

ZOOMLION ROTARY DRILLING RIG ZR255R



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Add: Zoomlion Industrial Binfen Road Songjiang District Shanghai China.

V2024.04

*Note: Specifications are subject to change without prior notice in accordance with our continuous technical innovations.(V24-04)

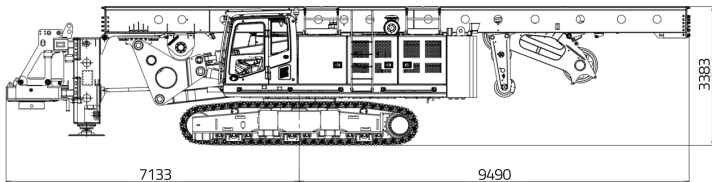
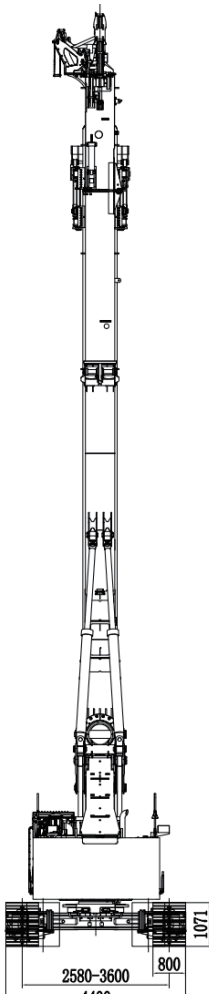
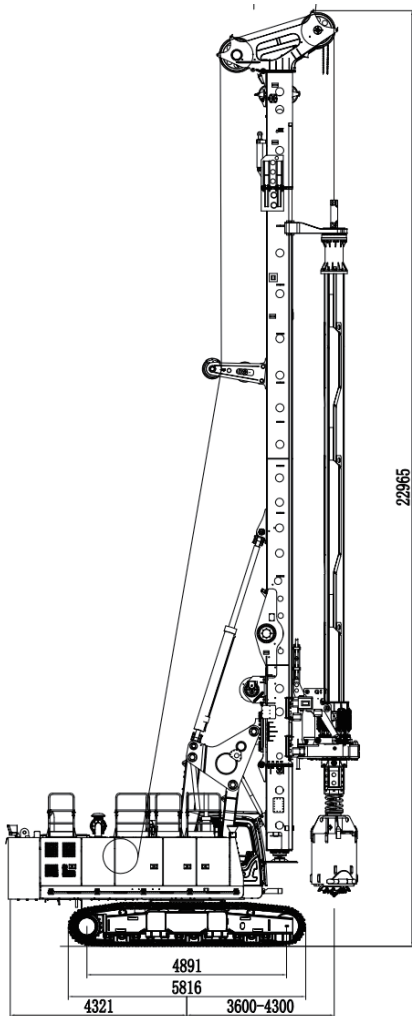
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ZR255R Rotary Drilling Rig

- The crowd system is **winch-based**, with a maximum crowd stroke of 15000mm, allowing for longer casing lengths per single operation.
- Equipped with **CFA** functionality, suitable for soft soil layers, offering fast drilling efficiency and easy concrete injection.
- The rear main winch with single-layer-rope drum and two gear box mechanism, which **extends service life** of the steel wire rope significantly;
- High construction **efficiency** thanks to big flow main pump, multi-gear rotary drive, equipped with a main winch and crowd winch coordinated lifting system, suitable for CFA method for rod lifting;
- More **stable** structure and stronger bearing capacity thanks to the 5th generation rotary drive, large supporting angle of the mast cylinder, lower center of gravity, and reinforced chassis;
- One key for **folding cathead**, fixed mast support. Equipment can be transferred easily and quickly;
- New generation cab with better vision, more comfortable operation, new electrical control panel.360 degree full view monitoring;
- Can complete casing installation below 20 meters in conjunction with the casing oscillator, with **a one-button oil supply function**.
- Capable of independently **heating engine diesel and coolant**, ensuring normal operation under low-temperature and freezing conditions.

Major parameters	Units	Values	Note
Drilling			
Max. Drilling diameter	mm	2000	
Max. Drilling depth	m	70/56	
Rotary drive			
Max. Output torque	kN.m	260	
Rotary speed range	rpm	6~26	
Crowd system			
Crowd method		Winch	
Crowd force push	kN	230	
Crowd force pull	kN	260	
Max. Stroke crowd	mm	15000	
Main winch			
Max. Line pull	kN	240	
Max. Speed of line	m/min	70	
Rope diameter	mm	32	
Aux.winch			
Max.Line pull	kN	90	
Max.Speed of line	m/min	80	
Rope diameter	mm	22	
Inclination angle of mast			
Forward/Backward	°	5/90	
Left/Right	°	4	
Engine			
Model		Cummins QSL9	
Rated power	kW	242	
Emission standard		Stage III	
Undercarriage			
Distance of tracks	mm	3380~4400	
Width of track shoe	mm	800	
Slewing radius	mm	4321	
Overall main machine			
Operation weight	t	87	
Max.Traction force	kN	423	
Max.Travelling speed	km/h	2.2	
Overall height	m	23.2	
Transportation height	mm	3383	

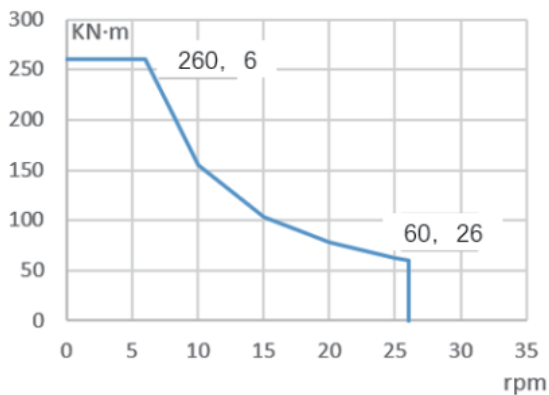
Kelly Bar Type		
Type	Depth(m)	Note
FrictionΦ 440-5×15.5m	70	
FrictionΦ 440-5×13.5m	60	
InterlockingΦ 440-4×15.5m	56	Standard
InterlockingΦ 440-4×13.5m	48	



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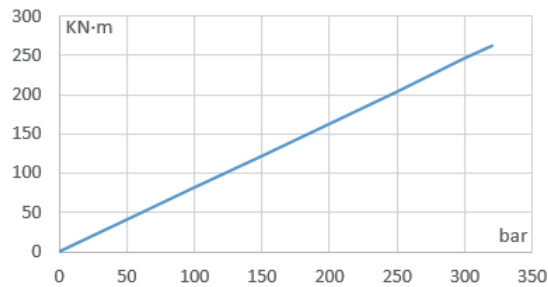
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Torque-Speed (standard mode)

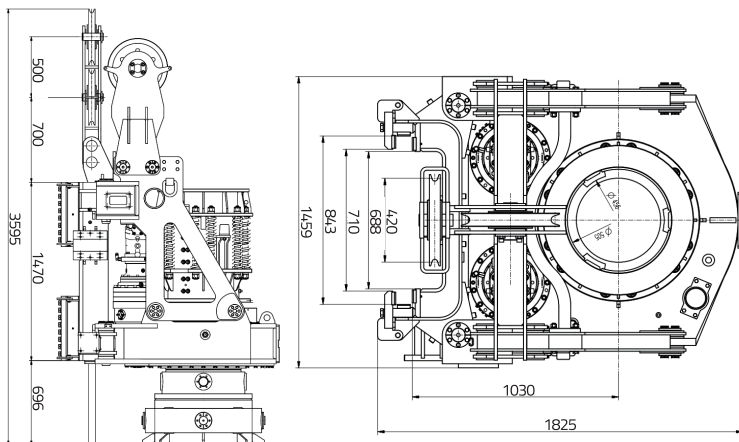


Rotary drive speed-torque diagram

Torque-Pressure (rock drilling mode)



Main pump pressure-torque diagram



- 1 Continuous Flight Auger
- 2 CFA inner guide frame
- 3 CFA Kelly bar
- 4 Scrapers
- 5 Active Kelly bar
- 6 Mud pipe
- 7 Grouting elbow

Major Parameters Of CFA			
Major parameters	Units	Values	Note
Max. Drilling diameter	mm	1000	
Max. Drilling depth	m	23/25.5	standard / with extension
Max. Line pull	kN	740	
Max. Speed of line	m/min	35	
Max Stroke crowd	mm	17500	with extension

