

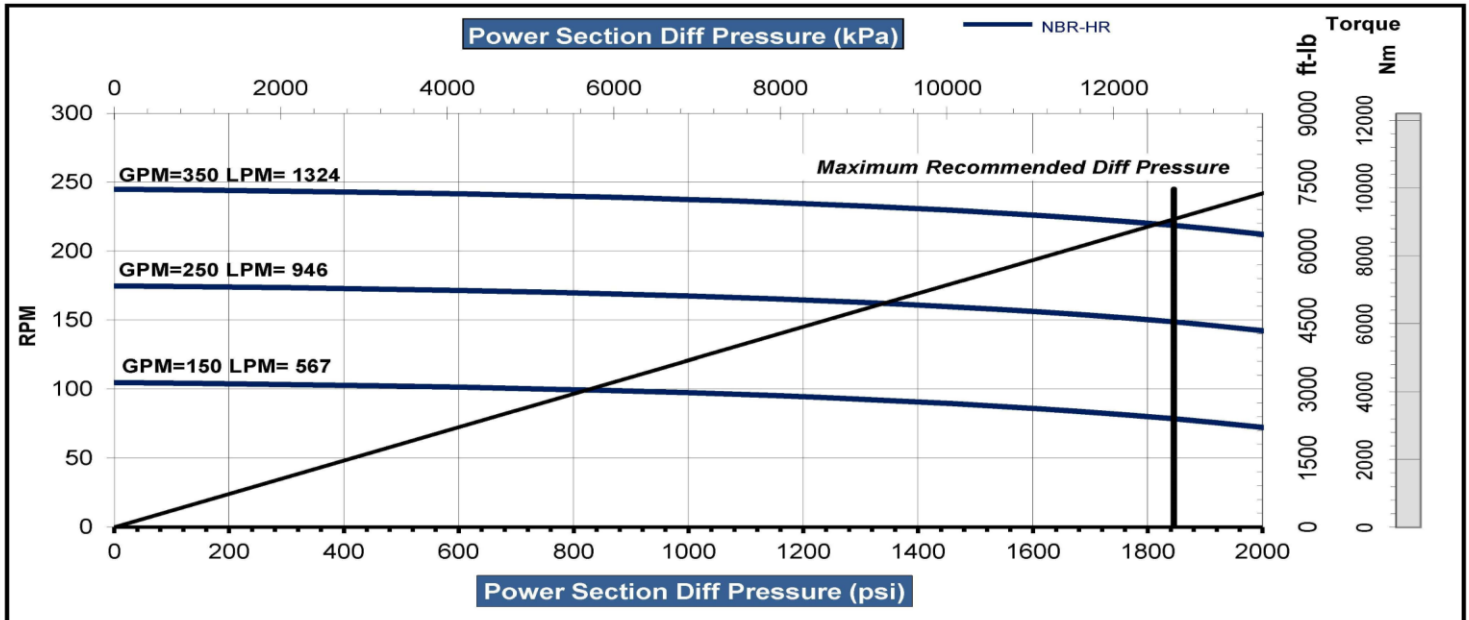


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SUPERHAWK 500 – 7:8 Profile 8.2 Stage HR - 5" O.D.

GENERAL DATA			
BIT SIZES	6" thru 7 7/8"	MAX. WOB – (w/flow)	40,500 lbs
BIT CONNECTION	3 ½ REG	OPTIMUM WOB - (w/flow)	20,250 Lbs
TOP CONNECTION	3 ½ IF	MAX. WOB – (w/o flow)	129,000 lbs
TORQUE - CONNECTIONS	9,250 ft-lb	MAX. BIT PULL – (w/damage)	200,000 lbs
TORQUE - ABH	10,000 ft-lb	MAX BODY PULL – (w/damage)	425,000 lbs

PHYSICAL PROPERTIES	
BIT TO BEND LENGTH (ABH)	63.38 in.
BIT TO BEND LENGTH (FIXED)	51.13 in.
NOMINAL LENGTH	353 in.
WEIGHT	1,600 lbs
PERFORMANCE DATA	
FLOW RANGE	15 - 350 gpm
SPEED RANGE	105 - 250 rpm
SPEED RATIO	.700 rev/gal
MAX. DIFFERENTIAL PRESSURE	1200 psi
TORQUE RATIO	3.631 ft-lb/psi
TORQUE AT MAX DIFFERENTIAL	6,700 ft-lbs
STALL TORQUE	10,050 ft-lbs



CALCULATED BUILD UP RATES – DEGREES / 100 ft.* (FIXED)								
Angle (Deg)	Hole Size (in) – Slick Sleeve				Hole Size (in) - Stabilized			
	6"	6 1/8"	6 3/4"	7 7/8"	6"	6 1/8"	6 3/4"	7 7/8"
0.25	2.7	2.5	1.7		1.2	1.3	1.7	2.3
0.50	4.0	3.8	3.0		2.7	2.8	3.2	3.8
0.75	5.3	5.1	4.3	2.7	4.3	4.3	4.7	5.3
1.00	6.6	6.4	5.5	4.0	5.8	5.8	6.2	6.8
1.25	7.8	7.7	6.8	5.3	7.3	7.3	7.7	8.3
1.50	9.1	9.0	8.1	6.6	8.8	8.8	9.2	9.8
1.75	10.4	10.2	9.4	7.9	10.3	10.3	10.7	11.3
2.00	11.7	11.5	10.7	9.2	11.8	11.8	12.2	12.8
2.25	13.0	12.8	12.0	10.5	13.3	13.3	13.7	14.3
2.50	14.3	14.1	13.3	11.8	14.8	14.9	15.2	15.8
2.75	15.6	15.4	14.6	13.0	16.3	16.4	16.7	17.4
3.00	16.8	16.7	15.8	14.3	17.8	17.9	18.2	18.9

CALCULATED BUILD UP RATES – DEGREES / 100 ft.* (ABH)								
Angle (Deg)	Hole Size (in) – Slick Sleeve				Hole Size (in) - Stabilized			
	6"	6 1/8"	6 3/4"	7 7/8"	6"	6 1/8"	6 3/4"	7 7/8"
0.25	1.3	1.1			1.2	1.3	1.6	2.3
0.50	2.6	2.4	1.8		2.7	2.7	3.1	3.8
0.75	3.9	3.7	3.1	2.1	4.1	4.2	4.6	5.2
1.00	5.2	5.0	4.4	3.4	5.6	5.6	6.0	6.7
1.25	6.5	6.3	5.7	4.7	7.0	7.1	7.5	8.1
1.50	7.8	7.6	7.0	6.0	8.5	8.6	8.9	9.6
1.75	9.1	8.9	8.3	7.3	9.9	10.0	10.4	11.0
2.00	10.4	10.2	9.6	8.6	11.4	11.5	11.8	12.5
2.25	11.7	11.5	10.9	9.9	12.9	12.9	13.3	13.9
2.50	13.0	12.8	12.2	11.2	14.3	14.4	14.7	15.4
2.75	14.3	14.1	13.5	12.4	15.8	15.8	16.2	16.9
3.00	15.6	15.4	14.8	13.7	17.2	17.3	17.7	18.3

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