



SANY
我们的深度决定世界的高度
Our drilling depth determines the height of the world



H10

SR485R 2020 Rotary Drilling Rig

**Large hole & deep pile
Extra-long bridge**



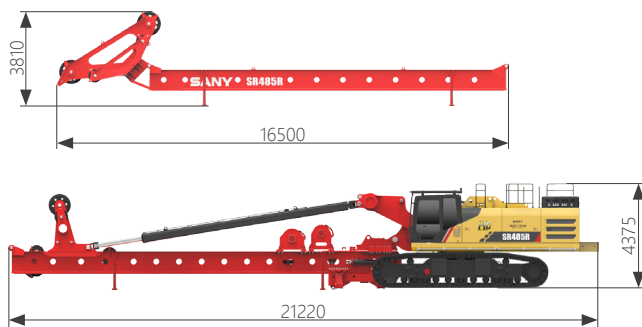
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- Max. drilling diameter 3.2m
- Max. drilling depth 120/100m
- Rated output torque 485kN·m
- Engine power 403kW/1800rpm

Main performances	Unit	Parameter	Remark
Pile			
Max. drilling diameter	mm	3200	
Max. drilling depth	m	120/100	①
Rotary drive			
Rated output torque	kN · m	485	
Rotation Speed	rpm	5~18	
Crowd system			
Crowd force	kN	475	
Line pull	kN	475	
Stroke	mm	10000	
Main winch			
Lifting capacity	kN	600	
Wire rope diameter	mm	46	
Max. line speed	m/min	50	
Auxiliary winch			
Lifting capacity	kN	90	
Wire rope diameter	mm	20	
Max. line speed	m/min	70	
Mast inclination			
Forward/backward	°	90/15	
Lateral	°	±3	
Main Chassis			
Base engine	/	CAT C-15	
Engine power	kW/rpm	403/1800	
Emission regulation	/	COM III	
Engine displacement	L	15.2	
Chassis length	mm	8610	
Extension width	mm	4900	
Track shoe width	mm	900	
Swing radius	mm	5350	
Overall machine			
Overall height	mm	32320	
Operating weight	t	180	
Transport width	mm	3600	
Transport height	mm	3645	

①: friction kelly depth / interlocking kelly depth

Kelly bar	Weight(Kg)	Depth(m)	Option
Inter-locking kelly	Φ630 × 4 × 21 25600	76	Standard
	Φ630 × 4 × 22 28800	80	
	Φ630 × 5 × 22 27400	100	
Friction kelly	Φ630 × 6 × 21 27400	114	
	Φ630 × 6 × 22 28400	120	



Rock drilling for 100 meters: Five layers of the 6th generation interlocking bar can achieve the requirements of 3.2m of pile diameter and 100m of pile depth simultaneously; heavy load unlimited torsion, easy to meet the diameter of 2.5~3.2m and depth above 80~100m hard rock construction requirements.

Strong power: CAT high-power engine is perfectly matched with the main pump; provide continuous power output to meet the requirement of variable load of large pile diameter. Adopt priority control technology, compound movement is more fluent. Independent double oil radiator, automatic temperature control, efficient heat dissipation.

High structural reliability: The core components are imported well-known brands, the reducer and other reserve factors are large, the whole machine is compact, stable and reliable. Single layer large diameter spiral drum is used for main winch, and the service life of wire rope is extended by more than 30%.

Innovative Technology:

1) HD touch screen, 3ms refresh frequency, no visual delay.
2) The display function of the locking device can accurately display and guide the locking and unlocking operation of the Kelly bar locking device, which reduces the wear and eliminates the accident. SANY owns the patent of this technology.

3) Roller bit auto drilling function: Set the speed of rotary drive to realize automatic drilling.

4) Wire rope pre-tensioning technology: The pre-tensioning force is always applied on the main rope to avoid random rope and twisting.

Convenient maintenance: Standard automatic centralized lubrication system, convenient maintenance; rotary drive and main winch use quick change joint; the mast cylinder can be operated by remote control, the door frame assembly guide can be automatically positioned; the combined counterweight can reduce the dismantling time and improve the transition efficiency.

