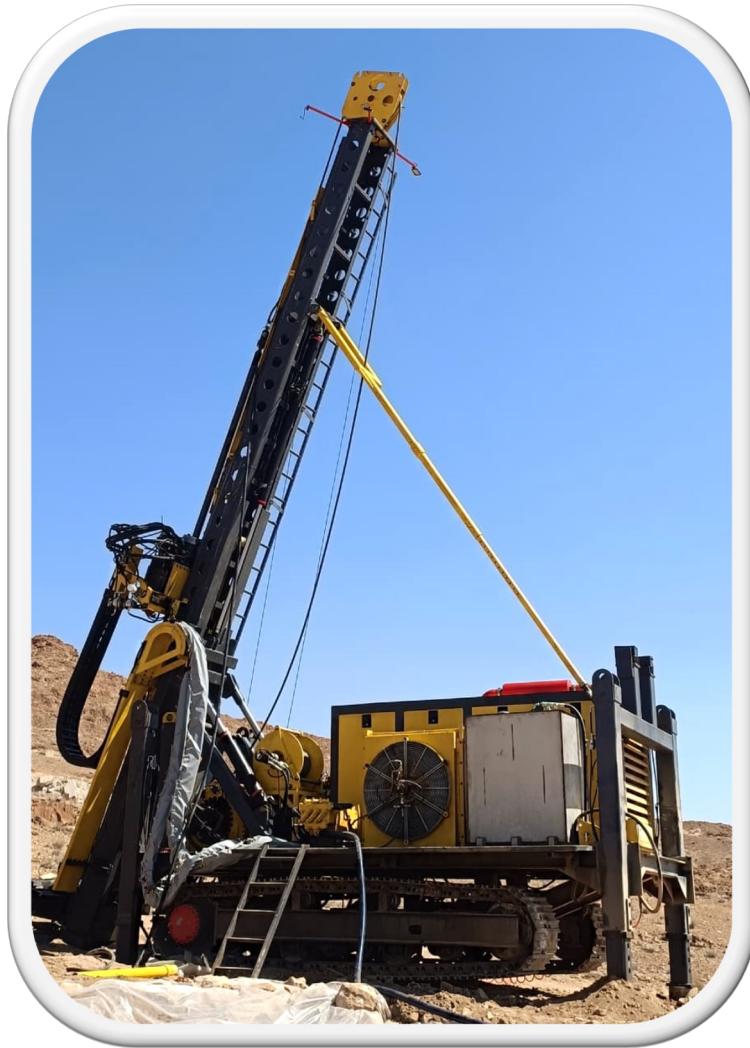




RG-2500/C

Surface Diamond Core Drilling Rig

RG-2500 is a full hydraulically operated drill rig for coring and drilling in surface . RG-2500 rig has a drilling depth capacity of 1600 meters with HQ size. This flexible drilling rig can handle up to 6 meter core barrels. And thanks to the robust hydraulic legs, the rig is kept firmly in place during drilling. It is mounted in two different frames: four wheel trailer, and crawler under-carriage track. RG-2500 offers the capability of swinging the rotation head aside, for hole cleaning and grouting equipment access during operations.

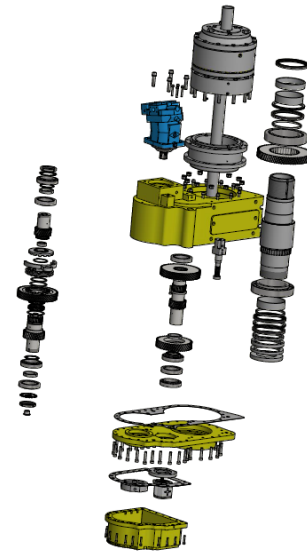
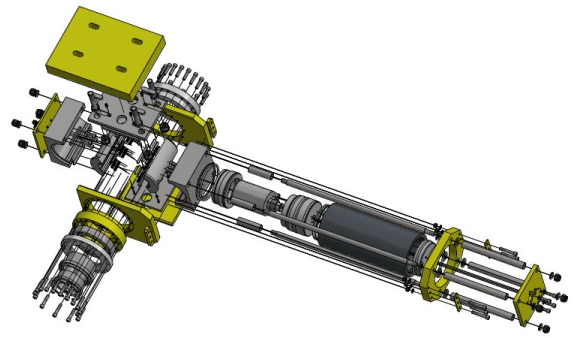
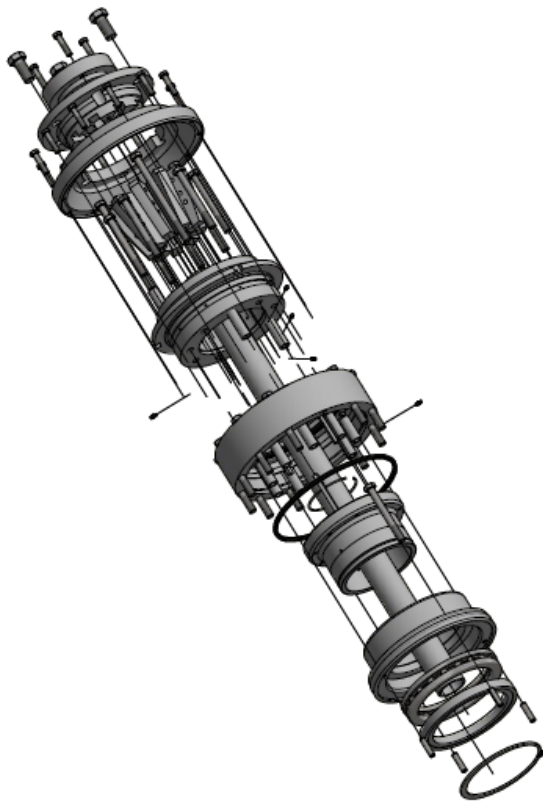
Strong Rotation unit

The rotation unit is gear driven in final stage ,easy for maintenance and consists of variable speed hydraulic motor, sealed gearbox prevents the entering of the cuttings into the rotation unit , P size hollow spindle and hydraulic chuck and operating with very low noise level

Safety

Rotation unit have safety grad that cover the drilling person and is easy to use and Compact and non-cumbersome

Improved hose routing makes the working environment safer and neater during operation. Wear is reduced, resulting in



Digital Drilling System.

Measuring rotation speed , and penetration rate and calculate drilling efficiency (cm/min) and RPI

Digital leveling and mast angle display , wireline depth encoder, fuel level indicator, hydraulic oil temperature , ultrasonic flow meter

Rod kicker and elevator

Easy to use and strong rod elevator with long life time is very useful in pulling and pushing rod into borehole that is safe and cost effective ,Saving time during drilling. By using this rod elevator no need to additional person in inclined borehole for pulling the rod and inner tube

Depth Capacity

	Standard
PQ	1000 meters (1312 ft)
HQ	1600 meters (2824 ft)
NQ	2500 meters (3937 ft)
BQ	2800 meters (4921 ft)

The drill depth capacities only serve as guidelines and refer to vertical down drilling. Max depth depending on ground parameters, drilling angles, or drilling equipment. Samin cannot guarantee that these results can be achieved in all drilling and ground conditions.

Mast and feed system

Feed travel	3,5 m (11,5 ft)
Feed speeds	fast and slow with variable control
Mast dump travel	2 m (3.9 ft)
Thrust	100 kN (22 480 lb)
Pull	200 kN (45 000 lb)
Drilling angle	45 to 90 degrees
Rod pull length	6,09 m (20 ft) or 9.14(30 ft) on telescopic mast

Main hoist

Single line capacity	Bare drum 200 kN
Line speed	Bare drum 30 m/min
Cable size	35 m (118 ft) x 30 mm

Wireline

Capacity	3600 m (12130 ft) of 4,76 mm (3/16 in) 3000 m (9843 ft) of 6,35 mm (1/4 in)
Line pull	bare drum: 18.6 kN (4181 lb) full drum: 4.2 kN (944 lb)
Line speed	bare drum 76 m/min (249 ft/min) full drum 337 m/min (1106 ft/min)

Drill Head And Spindle

Power	hydraulic motor – variable speed/reversible
Final drive	Gear driven in oil bath
inner diameter	124 mm (4.88 in)

Spindle speeds

	Ratio	Speed rpm	Torque, Nm (ftlb)
1st	1:17.5	50-200	8175-3775 (6030-2784)
2nd	1:2.7	350-1300	1860-860 (1372-634)

Range selection: manual control from operator's station

Head swinging aside: Hydraulic slider

Hydraulic System @ 1800 RPM

	Pressure	Flow
Primary pump	350 bar (4061 psi)	324 L/min (85 gal/min)
Secondary pump	215 bar (3118 psi)	180 L/min (33.5 gal/min)
Auxiliary pump	200 bar (2901 psi)	54 L/min (13.2 gal/min)
oil cooling	Air	

Load sensing hydraulic system for maximum efficiency and minimum heat

Power unit

Manufacture	Cummins	Mercedes Benz
Model	6LTA– 8.9	OM457LA
Volume	8.9 liter 6 cyl.	12 liter 6 cyl.
Power	250 kW (325 hp)	315 kW (420 hp)
RPM	1800	
Engine type	Diesel turbocharged/after cooled	
Cooling	Water	

Chuck Assembly

Type	hydraulic open, spring closed
Inside diameter	124 mm (4.88 in)
Holding capacity	223 kN (50 132 lb)

Rod Holder

Type	hydraulic open, gas spring closed
Clamping diameter	139.7 mm (8,3 in)
Holding capacity	200 KN (45000 lb)

Water Pump

Model	Trido 140H
Flow Rate	140 L/min (37 gal/min)
Pressure	70 Bar (1015 psi)

Drill Base Supports

Trailer mounted rig with four wheel with towing package

Mount/Base system	four 770 mm (30,3 in) wheels
Support	4 hydraulic jacks
Pad diameter	200 / 230 mm (7,87 / 9 in)
Leg adjust range	550 mm (21,6 in)

Crawler mounted rig

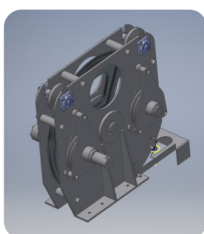
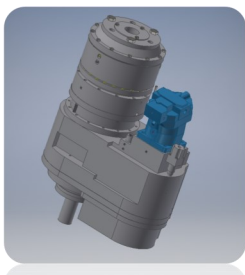
Band width	35 cm
ground pressure	0.044 Mpa
Traveling speed	2 km/h
Support	4 hydraulic jacks
Pad diameter	200 / 230 mm (7,87 / 9 in)
Leg adjust range	550 mm (21,6 in)

Standard Equipment

Hydraulic mast dump
Telescopic mast
Large crown sheave wheel
Ware liner on lower mast
Safety guards
Hydraulic oil tank volume(550 liters)
Diesel tank volume (800 liters)
Control panel
Pq to Nq size hydraulic chuck jaws
Pq to Nq size hydraulic rod holder jaws
4 hydraulic leveling jacks
Towing package (for wheel mounted rig)
Fuel filter @ water separator
Hydraulic mast raise
Tachometers
Lighting kit
Crawler tracks (RG-1500C)
Wireline winch

Optional Equipment

Trido mud pump (140 lit/min)
Wireline cable
Water flow meter kit
Hydraulic mud mixer
Spindle speed measurement
Drilling penetration measurement system (cm/min)
Drilling efficiency calculator (cm/min and RPI)
Hydraulic oil reservoir fill pump manual or electric pump
Wireline RPM meters
Fuel tank electric pump
Digital leveling display
Mast tilt angle display



All weights values are approximations and are subject to change according to model and accessories.
Samin has the right to make change without any notice.



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