

# 4.75" | 5.00" 7831 CONFIGURATION

(121 mm) (127 mm)



## SPECIFICATIONS

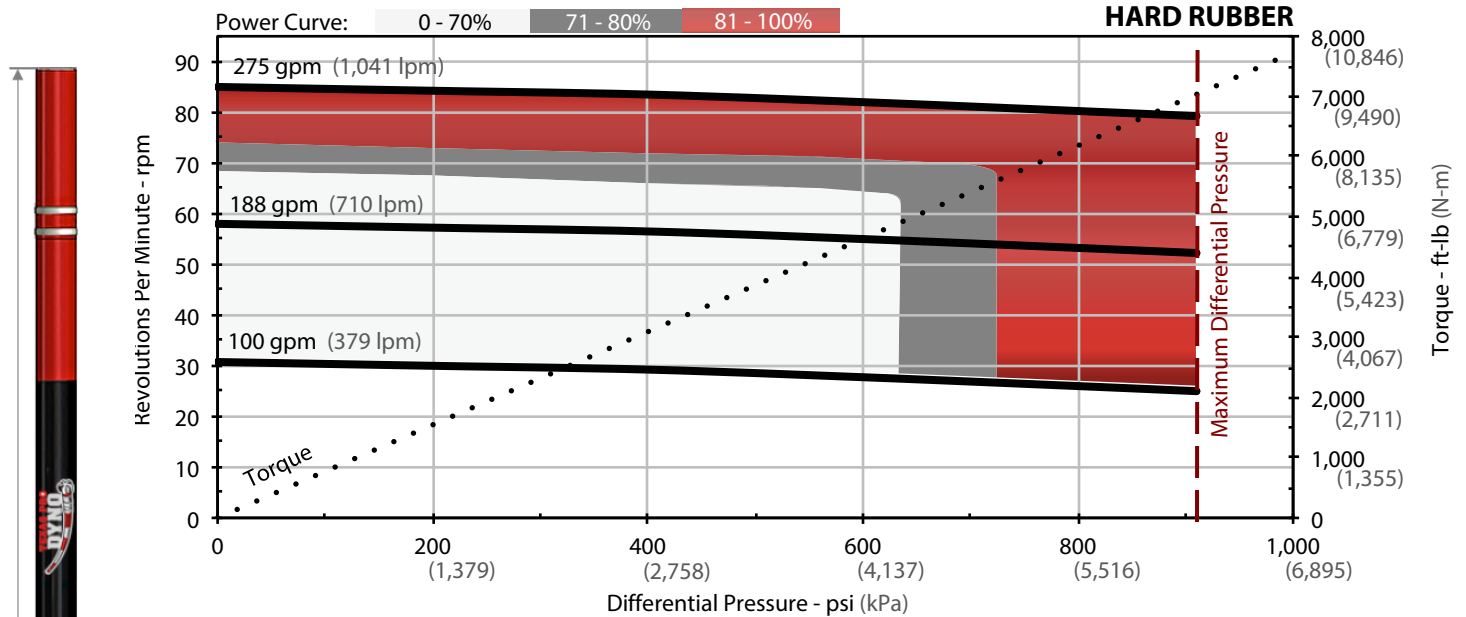
	IMPERIAL	METRIC
Maximum Differential Pressure	910 psi	(6,274 kPa)
Torque at Maximum Differential	7,033 ft-lb	(9,535 N-m)
Stall Torque	10,550 ft-lb	(14,305 N-m)
Flow Range	100 - 275 gpm	(379 - 1,041 lpm)
RPM Ratio	0.31 Revolutions / g	(0.08 Revolutions / l)
RPM Range	31-85 rpm	(31-85 rpm)
Recommended Hole Sizes	6.00 - 6.75 in	(152 - 171 mm)
Maximum Weight on Bit	77,000 lb	(34,300 daN)
Maximum Overpull (Static)	212,000 lb	(94,300 daN)
Overall Weight	1,225 lb	(556 kg)

## LENGTH

	IMPERIAL	METRIC
(A) to Stabilizer	13.50 in	(0.34 m)
(B) to Adj. Bend	54.76 in	(1.39 m)
(B) to Fixed Bend	48.00 in	(1.22 m)
(C) Overall	334.51 in	(8.50 m)

## ADJUSTABLE

	IMPERIAL	METRIC
Make-Up Value	12,000 ft-lb	(16,300 N-m)



## 0 - 3° ADJUSTABLE

Degrees / 100 ft (30 m)

BEND	6.00" HOLE SIZE	6.25" HOLE SIZE	6.75" HOLE SIZE	P R E D I C T E D		
	1.4	2.4	0.2	2.6	2.9	
	4.0	5.0	2.7	5.1	5.5	
	6.4	7.4	5.1	7.5	7.9	
	8.6	9.6	7.4	9.8	10.1	
	10.8	11.8	9.5	11.9	12.3	
	12.6	13.6	11.4	13.8	14.1	
	14.3	15.3	13.1	15.5	15.8	
2.60°	15.7	16.7	14.5	16.9	17.2	
2.77°	16.8	17.8	15.6	18.0	18.3	
2.90°	17.7	18.7	16.4	18.8	19.2	
2.97°	18.1	19.1	16.9	19.3	19.6	
3.00°	18.3	19.3	17.1	19.5	19.8	
	SLICK	1 STAB	SLICK	1 STAB	SLICK	1 STAB

## FIXED HOUSING

Degrees / 100 ft (30 m)

BEND	6.00" HOLE SIZE	6.25" HOLE SIZE	6.75" HOLE SIZE	P R E D I C T E D		
1.50°	8.9	9.9	7.6	10.0	5.1	10.3
1.75°	10.5	11.5	9.3	11.7	6.8	12.0
1.90°	11.5	12.5	10.3	12.7	7.7	13.0
2.00°	12.2	13.2	10.9	13.3	8.4	13.7
2.12°	13.0	14.0	11.7	14.1	9.2	14.5
2.25°	13.8	14.8	12.6	15.0	10.1	15.3
2.50°	15.5	16.5	14.2	16.6	11.7	17.0
2.60°	16.1	17.1	14.9	17.3	12.4	17.6
	SLICK	1 STAB	SLICK	1 STAB	SLICK	1 STAB

Figures are for reference only. Stabilized build rates assume a lower stabilizer 0.125" undergauge. Actual performance may vary based on tool and operating conditions. Refer to temperature and mud scaling curves for optimal performance and reliability. Rotating above 1.50° may cause damage to the performance motor at certain RPM's. Running above 80% will be done so at client's risk. Contact your TPD EDGE representative to confirm ideal operating specifications. Updated August, 2017.