

# ZOOMLION ROTARY DRILLING RIG

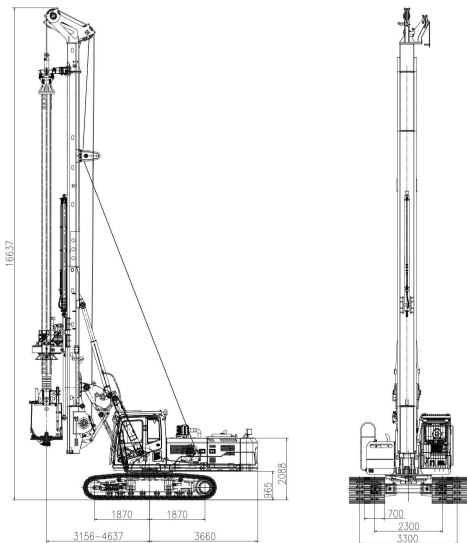
## ZR140



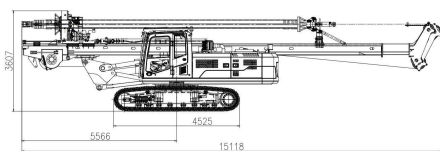
**ZOOMLION**

# ZR140 Rotary Drilling Rig

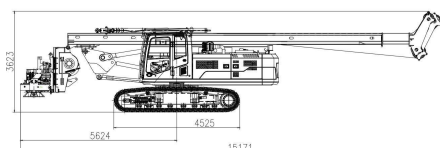
1. The whole machine can be transported with Kelly bar to realize quick transfer between operation and transportation.
2. Cummins engine with reliable performance and strong output power.
3. High construction efficiency, thanks to adoption of large displacement main pump and optimizing power system.
4. Less fuel consumption, thanks to adoption of a new generation of electronic control platform and proportional control hydraulic system.
5. The auxiliary winch can handle Dia. 0.8m steel cage (with a Kelly bar).
6. Automatic multi-self-checking, safety and performance monitoring.
7. Option: Spin-of.



\*Note: 3156-3500mm for drilling



Transport with 10m Kelly bar



Main Specification	Unit	Value	Note
<b>Drilling</b>			
Max. drilling diameter	mm	1300	
Max. drilling depth	m	44/35	friction/inter-lock
		35/28	optional
<b>Rotary drive</b>			
Max. output torque	kN.m	140	
Rotary speed range	rpm	6 ~ 33	
<b>Crowd system</b>			
Crowd method		Column	
Crowd force push	kN	120	
Crowd force pull	kN	130	
Max. stroke of crowd	mm	3500	
<b>Main winch</b>			
Drum structure type		Double layers	
Max. line pull	kN	140	
Max. speed of line	m/min	80	
Diameter of wire rope	mm	22	
<b>Aux. winch</b>			
Max. line pull	kN	50	
Max. speed of line	m/min	70	
Diameter of wire rope	mm	18	
<b>Inclination angle of mast</b>			
Forward/backward	°	5/90	
Left/right	°	±5	
<b>Engine</b>			
Model		Cummins QSB5.9-C160	
Rated power of engine	kW	119	
Emission standard		Stage III	
Displacement of engine	L	5.9	
<b>Undercarriage</b>			
Distance of tracks	mm	3000~4000	(min.~max.)
Width of track shoe	mm	700	
Slewing radius (rear)	mm	3660	
<b>Overall main machine</b>			
Operation weight	t	40	
Max. traction force	kN	250	
Max. travelling speed	km/h	2.2	
Overall height	m	16.7/(14.7)	
Transport with Kelly bar		Yes	
Transport height	mm	3587	with Kelly bar
<b>Kelly bar types available</b>			
Types		Drilling depth (m)	Note
Friction Φ 355 - 5× 10m		44	
Inter-locking Φ 355 - 4× 10m		35	
Friction Φ 355 - 5× 8m		35	optional
Inter-locking Φ 355 - 4× 8m		28	optional



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