

## 产品亮点 HIGHLIGHTS



ZR185RC



ZR255R



ZR320R

- 1. 低温辅助:** 具备燃油、液压油、冷却液、电池和驾驶室加热5大低温辅助系统;  
**Low-Temperature Assistance:** Equipped with five low-temperature assistance systems, including fuel heating, hydraulic oil heating, coolant heating, battery heating, and cabin heating.
- 2. 智能施工:** 具备一键扫孔、一键甩土、一键搓管机供油、一键入岩和集中润滑5大施工辅助功能;  
**Intelligent Operation:** Features five intelligent construction support functions, including one-click hole sweeping, one-click soil dumping, one-click oscillator oil supply, one-click rock entry, and centralized lubrication.
- 3. 施工能力:** 具备动力头浮动, 集成连接盘, 全行程卷扬加压及全程卷扬浮动4种施工性能;  
**Construction Capabilities:** Offers four construction performance features, including floating power head,, integrated connector plate, full-stroke winch pressurization, and full-stroke winch floating.
- 4. 多功能工法:** 具备凯氏钻进、护筒跟进、护筒跟进配搓管机、长螺旋钻进4种多功能工法。  
**Multi-Functional Techniques:** Supports four multi-functional construction methods: Kelly drilling, casing follow-up, casing follow-up with oscillator, CFA drilling, and low headroom.

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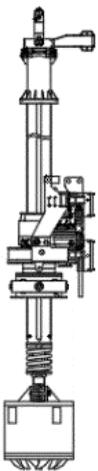
在众多可用的配件包中，我们提供：

Among the various accessory kits available, we offer:

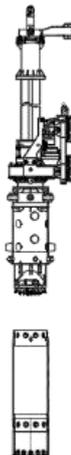
- **钻杆**：不同长度、不同直径的两种钻杆：摩阻杆、机锁杆；
- **Kelly bar**: Two types of drill rods with different lengths and diameters: friction rods and interlocking rods.
- **钻具**：不同直径的各种类型的多种钻具；
- **Drilling Tools**: Various types of drilling tools with different diameters.
- **套管**：动力头驱动器、套管、管靴等下护筒功能的所有部件；
- **Casings**: All components for casing installation, including rotary drives, casings, and casing shoes.
- **搓管机**：可直接匹配在旋挖钻机上的套管直径1,500 mm的搓管机；
- **Oscillator**: A Oscillator compatible with rotary drilling rigs, with casing diameters from 1,500 mm.
- **长螺旋**：直径从450mm-1,200mm的各种长度的长螺旋钻杆和钻具，及合适的内导向架和清土器；
- **Continuous Flight Auger**: Continuous Flight Auger rods and tools with diameters ranging from 450 mm to 1,200 mm, with appropriate inner guide frames and soil cleaners.

## 多功能工法 ALL-IN-ONE

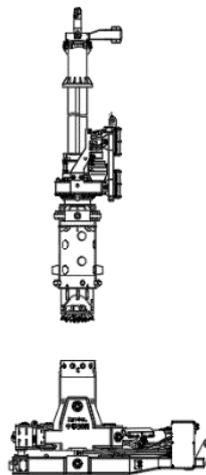
1.Kelly drilling  
凯式钻进



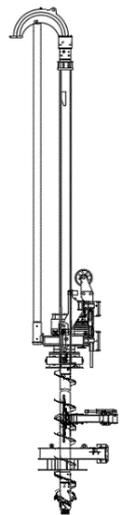
2.Cased Kelly drilling  
护筒跟进



3.Cased Kelly drilling with oscillator  
护筒跟进配搓管机



4.CFA drilling  
长螺旋钻进



## 产品亮点HIGHLIGHTS



6. 施工监控  
Construction Monitoring



7. 转场便捷  
Convenient Transfer



8. 智能电控  
Intelligent Electronic Control



1. 高效节能  
High Efficiency and Energy Saving



5. 稳定可靠  
Stable and Reliable



3. 高效施工  
Efficient Construction



4. 便利保养  
Convenient Maintenance



2. 动力充沛  
Powerful Engine



## 产品亮点 HIGHLIGHTS



### 9. 操纵舒适 Operator Comfort

- **新感受:** 驾驶室座椅空间大, 视野开阔;
- **New Experience:** Spacious cabin seat with wide visibility.
- **抗寒暑:** 大功率冷暖空调配风扇, 无畏严寒酷暑。
- **Climate Resistant:** Equipped with a high-power heating and cooling air conditioner and fan, ensuring comfort in extreme climates.

### 10. 极致安全 Ultimate Safety

- **全面监控:** 吊锚架、副卷扬摄像头;
- **Comprehensive Monitoring:** Equipped with boom anchor frame and auxiliary winch cameras.
- **触底保护:** 钻具触底、倒立桅杆防挤压等保护。
- **Bottom-Out Protection:** Includes protection against drill bottoming out and anti-crushing protection for inverted masts.



### 11. 便捷保养 Convenient Maintenance

- 全系列搭载集中润滑系统, 润滑范围覆盖回转支承以上点位;
- The entire series is equipped with a centralized lubrication system, lubrication points above the slewing bearing.
- 全新的空间布局, 维修空间大, 集中维护, 快速维修。
- The new spatial layout provides ample maintenance space, centralized servicing, and quick repairs.

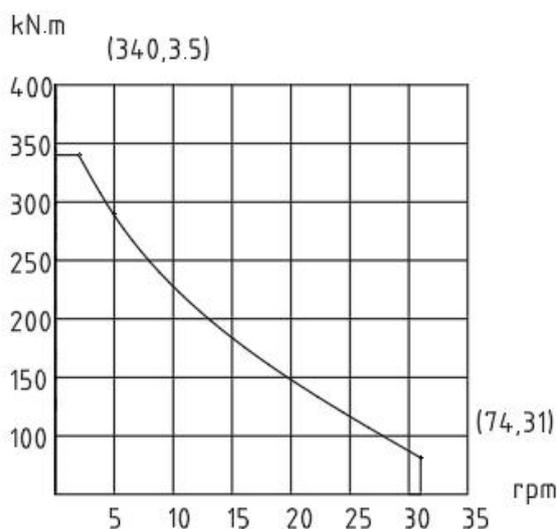
### 12. 智能电控 Intelligent Electronic Control

- 12.3寸电容式触摸屏, 整机三维动态显示, 视觉无延迟;
- 12.3-inch capacitive touchscreen provides a three-dimensional dynamic display of the entire machine with no visual delay.
- 升级控制面板, 一键入岩、一键甩土, 操作步骤减少30%。
- The control panel has been upgraded, featuring one-button rock entry and one-button soil dumping, reducing operation steps by 30%.

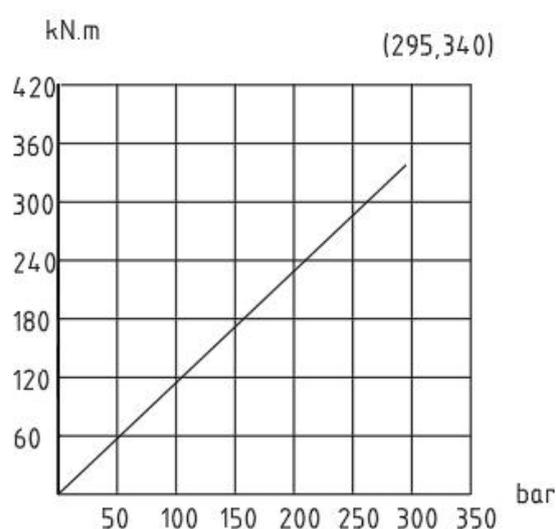


## 技术参数 Technical specifications

动力头 Rotary Drive	
扭矩 (295bar)	Torque(at 295 bar) 340 kN·m
最大转速	Speed of rotation 6-31 rpm
加压系统 Crowd system	
加压力/起拔力	Crowd pressure/pull 335 / 335 kN
速度 (下降/上升)	Speed (down/up) 10 m/min
快速模式 (下降/上升)	Fast speed (down/up) 24 m/min
主卷扬 Main winch M6 L3 T5	
单绳拉力	Line pull 340 kN
钢丝绳直径	Rope diameter 36 mm
最大提升速度	Line speed (max.) 72 m/min
副卷扬 Auxiliary winch	
单绳拉力	Line pull 110 kN
钢丝绳直径	Rope diameter 24 mm
最大提升速度	Line speed (max.) 62 m/min
钻桅倾斜度 Mast inclination	
向后/向前/左右	Backward/forward/lateral 90 / 5 / 5 °



动力头扭矩-转速  
Rotary Drive  
Torque-Speed

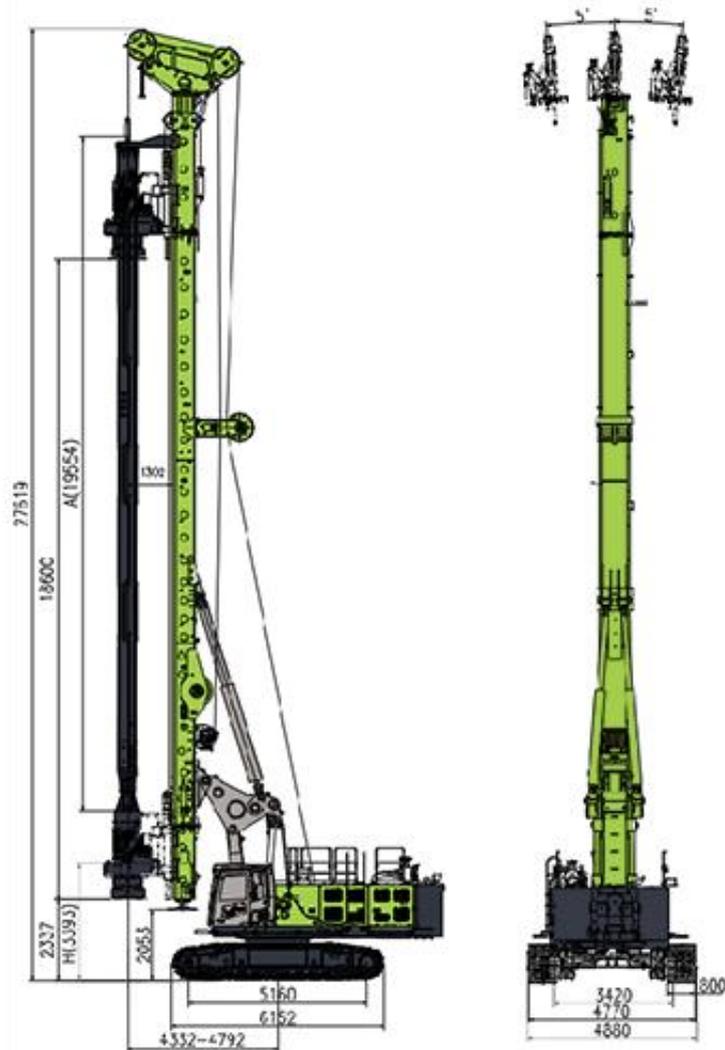


动力头扭矩-压力  
Rotary Drive  
Torque-Pressure

## 技术参数 Technical specifications

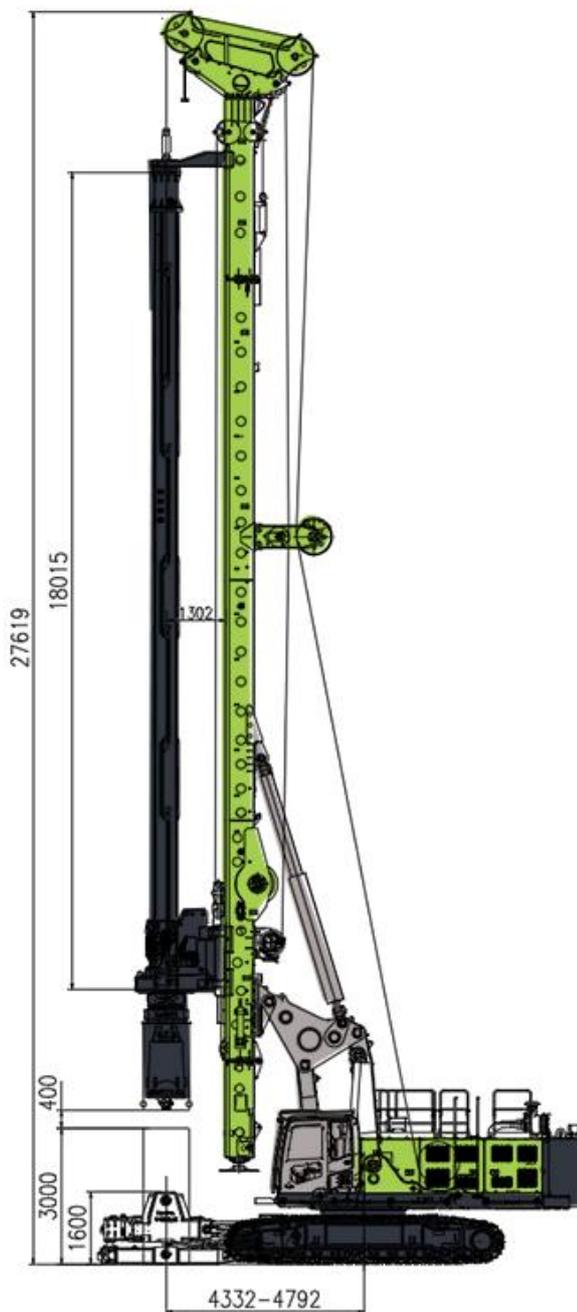
发动机		Engine
型号	Type	QSM11
额定功率	Rated output	298 KW
发动机废气排放标准	Exhaust Emission Standard	China Stage III
柴油箱容量	Exhaust tank capacity	618 L
驾驶室内噪音	Sound pressure level in cabin EN 16228	≤85 dB(A)
全功率下噪音	Sound power level 2000/14/EC, EN 16228	≤110 dB(A)
液压系统		Hydraulic system
液压系统压力	Hydraulic pressure	343 bar
流量	Flow rates	760 L/min
液压油箱容量	Hydraulic oil tank capacity	930 L
下车 (履带可伸缩式结构)		Undercarriage (Telescopic Crawler Structure)
履带宽度 (收缩/伸展)	Track width (retracted/extended)	3,420 / 4,770 mm
总宽度 (收缩/伸展)	Overall width of crawlers (retracted/extended)	3,530 / 4,880 mm
履带总长度	Overall length of crawlers	6,152 mm
回转半径	Rotary range of motion	4,874 mm
牵引力	Traction force	560 kN
整机		Machine
工作高度	Overall height	27,619 mm
工作质量 (13米机锁杆)	Operating weight (with 13 m Kelly bar)	114 t
运输宽度	Transport width	3,530 mm
运输高度	Transport height	3,500 mm
运输长度	Transport length	17,970 mm

## 凯氏钻进工法 Kelly Drilling Method



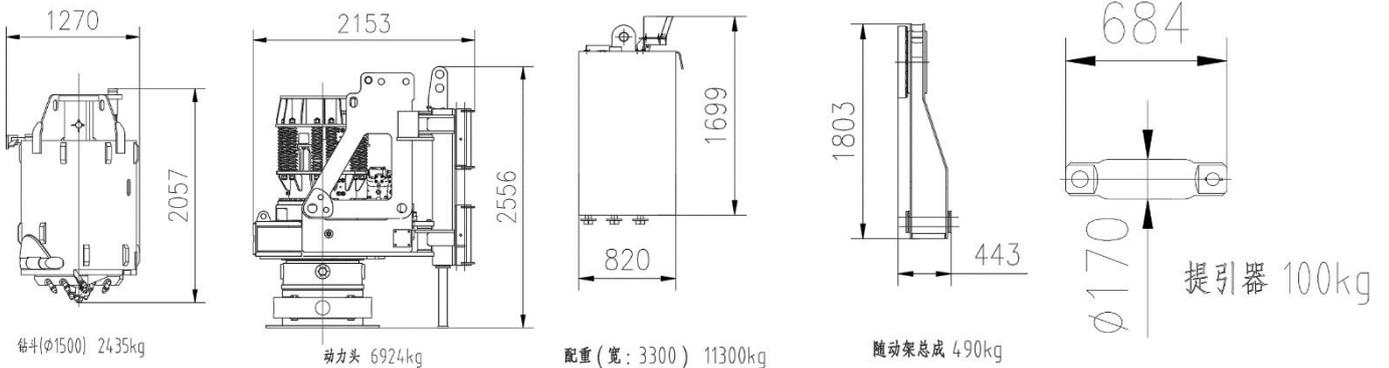
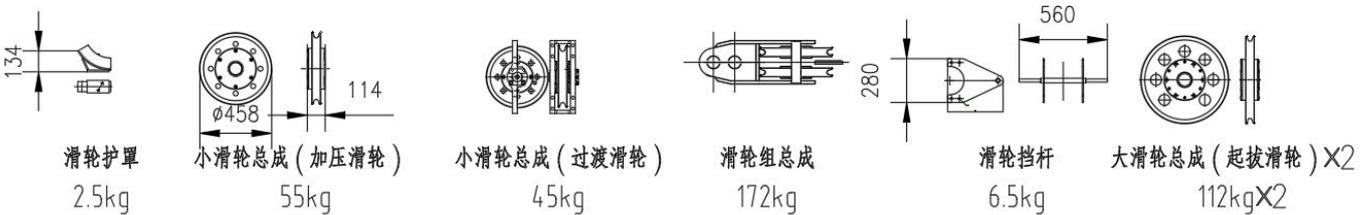
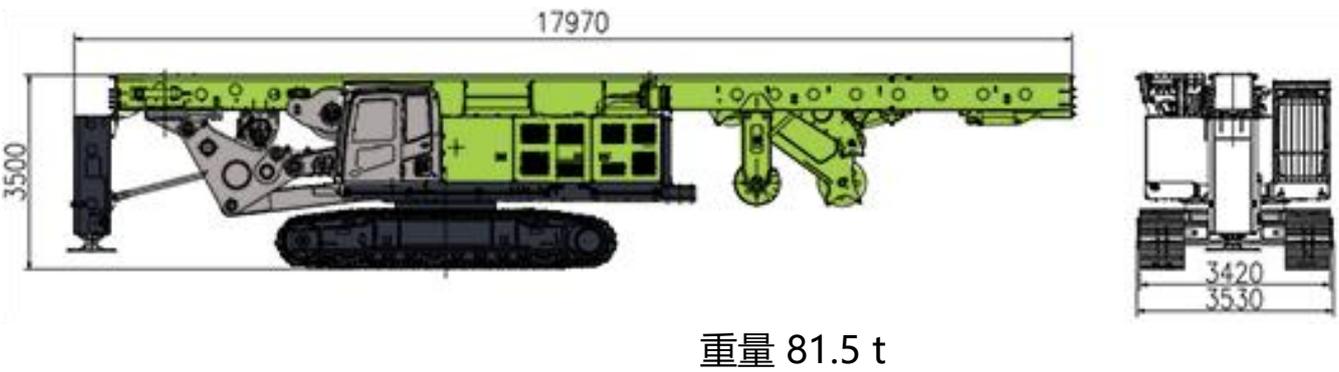
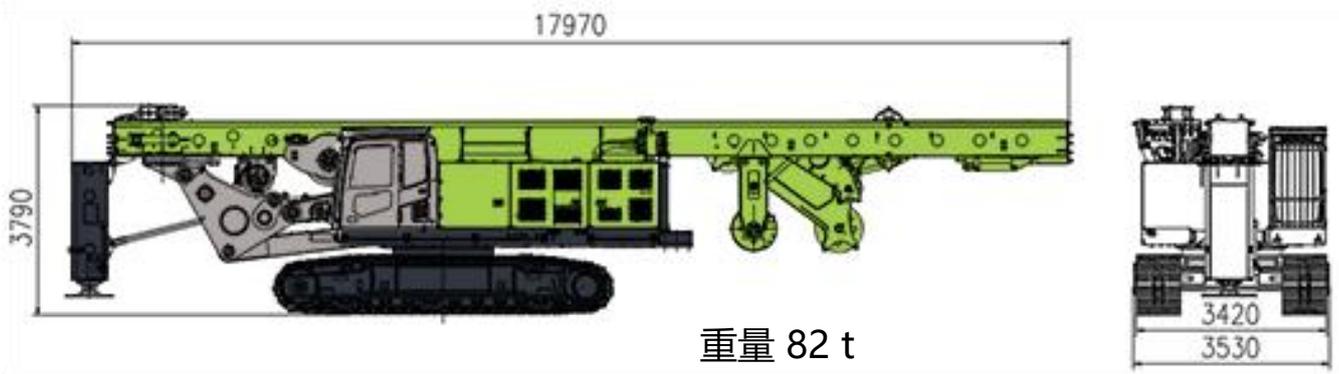
最大钻孔直径	Max. drilling diameter	2,300 mm			
最大钻孔深度	Max. drilling depth	65 / 100 m			
加压力/起拔力	Crowd force / Line pull	335 / 335 kN			
加压行程	Stroke	18,600 mm			
主卷扬拉力	Main winch Line pull	340 kN			
副卷扬拉力	Auxiliary winch Line pull	110 kN			
Kelly bar	Transport length A	Kelly bar weight	Bucket above ground height H	Depth T	
4-part interlock bar	Φ508-4X18	19,600 mm	16.9 t	3.4 m	65 m
	Φ508-4X16	17,600 mm	14.7 t	5.4 m	58 m
	Φ508-4X13.5	15,100 mm	12.8 t	7.9 m	48 m
6-part friction bar	Φ508-6X18	19,600 mm	17.8 t	3.4 m	100 m
	Φ508-6X17	18,600 mm	16.8 t	4.4 m	94 m
	Φ508-6X16	17,600 mm	15.8 t	5.4 m	88 m

## 护筒跟进工法 Casing Kelly Drilling Method



Kelly bar	Maximum depth	Kelly bar weight	Casing length with Casing oscillator
Ø508-4X18 m	65 m	16.9 t	3 m
Ø508-4X16 m	58 m	14.7 t	5 m
Ø508-4X13 m	46 m	11.8 t	8 m
Ø508-6X18 m	100 m	17.8 t	3 m
Ø508-6X17 m	94 m	16.8 t	4 m
Ø508-6X16 m	88 m	15.8 t	5 m

转场运输状态	Standard Transportation size	
运输重量	Transport weight	82 / 81.5 t
运输长度	Transport length	17,970 mm
运输宽度	Transport width	3530 mm
运输高度	Transport height	3,790 / 3,500 mm





CFA转场运输状态	CFA Standard Transportation size	
运输重量	Transport weight	81.5 t
运输长度	Transport length	17,970 mm
运输宽度	Transport width	3,530 mm
运输高度	Transport height	3,500 mm

