



SR400M

SANY

Rotary Drilling Rig	Metric	Imperial
Pile		
Max. drilling diameter	2500 mm	98 in
Max. drilling depth ①	106/69 m	347/226 ft
Rotary drive		
Rated output torque	400 kN·m	295025 lbf·ft
Rotation speed	7~26 rpm	7~26 rpm
Crowd system		
Crowd force	405 kN	91048 lbf
Line pull	405 kN	91048 lbf
Stroke	9000/19000 mm	354/748 in
Main winch		
Lifting capacity	400 kN	89924 lbf
Wire rope diameter	36 mm	1.42 in
Max. line speed	75 m/min	246 ft/min
Auxiliary winch		
Lifting capacity	105 kN	23605 lbf
Wire rope diameter	20 mm	0.79 in
Max. line speed	80 m/min	262 ft/min
Mast inclination		
Forward/backward	90/15 °	90/15 °
Lateral	±3 °	±3 °
Main chassis		
Engine model	Cummins X15	Cummins X15
Engine power ISO 3046-1	391 kW/1800 rpm	524 HP/1800 rpm
Emission regulation	EEC 97/68 EC	EPA /CARB
	Stage V/Tier4 final	
Fuel tank capacity	600 L	159 US gal
AD Blue tank capacity	45 L	12 US gal
Width retracted/extended	3600-5000 mm	142-197 in
Track shoe width	900 mm	35 in
Swing radius	4900 mm	193 in
Overall machine		
Overall height	27430 mm	1080 in
Operating weight ②	137000 kg	302033 lb
Transport width	3600 mm	142 in
Transport height	3380 mm	133 in
Transport Length	19570 mm	770 in

①: Friction kelly / inter-locking kelly
②: with standard kelly

Kelly bar		Weight	Depth	Option
Inter-locking kelly	Φ530×4×17	16100 kg 35494 lb	61 m 200 ft	Standard
	Φ530×4×18	16900 kg 37258 lb	65 m 213 ft	
	Φ530×4×19	17700 kg 39022 lb	69 m 226 ft	
	Φ530×6×17	17400 kg 38360 lb	94 m 308 ft	
Friction kelly	Φ530×6×18	18300 kg 40345 lb	100 m 328 ft	
	Φ530×6×19	19200 kg 42329 lb	106 m 348 ft	

Note: Drilling depth with bucket 1000 mm long

INTELLIGENT CONTROL, EFFICIENT ROCK DRILLING

SR400M is a medium and large-sized winch crowded rotary drilling rig, featured with great rock drilling adaptability and low vibration. It can meet the requirements of long casing construction, and has excellent performance in housing construction and bridges.

Strong adaptability: ultra-long stroke winch crowd, realizing a faster conversion to any construction modes, can be matched with torque amplifier and automatic casing driver for long casing construction.

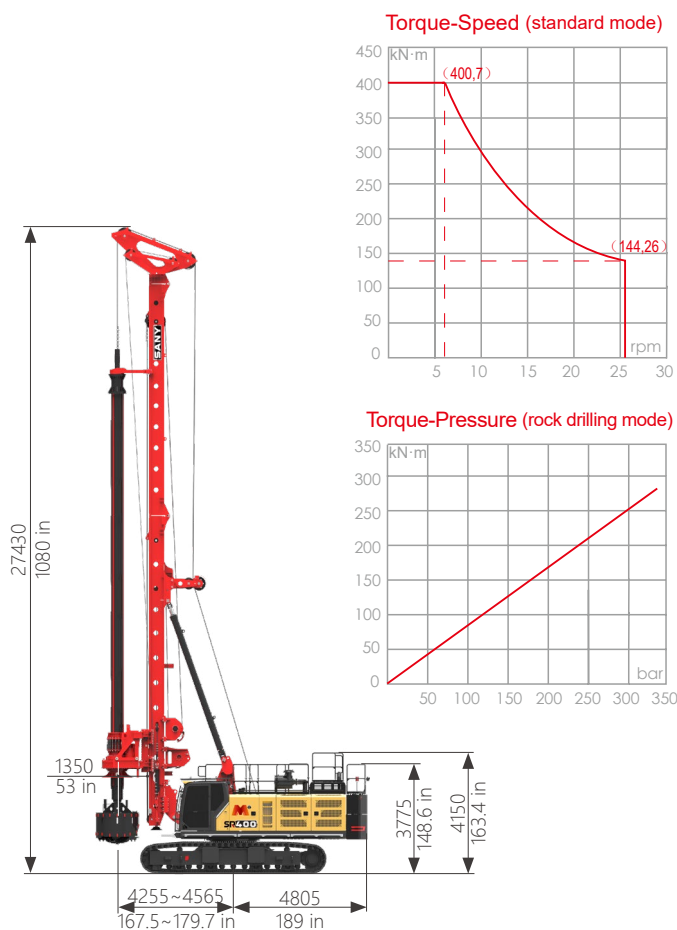
High efficiency: the rotary drive has sufficient torque and high crowd force, enables fast drilling and rock extraction; fast main winch line speed, and fast soil discharging speed; the engine with high continuous output power, and pump & valves ensures accurate control, fast and smooth compound action. The whole machine has high comprehensive construction efficiency to guarantee a quick return.

Superior quality: each key structural component undergoes the most stringent functional and performance tests, stable and reliable, long-lasting use without cracking faults; single-layer of main winch drum, ensures long service life of wire rope; no downtime, low cost.

Easy to operate: fully electric control system featured with fast response and precise control; configured with automation function, simplifying the operation and reducing the work intensity; a new generation of cabin, equipped with one-click startup button, electronic throttle knob, and convenient mechanical buttons, making it more convenient to operate.

Easy to maintain: stacked counterweight, convenient installation and removal, fast transferring; standard configuration of intelligent central lubrication system, time-saving and labor-saving; centralized filter arrangement, convenient replacement; left and right access ladders, full-sized catwalk, facilitating maintenance.

Convenient transportation: the center-mounted main winch can be transported in a single load with the base machine; foldable guardrail, and catwalk ensure the transport dimensions within limit; the cylinder-propelled pins on rotary drive and derricking mechanism facilitate removal and installation.



SR455-S

SANY

Rotary Drilling Rig	Metric	Imperial
Pile		
Max. drilling diameter	3000 mm	118 in
Max. drilling depth ①	110/90 m	361/295 ft
Rotary drive		
Rated output torque	455 kN·m	335591 lbf·ft
Rotation speed	5~25 rpm	5~27 rpm
Crowd system		
Crowd force	400 kN	89924 lbf
Line pull	400 kN	89924 lbf
Stroke	6000 mm	236 in
Main winch		
Lifting capacity	560 kN	125893 lbf
Wire rope diameter	40 mm	1.57 in
Max. line speed	63 m/min	207 ft/min
Auxiliary winch		
Lifting capacity	105 kN	23604 lbf
Wire rope diameter	20 mm	0.79 in
Max. line speed	80 m/min	262 ft/min
Mast inclination		
Forward/backward	90/15 °	90/15 °
Lateral	±3 °	±3 °
Main chassis		
Engine model ②	TAD1385VE	TAD1385VE
Engine power ISO 3046-1	405 kW/1900 rpm	543 HP/1900 rpm
Emission regulation	EEC 97/68 EC	EPA /CARB
	Stage V/Tier4 final	
Fuel tank capacity	690 L	182 US gal
AD Blue tank capacity	45 L	12 US gal
Width retracted/extended	3600-4900 mm	142-193 in
Track shoe width	800 mm	32 in
Swing radius	4910 mm	193 in
Overall machine		
Overall height	29710 mm	1170 in
Operating weight	158000 kg	348330 lb
Transport width	3600 mm	142 in
Transport height	3805 mm	150 in
Transport Length	19650 mm	774 in

①: Friction kelly / inter-locking kelly
②: VOLVO

Kelly bar		Weight	Depth	Option
Inter-locking kelly	Φ580×3×19	18200 kg 40124 lb	51 m 167 ft	Standard
	Φ580×4×19	20200 kg 44533 lb	68 m 223 ft	
	Φ580×4×20	21200 kg 46738 lb	72 m 236 ft	
	Φ580×5×20	23100 kg 50927 lb	90 m 295 ft	
Friction kelly	Φ580×6×19	21400 kg 47179 lb	104 m 341 ft	
	Φ580×6×20	22500 kg 49604 lb	110 m 361 ft	

Note: Drilling depth with bucket 800 mm long

INTELLIGENCE , LARGE DIAMETER and DEEP PILE

SR455-S is suitable for pile foundation construction of housing, bridges, highways, high-speed railways and other large buildings. It can realize efficient drilling in granite, various types of weathered rocks, pebbles and other hard strata with intelligent functions and comfortable operating experiences.

Efficient construction: imported engine with high power and large displacement can realize real-time power distribution and efficient power output. Main winch with large reserve of line pull, large mechanical structure with high stability and reliability, rotary drive with high torque, enable high drilling efficiency and fast hole formation.

Strong rock drilling ability: rotary drive with three groups of motors and reducers can realize high torque and high speed output; the whole machine is equipped with positive control hydraulic system, the crowd force of cylinder is stable and strong.

Quick removal and installation: the pioneering self-disassembly technology on supporting trestle pin and rotary drive in the industry, which increases the disassembly efficiency by 5 times and makes the whole machine more convenient to transfer.

Intelligent control: advanced technology of auto soil dumping, intelligent drilling, auto drilling, etc., enable intelligent and efficient control of the whole machine.

Comfortable experience: the industrial design is grand and magnificent with comfortable operating experience taken into consideration; full electric control hydraulic positive control system, ensures efficient construction and fast response.

Convenient maintenance: double walking boards, double climbing ladders, single-side arrangement of filter elements, central lubrication system, facilitate maintenance.

