JOZO®

CMS 3.0

施工管理系统

Construction Management System



设备简介
Equipment Introduction

JOZO自主研发的CMS 3.0（Construction Management System 3.0）电子系统，是一款融合智能化、模块化设计及多场景适配能力的创新型工程管理平台。该系统基于模块化架构开发，支持多专业施工模式，可灵活适配各类岩土工程项目需求，展现出强大的场景适应性。

The CMS 3.0 (Construction Management System 3.0) electronic system, self-developed by JOZO, is an innovative engineering management platform that integrates intelligent capabilities, modular design and multi-scenario adaptability. Built on a modular architecture, this system supports multi-specialty construction modes, flexibly adapts to the requirements of diverse geotechnical engineering projects, and demonstrates strong scenario adaptability.

设备特点
Equipment Features

- 采集：本地作业设备施工数据采集、定位。
- 通讯：通过无线网络将数据打包上传到云端服务器。
- 监控：终端app或电脑实现设备管理/提供数据打印。
- 指导：大数据分析，指导施工。

- Collection: Collect and locate the construction data of local operation equipment.
- Communication: Pack and upload data to the cloud server through wireless network.
- Monitoring: Realize equipment management and data printing via terminal APP or computer.
- Guidance: Conduct big data analysis to guide construction.





CMS系统集成实时数据采集模块，可对钻孔及喷射设备的核心运行参数进行动态监测与自动化记录，通过设备端传感器网络实现施工参数的精准捕获与云端同步存储。

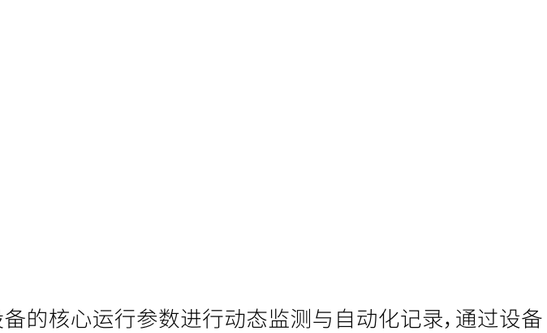
The CMS system is integrated with a real-time data acquisition module, which enables dynamic monitoring and automated recording of core operating parameters for drilling and jetting equipment. Through the equipment-side sensor network, it achieves precise capture of construction parameters and synchronous cloud storage.

主要参数包括 Main parameters include :

- 桩孔坐标 Pile Hole Coordinates
- 桩孔垂直度 Pile Hole Verticality
- 钻孔 / 提升速度Drilling / Lifting Speed
- 转速 Rotational Speed
- 推力 / 拉压力 Thrust / Tension and Compression Force
- 所有流体压力 All Fluid Pressures
- 所有流体流量 All Fluid Flow Rates
- 钻头处浆压力 lurry Pressure at the Drill Bit
- 地内压力 Subsurface Pressure

CMS系统通过自动化定位技术实现钻机的精准、快速部署，显著降低对人工测量团队的依赖。同时建立桩柱施工的数字化管控机制，基于实时定位数据构建施工电子台账，有效规避漏打、重打等质量风险，确保地面处理区域的完整覆盖与施工记录的精准可溯。

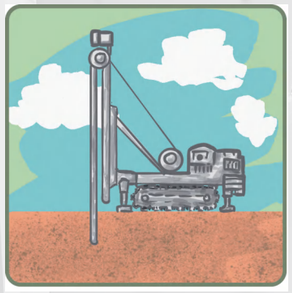
The CMS system realizes precise and rapid deployment of drilling rigs through automated positioning technology, significantly reducing reliance on manual survey teams. Meanwhile, it establishes a digital management and control mechanism for pile construction, builds an electronic construction ledger based on real-time positioning data, effectively avoids quality risks such as missing and repeated piling, and ensures full coverage of the ground treatment area and accurate traceability of construction records.



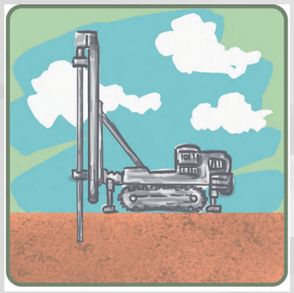


■ 多种模式选择

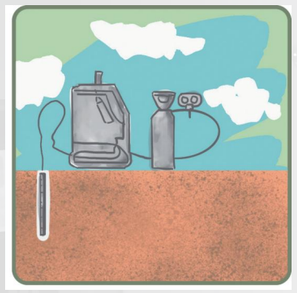
Multiple Mode Selection



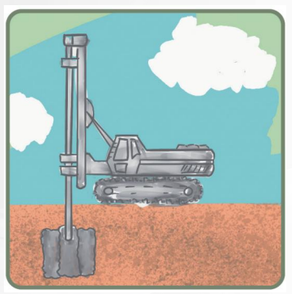
排水
Drainage



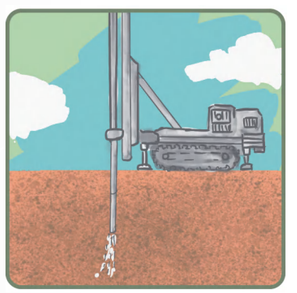
勘探钻孔
Exploratory Drilling



碎石桩
Gravel Pile



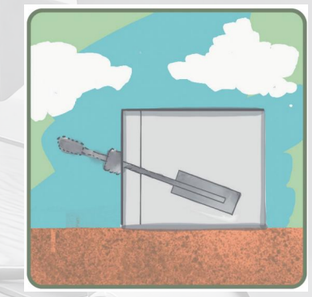
旋喷桩
Jet Grouting Pile



钻孔偏差
Drilling Deviation



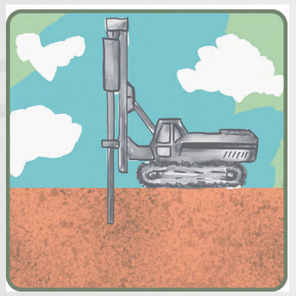
振动锤
Vibratory Hammer



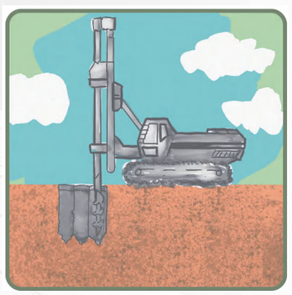
锚定
Anchoring



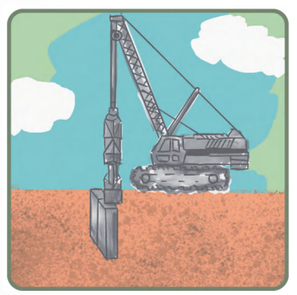
螺旋桩
Screw Pile



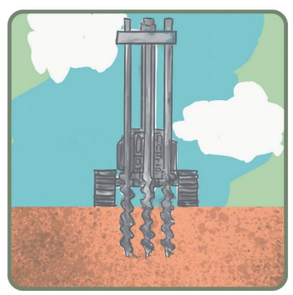
钻孔驱动
Drilling Drive



凯利桩
Kelly Pile



地连墙
Diaphragm Wall



搅拌桩
Mixing Pile