

CYTC76 液压凿岩采矿台车

CYTC76 Hydraulic Drilling Jumbo

1.设备照片:

Equipment picture

CYTC76 型全液压采矿钻车是一款中型中深孔凿岩台车，钻孔直径为 70-89MM，储杆器可安装 27+1 根钻杆，钻孔深度可达 35 米。可钻凿垂直和倾斜排面的扇形孔以及 1.5 米（可扩展为 3 米）的平行孔。其配备的高性能钉锤式凿岩机和华泰 EHPCS 台车控制系统，为用户提供了高定位精度，高生产效率，高钻孔质量的采矿作业解决方案。

CYTC76 is a medium-sized long hole production drilling jumbo. With a hole ranges from 64 to 89mm in diameter, and a 27+1 rod handler for drilling up to 35m hole depth, it is suitable to drill vertical or tilted fan-shaped holes or 1.5m parallel holes (3m extendable). Thanks its powerful hydraulic drifter and KAMACH' S EHPCS Operating Control System, the machine can supply customer a precise positioning, high productivity and quality drilling solution for mining production underground.



2.主要技术参数:

Main technical specification:

整机参数 General specification:

| | | | | |
|--------------------------------|-----|----|------------------------|------------|
| 运输状态尺寸 Tramming size | 长 L | mm | 9100 ± 50 8160 ± 100 | |
| | 宽 w | | 2350 ± 50 1250 ± 100 | |
| | 高 H | | 3200 ± 50 2450 ± 100 | |
| 最小转弯半径 Turning radius, Min. | | mm | 外侧 Outer | 5800 ± 100 |
| | | | 内侧 Inner | 3200 ± 100 |
| 工作状态稳车方式 Stablization | | — | 液压支腿 Hydraulic jack | |

| | | |
|------------------------------|----|-------------------|
| 最小离地间隙 Min. ground clearance | m | ≥300 |
| 工作状态稳车工作宽度 Jacked width | mm | 3160±50 2260±50 |
| 整机重量 Weight | kg | 14500±400 |
| 钻孔直径 Hole diameter | mm | φ64-φ89 |
| 钻孔深度 Hole depth | m | 35 |
| 适应钎具 Drill rod length | mm | 1220(T38) |
| 储杆数量 Rod capacity | 根 | 27+1 |
| 最大卷缆长度 Cable length, Max. | m | 100 |

钻（凿）孔机械 Drilling system

| 类型特征 Type | | — | 冲击+回转 Impact + Rotation |
|-----------------------|---|-------|-------------------------|
| 冲击机构 Impact sys. | 冲击功率 Impact power | Kw | 22 |
| | 冲击能 Impact energy | J | 400 |
| | 冲击频率 Impact frequency | Hz | 55 |
| | 工作压力 Pressure | MPa | 18-20 |
| | 工作流量 Flow | L/min | 100 |
| 回转机构 Rotation sys. | 额定转矩 Rated torque | N·m | 1000 |
| | 额定转速 Rated rotation speed | r/min | 115~175 |
| | 马达最大回转压力 Rotation pressure, motor max. | MPa | 14 |
| | 工作流量 Flow | L/min | 75 |

推进器 Feed

| | | |
|-------------------------------------|--------|----------------------------|
| 推进方式 Feed method | — | 油缸-钢丝绳 Cylinder-steel wire |
| 总长度 Total length | mm | 3250 |
| 推进行程 Feed stroke | mm | 1460 |
| 推进力 Feed force | kN | 15 |
| 凿岩推进速度 Drifter feed speed | mm/min | 1000 |
| 空载推进（返回）速度 Unload feed (back) speed | mm/min | 4000 |
| 工作压力 Pressure | MPa | ≤10 |

行走机构 Trammig mechanism

| | | | | |
|--------------------------|-------|-------------------------------|-------|----|
| 行走方式 Type | — | 轮胎式 Wheel type | | |
| 驱动机构类型 Driven type | — | 液力-机械 Hydraulic-mechanical | | |
| 行走速度 Trammig speed | km /h | 前进挡 Forward | I 档 | 5 |
| | | | II 档 | 9 |
| | | | III 档 | 15 |
| | | 后退挡 Backward | I 档 | 7 |
| | | | II 档 | 17 |
| 后桥摆动角 Rear axle steering | ° | 10° ±1° | | |
| 爬坡能力 Gradeability | ° | 14° | | |

| | | | |
|-----------------|---------------------------|-------|-------------------------------------|
| 行走机构特征 Tramming | | — | 驱动桥 (四驱) Drive axle (four wheel) |
| 柴油机 Engine | 额定功率 Rated power | kW | 72 |
| | 额定转速 Rated rotating speed | r/min | 2300 |

液压泵站 Pump unit

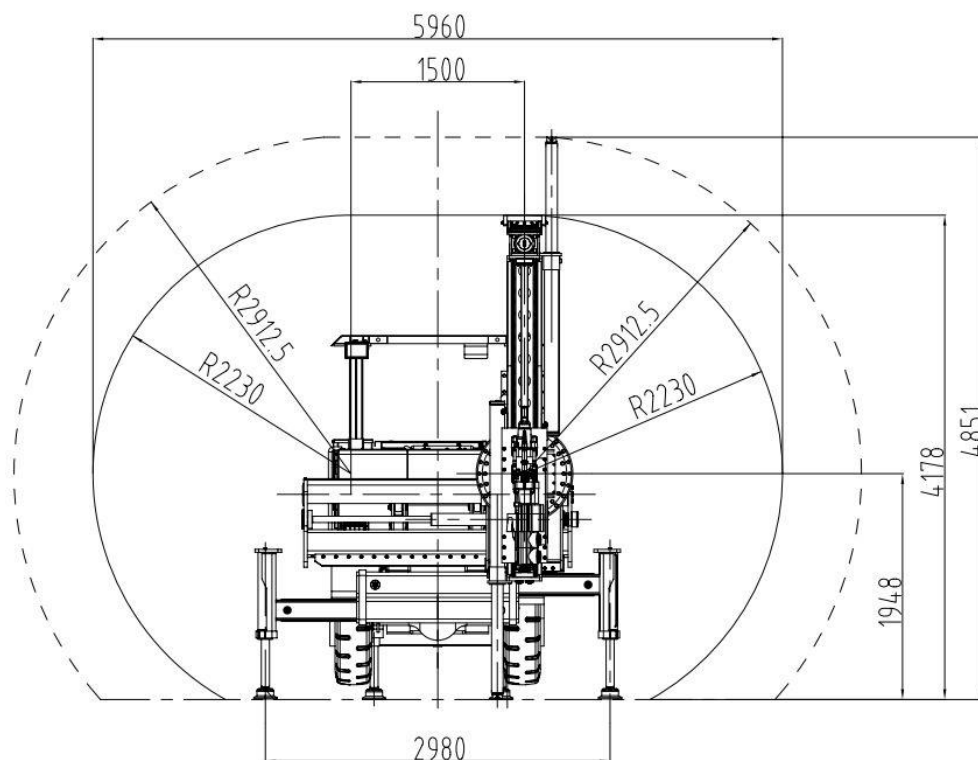
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|-----------------------|---------------------|------|---------------------------------------|
| 电动机 Electric motor | 额定电压 Rated voltage | V | 380(可定制 customized) |
| | 额定功率 Rated power | kW | 75 |
| 油泵 Oil pump | 类型 Type | — | 变量柱塞泵+齿轮泵 Variable pump + Gearpump |
| | 额定压力 Rated pressure | MPa | 23.5 |
| | 排量 Displacement | ml/r | 130 |

辅助工作装置 Assistant sys.

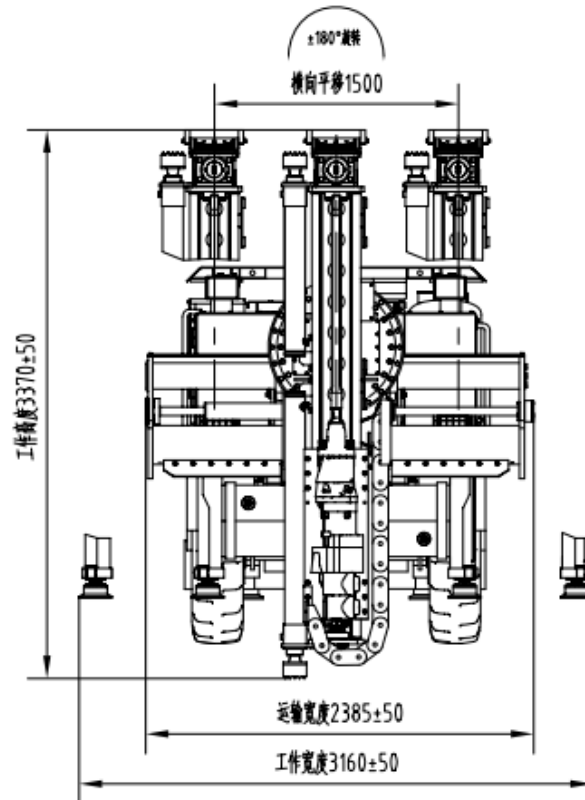
| | | | | |
|---------------|-----------------------|--------------------|---------------------|----------------------|
| 供气装置 Air | 额定压力 Rated pressure | | Bar | 8 |
| | 额定流量 Rated Flow | | m ³ /min | 1 |
| | 电动机 Electric motor | 额定功率 Rated power | kW | 7.5 |
| | | 额定电压 Rated voltage | V | 380 (可定制 customized) |
| 供水装置 Water | 额定压力 Rated pressure | | MPa | 0.6~1.2 |
| | 额定流量 Rated Flow | | L/min | 52 |
| | 电动机 Electric motor | 额定功率 Rated power | kW | 3 |
| | | 额定电压 Rated voltage | V | 380 (可定制 customized) |

3. 结构图 Structure fig.

巷道截面 Coverage area



平移 Horizontal slid



主要元件配置清单(22U)

Main components list

| No. | 名称 | 生产厂家或品牌 |
|-----|-------------------------------|------------------------------------|
| 01 | 凿岩机 Drifter | 瑞典安百拓 Epiroc |
| 02 | 主泵 Pump | Danfoss |
| 03 | 主阀 Master valve | 美国SUN插装阀 |
| 04 | 控制阀 Control valve | 力士乐 Rexroth |
| 05 | 电动机 Electrical motor | 万高 WEG |
| 06 | 柴油机 Engine | 潍柴 WEICHAI |
| 07 | 变速箱 Gearbox | 山推 SHANTUI |
| 08 | 驱动桥 Axle | 云宇 YUNYU |
| 09 | 轮胎 Wheel | 天津国际 Tianjin international |
| 10 | 液压油缸 Cylinder | 国产(进口密封) China made |
| 11 | 水泵 Water pump | 国产 China made |
| 12 | 螺杆空压机 Screw air compressor | 中德合资 Sino-Germany |
| 13 | 紧固件 Fastener | 上标五厂 Shanghai standard 5th company |

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产品不断更新，如有变动不另行通知，所有配置清单以最终签订合同为准，敬请谅解。

Note: Product would be improved consistently, so the specification may change. The signed technical specification agreement of sold products shall prevail.

