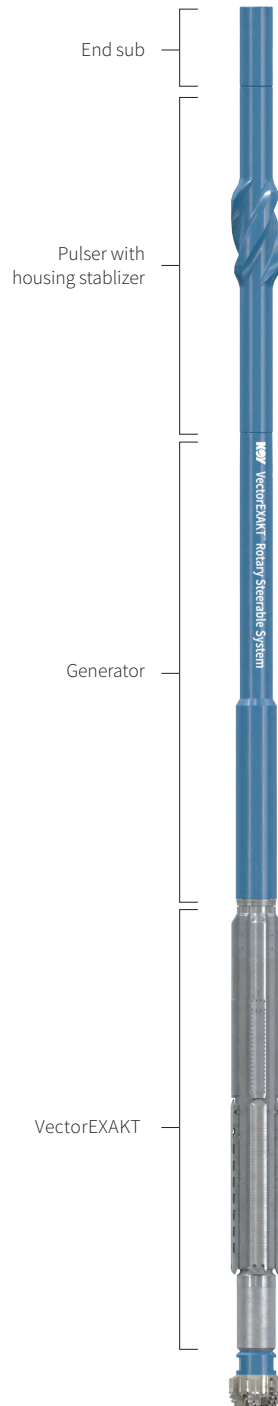


# VectorEXAKT Vertical Rotary Steerable System

Our VectorEXAKT™ vertical rotary steerable system (RSS) is designed for high-performance vertical drilling. The VectorEXAKT system is set apart by its high rate of penetration, precise verticality control, and robust design. The RSS tool stays on course through continuous steering—when there is a deviation from vertical, the VectorEXAKT system will autonomously steer back on course. The VectorEXAKT system can also be run below a motor for near bit performance drilling applications. Gamma-ray LWD is an available option with VectorEXAKT.



## Specifications of MWD System

### Inclination

Sensor.....	X, Y, and Z-axis accelerometers
Accuracy.....	± 0.1°
Raw data to surface.....	G <sub>x</sub> , G <sub>y</sub> , G <sub>z</sub>
Gtot quality check tolerance.....	± 0.005 g

### Components at Surface

- Data receiving unit

# VectorEXAKT Vertical Rotary Steerable System

## Technical Specifications

Series	800		900	
Body diameter	8 in.	203 mm	9 in.	289 mm
Hole size	12¼ to 13⅞ in.	311 to 352 mm	14¾ to 17½ in.	375 to 445 mm
Stabilizer undergauge size	⅝ in.	3 mm	⅝ in.	3 mm
Bit to sensor distance (Inc/GR)	5.74 ft	1.75 m	5.74 ft	1.75 m
Overall length	26.78 ft	8.16 m	27.54 ft	8.40 m
Weight	5,150 lb	2330 kg	6,950 lb	3150 kg
Maximum operating torque	22,000 ft-lbf	30000 Nm	33,190 ft-lbf	45000 Nm
Maximum weight on bit	56,000 lbf	250 kN	90,000 lbf	400 kN
Maximum rotational speed	300 RPM		300 RPM	
Minimum flow rate	500 GPM	1900 l/min	770 GPM	2900 l/min
Maximum flow rate	1,100 GPM	4100 l/min	1,560 GPM	5900 l/min
Maximum temperature	302°F	150°C	302°F	150°C
Maximum hydrostatic pressure	20,000 psi	1400 bar	20,000 psi	1400 bar
Maximum over-pull	524,000 lbf	2332 kN	711,000 lbf	3162 kN
Mud compatibility	OBM/WBM		OBM/WBM	
Maximum mud sand content (by volume)	1%		1%	
Max. LCM amount/size	40 ppb/ Medium Nut Plug		40 ppb/ Medium Nut Plug	
Collar upper connection	6⅝ in. REG Box		6⅝ in. REG Box	
Bit box connection	6⅝ in. REG Box		7⅝ in. REG Box	