



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

W10

# SR405R

2020 Rotary Drilling Rig



Excellent performance  
High efficiency



Follow us on Wechat and contact us  
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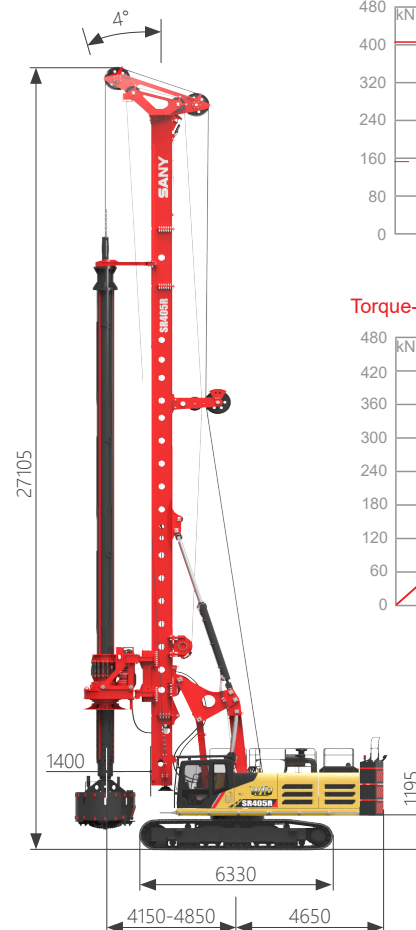
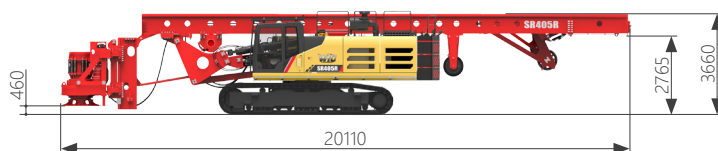
- Max. drilling diameter 2.5m
- Max. drilling depth 106/88m
- Rated output torque 405kN·m
- Engine power 377kW/1800rpm

Main performances	Unit	Parameter	Remark
<b>Pile</b>			
Max. drilling diameter	mm	2500/2200	①
Max. drilling depth	m	106/87	②
<b>Rotary drive</b>			
Rated output torque	kN · m	405	
Rotation Speed	rpm	5-25	
<b>Crowd system</b>			
Crowd force	kN	350	
Line pull	kN	400	
Stroke	mm	10000	
<b>Main winch</b>			
Lifting capacity	kN	400	
Wire rope diameter	mm	36	
Max. line speed	m/min	75	
<b>Auxiliary winch</b>			
Lifting capacity	kN	105	
Wire rope diameter	mm	20	
Max. line speed	m/min	70	
<b>Mast inclination</b>			
Forward/backward	°	4/90	
Lateral	°	± 3	
<b>Main Chassis</b>			
Base engine	/	ISUZU 6WG1	
Engine power	kW/rpm	377/1800	
Emission regulation	/	COM III	
Engine displacement	L	15.68	
Chassis length	mm	7800	
Extension width	mm	3500-4900	
Track shoe width	mm	800	
Swing radius	mm	4600	
<b>Overall machine</b>			
Overall height	mm	27700	
Operating weight	t	131	
Transport width	mm	3500	
Transport height	mm	3660	

①: uncased/cased

②: friction kelly depth / interlocking kelly depth

Kelly bar	Weight(Kg)	Depth(m)	Option	
Inter-locking kelly	Φ580 × 4 × 16	17500	57	Standard
	Φ580 × 4 × 18	19500	65	
	Φ580 × 4 × 19	20500	69	
	Φ580 × 5 × 18	21000	82	
	Φ580 × 5 × 19	22000	87	
Friction kelly	Φ580 × 6 × 18	20500	100	
	Φ580 × 6 × 19	21500	106	



**Powerful:** Adopt 6th generation Kelly bar, integrated locking device, upgraded material, reinforced ring, increase strength by 25%, achieve strong impact resistance, increase crowd force by 15% and rock drilling capacity by 25%; for 5-section interlocking bar, the hard rock drilling depth can be up to 88 meters.

**Economy and energy saving:** By collecting big data, the average comprehensive fuel consumption is lower than that of similar models in the industry.

**Flexible:** Adopt parallelogram structure, more flexible and free of site limitation.

**Reliability:** The whole machine design standard is high, the design life of structural parts > 20,000 hours.

**Innovative Technology:**

1) HD touch screen, 3ms refresh frequency, no visual delay.

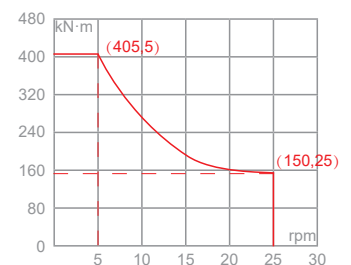
2) The display function of the locking device can accurately display and guide the locking and unlocking of the Kelly bar locking device, which reduces the wear and eliminates the accident. SANY owns the patent of this technology.

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.

**Good maintenance convenience:** Automatic centralized lubrication and combined counterweight, reduce dismantling time and improves transfer efficiency.

Torque-Speed(standard mode)



Torque-pressure(Rock drilling mode)

