

11 挖改液压夹桩器

EXCAVATOR-MOUNTED HYDRAULIC PILE CLAMP

ZHMG
振华机械集团
400-038-8818

振华机械集团研发生产的挖改液压夹桩器，专为光伏杆、电线杆等各类杆状物体的安装以及电力基础设施建设设计。该设备采用高压液压驱动夹持机构，兼容钢管桩、混凝土预制桩及水泥电线杆等多种桩型。设备配置全时双路液压管路，支持回转与抓取同步进行；配合蜗轮蜗杆回转支撑，可有效防止桩体在夹取定位时发生溜转，确保多角度收放桩作业的精准度。驱动马达集成过载保护阀以抵御突发液压冲击；油缸内部集成了防爆保压阀，即使遭遇油管意外断裂，也能即时锁定油路压力，杜绝夹取物掉落风险。目前，该装备已广泛应用于国内外多个大型工程项目，施工效率与作业精度符合光伏电站及电力基建的规范要求。

The **Excavator-Mounted Hydraulic Pile Clamp**, developed by Zhenhua Machinery Group for power and solar infrastructure, accommodates steel pipe, precast concrete, and utility piles. Its dual-circuit design enables simultaneous rotation and clamping, while the worm gear support prevents slippage for precise multi-angle positioning. For safety, an integrated motor overload valve absorbs hydraulic shocks, and a cylinder hose-burst valve prevents dropped loads during line failure. Globally proven, its efficiency and precision fully comply with solar and grid construction standards.

挖改液压夹桩器核心优势及参数

EXCAVATOR-MOUNTED HYDRAULIC PILE CLAMP-CORE ADVANTAGES & TECHNICAL SPECIFICATIONS

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1 定制摆线液压马达

- 专为夹桩器工况设计，匹配实际负载需求。
- 集成智能过载保护系统，确保设备安全运行。

2 蜗轮蜗杆回转支撑转盘

- 采用精密蜗轮传动结构。
- 360°无死角旋转，旋转平稳且精准。

3 高压液压夹持系统

- 双液压缸联动设计，夹持力达22MPa。
- 可轻松抓握标准电线杆等圆柱构件。

4 自适应多用途抓口

- 开口度无限调节，最大夹持直径700mm。
- 兼容多种物料的抓取需求。



1 Customized Cycloidal Hydraulic Motor

- Engineered specifically for pile clamp working principles and scenarios. Integrated intelligent overload protection system.

2 Worm-Gear Slewing Ring Turntable

- Precision worm-gear transmission mechanism. 360° seamless rotation with smooth steering.

3 High-Pressure Hydraulic Clamping System

- Dual hydraulic cylinder synchronous drive (22MPa max pressure). Effortlessly grips standard concrete poles.

4 Adaptive Multi-Purpose Grab Jaws

- Stepless adjustable opening (max. clamping diameter: 700mm). Compatible with various pile/columnar materials.

项目/型号 Item/Model	单位 Unit	ZH-15	ZH-20
张幅区间 / Opening Range	mm	340-600	500-730
夹头宽度 / Jaw Width	mm	1500	1800
夹取直径 / Clamping Diameter	mm	φ200-480	φ220-700
旋转压力 / Rotation Pressure	MPa	12	12
旋转流量 / Rotation Flow	L/min	30-40	30-40
张合压力 / Open/Close Pressure	MPa	16-22	16-22
张合流量 / Open/Close Flow	L/min	80-100	80-120
整机重量 / Total Weight	kg	750	1080
适配挖机 / Suitable Excavator	TON	10-18	20-35
控制方式 / Control Mode	/	手柄遥控 Joystick / Remote Control	