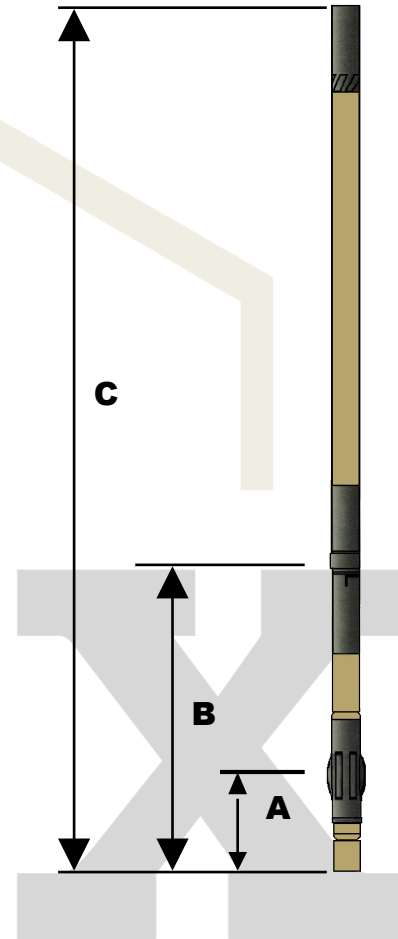




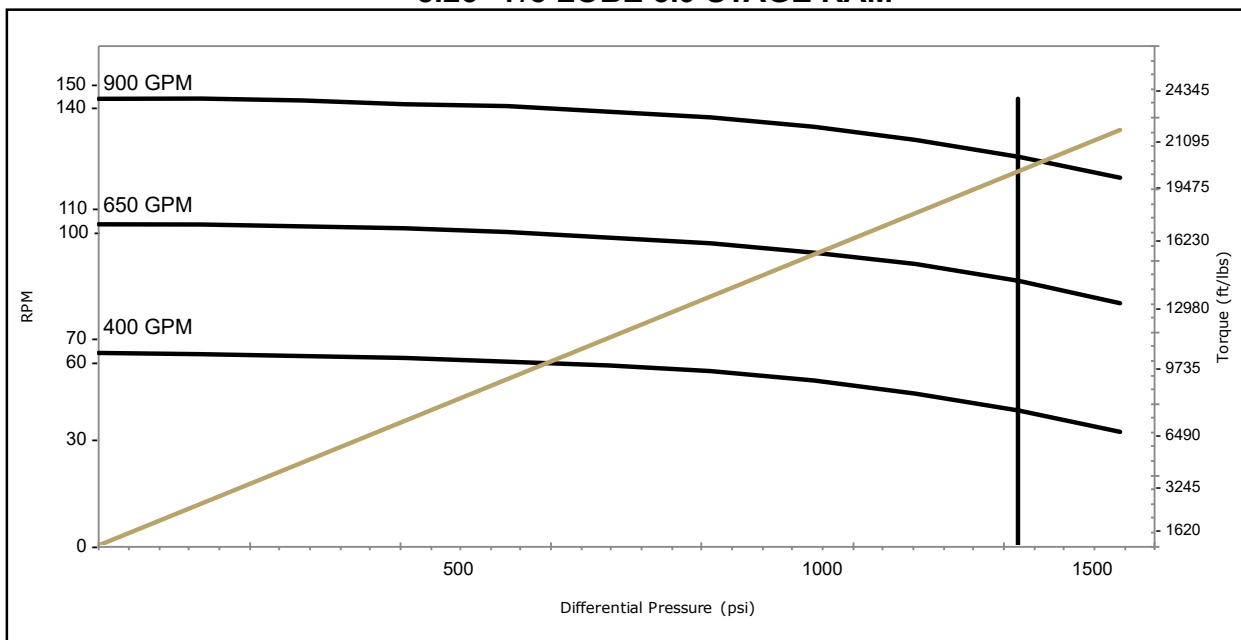
8.25" 7/8 5.9 Stage RAM

8.25" 7/8 5.9 Stage RAM	
Motor OD	8.25 inch
Lobe Configuration	7 - 8 Lobe 5.9 Stage
Bit Size Range	9 7/8 - 12 1/4 inches
Bit Box Connection	6 5/8 REGULAR
A = Bit to Stabalizer (Center)	24.50 inches
B = Bit to Bend - Fixed	69.0 inches
B = Bit to Bend - Adjustable	N/A
C = Overall (with Top Sub)	466.4 inches
Adjustable Makeup Torque	N/A
Weight	4,750 lbs
Max WOB - w/Flow	146,4900 lbs
Optimum WOB - w/Flow	73,245 lbs
Max WOB - w/o Flow	366,225 lbs
Max Bit Pull - w/Damage	732,880 lbs

Rev. Per Gallon	Flow Rate Range	Bit Speed Range	Torque Output	Max Diff Pressure
RPG	GPM	RPM	Ft. Lbs	PSI
0.16	400 - 900	60 - 140	21,870	1,390



8.25" 7/8 LOBE 5.9 STAGE RAM





8.25" 7/8 5.9 STAGE RAM								
CALCULATED BUILD UP RATES - DEGREES / 100ft. * (FIXED)								
Angle (Deg)	Hole Size (in) - Slick Sleeve				Hole Size (in) - Stabalized			
	9 7/8"	10 5/8"	12 1/4"		9 7/8"	10 5/8"	12 1/4"	
0.25	0.3				1.3	1.6	2.2	
0.50	1.3	0.7			2.5	2.8	3.4	
0.75	2.3	1.7	0.5		3.7	4.0	4.6	
1.00	3.4	2.8	1.5		4.9	5.2	5.8	
1.25	4.4	3.8	2.5		6.1	6.3	6.9	
1.50	5.5	4.9	3.6		7.2	7.5	8.1	
1.75	6.4	5.9	4.6		8.4	8.7	9.3	
2.00	7.4	6.8	5.7		9.6	9.9	10.5	
2.25	8.5	8.0	6.6		10.7	11.1	11.7	
2.50	9.5	9.0	7.6		12.0	12.3	12.9	
2.75	10.6	10.0	8.7		13.2	13.5	14.1	

DRILLING SOLUTIONS

* Actual Build Up Rates subject to varying factors; including formation, weight on bit, etc.