energy saving circuit, electro-hydraulic proportional control and load sensing control as well as the proprietary technologies of the company. Its main performance parameters and control technologies have reached the domestic advanced level. The main components are of top-grade domestic and international brand, and high reliability.

### 性能特点：

发动机采用康明斯六缸水冷式涡轮增压发动机，功率储备大，保证钻机能在各种复杂地质条件下，完成铺管作业。

采用了先进的闭式节能回路、负荷敏感控制、电液比例控制等多项先进的控制技术，配备出色的过滤装置，进口元件，高效节能可靠。

动力头旋转低速大扭矩马达驱动，启动扭矩大；两档速度，施工效率高；高压自动保护，可靠性高。

推拉采用齿轮齿条推拉，两档无级调速，工作平稳高效。

高强钻架，适应不同长度钻杆；油缸驱动的可滑动钻架，施工角度调节方便。

采用虎钳、动力头双浮动技术，有效减轻钻杆螺纹磨损，延长钻杆使用寿命，卸扣高效可靠。

发动机、液压压力、过滤等参数监测报警，有效保护机器安全。

### Performance characteristics

The engine is a six-cylinder water-cooled turbocharged Cummins engine with large power reserve, enabling the drilling rig to complete pipeline laying work under various complicated geological conditions.

The hydraulic system adopts many advanced control technologies such as energy saving circuit, load sensing control as well as electro-hydraulic proportional control. The main components are imported products which are efficient, energy-saving and reliable.

The unit head adopts rack-and-pinion push-pull, stepless speed regulating with two gears, ensuring stable and efficient operation.

The unit head is driven with a low-speed high torque motor to rotate with high break-out torque. It runs at two gear speeds and has high construction efficiency. It's equipped with automatic protection for high pressure, ensuring high reliability.

Push-pull adopts rack-and-pinion push-pull, stepless speed regulating with two gears, ensuring stable and efficient operation.

High-strength drill stand is suitable for drill rods of different lengths, and cylinder driven sliding drill stand facilitates the adjustment of angle for construction.

Vice and unit head double-floating technologies are adopted, which effectively reduce wear of drill rod thread and extend the service life of drill rod. The shackle is efficient and reliable.

Various parameters of engine, hydraulic pressure and filtration are monitored with alarm so that the machine can be protected effectively.



## 主要技术参数 Main Technical Specification

型 号 Model	XZ1000
发动机型号 Engine	康明斯 CUMMINS
发动机额定功率 Rated power	392kW
推拉方式 Push-pull	齿轮齿条 Rack and pinion
最大回拖 / 进给力 Max.pullback/thrusting	1000/1000kN
动力头最大扭矩 Spindle torque (max)	55000N.m
动力头转速 Spindle speed	0-80r/min
动力头行进速度 Travelling speed of power head	20 m/min
最大回扩孔直径 Backreaming diameter	Φ 1200mm
钻杆长度 (单根) Pipe length(single)	9.6m
钻杆直径 Pipe diameter	Φ 127mm
入土角度 Entry angle	10-18°
泥浆最大流量 Mud flow rate (max)	1200L/min(外接)
泥浆最大压力 Mud pressure (max)	200bar
整机质量 Overall weight	39900kg
外形尺寸 (长x宽x高) Dimension (LxWxH)	14480x3150x3500mm

