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THE ESSENCE OF SANY PRODUCT

LIES IN ITS HIGH RELIABILITY

SANY

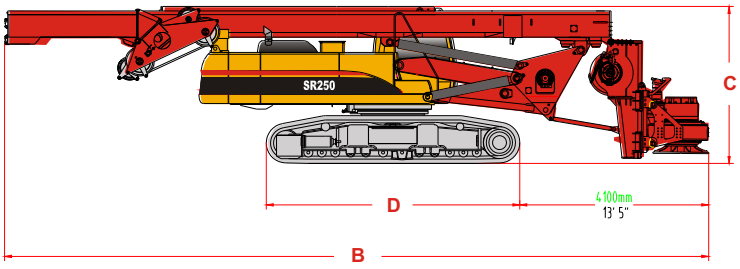
QUALITY CHANGES THE WORLD

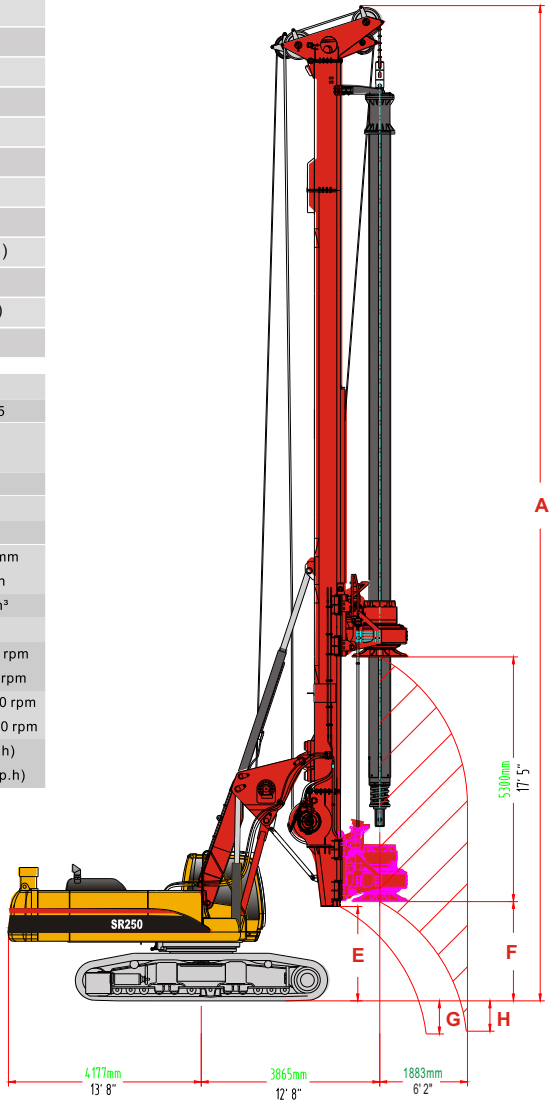
Rotary Drilling Rig SR250

- With max. drilling diameter 2500mm and max. drilling depth 70m, the rig is suitable for large size pile foundation construction;
- Super output torque of 285kN.m ensures construction accomplishment under different geological conditions;
- Diesel engine owns auto accelerating / decelerating function, fuel consumption can be reduced by 5-10%;
- Embedded system based on core of work mechanism controller and perfect CAN-BUS technique take full charge of whole machine's monitoring;
- Hydraulic system main control loop and pilot control loop to achieve the optimal match under various working conditions;
- Key parts such as hydraulic pump, hydraulic motor, hydraulic valve and joint are introduced in well-known brands to ensure high reliability of system.

Chassis	CAT330D/213	CAT330D/261	SY420R/242
Max. drilling dia.	2200 mm (7′ 3″)	2500 mm (8′ 2″)	2500 mm (8′ 2″)
Max. drilling depth	70 m (230 ft)	70 m (230 ft)	70 m (230 ft)
Max. output torque.	285 kN.m (210394 lbf.ft)	285 kN.m (210394 lbf.ft)	285 kN.m (210394 lbf.ft)
Drilling speed	6-30 rpm	6-30 rpm	6-30 rpm
Max. push	180 kN (40500 lbf)	180 kN (40500 lbf)	180 kN (40500 lbf)
Max. Pull	256 kN (57600 lbf)	256 kN (57600 lbf)	256 kN (57600 lbf)
Stroke of crowd cylinder	5300 mm (17′ 5″)	5300 mm (17′ 5″)	5300 mm (17′ 5″)
Mast sideward	±6°	±6°	±6°
Mast forward	5°	5°	5°
Main winch pull (1st layer)	256 kN (57600 lbf)	256 kN (57600 lbf)	256 kN (57600 lbf)
Main winch rope dia.	32 mm (1.3″)	32 mm (1.3″)	32 mm (1.3″)
Main winch line speed	63 m/min (2.3 mph)	63 m/min (2.3 mph)	63 m/min (2.3 mph)
Aux. winch pull (1st layer)	110 kN (24750 lbf)	110 kN (24750 lbf)	110 kN (24750 lbf)
Aux. winch rope dia.	20 mm(0.8″)	20 mm(0.8″)	20 mm(0.8″)
Aux. winch line speed	70 m/min (2.6 mph)	70 m/min (2.6 mph)	70 m/min (2.6 mph)
A Operating height	21546 mm (70′ 8″)	21546 mm (70′ 8″)	21627 mm (70′ 11″)
Operating width	4300 mm (14′ 1″)	4300 mm (14′ 1″)	4490 mm (14′ 9″)
B Transport length	15290 mm (50′ 2″)	15290 mm (50′ 2″)	15173 mm (49′ 9″)
C Transport height	3400 mm (11′ 2″)	3400 mm (11′ 2″)	3520 mm (11′ 7″)
Transport width	3000 mm (9′ 10″)	3000 mm (9′ 10″)	3190 mm (10′ 6″)
D Crawler length	5464 mm (17′ 11″)	5464 mm (17′ 11″)	5911 mm (19′ 5″)
E	2040 mm (6′ 8″)	2040 mm (6′ 8″)	2125 mm (7′)
F	2165 mm (7′ 1″)	2165 mm (7′ 1″)	2230 mm (7′ 4″)
G	705 mm (2′ 4″)	705 mm (2′ 4″)	624 mm (2′ 1″)
H	600 mm (2′)	600 mm (2′)	517 mm (1′ 8″)
System pressure	34.3 MPa (4975 psi)	34.3 MPa (4975 psi)	34.3 MPa (4975 psi)
Pilot pressure	4 MPa (580 psi)	4 MPa (580 psi)	4 MPa (580 psi)
Traction force	510 kN (114750 lbf)	510 kN (114750 lbf)	510 kN (114750 lbf)
Max. total weight	70 t (69 long ton)	70 t (69 long ton)	70 t (69 long ton)

Engine	CAT		Cummins
Model	C9 STH	C9 HHP	QSL9-C325
Style	4–stroke water–cooled overhead valve type Direct injection		
Intake form	Turbocharger; inter cooler		
Fuel	Light oil (JIS Type 2)		
Emission standard	EU stage III / EPA Tier 3		
No. of cylinder – bore × stroke	6 -112×149 mm 6 -4.4×5.9 in		6—114×145 mm 6-4.5×5.7 in
Displacement	8.8 L / 537 in³	8.8 L / 537 in³	8.9 L/ 543 in³
Compression ratio	16:1		17.8:1
Rated power	213 kW@1800 rpm 285 hp@1800 rpm	261 kW@1800 rpm 350 hp@1800 rpm	242 kW@2000 rpm 324 hp@2000 rpm
Max. Torque	1492 N.m@1400 rpm 1101 lbf.ft@1400 rpm	1557 N.m@1400 rpm 1149 lbf.ft@1400 rpm	1424 N.m@1500 rpm 1051 lbf.ft@1500 rpm
Fuel consumption (at 100% rated output)	212 g/(kW.h) 0.350 lbs/(hp.h)	214 g/(kW.h) 0.353 lbs/(hp.h)	≤225 g/(kW.h) ≤0.371 lbs/(hp.h)





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BZSRX0601EN（09–09）–SR250

Printed in CHINA