

# XZ3000 水平定向钻机

## SERIES HORIZONTAL DIRECTIONAL DRILL

XZ3000水平定向钻机采用自行走底盘，采用了闭式液压系统、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内领先水平。液压系统、电器系统、传动系统等主要部件选用国际名牌产品，使用可靠性高。

The XZ3000 horizontal directional drilling rig with the Self-propelled chassis adopts various advanced control technologies such as the closed hydraulic system, 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 of hydraulic system, electric system and transmission system are of top-grade domestic and international brand, and high reliability.

### 性能特点:

发动机标选用康明斯六缸水冷涡轮增压发动机，功率高达596kW，功率储备大，保证钻机能在各种复杂地质条件下使用，完成辅管作业，单一发动机可完成整车的全部动作。

液压系统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，主要元器件采用进口产品，高效节能可靠。

所有的系统均配备大流量高精度高压过滤器，确保钻机长久使用。

动力头采用齿轮齿条推拉，多档无级调速，工作平稳高效。

高强度焊接钻架，适应不同长度的钻杆。

钻架滑动使用油缸推拉，施工角度调节方便。

可选配3.2吨随车起重机，现场使用方便。

标配虎钳摄像头，在拆装钻杆时，操作员视野良好，操作方便。

配置泥浆回收装置，现场整洁，不污染环境。

旋转及推拉采用数字式远程压力调整技术，压力设置及调整方便、快捷。

可选配高档操作房，配置冷暖空调，钻机操作人员工作舒适。

### Performance characteristics

The engine is a six-cylinder water-cooled turbocharged Cummins engine with large power reserve, and the power of the engine is up to 596kW. It ensures that drilling rig can be used under various complicated geological conditions and can finish laying work. Single engine is capable of finishing all actions of the whole machine.

The hydraulic system adopts many advanced control technologies such as the closed 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.

All systems are equipped with high pressure filter of mass flow and high precision, ensuring a long life of drilling rig.

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

High-strength steel welded drill stand, fit for drill rods of different lengths.

Drill stand adopts hydro-cylinder push-pull for sliding to facilitate adjustment of angle for construction.

Vehicle-mounted crane of 3.2T is optional, convenient for field service.

Vice camera is a standard configuration. The operator can get a good vision when dismantling the drill rod, making it convenient for operation.

Slurry recovery device is provided, keeping the site tidy and preventing environment from being polluted.

Rotation and push-pull adopt digital remote pressure adjustment technology, making it convenient and efficient for pressure setting and adjustment.

For the cosy working environment of driller operator, we apolegamy high-end operating room and cold and heat air conditioner for driller.



## 主要技术参数

### Main Technical Specification

型 号 Model	XZ3000
发动机型号 Engine	康明斯NTA855
发动机额定功率 Rated power	298kW/2100 X2
推拉方式 Push-pull	齿轮齿条 Rack and pinion
最大回拖 / 进给力 Max.pullback/thrusting	3000/3000kN
动力头最大扭矩 Spindle torque (max)	110000N.m
动力头转速 Spindle speed	0~76
动力头行进速度 Travelling speed of power head	0~18m/min
最大回扩孔直径 Backreaming diameter	φ 1600mm
钻杆长度 (单根) Pipe length(single)	9.6m
钻杆直径 Pipe diameter	φ 140mm
入土角度 Entry angle	8~18°
泥浆最大流量 Mud flow rate (max)	2000L/min
泥浆最大压力 Mud pressure (max)	20Mpa
整机质量 Overall weight	55000kg
外形尺寸 (长x宽x高) Dimension (LxWxH)	16000 × 3300 × 3600

