

# ZOOMLION ROTARY DRILLING RIG ZR140

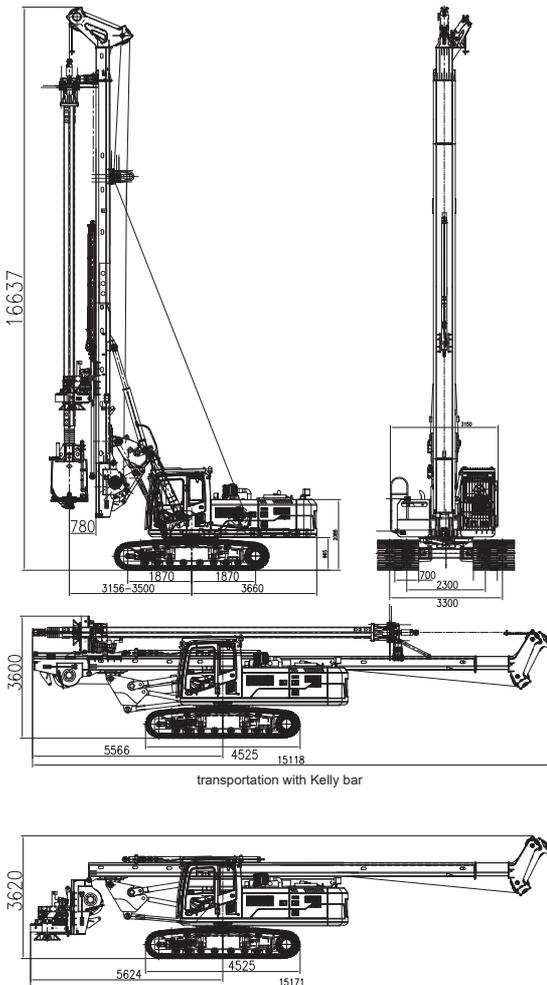


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V 2021.11

# ZR140 Rotary Drilling Rig

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



Main Specification	Unit	Value	Note
<b>Drilling</b>			
Max.drilling diameter	mm	1300	
Max.drilling depth	m	44/35	friction/inter-lock
<b>Rotary drive</b>			
Max. output torque	kN·m	140	
Rotary speed range	rpm	6~33	
<b>Crowd system</b>			
Crowd method		Cylinder	
Crowd force push	kN	130	
Crowd force pull	kN	160	
Max. stroke crowd	mm	3500	
<b>Main winch</b>			
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	80	
Max. speed of line	m/min	70	
Diameter of wire rope	mm	22	
<b>Inclination angle of mast</b>			
Forward/backward	°	5/90	
Left/right	°	±5	
<b>Engine</b>			
Model		Cummins QSB5.9-C16	
Rate 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	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
*Transport with 10m Kelly bar			

Kelly bar Types	Drilling depth (m)	Notes
Friction Φ355 - 5x10m	44	
Inter-locking Φ355 - 4x10m	35	
Friction Φ355 - 5x8m	35	
Inter-locking Φ355 - 4x8m	28	

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\*Note: Specifications are subject to change without prior notice in accordance with our continuous technical innovations.(V21-11)

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