

WORKING RANGE

LOW HEADROOM		
<b>PILE</b>		
Max. drilling diameter	7' 2"	2 200 mm
<b>ROTARY DRIVE</b>		
Rated output torque	210,205 lbf-ft	285 kN·m
Rotation speed	5~27 rpm	
<b>CROWD SYSTEM</b>		
Crowd force	59,574 lbf	265 kN
Line pull	79,807 lbf	355 kN
Stroke	15' 1"	4 600 mm
<b>LOW HEADROOM-12m***</b>		
Overall height	43' 7"	13 280 mm*
Overall height	38' 3"	11 655 mm**
Operating weight	194,007 lbs	88 t
<b>LOW HEADROOM-15m</b>		
Overall height	53' 5"	16 270 mm*
Overall height	48' 2"	14 680 mm**
Operating weight	205,030 lbs	93 t
<b>LOW HEADROOM-18m</b>		
Overall height	61' 7"	18 780 mm*
Overall height	59' 3"	18 050 mm**
Operating weight	211,644 lbs	96 t

CFA MODE		
<b>PILE</b>		
Max. drilling diameter	3' 11"	1 200 mm
Max. drilling depth	88' 7"	27 m
<b>ROTARY DRIVE</b>		
Rated output torque	210,205 lbf-ft	285 kN·m
Rotation speed	5~27 rpm	
<b>CROWD SYSTEM</b>		
Crowd force	59,574 lbf	265 kN
Line pull	--	--
Stroke	62' 4"	19 000 mm
<b>MAIN WINCH</b>		
CFA Max.Lifting	224,810 lbf	1 000 kN
Wire rope diameter	1.42"	36 mm
Max. line speed	57.4 ft/min	17.5 m/min
<b>OVERALL MACHINE</b>		
Overall height	108' 6"	33 060 mm
Operating weight	244,713 lbs	111 t

\* the higher location of boom. \*\* the lower location of boom.  
 In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.  
 All imperial numbers have been rounded to the nearest whole number.

LIFTING PERFORMANCE

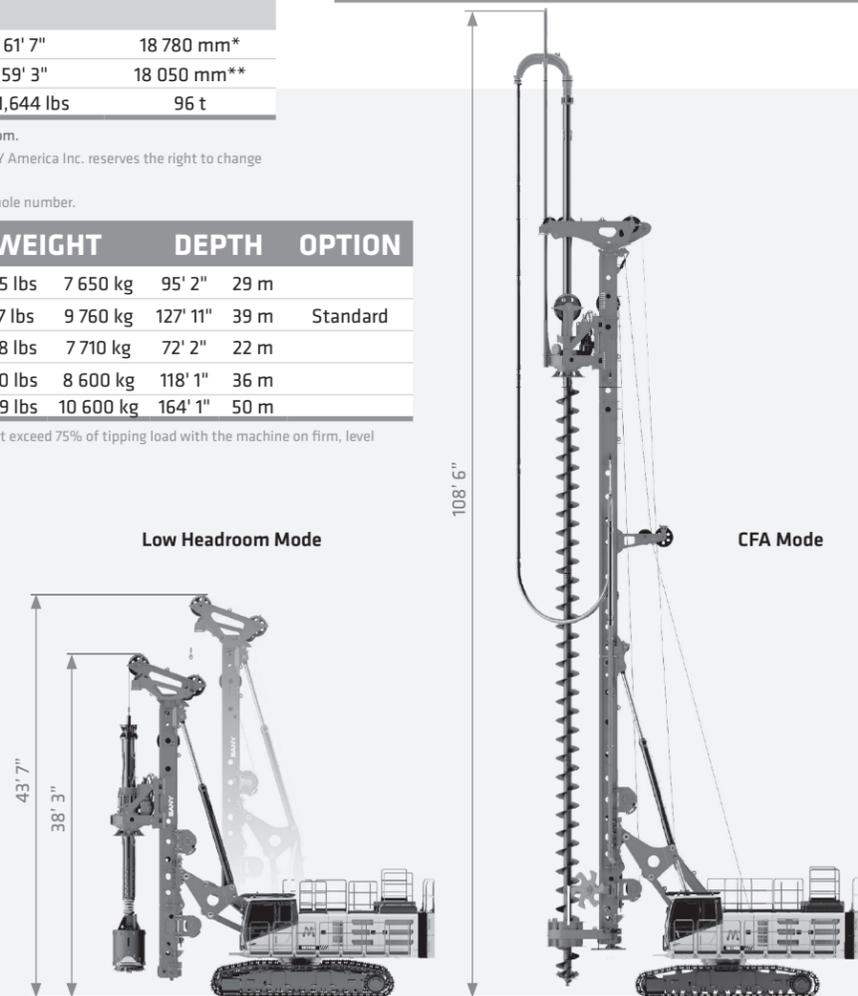
KELLY BAR	WEIGHT	DEPTH	OPTION
Φ508×4×9	16,865 lbs / 7 650 kg	95' 2" / 29 m	Standard
Φ508×4×11	21,517 lbs / 9 760 kg	127' 11" / 39 m	
Inter-Locking Kelly Φ508×5×5	16,998 lbs / 7 710 kg	72' 2" / 22 m	
Φ508×5×9	18,960 lbs / 8 600 kg	118' 1" / 36 m	
Φ508×5×11	23,369 lbs / 10 600 kg	164' 1" / 50 m	

Ratings are based on ISO 10567:2007. Lift capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of hydraulic lifting capacity.

**Low headroom mode:** standard mode can quickly switch to low headroom mode.

**CFA mode:** directly switch to CFA mode by changing a few parts, such as dedicated pulley yoke, balancing rope device, Auger cleaner etc.

**Customized construction method:** displacement pile device, soil-mixing, CFA needs to be pre-ordered.



\*Warranty applies to 2024 Drill Rig models only.

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DRILL RIG

SR285MV

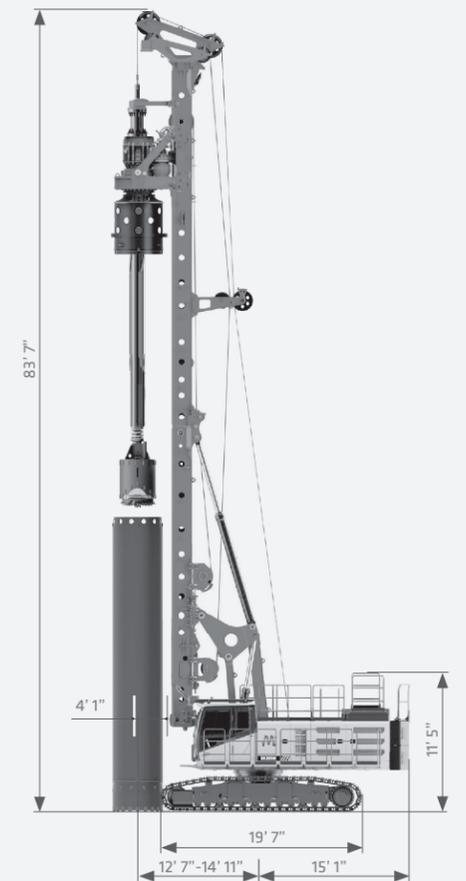
STANDARD FEATURES

- ➔ Multi-speed rotary adjustable to suit ground conditions excelling at rock drilling
- ➔ Powerful Cummins X12 T4F
- ➔ 56' extra-long stroke, featuring fast winches
- ➔ Real-time display the location of the kelly bar locks while using the inter-lock kelly bar

**7' 2"**  
 Max. Drilling Diameter  
**308' 5"**  
 Max. Drilling Depth  
**210,205 lbf-ft**  
 Rated Output Torque  
**450 hp / 1 800 rpm**  
 Engine Power

DIMENSIONS

DIMENSIONS		
<b>Pile</b>		
Max. drilling diameter	7' 2"	2 200 mm
Max. drilling depth	308' / 200'	94 / 61 m *
<b>Rotary drive</b>		
Rated output torque	210,205 lbf-ft	285 kN·m
Rotation speed	5~27 rpm	
<b>Crowd system</b>		
Crowd force	59,574 lbf	265 kN
Line pull	79,807 lbf	355 kN
Stroke	56' 1"	17 100 mm
<b>Main winch</b>		
Lifting capacity	73,063 lbf	325 kN
Wire rope diameter	1.42"	36 mm
Max. line speed	230 ft/min	70 m/min
<b>Auxiliary winch</b>		
Lifting capacity	20,233 lbf	90 kN
Wire rope diameter	0.79"	20 mm
Max. line speed	230 ft/min	70 m/min
<b>Mast inclination</b>		
Forward/backward	5/90°	
Lateral	±4°	
<b>Main Chassis</b>		
Base engine	Cummins X12	
Engine power	450 hp @ 1 800 rpm 336 kW @ 1 800 rpm	
Exhaust emission	Tier4 Final / Stage V	
Fuel tank capacity	166 US gal	630 L
AD Blue Tank capacity	12 US gal	45 L
Extension width	15' 7"	4 760 mm
Track shoe width	2' 8"	800 mm
Swing radius	15' 4"	4 675 mm
<b>Overall machine</b>		
Overall height	83' 7"	25 470 mm
Operating weight	231,485 lbs	105 000 kg
Transport width	11' 5"	3 475 mm **
Transport height	11' 10"	3 610 mm
Transport length	60' 1"	18 300 mm



KELLY BAR	WEIGHT	DEPTH	OPTION
Inter-Locking Kelly Φ508×4×16	29,542 lbs / 13 400 kg	187' / 57 m	Standard
Φ508×4×17	31,085 lbs / 14 100 kg	200' / 61 m	
Friction Kelly Φ508×6×16	33,069 lbs / 15 000 kg	289' / 88 m	
	Φ508×6×17	34,833 lbs / 15 800 kg	

Note: SANY drill pipe can be customized according to actual demand.  
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\* Friction kelly / inter-locking kelly depth  
 \*\* Width when dismantling the cab bridge platform



STANDARD AND OPTIONAL EQUIPMENT

s = standard / o = optional

SR285MV	ENGINE
s	11.8L Cummins
s	Auto-idle
s	Dual-element dry air filter
s	Batteries 24V (2-12V)
s	Coolant expansion tank
s	Electronic engine control
s	Engine coolant to -37 deg. C (-34 deg. F)
s	Fuel filter with water separator
s	Full-flow oil filter
s	70% (35 deg.) off-level capability
HYDRAULIC SYSTEM	
s	Spring-applied, hydraulically released automatic swing brake
s	Auxiliary hydraulic-flow adjustments through monitor
s	Centralized lubrication system with convenient grease points
s	Lift power boost on joystick
s	Auxiliary hydraulics with load sensitivity electric control
s	Auxiliary pilot and electric controls
s	Positive flow control pump
UNDERCARRIAGE	
s	Planetary drive with axial piston motors
s	Spring-applied, hydraulically released automatic propel brake
s	Track guides, front idler and 2 additional per side
s	2-speed travel selection
s	Upper carrier rollers (2)
s	Sealed and lubricated track chain
s	Triple semi-grouser shoes, 800 mm (31.5")
s	Undercarriage frame opening guard
ATTACHMENT	
o	Customized Drilling tools
o	Kelly bars (friction / interlock)
s	High speed spin off rotary head
o	CFA kit
o	Low headroom Kit
OPERATOR STATION	
s	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
s	AM/FM radio with USB charging and Bluetooth® connectivity
s	ROPS/FOPS Certification
s	One-button start
s	Auto climate control/air conditioner/heater/pressurizer
s	Built-in operator's manual storage compartment and manual

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STANDARD AND OPTIONAL EQUIPMENT

s = standard / o = optional

SR285MV	OPERATOR STATION (CONTINUED)
s	12 and 24V outlets 60 watt 5 amp
s	Deluxe air suspension cloth seat with adjustable armrests
s	Heavy duty rubber floor mat
s	Front windshield wiper with intermittent speeds
s	Hour meter, electric
s	Hydraulic shutoff lever, all controls
s	Interior light
s	Large cup holder
s	Digital Power mode selection: 3 power modes- low, standard, and high
s	Multifunction color LCD monitor with: Diagnostic capability / Multiple-language / Maintenance tracking / Clock
s	System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
s	Motion alarm with cancel switch (conforms to SAE J994)
s	Seat belt, 2", non-retractable
s	Hydraulic oil filter restriction indicator light
s	Protection screens for cab front, rear, and side
o	GPS
ELECTRICITY	
s	60-amp alternator
s	Ground level electrical disconnect (lockout tag out)
s	10.4" HD touchscreen Display
s	Main winch pin tension sensor
s	Depth measurement sensor
s	Auxiliary winch limit
s	Rearview camera
s	Main winch camera
s	Right side safety camera
s	Counter weight alarm light
s	Right swing light
o	Aviation warning light
o	Anemometer
o	Auxiliary winch pin tension sensor
o	Remote controller
o	Safety belt alarm

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