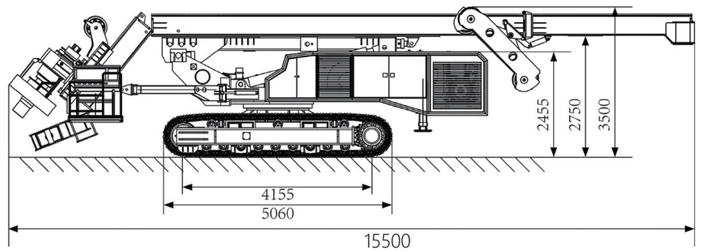
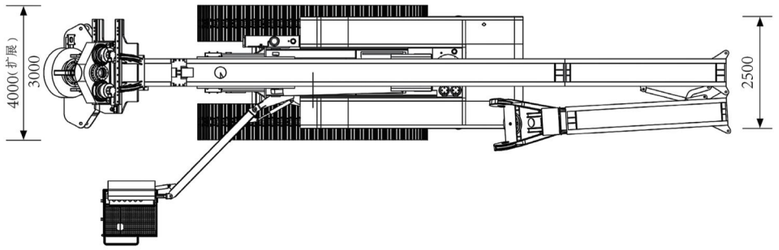
■ 尺寸展示

Dimension Display





■ 产品照片

Product Photos







J-49

重型液压钻孔机

HEAVY-dUTY HYdRaULIC DrilLinG RIG

■ 设备简介
Equipment Introduction

J-49重型液压钻机是一款专为小断面隧道及煤矿巷道环境设计的高性能钻探作业设备，集钻孔施工、锚固作业、地质勘探与高压旋喷功能于一体。其全液压驱动系统赋予了设备极强的复杂环境适配能力，可灵活实现垂直、水平及大倾角等多角度作业模式，充分满足各类复杂地质条件下的钻探施工需求。

The J-49 Heavy-duty Hydraulic Drilling Rig is a high-performance drilling operation equipment specially designed for small-section tunnels and coal mine roadway environments. It integrates drilling construction, anchoring operation, geological exploration and high-pressure jet grouting functions into one. Its full hydraulic drive system endows the equipment with extremely strong adaptability to complex environments, enabling flexible multi-angle operation modes including vertical, horizontal and large inclination orientations, to fully meet the drilling construction requirements under various complex geological conditions.

■ 设备特点
Equipment Features

• 核心力学性能：J-49重型钻杆力学性能强劲，大拉回力可稳妥处理卡钻工况，高抗扭性能适配硬岩钻进，深孔作业刚性足，成孔垂直度稳定达标。
• 结构可靠耐用：结构耐用性突出，加厚一体化设计抗疲劳性更强，双台肩密封连接杜绝脱扣漏浆隐患，高精度动平衡调校可有效抑制钻进时的憋钻、偏摆问题。
• 复杂工况适配：工况适配范围广，复杂地层下钻具损耗低，可支撑大直径超深基桩施工，支持多钻进工艺切换，覆盖各类工程场景需求。

• Core Mechanical Performance: J-49 heavy-duty drill rod boasts robust mechanical properties. Its large pull-back force can safely handle pipe sticking conditions, high torque resistance adapts to hard rock drilling, and it has sufficient rigidity for deep hole operations, ensuring borehole verticality consistently meets standards.
• Reliable & Durable Structure: It features outstanding structural durability. The thickened integrated design delivers stronger fatigue resistance, the double-shoulder sealed connection eliminates the risks of thread disconnection and slurry leakage, and high-precision dynamic balance calibration effectively suppresses bit bouncing and deflection during drilling.
• Complex Working Condition Adaptability: It has a wide range of working condition adaptability. The drill rod suffers low loss in complex formations, supports the construction of large-diameter and ultra-deep foundation piles, allows switching between multiple drilling processes, and covers the application requirements of various engineering scenarios.

■ 设备参数
Equipment Parameters

基本参数 Basic Parameters	
整机重量 Total Machine Weight	≈49t
动力系统 Power System	
驱动 Drive	柴油发动机 Diesel Engine
额定功率 Rated Power	205 kW (275 HP) @ 2,200 rpm
液压系统 Hydraulic System	
最大压力 Max. Pressure	350Bar
液压油箱 Hydraulic Oil Tank	740L
液压系统 Hydraulic Circuit	变量负载敏感泵 + 齿轮泵
储存系统 Storage System	
燃油箱 Fuel Tank	740L
钻进装置 Drilling Unit	
桅杆长度 Mast Length	18190mm
提升力 Lifting Force	60000kg
提升速度 Lifting Speed	0.23m/s
下降速度 Lowering Speed	0.23m/s
钢丝绳尺寸 Wire Rope Size	ϕ30 mm × 100 m
履带底盘 Crawler Chassis	
接地比压 Ground Pressure	5861 kg
最大行走速度 Max. Travel Speed	28m/min
爬坡能力 Gradeability	ϕ18 mm × 46 m (L)
辅助绞车 Auxiliary Winch	
提升力 Lifting Force	5861 kg
线速度 Line Speed	28m/min
外形尺寸 Overall Dimension	15500 mm×3000 mm×4200 mm