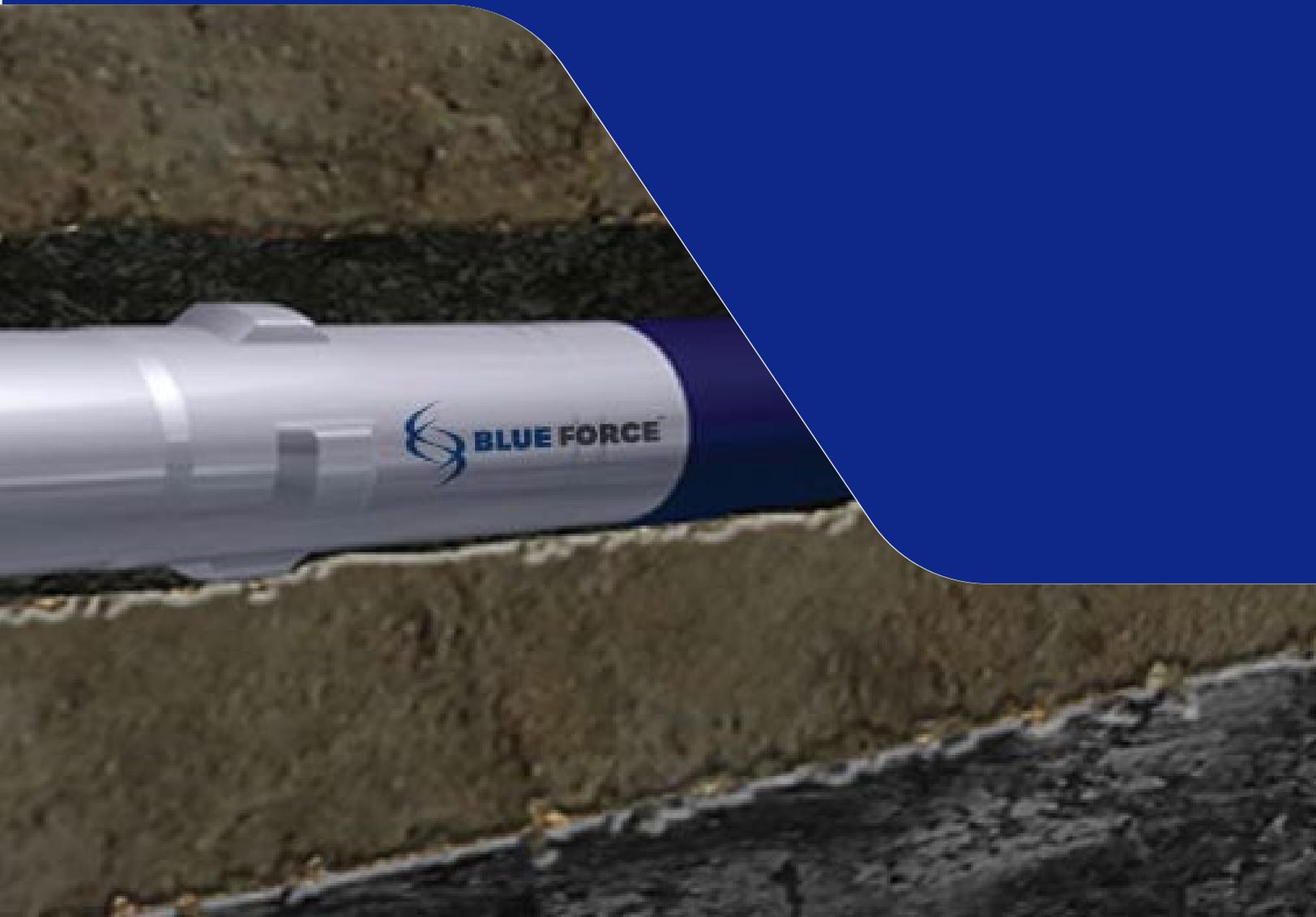


BlueForce® Motors

Custom motors designed to fit all your drilling needs



BlueForce® 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 BlueForce® motors provide that solution.

Nabors BlueForce® 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, BlueForce® motors provide operators with an increase in reliability and a reduction in overall drilling days.

ROBUST DESIGN

In order 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 BlueForce® 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 higher rate of penetration and enhances motor durability for reduced drilling time

CUSTOMIZED TO YOUR NEEDS

BlueForce® 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.

Blue Force® Motor

Custom motors designed to fit all your drilling needs

| 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" |



Blue Force® Mud Motor