

WIO

SR405R

2022 ROTARY DRILLING RIG

- Max. drilling diameter 2.5m
- Max. drilling depth 103m
- Rated output torque 405kN·m
- Engine power 377kW/1800rpm



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Main performances	Unit	Parameter	Remark
Pile			
Max. drilling diameter	mm	2500/2200	①
Max. drilling depth	m	103/84	②
Rotary drive			
Rated output torque	kN·m	405	
Rotation speed	rpm	5~25	
Crowd system			
Crowd force	kN	350	
Line pull	kN	400	
Stroke	mm	13000	
Main winch			
Lifting capacity	kN	400	
Wire rope diameter	mm	36	
Max. line speed	m/min	75	
Auxiliary winch			
Lifting capacity	kN	105	
Wire rope diameter	mm	20	
Max. line speed	m/min	70	
Mast inclination			
Forward/backward	°	4/90	
Lateral	°	±3	
Main Chassis			
Base engine	/	6WG1	ISUZU
Engine power	kW/rpm	377/1800	
Exhaust emission	/	China Stage III	
Engine displacement	L	15.68	
Extension width	mm	4900	
Track shoe width	mm	800	
Swing radius	mm	4700	
Overall machine			
Overall height	mm	27700	
Operating weight	t	131	
Transport width	mm	3500	
Transport height	mm	3660	
Transport length	mm	20110	

①: Uncased/cased

②: Friction kelly / inter-locking kelly

	Kelly bar	Weight(Kg)	Depth(m)	Option
Inter-locking kelly	Φ580×4×16	17200	55	Standard
	Φ580×4×18	19400	63	
	Φ580×4×19	20200	67	
	Φ580×5×18	21000	79	
	Φ580×5×19	22000	84	
Friction kelly	Φ580×6×18	20500	97	
	Φ580×6×19	21400	103	

Note: Drilling depth with bucket 1000 mm long



ROLLING PRESSURE, PROTECTIVE CYLINDER CONSTRUCTION

SR405R is suitable for the construction of large pile foundation projects such as buildings, bridges, high-speed railways and highways. With large drilling diameter and depth, it is applied to the construction of various weathered rock layers.

Cased construction: double rate flexible winch crowd system with 13m long crowd stroke; can be matched with torque amplifier and casing driver to realize long casing construction.

Strong power: adjust power distribution in real time to maximize the performance, improve efficiency, reduce fuel consumption and save costs.

Flexible: large parallelogram structure, easy to transfer, can meet the assembly requirements in the limited site.

Stable and reliable: box mast, double arm amplitude provide large alternating load capacity, strong and durable. Main winch single layer winding, no extrusion between the ropes, no wear, long service life, low use cost.

Intelligent control: HD touch screen, fast response, easy to learn and use; the APP EVI supports remote real-time monitoring, one-click service call and group management.

Convenient maintenance: the counterweight consists of several parts, secured with pins and free of adjusting and looseness. It is also easy for assembly and disassembly. Equipped with central lubrication, saves time and effort.

