

Blue Force® Motors

Custom motors designed to fit all your drilling needs

Imagine having a mud motor customized to your specific specifications, built to withstand all fluid types and temperatures and able to reduce your non-productive time. Nabors Blue Force® motors provide that solution.

Nabors Blue Force® motors are positive displacement motors ranging from 4 3/4" to 9 5/8" and designed to deliver accurate wellbores at a greater rate of penetration (ROP) in a wide variety of drilling applications. Customized to meet your specific application, Blue Force® motors provide operators with an increase in reliability and a reduction in overall drilling days.

ROBUST DESIGN

To reduce costs and make wells more economical, operators are pushing the technical limits of drilling equipment. Additional stresses to the mud motor can result in equipment failure, costly repairs and increased flat time. Nabors Blue Force® motors are designed to meet that challenge.

They feature:

- **Mud-lubricated bearings** that are not affected by mud type or temperature, ensuring reliable torque delivery
- **Fixed bend housing** are provided, and adjustable bend housing are available for wellsite adjustments
- **Short bit-to-bend design** enables the driller to achieve build rates with a reduced bend, minimizes stress while rotating in doglegs and reduces time spent in slide drilling mode
- **Heavy-duty transmission** accommodates high-torque power sections for a higher rate of penetration and enhances motor durability for reduced drilling time

CUSTOMIZED TO YOUR NEEDS

Blue Force® motors can be configured for specific applications using high performance power sections; including a lineup of exclusive premium power section options that deliver maximum horsepower to the bit.

When preparing to execute a job, our expert drilling team looks at temperature, type of drilling fluid, and if possible, samples of the fluid to check for elastomer compatibility. We also look at bit speed required, type of formation, rig capabilities and historical hole issues to determine the best power section for the job.

To optimize performance, we deliver a fit-for-purpose motor designed to finish the section in one run.



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Size	Configuration	Min Flow Rate	Max Flow Rate	Speed Ratio	Pressure Loss	Max Differential Pressure	Max Operating Torque	Horsepower	Torque Ratio	RPM at Max Flow	Stator Type
5	7/8 7.0	150	400	0.49	135	1870	4810	180	2.55	196	Conventional
5	6/7 8.8	150	400	0.68	208	2032	8014	415	3.70	272	Conventional
5	6/7 8.0	150	350	0.80	130	2100	5968	318	2.95	280	Conv / OptiFit
5	6/7 10.3	150	350	0.86	130	2450	7070	405	2.92	301	EvenTek
5	6/7 11.7	250	400	0.90	155	2724	7328	502	2.71	360	Conventional
6 5/8	7/8 5.0	300	650	0.27	137	1180	10650	356	9.06	176	Conventional
6 5/8	6/7 7.6	400	700	0.32	385	1808	14898	635	8.24	224	Conventional
6 3/4	4/5 7.0	300	600	0.50	184	1260	5571	318	4.64	300	Conventional
6 3/4	7/8 5.0	300	650	0.27	137	1180	10650	356	9.06	176	Conventional
6 3/4	7/8 6.4	300	650	0.27	110	1510	13630	455	9.06	176	Conventional
7	5/6 8.2	300	600	0.41	182	1715	9436	442	5.71	246	Conv / OptiFit
7	5/6 8.3	350	750	0.38	180	1960	13030	707	6.68	285	OptiFit
7	5/6 8.4	350	700	0.35	143	1643	11772	549	6.89	245	Conventional
7	6/7 6.5	400	750	0.23	120	1530	16680	548	10.95	173	Conventional
7	7/8 4.8	300	700	0.15	89	1080	18310	316	16.96	105	Conventional
7	7/8 6.9	300	700	0.25	219	1741	19009	633	10.10	175	Conventional
7	6/7 12.1	300	800	0.40	233	3030	19480	1187	6.44	320	DynamicFit
8	7/8 5.9	400	900	0.16	120	1390	21870	600	15.77	144	OptiFit
8	7/8 3.4	400	900	0.09	70	1260	22530	347	28.19	81	Conventional
8	7/8 4.0	400	900	0.16	126	940	14830	407	15.77	144	Conventional
9 5/8	6/7 5.0	600	1300	0.12	140	1180	23860	709	20.30	156	Conventional

BEND HOUSING LENGTHS					
Short BTB FBH		Standard BTB FBH		Standard BTB ABH	
4.75"	39"	4.75"	53"	4.75"	NA
5.00"	39"	5.00"	51"	5.00"	NA
6.50"	NA	6.50"	64"	6.50"	82.5"
6.75"	43"	6.75"	64"	6.75"	65"
7.00"	48"	7.00"	64"	7.00"	NA
7.25"	NA	7.25"	60"	7.25"	72"
8.00"	NA	8.00"	68.5"	8.00"	88.5"
9.63"	NA	9.63"	NA	9.63"	98"

