

### General Dimensional Data

Motor: B5 Transmission: Articulated

A - Bit to Center of Stabilizer Blade	24.1 in (612 mm)
B - Bit to Bend	55.3 in (1405 mm)
C - Overall Motor Length	30.2 ft (9.2 m)
D - Max OD of Motor at Stabilizer Upset	7.25 in (184 mm)
E - Radius at Kickpad	3.81 in (96.8 mm)
Common Top Connection	4-1/2 IF
Common Bottom Connection	4-1/2 REG
Recommended Bit Sizes	8-1/2 in to 9-7/8 in (215.9 - 251.0 mm)
Estimated Weight	3167 lbs (1437 kg)

### Motor Loads

	Continuous Operation	Ultimate Loading
WOB - lbs (kg)	81,000 (36,740)	-
Backreaming - lbs (kg)	56,000 (25,400)	-
Bit Overpull* - lbs (kg)	201,000 (91,172)	756,000 (342,915)
Body Overpull* - lbs (kg)	686,000 (311,164)	1,396,000 (633,214)

#### \*While Not Operating

Continuous Loads - Lay motor down if exceeded  
 Ultimate Loads - Motor may part if exceeded

### Power Section Specifications

Lobes: 7/8

Flow Range	350 - 750 gpm (1,325 - 2,839 lpm)	Max Recommended Pressure	2,200 psi (151.7 bar)
Speed Ratio	.35 rev/gal (.092 rev/l)	Torque Slope	6.90 ft-lb/psi (135.68 Nm/bar)
No Load Bit Speed	123 - 263 rpm	Torque @ Max Recommended Pressure	15,180 ft-lbs (20,581 Nm)
No Load Pressure Drop	650 psi (44.81 bar)	Power @ Max Recommended Pressure	593 hp (442 kW)

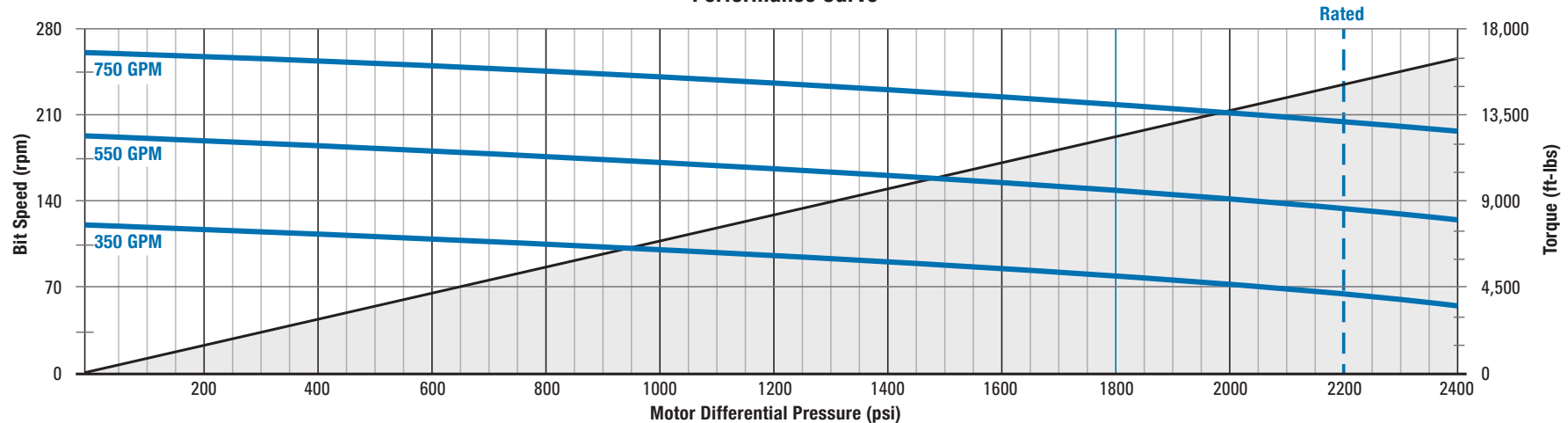
### Predicted Build Rates

Degrees / 100 ft (30 m)

Bend Angle	Slick Motor Hole Size (in)			Stabilized 1/8" UG Hole Size (in)			Stabilized 1/4" UG Hole Size (in)		
	8-1/2	8-3/4	9-7/8	8-1/2	8-3/4	9-7/8	8-1/2	8-3/4	9-7/8
1.50	6.5	5.8	2.4	9.6	9.4	10.1	8.9	8.8	9.3
1.83	8.8	8.0	4.6	11.9	11.9	12.1	11.4	11.2	11.3
2.00	9.9	9.2	5.8	12.9	12.8	13.2	12.6	12.5	12.4
2.12	10.8	10.0	6.6	14.1	14.0	13.9	13.3	13.3	13.1
2.25	11.6	10.9	7.5	-	-	14.7	-	14.0	13.9
2.38	12.5	11.8	8.4	-	-	15.5	-	-	14.7
2.60	-	13.3	9.9	-	-	16.9	-	-	16.3

\*This condensed Build Rate table is the result of a theoretical geometry analysis of the motor and is presented as guideline for job design and planning. Due to the extensive variability in drilling BHA design, formation characteristics and other external factors, BICO cannot guarantee the values stated in the Build Rate table.

### Performance Curve



Disclaimer: The Performance Curve and Performance Data published by BICO Drilling Tools are based on recorded dynamometer data at surface temperature (72 degF) on a standard fit configuration between rotor and stator, with clean water, and are presented as a reference to the potential power of the power section and or motor. Downhole conditions such as highly elevated bottom hole temperatures and different drilling/intervention fluids shall require adjusted loose fits that may produce reduced power during surface (dynamometer) testing and will achieve the expected torque and speed values when reaching planned conditions. Contact BICO for the adjusted performance curves.