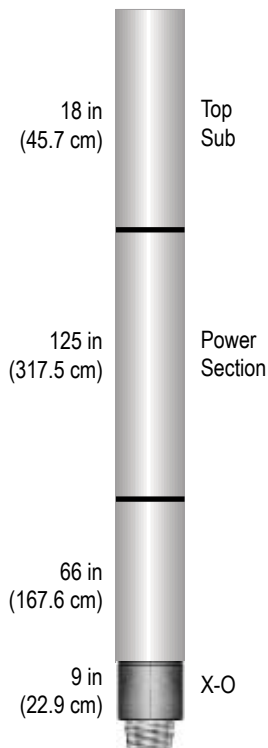




6.5 inch “Rattler” Drilling Tool

The “Rattler” Drilling Tool was developed by Scientific Drilling to enhance Directional Drilling operations. The tool is strategically placed in the BHA, above the motor, to provide improved ROP's by way of an oscillating movement within the system. This in turn provides smoother drilling and lessens the chance of sidewall sticking.

The tools are available in 4-3/4” and 6-1/2” O.D. Standard API connections are available.



TECHNICAL SPECIFICATIONS	
O.D.	6.5 in (16.5 cm)
Overall Length	18.2 ft (5.5 m)
Weight	1,450 lbs (658 kg)
Maximum Flow Rate	600 GPM
Revolutions per Gallon	0.28
Maximum RPM	170
Maximum Temperature*	275°F (135°C)
Pressure Loss Across Tool	125 psi (862 Kpa)
Sand Content	<2.0%
Solids Content	<5.0%
Hole Size	7-7/8 in - 9-7/8 in (15 cm - 20 cm)
Maximum Overpull for Re-run	500,000 lbs (226,796 kg)
Maximum Overpull to Yield	940,000 lbs (426,377 kg)

* Hot-hole stators available upon request.

