

RX-7

SURFACE CORING DRILL



DRILL SOURCE

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At Drill Source, we offer a wide selection of new and used drilling rigs and equipment; if you don't see what you need, contact our sales team. With over 40 years' experience locating all kinds of new and used drill rigs, compressors, boosters, pumps, and drilling equipment, you can buy and sell with 100% confidence.

RX-7

Surface Coring Drill

RX-7 is fully hydraulic diamond core drilling rig, designed for surface research drillings. It is the perfect combination of the proven RX concept, combined with new and powerful components.

The RX-7 uses well proven technology for diamond core drills combined with new improvements in order to get easy drill operation. Hydraulic jacks, mast dump, hinged top mast and all controls available at the control panel provide the driller an easy set-up. Other features such as the strong main winch, powerful direct feed cylinder, advanced diesel engine, foldable mast and Gas Spring Rod Holder.

RX-7 Coring Rig rotation speed, power and rotation unit aperture diameter is designed to give optimal performance in 60-122.6 mm (B-P) diameter wireline or conventional drilling.

RX-7, drilling unit, power unit, wireline unit (automatic winding system), main winch control of the mixer and mud pump are performed from the operator panel.

The gauge located on the operator panel displays, drilling rig advancement position;

- Hold back force,
- Feed force,
- Rotation speed,

It can observe the data and is able to control diesel engine.

RX-7, can be mounted on 3 different chassis.

- Skid frame
- Wheel frame
- Crawler frame

RX-7 drilling rig, as progress is being achieved with the drilling rig hydraulic cylinder, more precise settings can be done.

RX-7 drilling rig, automatic rod removal and clamping feature allows high progress rate, optimal core percentage and big time save.



Technical Specifications

Drilling Depth Capacity

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength.

Son-Mak cannot guarantee these capacities will be reached in all working conditions due to varying factors such as ITH used, conditions of the ground and differences in operation.

Drill Rod	Fluid Filled	
	Metric	U.S. System
BO / BRO Wireline	3450 m	11318 ft
NO / NRO Wireline	2650 m	8694 ft
NRO Thin Wall	3000 m	9842 ft
HO / HRO Wireline	1800 m	5905 ft
HRO Thin Wall	2250 m	7411ft
PHD / PO Wireline	1150 m	3772 ft
PHD Thin Wall	1420 m	4658 ft

Rotation Unit

Rod Sizes	B-P
Power	Hydraulic Motor
Transmission:	Funk 4 speed
Final Drive:	Straight cut gears
Ratio:	2:1
Rotation Unit Opener:	Pivoting style - hydraulically actuated
Hydraulic P Chuck	Hydraulic Open, Closed by Gas Pressure
Spindle inner diameter:	127 mm (5 in)
Chuck axial holding force:	222 kN (50 000 lb)

Torque and RPM Ratings

		Speed	Torque	
Spindle Speeds	Ratio	RPM	Nm	lbft
1st Gear	6.27:1	144-199	5320-3825	3923-2820
2nd Gear	3.12:1	288-400	2647-1898	1952-1400
3rd Gear	1.75:1	514-714	1485-1065	1095-785
4th Gear	1.00:1	900-1250	848-610	625-450

System Power Unit

Cummins QSC8.3, turbo charged, after cooled diesel engine.	Metric	U.S. System
Volume:	8.3 liter	1.77 gallons
Power:	205 kW	275 bhp
RPM:	2200	2200
Electrical System:	12V	12V
Cooling System:	Water	
Emissions Certifications:	Stage III	Tier 3



Hydraulic System	Metric	U.S. System
Primary Pump:	318 l/min - 310 bar	84 gal/min - 4500 psi
Secondary Pump:	72 l/min - 210 bar	19 gal/min - 3000 psi
Auxiliary Pump:	42 l/min - 140 bar	11gal/min - 2000 psi
Hydraulic Oil Cooling:	Air	

Mast and Feed System	Metric	U.S. System
Feed Stroke:	3.35 m	11 ft
Thrust Force:	117.9 kN	26500 lb
Pull Force:	223.6 kN	50260 lb
Mast Dump Travel:	2.74 m	9.0 ft
Mast Telescope:	2.87 m	9.4 ft
Drilling Angle:	45 to 90 degrees	45 to 90 degrees
Rod Pull Length:	6.0 m or 9.0 m on telescopic mast	20 ft or 30 ft on telescopic mast

Rod Holder	Metric	U.S. System
Maximum Rod Size (HWT)	114.3 mm	4.5 in
Holding Force:	178 kN	40015 lb

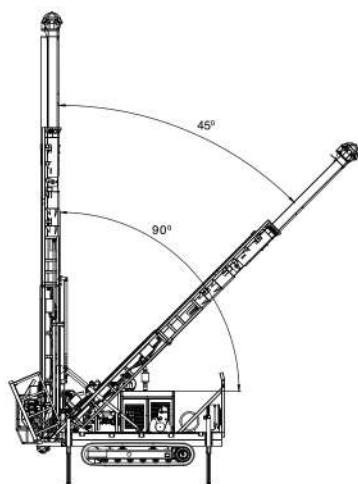
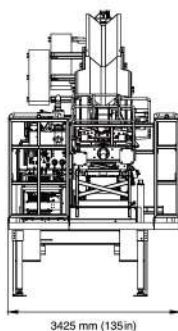
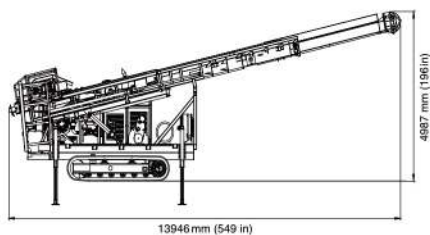
Wireline Hoist	Metric	U.S. System
Drum Capacity (6.35mm - 1/4" wire)	3200 m	10500 ft
Line pull min. (full drum)	9.5 kN	2130 lb
Line pull max. (bare drum)	17.2 kN	3880 lb
Line speed min. (bare drum)	160 m/min	525 ft/min
Line speed max. (full drum)	285 m/min	932 ft/min

***There is an automatic winding system to prevent the rope from making straight or mixed winding

Main Winch	Metric	U.S. System
Single line capacity: (bare drum)	180 kN	40000 lb
Line speed:(bare drum)	72 m/min	236 ft/min
Cable size:	22 mm	7/8 in
Cable length:	29 m	96 ft

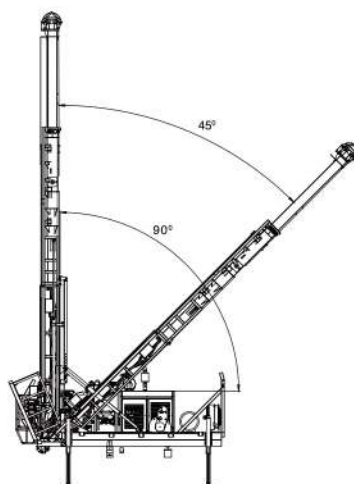
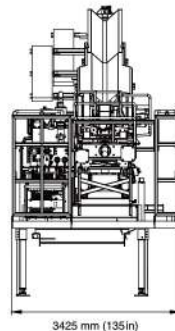
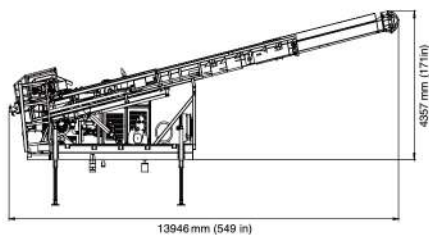
Mud Pump	Metric	U.S. System
TP220H		
Flow:	200 l/min	52.8 gal./min
Pressure:	70 bar	1000 psi

Transportation Dimensions



Weight

RX-7 Crawler: 21.000 kg (46.300 lb)



Weight

RX-7 Trailer: 13.650 kg (30.000 lb)





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