



SANY

Quality Changes the World



SANY ROTARY DRILLING RIG SR280R

SR280R ROTARY DRILLING RIG

◆ Integrated parameters

Main performances	Unit	Parameters
Overall height (CATchassis/SY chassis)	mm	22,660/22,700
Operating weight (CATchassis/SY chassis)	t	80/82
Max. pile diameter	mm	2,200
Max. pile depth(friction Kelly/inter-locking Kelly)	m	83/54
Rotary Drive		
Max. output torque	kN.m	280
Speed of rotation	rpm	9~24
Crowd system		
Crowd force	kN	220
Line pull	kN	220
Stroke	mm	7,500
Main winch		
Line pull(1st layer)	kN	290
Rope diameter	mm	32
Max. line speed	m/min	48
Auxiliary winch		
Line pull(1st layer)	kN	110
Rope diameter	mm	20
Max. line speed	m/min	70
Mast inclination		
Forward	°	5
Lateral	°	±5

◆ Main parameters

Chassis model	CAT 336D	SY460R
Chassis length	7,715mm	7,050mm
Extended width	4,300mm	4,490mm
Track shoe width	800mm	800mm
Swing radius (backside)	4,177mm	4,105mm
Transport width	3,000mm	3,190mm
Transport height	3,557mm	3,561mm
Base engine	CAT C9 HHP	Mitsubishi 6D24-TLC1B
Engine power	261kW@1800rpm	250kW@2000rpm
Fuel	Diesel oil (JIS Type 2)	Diesel oil (JIS Type 2)
Emission regulation	EU stage III/EPA Tier 3	EU stage II/EPA Tier 2
No. of cylinder-bore x stroke	6-112×149	6-130×150
Engine displacement	8.8 L	11.945 L

◆ Configuration table

Mast verticality measuring function	●	Aux. winch protection function	●
Slew angle measuring function	●	Mast sideward limiters	●
Drilling depth real time measuring function	●	Slew siren	●
Main rope pull force measuring function	●	Winch crowding system	●
Oil pressure measuring function	●	Crowding protection device	●
Engine diagnose system	●	Rotary drive torque output measuring function	●
PLC control module	●	Main winch lighting system	●
Auto/manual mast verticality adjusting function	●	Pile lighting system	●
Main winch floating control	●	Air-conditioner	●
Rotary drive control system	●	Radio	●
Emergency stop switch	●		
Auto idle model	●	Fault self-diagnosis function	○
All directional Gradienter	●	Anemometer	○
Cab collision protection	●	Caution light	○
Electrical protection system	●	Casing driver	○
Main winch protection function	●	Startup in low temperature	○
Display monitor	●	Oscillator attachment	○

◆ Type of Kelly bar

Friction Kelly	Weight	Depth		Locking Kelly	Weight	Depth	
Φ508×6×15	14.2t	83m	○	Φ508×4×15	14t	54m	●
Φ508×6×14.5	14.2t	80m	○	Φ508×4×14	13.2t	50m	○
Φ508×6×14	13.4t	77m	○	Φ508×4×13	12.3t	46m	○
				Φ508×4×12	11.4t	42m	○
				Φ508×4×11	10.6t	38m	○
				Φ508×3×15	13.6t	41m	○

● Standard ○ Optional



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