

U-SERIES Rotary Drilling Rig ZR255U

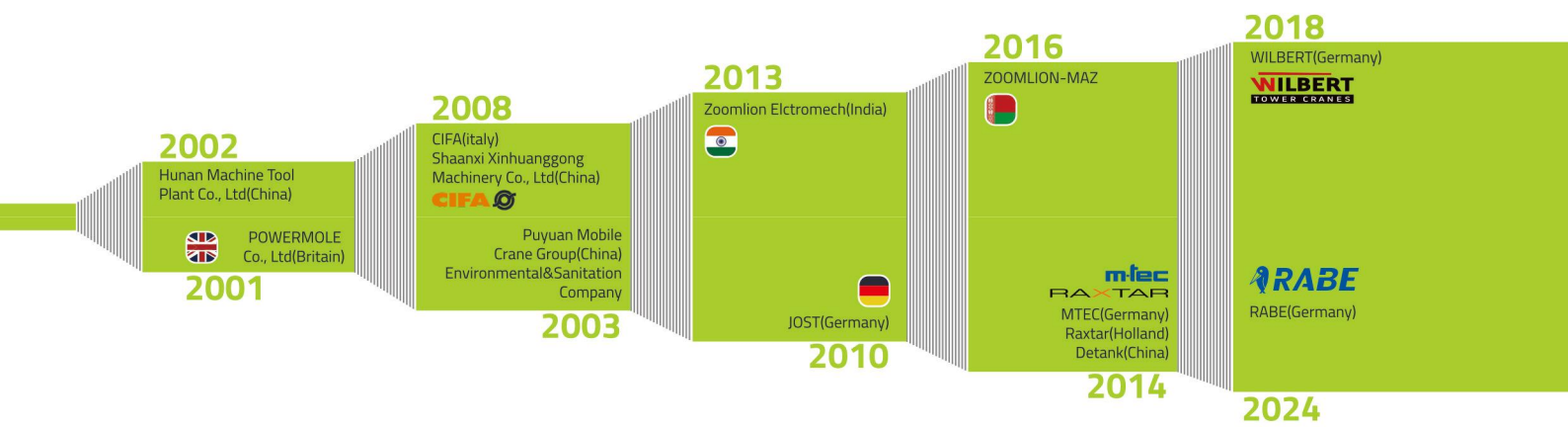


V2025.05

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ZOOMLION GLOBALIZATION



ZOOMLION AT A GLANCE

 Since 1956	 Founded in 1992	 Stock Exchange SZ/HK	 Sales Value \$4.18billion
 Patents 10000+	 Standard Maker	 Industrial Parks 22	 Employees 30000+



产品亮点 HIGHLIGHTS

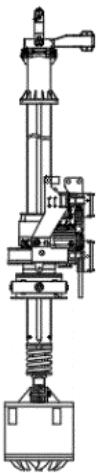
在众多可用的配件包中，我们提供：

Among the various accessory kits available, we offer:

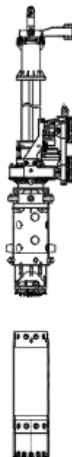
- **钻杆**：不同长度、不同直径的两种钻杆：摩阻杆、机锁杆；
- **Kelly bar**: Two types of drill rods with different lengths and diameters: friction rods and interlocking rods.
- **钻具**：不同直径的各种类型的多种钻具；
- **Drilling Tools**: Various types of drilling tools with different diameters.
- **套管**：动力头驱动器、套管、管靴等下护筒功能的所有部件；
- **Casings**: 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

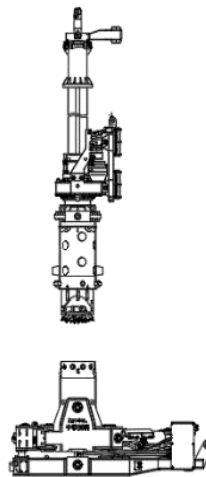
1.Kelly drilling
凯式钻进



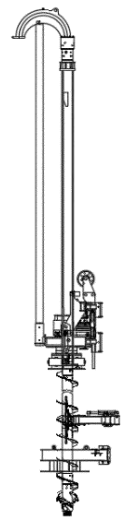
2.Cased Kelly drilling
护筒跟进



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



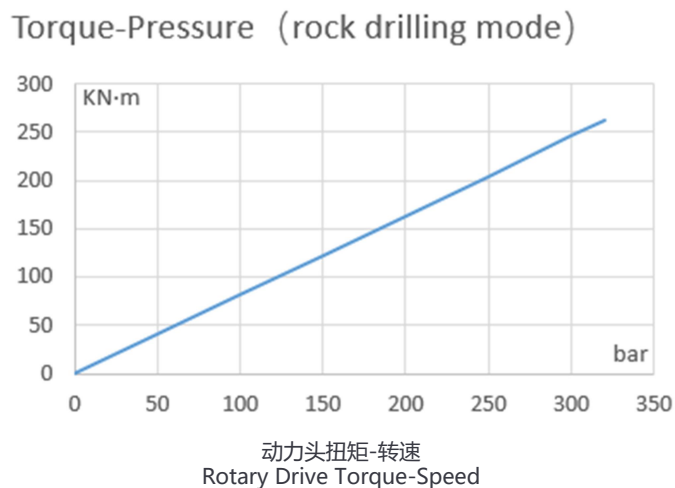
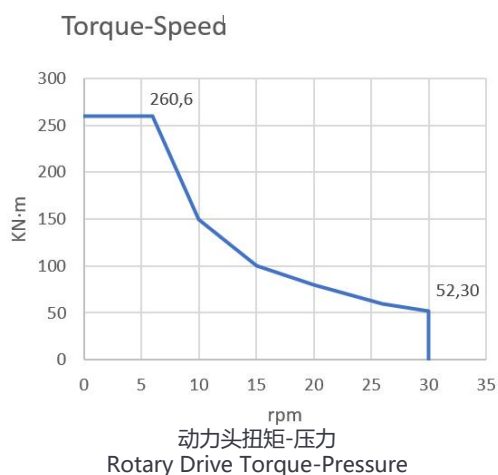
4.CFA drilling
长螺旋钻进



ZR255U 技术参数 Technical specifications

Rotary Drive		动力头
Torque(nominal) at 343 bar	扭矩 (343 bar)	260 kN·m
Speed of rotation	转速	6-30 rpm
Crowd system		加压系统
Crowd force push/pull(effective)	加压力/起拔力	225 / 320 kN
Speed (down/up)	速度 (下降/上升)	5.5±0.5 m/min
Fast speed (down/up)	快速模式 (下降/上升)	14±0.5 m/min
Main winch		主卷扬
Line pull	单绳拉力	240 kN
Rope diameter	钢丝绳直径	32 mm
Line speed (max.)	最大提升速度	70 m/min
Auxiliary winch		副卷扬
Line pull	单绳拉力	90 kN
Rope diameter	钢丝绳直径	22 mm
Line speed (max.)	最大提升速度	80 m/min
Mast inclination		钻桅倾斜度
Backward/forward/lateral	向后/向前/左右	90 / 5 / ±4 °

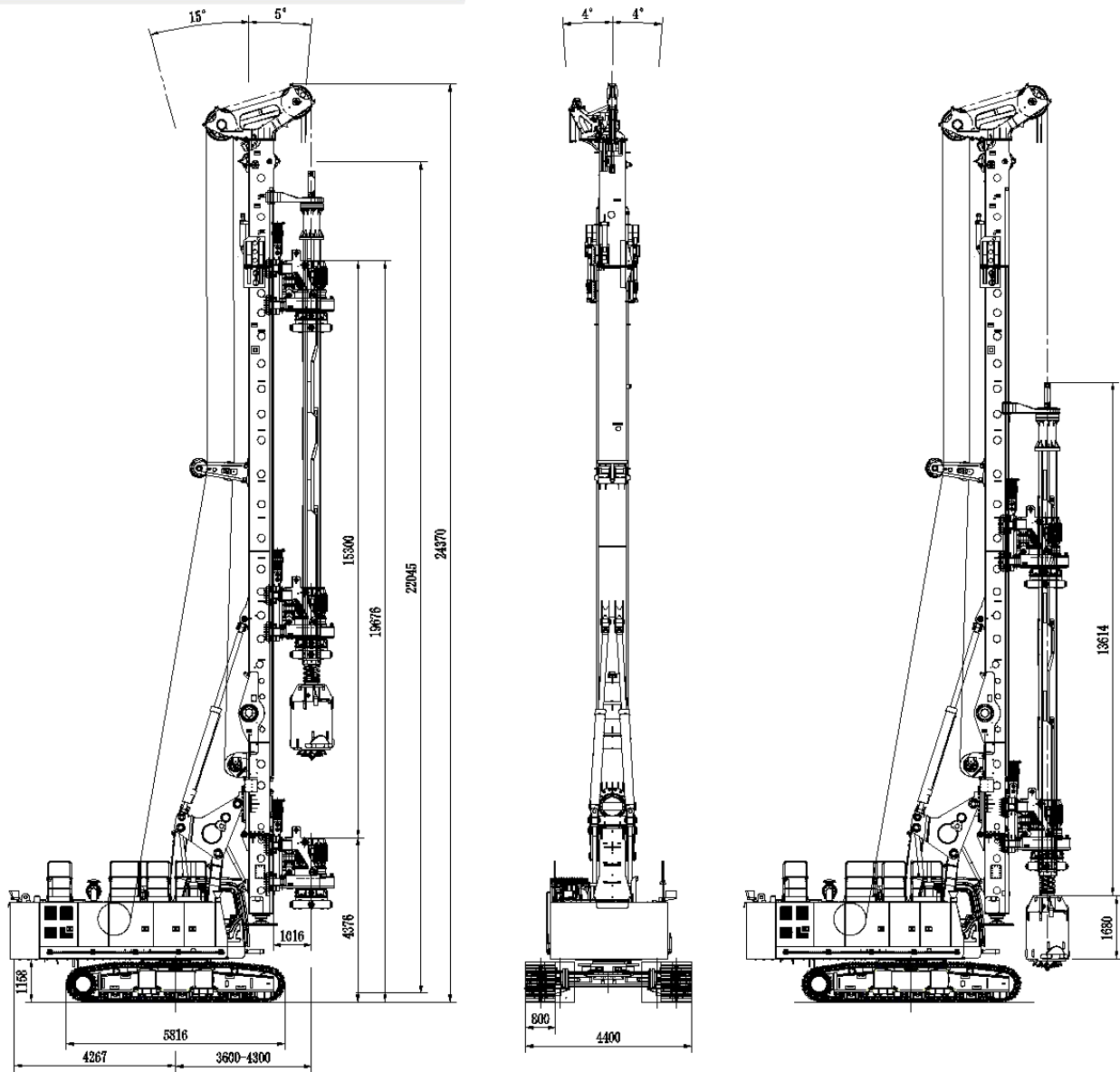
Rotary Drive-Torque Diagram



ZR255U 技术参数 Technical specifications

Engine 发动机	
Type	型号 L9
Rated output	额定功率 272kW
Exhaust Emission Standard	发动机废气排放标准 Euro V
Exhaust tank capacity	柴油箱容量 642 L
Sound pressure level in cabin EN 16228	驾驶室内噪音 77dB(A)
Sound power level 2000/14/EC, EN 16228	全功率下噪音 109dB(A)
Hydraulic system 液压系统	
Hydraulic pressure	液压系统压力 343bar
Flow rates	流量 740 L/min
Hydraulic oil tank capacity	液压油箱容量 549 L
Undercarriage 下车（履带可伸缩式结构）	
Track width(retracted/extended)	履带宽度（收缩/伸展） 3380/4400mm
Overall width of crawlers (retracted/extended)	总宽度（收缩/伸展） 3870/4400mm
Overall length of crawlers	履带总长度 5814mm
Rotary range of motion	回转半径 4371mm
Traction force	牵引力 423KN

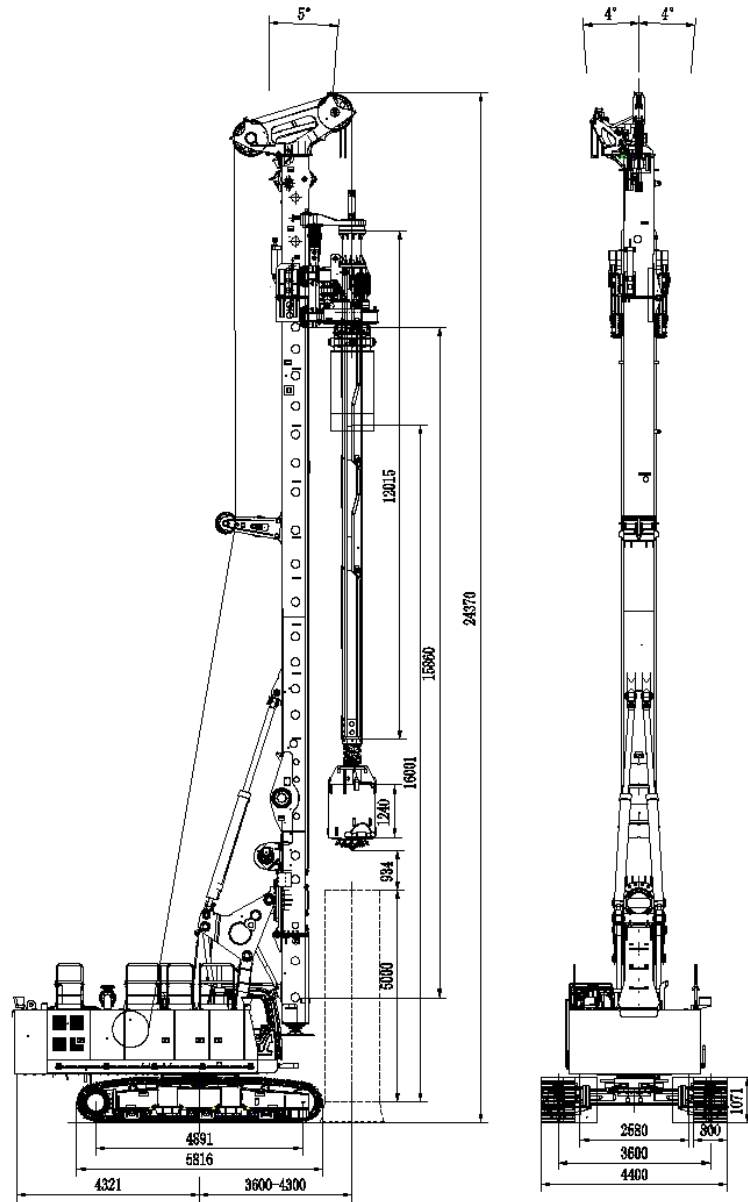
ZR255U凯氏钻进工法 Kelly Drilling Method



Max. drilling diameter	最大钻孔直径	2,000mm
Max. drilling depth	最大钻孔深度(机锁/摩阻)	56m/70m
Crowd force / Line pull	加压力/起拔力	225kN/320kN
Stroke	加压行程	15.8m/17.3m

钻杆类型		运输长度A	钻杆总量
Kelly bar		Transport length A	Kelly bar weight
4-part interlock bar	J440-4x12	13550mm/533in	8900kg/19621 lb
	J440-4x13.5	15050mm/592in	9700kg/21385 lb
	J440-4x15.5	17050mm/671in	10900kg/24030 lb
5-part friction bar	M440-5x13.5	15120mm/595in	9400kg/20723 lb
	M440-5x15.5	17120mm/674	11600kg/25574 lb

ZR255U护筒跟进工法 Casing Kelly Drilling Method



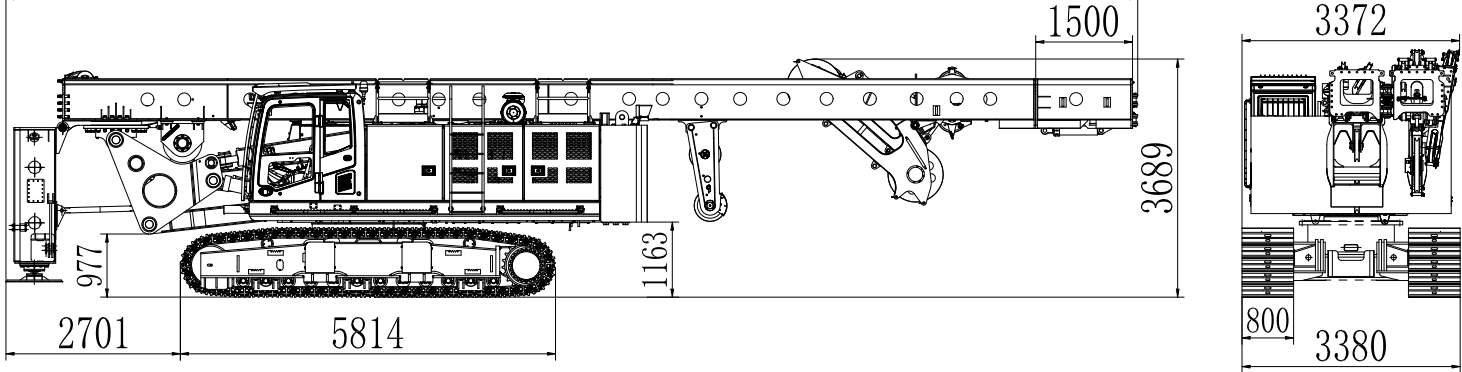
护筒跟进 Cased Kelly Drilling

Kelly bar	Max.depth		Casing length with Casing adaptor		Casing length with Casing oscillator	
Ø440-4X9	29 m	95.1ft	7m	23.0ft	8m	26.2ft
Ø440-4X10	34 m	111..5ft	6m	19.7ft	7m	23.0ft
Ø440-4X11	38 m	122.4ft	5m	16.4ft	6m	19.7ft
Ø440-4X12	42 m	137.8ft	4m	13.1ft	5m	16.4ft
Ø440-4X13	46 m	150.9ft	3m	9.8ft	4m	13.1ft
Ø440-4X13.5	48 m	157ft	2.5m	8.2ft	3.5m	11.5ft
Ø440-4X14	50 m	164ft	2m	6.6ft	3m	9.8ft
Ø440-4X15	54 m	177ft	1m	3.3ft	2m	6.6ft

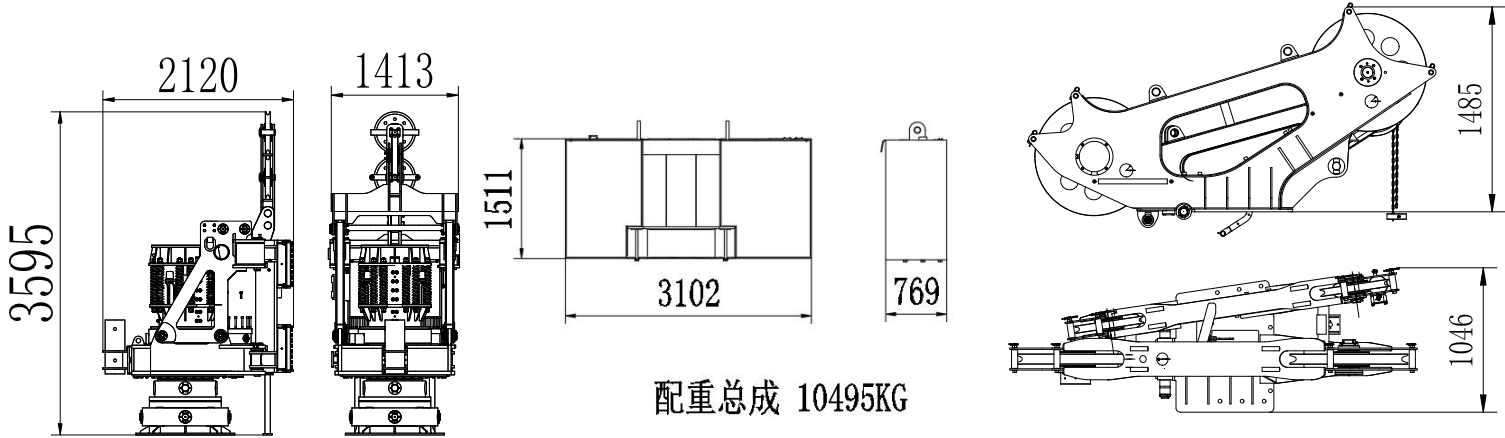
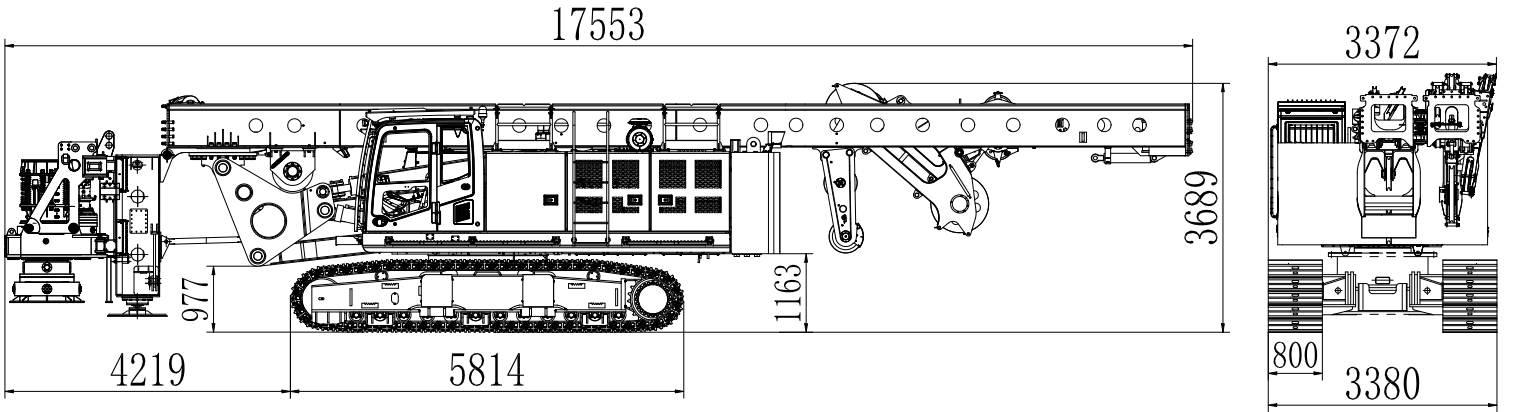
转场运输状态

Standard Transportation size

运输重量	Transport weight	64.7/65.4 t
运输长度	Transport length	16035/17535 mm
运输宽度*	Transport width	3380 mm
运输高度	Transport height	3,689 mm



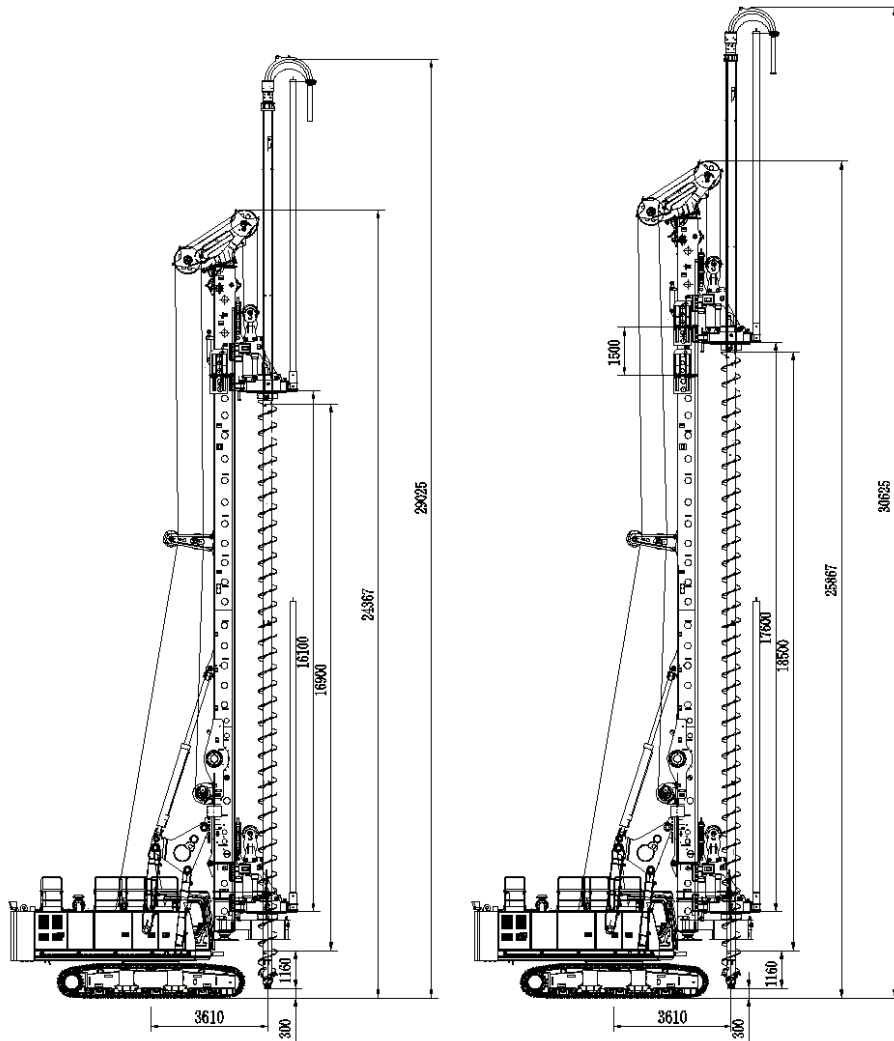
- * ➤ ZR255R旋挖钻机运输宽度是3,380 mm, The transportation width of ZR255R is 3380 mm;
➤ 当整机发运时, 不配标准节, 动力头拆除, 运输重量: 64.7 t, 运输长度16035mm; 装配标准节, 运输长度17535mm, 运输重量: 65.4 t, ;
➤ 当短途转场时, 不配标准节, 动力头不拆除, 运输重量: 71.5 t, 运输长度17553mm; 装配标准节, 运输长度190535mm, 运输重量: 72.2t.



动力头 6870KG

吊锚架总成 1402KG

ZR255U长螺旋钻进工法 CFA Drilling Method



CFA工法参数

钻孔	Pile	
最大钻孔直径	Max. drilling diameter	1,000 mm
最大钻孔深度	Max. drilling depth	24 / 25.5 m
动力头	Rotary drive	
额定输出扭矩	Rated output torque	260 kN·m
转速	Drilling speed	6-30 rpm
CFA卷扬	CFA winch	
拉力	Extraction force	800 kN
速度	Max.line speed	19 m/min
行程	Stroke	16.1 / 17.6 m
加压力	Crowd force	225 kN
整机	Overall machine	
工作高度	Overall height	30,625 mm
工作质量	Operating weight	88 t

CFA options 长螺旋选项

Max length of sleeve extension 主动钻杆长度	broach of auger 长螺旋钻头	length of auger 长螺旋钻杆长度	diameter of auger 长螺旋钻杆直径	Guide frame 导向架	Earth scraper 刮土器	Grouting elbow 注浆弯头	Faste ner 紧固件
9m	Single-start & single-screw/ 单头单锥螺长螺旋钻头/ Double-start & single-screw 双头双螺长螺旋钻头	4m					
		4.5m	Ø600	可调式			
		6m	Ø700	导向架			
		8m	Ø800	Ø600			
			Ø900	-			
			Ø1000	Ø1000	CFA-GTQ-10X2	ZJWT-II-ZR255R	XZ

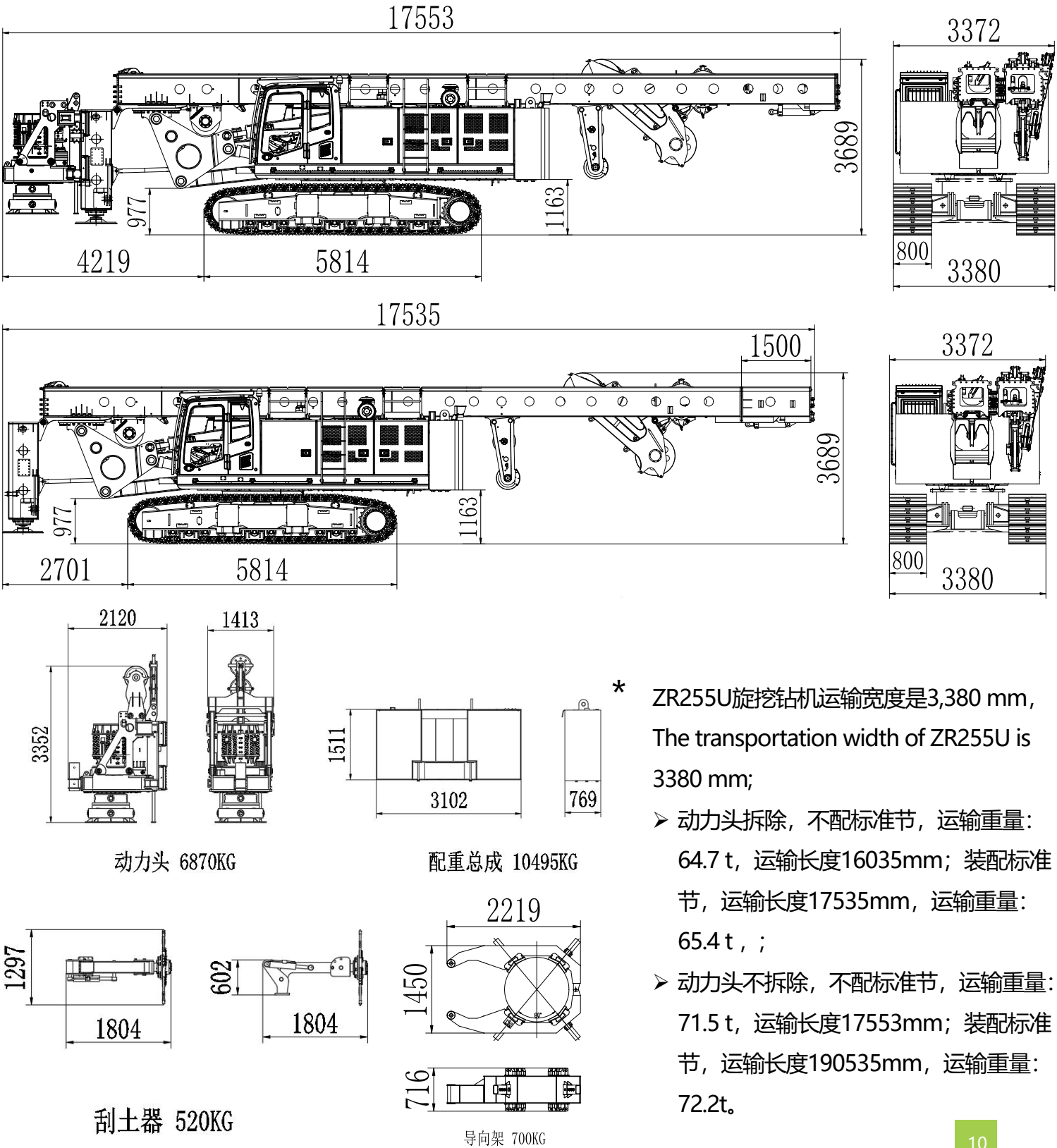
注：600mm以下钻杆钻具和导向架由用户自行配备。

ZR255U长螺旋运输 CFA transportation

CFA转场运输状态

CFA Standard Transportation size

运输重量	Transport weight	64.7/65.4t
运输长度	Transport length	16,035 / 17,535 mm
运输宽度*	Transport width	3,380 mm
运输高度	Transport height	3,689 mm



Function	功能	Kelly
Power head integrated connecting disc	动力头集成连接盘	●
Rock entry model	入岩模式	●
The power head throws dirt at high speed	动力头高速甩土	○
Crowd system fast speed	加压系统快速加压	●
Main winch floating function	主卷浮动功能	●
Concentrated lubrication	集中润滑	●
Cab walking board	驾驶室走台板	●
All-round walking board	全方位走台板	●
Flip the dirt with one click	一键甩土	●
One click sweep hole	一键扫孔	●
Seat broadening	座椅加宽	●
Cab fan	驾驶室风扇	●
Camera of anchor frame	吊锚架摄像头	●
Camera of auxiliary winch	副卷扬摄像头	●

● 标配 ○ 选配 △ 不适用

● Standard ○ Optional △ Not Applicable

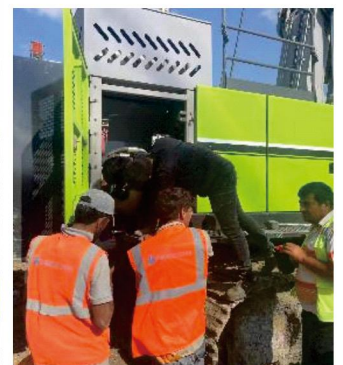
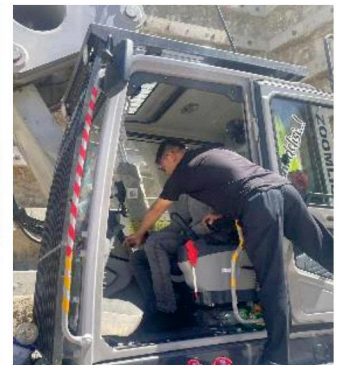
GLOBAL SERVICE CASE SET



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我们能为您
We Offer Everything Best
for You
提供什么服务
Providing High Quality
Services

我们拥有丰富
We Are Experienced
全球施工经验
Global Construction
Practitioners



MORE THAN YOU CARE

就像我们对产品的处理一样，
Just as We Handle Our Products,
我们也要求我们的服务质量高,可靠性高，
We Also Require High Quality and Reliability in Our Services,
毕竟,维护对效率至关重要。
After All, Maintenance Is Crucial to Efficiency.

我们的服务承诺包括 Our Service Commitments Include

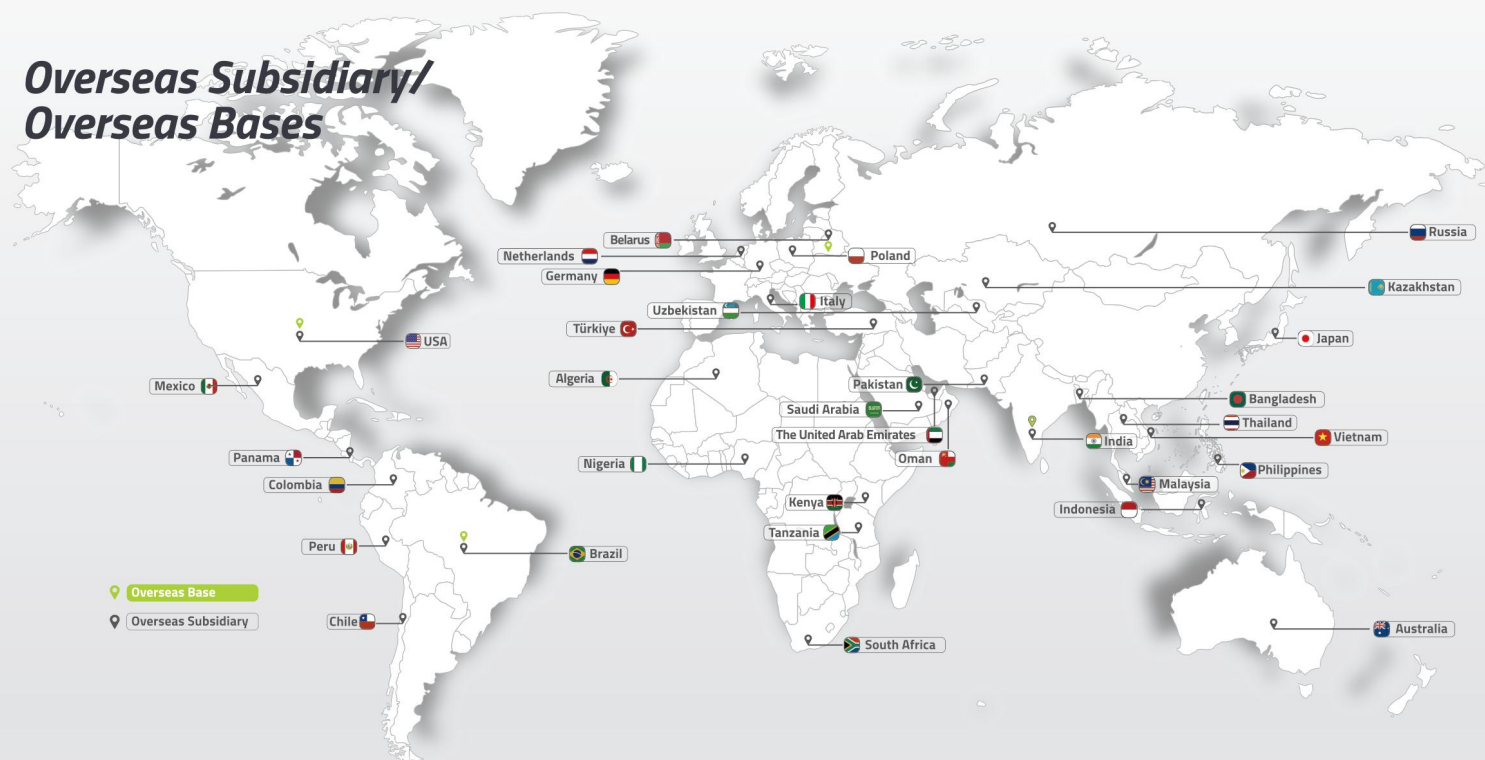
- 一个专业的团队
- A Professional Team
- 支持我们的客户和他们的产品
- Supporting Our Customers and Their Products
- 支持机器组装、调试、交付
- Supporting Machine Assembly, Commissioning, and Delivery
- 可进行机器的检查和操作员培训
- Machine Inspection and Operator Training
- 每2个月进行一次日常服务检查
- Routine Service Inspections Every 2 Months
- 每年进行全面服务检查
- Comprehensive Service Inspections Annually
- ZOOMLINK™ App服务支持
- “ZOOMLINK” App Service Support
- 通过我们位于本地区的仓库提供专用部件
- Providing Dedicated Parts Through Our Local Warehouses



灯塔工厂 Lighthouse Factory

- 具备先进的自动化、人机合作、人工智能和IoT技术，
- Equipped with Advanced Automation, Human-Machine Collaboration, Artificial Intelligence, and IoT Technologies,
- 这让我们可以交付客户一种可靠、高效的机器。
- This Allows Us to Deliver Reliable and Efficient Machines to Our Customers.

Overseas Subsidiary/ Overseas Bases



Five Pillar Business



Construction Machinery

ZOOMLION CIFA mtec WILBERT



Agriculture Industry

ZOOMLION RABE



Neo Material

ZOOMLION

• Zoomlion Neo Material Technology Co., Ltd. provides total dry mortar solutions to customers all over the world.



Zvalley

ZOOMLION

• Bring Internet of Things technology into full play for industry.



Financial Service

ZOOMLION CAPITAL FINANCIAL SERVICES

• Zoomlion Capital presence in Italy, USA, Russia, Australia, South Africa, etc.

ZOOMLION

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