



# SR185

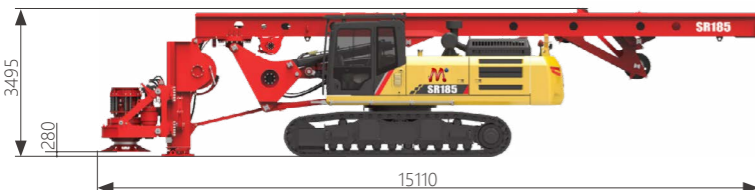
# SANY®

Main performances	Unit	Parameter	Remark
<b>Pile</b>			
Max. drilling diameter	mm	1600	①
Max. drilling depth	m	59/47	②
<b>Rotary drive</b>			
Rated output torque	kN·m	190	
Rotation speed	rpm	5-34	
<b>Crowd system</b>			
Crowd force	kN	180	
Line pull	kN	180	
Stroke	mm	14300	
<b>Main winch</b>			
Lifting capacity	kN	185	
Wire rope diameter	mm	28	
Max. line speed	m/min	75	
<b>Auxiliary winch</b>			
Lifting capacity	kN	80	
Wire rope diameter	mm	20	
Max. line speed	m/min	75	
<b>Mast inclination</b>			
Forward/backward	°	4/90	
Lateral	°	±3	
<b>Main Chassis</b>			
Base engine	/	6HK1	ISUZU
Engine power	kW/rpm	212/2000	
Exhaust emission	/	China Stage III	
Engine displacement	L	7.79	
Width retracted/extended	mm	3150-4150	
Track shoe width	mm	700	
Swing radius	mm	3805	
<b>Overall machine</b>			
Overall height	mm	21040	
Operating weight	t	63	
Transport width	mm	3215	
Transport height	mm	3495	
Transport length	mm	15125	

①: Uncased/cased  
 ②: Friction kelly / inter-locking kelly

Kelly bar	Weight(kg)	Depth(m)	Option
Inter-locking kelly Φ406×4×13	8200	47	
Friction kelly Φ406×5×13	8100	59	Standard

Note: Drilling depth with bucket 1000 mm long



## WORKING EFFICIENTLY, SWITCH BETWEEN KELLY AND CFA CONVENIENTLY

SR185 is a multi-function rotary drilling rig that integrates rotary drilling, CFA and long auger construction methods. It is suitable for small and medium-sized pile foundation fields such as high-rise buildings and municipal construction. It is stable, efficient and reliable for hard soil layers, pebbles and fully weathered formations.

**Quick switch:** it is convenient to switch from rotary drilling to CFA, only with assembly of rotary drive transition sleeve, pulley frame limit seat and long auger drilling tools, etc.; the control program and display interface can also be quickly switched.

**Large lifting force:** it can meet the construction needs of 21-meter deep-hole CFA construction, the main winch and crowd winch actions coordinate perfectly to ensure strong lifting force.

**Flexible and efficient:** the whole machine is flexible, the rotation is sensitive; the main winch line speed is fast under rotary drilling conditions, the verticality of hole is high, and the construction is efficient.

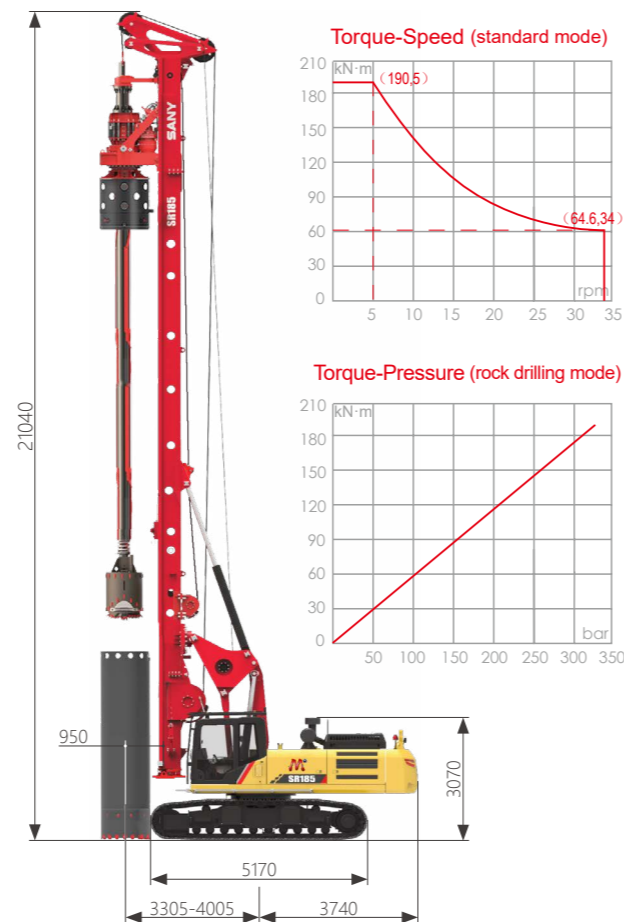
**Economic and energy saving:** adopt large-displacement electric injection engine with strong power and power optimization control technology to adjust power distribution in real time. The fuel efficiency is higher and more energy-saving.

**High reliability:** the mast is torsion-resistant and fatigue-resistant; the drill pipe with high-strength and wear-resistant provides stronger reliability.

**Intelligent control:** high-definition touch display, fast response speed, no delay in animation, friendly user interface, more convenient operation.

**Full crowd stroke:** The main engine has an ultra-long crowd stroke of 14.3 meters, which can be used for multi-section combination casing whole formation drilling construction and soft formation single-section ultra-long casing construction.

**Convenient maintenance:** the cabin maintenance space is large, and the maintenance is more convenient; a hose is connected to the drain hole of reducer, which is convenient to drain oil; the automatic lubrication system saves time and effort.



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CFA mode	Unit	Parameter	Remark
<b>Pile</b>			
Max. drilling diameter	mm	900	
Max. drilling depth	m	21	
<b>Rotary drive</b>			
Rated output torque	kN·m	190	
Rotation speed	rpm	5~34	
<b>CFA Max. Lifting</b>			
Main and crowd winch	kN	480	
<b>Overall machine</b>			
Overall height	mm	27810	①
Operating weight	t	65	

①: With pipe fittings

Auger	Weight(kg)	Depth(m)	Option
Φ600	5870	21	
Φ800	6590	21	
Φ900	7230	21	

**Fast switching:** CFA mode or long casing construction mode can be quickly switched by replacing and adding components (such as soil remover, etc.).

**CFA mode:** meet the construction requirements of maximum 0.9m pile diameter and 18-21m pile depth, with superior operation performance and strong construction capacity.

**Combined lifting:** equipped with auxiliary lifting system of pressurized winch, the main winch and pressurized winch work together, and the maximum lifting force can reach 480kN.

Kelly bar	Weight(kg)	Depth(m)	Casing length(mm)
Φ406×4×10	6400	30.7	6000 ②
Inter-locking kelly Φ406×4×11	7000	34.7	5000
Φ406×4×12	7600	38.7	4000
Φ406×4×13	8200	42.7	3000

②: Without drill bucket  
 With Casing Max. drilling diameter is 1.2m

