

# DynaForce Flex

## Shale drilling motor

### APPLICATIONS

- High-dogleg-severity (DLS) horizontal drilling
- Shoe-to-shoe shale drilling

### ADVANTAGES

- Drills vertical, curve, and lateral sections in a single run
- Eliminates planned trips in high-DLS horizontal wells
- Features the latest high-performance power sections
- Delivers increased ROP and reduces drilling time

The DynaForce Flex\* shale drilling motor provides an efficient option for drilling high-dogleg horizontal wells. The DynaForce Flex motor is designed to drill the vertical, curve, and lateral in a single run, eliminating trips and reducing drilling time. With its heavy duty transmission, the DynaForce Flex motor harnesses the latest high-performance power sections, delivering increased ROP to further reduce drilling time.

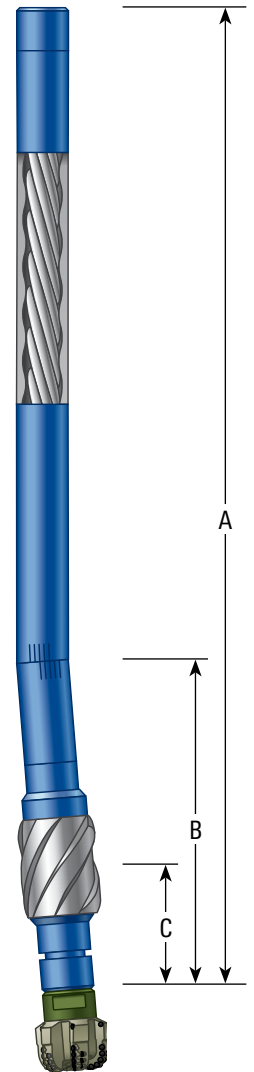
### Specifications<sup>†</sup>

Steering capability	17°/100 ft
Bit size	8 <sup>3</sup> / <sub>8</sub> –9 <sup>7</sup> / <sub>8</sub> in
Bottom connection	4 <sup>1</sup> / <sub>2</sub> Reg 4 <sup>1</sup> / <sub>2</sub> IF 6 <sup>5</sup> / <sub>8</sub> Reg
Top connection	4 <sup>1</sup> / <sub>2</sub> IF 6 <sup>5</sup> / <sub>8</sub> Reg
Nominal length (A)	Dependent on power section length
Bit box to fixed bend (B)	3.5 ft
Bit box to center of stabilizer (C)	2.1 ft
Operating flow range	200–800 galUS/min
Max. WOB with flow (no motor damage)	55,000 lbf
Max. operating torque	30,000 ft.lbf
Absolute overpull (motor damage will occur)	1,070,000 lbf
Working overpull (no motor damage)	192,000 lbf
Lost circulation material tolerance	Medium nut plug (35 lbm/bbl)
Max. sand content	2% by volume
Max. mud weight	18 ppg
Bearing housing stabilizer	Slick or IB

### Power Section Lengths

	Lobe	Stage	Length
	4:5	7.0	17 <sup>1</sup> / <sub>2</sub> ft
	7:8	5.0	16 <sup>1</sup> / <sub>2</sub> ft
	7:8	5.7	21 ft

<sup>†</sup>Schlumberger can provide assessment of the critical rpms for different bottomhole assemblies configurations using the IDEAS\* integrated drillbit design platform.



[slb.com/DynaForce](http://slb.com/DynaForce)

**Schlumberger**