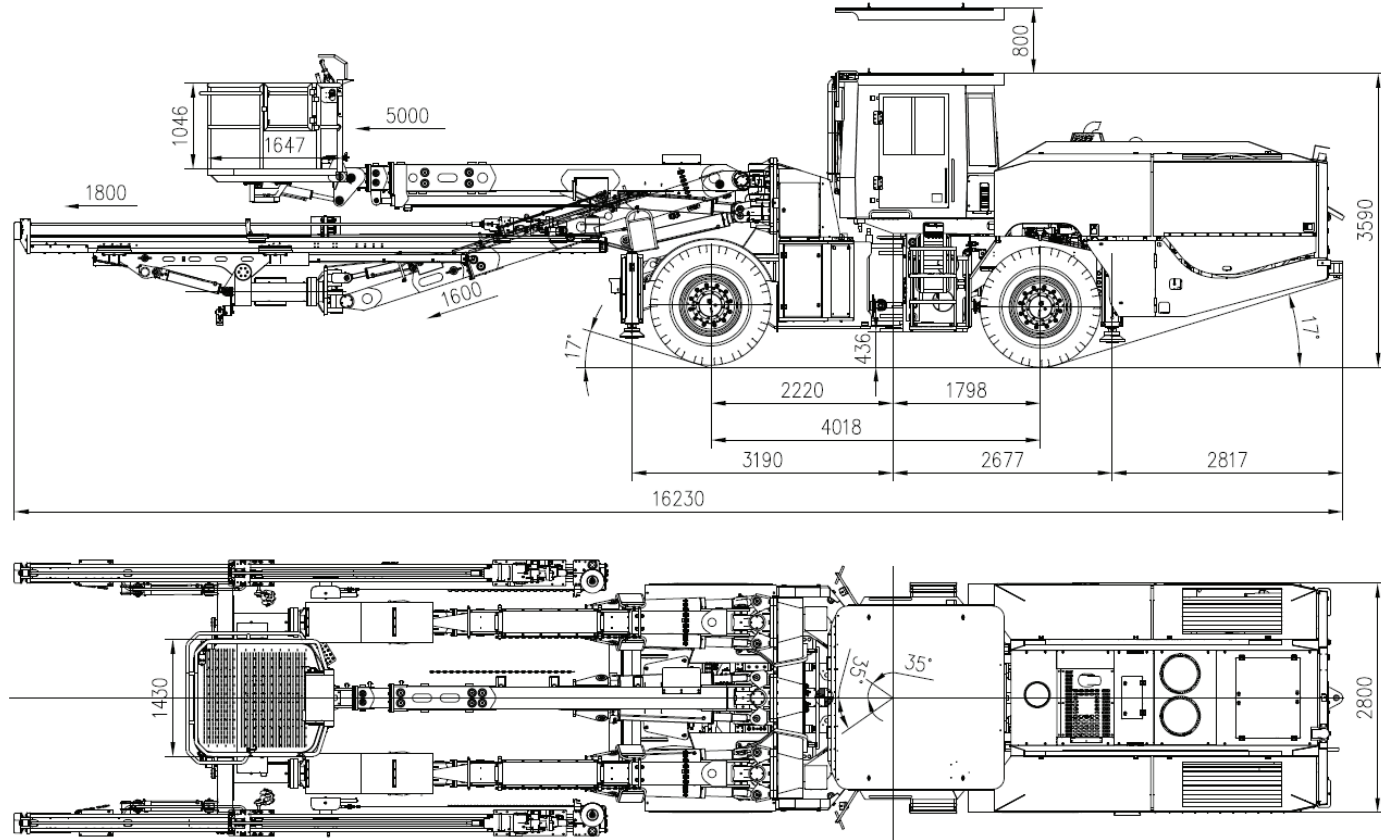
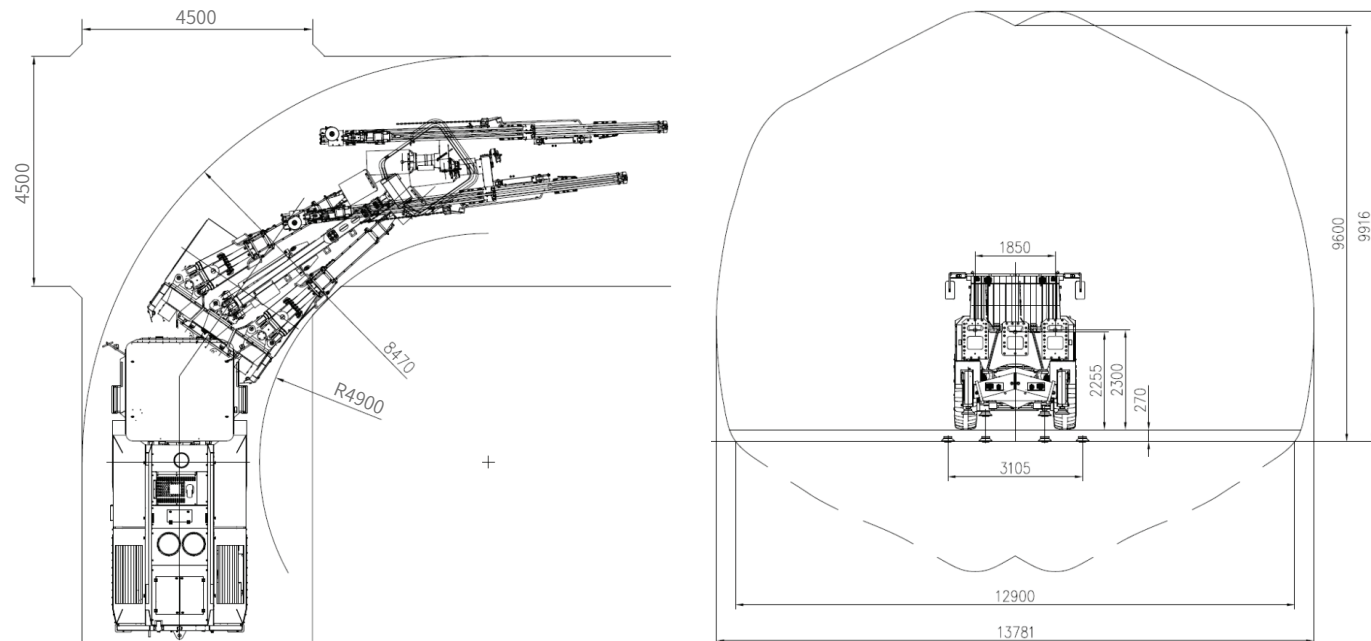


外形尺寸 Dimensions



转弯半径 Turning radius

作业覆盖范围 Work Coverage area



本文图片所示设备可能配有选装部件，设备规格如发生变化，恕不预先通知。具体情况请咨询您当地的志高掘进代理商。  
Product pictures in this brochure may be equipped with options and all specifications are subject to change without prior notice. Please consult your local representatives of Zhigao.

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# ZEGA UJ22A

## 掘进台车 Jumbo Drill Rig

中国“智”造  
Made with Chinese Wisdom



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广泛适用于公路、铁路、水电等中型隧道掘进、锚杆施工，并配有两个重型钻臂和一个服务平台，全方位，高标准配置以满足客户不同需求。UJ22A is widely used in medium-sized tunnel excavation and bolting operation for highway, railway and hydro-power projects. It has two robust drilling booms and one service platform, all-round and high standard configuration to meet different needs of customers.

作业覆盖面积 Drilling coverage area: 116 m<sup>2</sup>



志高掘进  
ZEGA



# ZEGA UJ22A

ZEGA UJ22A 是一款用于公路、铁路、水电等中大型隧道施工的全液压掘进钻机，该钻机配备两套凿岩重型工作臂以及一套辅助作业多功能服务平台，既可以满足隧道掘进工作，也可用于钻凿锚杆孔等支护工作，每个钻臂各装备一台ZY104M高频液压凿岩机，最大功率达20kW，具备平行保持功能的钻臂覆盖尺寸13.8×9.6米，最大覆盖范围达116平米。

ZEGA UJ22A is a full hydraulic tunneling jumbo drilling rig for medium and large tunnel development in highways, railways and hydro-power projects. The rig equipped with two heavy-duty booms and one multifunctional service platform. Besides blast hole drilling, the rig also can be used for drilling bolting holes. Each drill boom is equipped with a ZY104 high-frequency hydraulic rock drill with a maximum power of 20kW; the drill boom with parallel holding function covers a size of 13.8 x 9.6 m and the coverage area is 116 square meters.

## 1. 推进器 Feed beam

■ 重型铝合金推进梁，具有很高的抗弯、抗扭强度，使用寿命长；Heavy-duty aluminum alloy feed beam with high bending and torsion resistance strength and long service life.

■ 推进梁表面覆有不锈钢皮，运动部件间采用聚四氟乙烯耐磨衬垫，提高使用寿命。The surface of the feed beam covered with stainless steel sleeve, and the wear-resistant pad of polytetraethylene between the moving parts to improve service life.

## 2. 复合坐标系自动平行钻臂 Compound coordinate system with automatic parallel drilling boom

■ 双三角支撑钻臂能够保证在各个方向上准确的液压平行保持功能。Double triangular support boom for accurate hydraulic parallel holding in all directions.

■ 加大的覆盖范围和高强度新材料的应用结构设计，承载能力更强、刚性更好，避免材料扰性带来的定位晃动问题，可满足不同定位角度的工作需求。Increased coverage and application of structure design with high-strength new materials for stronger load capacity and better rigidity, avoiding the problem of positioning sway caused by material bending, and meeting the needs of different positioning angles.

## 3. 底盘 Carrier

■ 重载铰接式底盘设计，可满足设备在中小型隧道中的灵活移机。Heavy-duty articulated chassis to meet flexible movement of rig in small to medium-sized tunnels.

■ 四个液压支腿用于稳固定位。Four hydraulic jacks for stable drilling positioning.

■ 双回路踏板式刹车加紧急停车制动器，在其中一路甚至双路油管损坏的前提下，也可安全制动。Dual-circuit pedal control brakes with emergency parking brake for safe braking in case one or even both circuits damaged.

## 选配件 Options

· 4,305 推进器  
4,305 mm Feed

· 孔深测量  
Hole depth meter

· 寒带配置  
Code zone kit

· 自动润滑系统  
Automatic lubrication system

· 1+1 换钎机构  
1+1 Drill rod change mechanism

## 4. 凿岩机 Rock Drill (drifter)

■ ZY104M 凿岩机带有双缓冲减震系统，确保钻具最佳的使用寿命。ZY104M rock drill with dual-dampening system for the best service life of drill tools.

■ 压力油膜保护和润滑各结合界面，减少凿岩机内部磨损。Pressure protection oil film and all jointing lubrication interfaces to reduce internal wear of the rock drill.

## 5. 控制系统 Control System

■ 液压凿岩控制系统，拥有双孔径参数设定一键切换功能，自动开孔、无润滑无水不冲击、回转压力自动控制推进、推进压力自动控制冲击及自动防卡钎功能。Hydraulic drilling control system with one button switching function for two hole parameter settings, automatic hole collaring, automatic percussion stop without lubrication or water, rotation pressure auto controlled feed, feed pressure auto controlled percussion and auto anti-jamming functions.

■ 电器系统采用 CAN 通讯连接技术，模块化的分区域布局设计，简化线路，提高了可靠性。CAN communication technology Electrical system, modular layout design, simplified circuit and improved reliability.

■ 整机配置核心元件采用原装进口品牌产品，可确保产品在地下恶劣环境中使用的高可靠及操控先进性。Key components of the rig from first-class international brands for high reliability and advancement of the products in the tough underground applications.

## 6. 复合坐标系自动平行服务平台

### Compound coordinate system with automatic parallel service platform

■ 双三角支撑大臂能够保证在各个方向上准确的液压平行保持功能。Double triangular support boom for accurate hydraulic parallel holding in all directions.

■ 加大的覆盖范围和额定 600kg 载重设计，可满足不同客户需求。Increased coverage and rated 600kg load capacity to meet various customer needs.

## 7. 驾驶室 Protective roof cab

■ 加大视野的可升降驾驶室。Liftable cab with better visibility.

■ 驾驶舱中的显示器集中反映了钻车所有数据并自动报警、储存、显示钻机的运行状态，使得钻机操作方便，维修故障查询简单。The display of various data and parameters of drill rig and automatic alarm, displaying and saving running status data of the rig, easy for operator and trouble shooting.

■ 标配大广角倒车影像技术，防止移机过程中因盲区问题导致机器碰撞损坏。Standard wide-angle back up image technology to prevent rig collision and damage caused by blind spot during tramping.



## 主要技术参数 Technical specifications

|                                     |                         |
|-------------------------------------|-------------------------|
| 凿孔范围 Hole diameter range ( mm )     | 41 - 102                |
| 钻孔深度 Hole depth ( mm )              | 5,270                   |
| 钻杆规格 Drill rod size & length ( mm ) | T38 - H35 - R32 / 5,525 |

## 配套凿岩机 Rock drill ( Drifter )

|                          |        |
|--------------------------|--------|
| 型号 Model                 | ZY104M |
| 冲击功率 Impact power ( kW ) | 20     |
| 冲击频率 Impact rate ( Hz )  | 60     |

## 空压机 Air compressor

|                                       |   |
|---------------------------------------|---|
| 压力 Working pressure ( bar )           | 8 |
| 排量 Rated FAD ( m <sup>3</sup> / min ) | 1 |

## 柴油机 (国四) Diesel engine (China IV)

|                       |                   |
|-----------------------|-------------------|
| 型号 Model              | B5.9CS4-C175      |
| 功率 Rated power ( kW ) | 129 ( @ 2,200rpm) |
| 转速 RPM ( r/min )      | 2,200             |

## 电动机 Electric motor

|                          |        |
|--------------------------|--------|
| 功率 Rated power ( kW )    | 55 x 2 |
| 转速 Working RPM ( r/min ) | 1,475  |
| 电压 Voltage ( V )         | 380    |

## 推进器 Feed

|                                |       |
|--------------------------------|-------|
| 总长度 Total length ( mm )        | 7,244 |
| 推进行程 Feed travel length ( mm ) | 5,270 |
| 补偿长度 Feed extension ( mm )     | 1,800 |

## 行走 Tramping

|                                |                                    |
|--------------------------------|------------------------------------|
| 行走速度 Tramping Speed ( km / h ) | 前Forward 29 / 7.8<br>后Reverse 10.4 |
| 爬坡角度 Gradeability ( degree )   | 15°                                |
| 离地间隙 Ground clearance ( mm )   | 436                                |

## 钻臂 Boom

|                                      |                  |
|--------------------------------------|------------------|
| 钻臂延伸 Boom extension ( mm )           | 1,600            |
| 钻臂左右摆动角度 Boom swing angle ( degree ) | ±45              |
| 钻臂举升/下摆角度 Boom lift angle ( degree ) | +68/-45          |
| 推进俯仰 Feed tilt angle ( degree )      | +3/-90           |
| 推进器翻转 Feed roll-over ( degree )      | 360 (螺旋式 Spiral) |

## 服务平台 Service platform

|  |           |
|--|-----------|
| 大臂延伸 Boom extension ( mm )               | 5,000     |
| 大臂左右摆动角度 Boom swing ( degree )           | ±45       |
| 大臂举升/下摆角度 Boom lift up / down ( degree ) | +60 / -35 |
| 额定荷载 Rated load ( Kg )                   | 600       |

|   |                                |
|---|--------------------------------|
| 电缆卷盘容量 Cable reel capacity ( m )  | 100                            |
| 水管卷盘容量 Water hose reel capacity ( m )                                   | 100                            |
| 燃油箱容量 Fuel tank volume ( L )  | 200                            |
| 整机重量 Gross weight ( T )   | ≤40                            |
| 外形尺寸 (长X宽X高) Dimensions ( L x W x H with roof down / up height ) ( mm ) | 16,230 x 2,800 x 3,590 / 4,390 |
| 行驶转弯半径Turning radius ( mm )   | 内Inner 4,900<br>外Outer 8,470   |

|  |             |
|--|-------------|
| 服务平台覆盖范围 (宽X高) Service platform coverage (W x H) ( m ) | 17.3 x 11.2 |
| 工作端面尺寸 (宽X高) Face size (W x H) ( m )                   | 13.8 x 9.6  |
| 最大工作面积 Maximum work coverage area ( m <sup>2</sup> )   | 116         |