

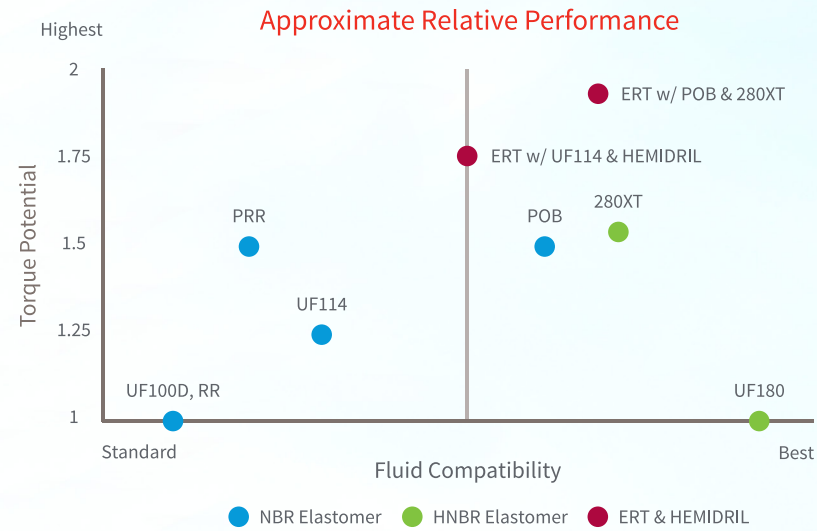
DRILLING MOTORS



A CUSTOMIZED SOLUTION

For optimal drilling, you need a motor specifically tailored for the formation of your well. We can recommend and provide a solution with the components you need downhole.

The **power sections** are available in a wide range of configurations to meet the needs of our clients operation, and the **proprietary elastomers** give you the reliability you need to keep drilling.



This Motors are engineered, the **drive shafts, adjustable assemblies, and straight or fixed housings built to** withstand the torque ratings of the strongest power sections on the market. And we have the widest offering of **oil-sealed and mud-lubricated bearing assemblies**, designed to fit your application.

MUD LUBE



ML3S (Series 34)	Bit to Bend (Fixed)	Bit to Bend (Adjustable)	Max WOB (lbf)	Max Pull to Re-Run (lbf)	Fluid Bypass
5"	35	44	36,000	93,000	10 - 15%
7"	49	61	71,000	234,000	
8"	55	68	95,000	341,000	
9 5/8"	63	81	159,000	585,000	



ML3 (Series 40)	Bit to Bend (Fixed)	Bit to Bend (Adjustable)	Max WOB (lbf)	Max Pull to Re-Run (lbf)	Fluid Bypass
3 3/4"	46	46	19,000	52,000	10 - 15%
5"	57	66	53,000	159,000	
6 1/2"	65	78	69,000	252,000	
7"	68	80	86,000	304,000	
8"	77	91	111,000	425,000	
9 5/8"	89	107	179,000	692,000	
11 1/4"	96	118	203,000	870,000	

OIL SEALED



SR3 (Series 39)	Bit to Bend (Fixed)	Bit to Bend (Adjustable)	WOB @ 300 RPM (lbf)	WOB @ 100 RPM (lbf)	Fluid Bypass
5"	40	49	42,000	58,000	0%
6 1/2"	43	55	74,000	103,000	
6 3/4"	44	55	74,000	103,000	



ST2 (Series 24XH)	Bit to Bend (Fixed)	Bit to Bend (Adjustable)	WOB @ 300 RPM (lbf)	WOB @ 100 RPM (lbf)	Fluid Bypass
4 3/4"	57	66	38,000	53,000	5%
6 1/4"	66	79	55,000	76,000	
6 1/2"	N/A	N/A	N/A	N/A	
6 3/4"	67	79	71,000	98,000	
7 3/4"	67	80	91,000	127,000	
9 5/8"	82	99	154,000	213,000	
11 1/4"	96	110	156,000	216,000	



ST3 (Series 36)	Bit to Bend (Fixed)	Bit to Bend (Adjustable)	WOB @ 300 RPM (lbf)	WOB @ 100 RPM (lbf)	Fluid Bypass
5"	53	61	38,000	53,000	0%
6 1/2"	64	77	65,000	90,000	
6 3/4"	64	76	71,000	98,000	
8"	74	87	92,000	128,000	
9 5/8"	80	97	154,000	213,000	
11 1/4"	91	105	156,000	216,000	

VECTORZIEL AND VECTOREXAKT RSS TOOLS

- **Highly Integrated and Capable RSS tools for efficient and precise trajectory control**

- Designed for directional wells which require high accuracy and efficient control
- Push the bit with Stick Slip resistant design
- Available in 4¾", 6¾", 8", and 9" sizes
- Integrated MWD with near-bit inclination, azimuth, and gamma – 2 tools in one (2 operators instead of 4)
- Resistivity + Azimuthal gamma Options
- Simple to operate – closed-loop trajectory control
- Can be run below a motor for high ROP
- Automated Downlinking w/ Surface Skid (flow bypass manifold)
- Short tool length (9 m) with full survey 1.5 m from the bit
- No minimum pressure drop required across the bit

RSS with resistivity capabilities delivers superior real-time LWD measurements



System Overview

- Push the bit
- Self-directed steering
- Powered by Generator
- Integrated MWD

