

WIO

SR400R

2022 ROTARY DRILLING RIG

- Max. drilling diameter 2.5m
- Max. drilling depth 105m
- Rated output torque 400kN·m
- Engine power 300kW/1800rpm



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Main performances	Unit	Parameter	Remark
Pile			
Max. drilling diameter	mm	2500/2200	①
Max. drilling depth	m	105/86	②
Rotary drive			
Rated output torque	kN·m	400	
Rotation speed	rpm	5~22	
Crowd system			
Crowd force	kN	350	
Line pull	kN	380	
Stroke	mm	9000/18000	
Main winch			
Lifting capacity	kN	410	
Wire rope diameter	mm	36	
Max. line speed	m/min	70	
Auxiliary winch			
Lifting capacity	kN	105	
Wire rope diameter	mm	20	
Max. line speed	m/min	70	
Mast inclination			
Forward/backward	°	90/15	
Lateral	°	±3	
Main Chassis			
Base engine	/	6WG1	ISUZU
Engine power	kW/rpm	300/1800	
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	27105	
Operating weight	t	137	
Transport width	mm	3530	
Transport height	mm	3575	
Transport length	mm	19420	

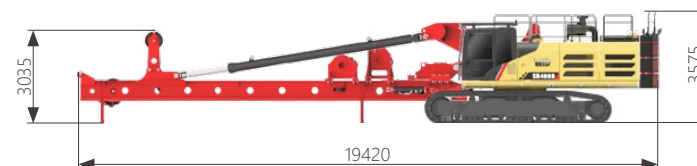
①: Uncased/cased

②: Friction kelly / inter-locking kelly

	Kelly bar	Weight(Kg)	Depth(m)	Option
Inter-locking kelly	Φ530×4×18	17300	65	Standard
	Φ530×4×19	18100	67	○
	Φ530×5×18	18800	81	○
Friction kelly	Φ530×5×19	20000	86	○
	Φ530×6×18	18300	99	○
	Φ530×6×19	19200	105	○

○ Special extension mast

Note: Drilling depth with bucket 1000 mm long



STABLE CONSTRUCTION AND DIVERSE CONSTRUCTION METHODS

SR400W is a large triangle structure drilling rig. With large hole & hard rock drilling and long casing construction ability, it is suitable for housing, civil and bridge constructions.

Smooth construction: adopt large triangle structure with large support angle, more stable; crowd winch system, less vibration and more stability during rock drilling, high hole forming quality.

Strong rock drilling ability: the whole machine is compact in design, providing greater crowd force, equipped with high strength light weight Kelly bar, realizing rock cutting, and high hole forming efficiency

Cased construction: large rotary drive torque and full crowd system can meet the requirements of long casing construction.

High reliability with heavy load: large main winch line pull ensures the large diameter and deep hole construction; only single layer wire rope winding on winch drum, no extrusion wear between the ropes, long service life, low cost.

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

Intelligent control: HD touch control large screen, fast response, easy to learn and easy to use. Locking device visualization technology, automatic freefall and other functions to reduce the operation intensity and improve the control experience.

Various construction methods: half-stroke and full stroke crowd systems ensure the high performance in cased construction on both soft and hard layers; quick switch of low headroom mode, free of construction site limit; can be equipped with DTH hammer to realize super hard rock construction with high efficiency.

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.

