



RS MOTORS

Purpose-built motors engineered to reliably drive Rotary Steerable Systems

Bearing Sections

Patented mud lube bearing packs ensure high reliability and extended run hours in the most challenging environments as compared to conventional oil sealed bearings that cannot function at high pressure drops required by some RSS providers.

Custom fit flow restrictors for each type of RSS tool are capable of operating at pressures upwards of 1500 psi while effectively targeting bearing leakage of 4% or less.

High strength driveline components operate reliably at higher speeds and torque.

All body joints use thread locking compounds to reduce risk of back-off with an RSS hanging below.

Pin down bearing mandrels reduce connections in the BHA.

Power Sections

RSS specialty motors are available with multiple high torque power section options that target specific rpm ranges that match the various rotary steerable tool operating parameters.

In most tool sizes, conventional and even wall configurations are available.

Rotor Catch

RSS specialty motors are equipped with rotor catch devices to minimize the risk of a LIH event occurring.

Custom Stabilization

Motors can be configured with stabilization strategically spaced to optimize RSS trajectory performance.

PERFORMANCE DATA:	5"			5 ^{5/8} "		6.5"		7"	7.25"	
	CLAW 500 (EW)	CLAW 640 (EW)	7/8 8.2 Stg.	7/8 8.2 Stg.	CLAW 650 (XF)	CLAW 650 (EW)	6/7 5.0 EW	CLAW 410 (HS)	CLAW 400 (HS)	CLAW 250 (XT)
Flow Rate (gpm)	150-350	200-400	150-350	150-350	150-400	150-400	300-600	500-700	300-700	325-750
Bit Speed Ratio (rev/gal)	0.500	0.640	0.700	0.700	0.650	0.650	0.340	0.410	0.400	0.250
Max Bit Speed @ No Load (rpm)	175	256	245	245	260	260	204	287	280	188
Max. Differential Pressure (psi)	1520	2440	2296	2296	2328	3325	1750	1701	1974	2324
Torque Ratio (lb-ft/psi)	5.520	4.770	3.631	3.631	3.860	3.860	9.090	6.357	5.978	9.850
Torque @ Max. Diff. Pressure (lb-ft)	8390	11639	8337	8337	8986	12835	15908	10813	11801	22891

Other/custom models available on request.

Contact Cathedral Today US Operations 877.825.1002 | Canadian Operations 866.276.8201 | cathedralenergyservices.com

BETTER PERFORMANCE EVERY DAY