

ZR140 旋挖钻机

ROTARY DRILLING RIG

产品特点

TECHNICAL CHARACTERISTICS

- 精选动力强劲的康明斯电控发动机，配合中联核心技术的电控系统和液压系统，可充分发挥其工作能力，在同样的作业条件下，可比国内外同功率设备节约油约10%；
The selected Cummins electronic control engine with strong power, combined with the electronic control system and hydraulic system of Zoomlion core technology, can fully exert its working ability. Under the same operating conditions, it can save about 10% of fuel compared to domestic and foreign equipment with the same power;
- 应用国际领先的CAN BUS技术和虚拟仪表系统，配合性能独特的传感器，实现钻机的精确控制和工况监控；
Applying internationally leading CAN BUS technology and virtual instrument systems, combined with unique sensors, to achieve precise control and monitoring of drilling rig conditions;
- 采用国际先进的负荷传感、负载敏感和比例控制液压系统，使液压系统效率更高、更节能；
Adopting internationally advanced load sensing, load sensitivity, and proportional control hydraulic systems to improve hydraulic system efficiency and save energy;
- 中联自制旋挖钻机专用底盘，采用重型液压可伸缩式履带，具有超强稳定性，便于运输，行走性能优越；
Zoomlion self-made rotary drilling rig special chassis adopts heavy-duty hydraulic extendable tracks, which have strong stability, easy transportation, and superior walking performance;
- 主卷扬采用前置方式，大大方便了设备的操作；
The main winch adopts a front mounted mode, greatly facilitating the operation of the equipment;
- 动力头具有多档控制模式，从而适应更多复杂工况。
The rotary drive has multiple gear control modes to adapt to more complex working conditions.



主要参数 Main Specifications	单位 Unit	数值 Value	备注 Note
钻孔参数 Drilling parameters			
最大钻孔直径 Max.drilling diameter	mm	1300	
最大钻孔深度 Max.drilling depth	m	44/35	Friction/Interlocking
动力头 Rotary drive			
最大输出扭矩 Max.output torque	kN · m	140	
转速 Rotation speed	r/min	6~33	
加压系统 Crowd system (油缸加压 Cylinder crowd)			
最大加压力 Crowd force push	kN	130	
最大起拔力 Crowd force pull	kN	160	
加压行程 Max.crowd stroke	mm	3500	
主卷扬 Main winch			
提升力(最大提升力) Lifting force (Max. Lifting force)	kN	140	
最大速度 Max.speed	m/min	80	
钢丝绳直径 Wire rope diameter	mm	22	
副卷扬 Aux. winch			
提升力(最大提升力) Lifting force (Max. Lifting force)	kN	80	
最大速度 Max.speed	m/min	70	
钢丝绳直径 Wire rope diameter	mm	22	
桅杆倾角 Inclination angle of mast			
桅杆前倾角度 Mast forward inclination angle	°	5	
桅杆左右倾斜角度 Mast left/right offset angle	°	5	
发动机 Engine			
发动机型号 Engine		Cummins QSB5.9-C16	
额定功率 Rated power	kW	119	
额定转速 Rated speed	r/min	2000	
排放标准 Emission standard		Euro III	
上车回转机构 Undercarriage			
最大回转速度 Max.slewing speed	r/min	3.2	
整机 Overall main machine			
工作重量 Working weight	t	40	
最大牵引力 Max.traction force	kN	250	
最大行走速度 Max.traveling speed	km/h	2.2	
爬坡能力 Climbing capacity	%	30	
可配置钻杆型号 Kelly bar type			
机锁式 Interlocking type Φ 355-4 × 10m	m	35	标配 Standard
摩擦式 Friction type Φ 355-5 × 10m	m	44	可选 Optional

