

# TorqForce

## Ruggedized steerable motor

### APPLICATIONS

- Directional drilling
- Sidetracking
- Performance drilling
- Reentry drilling
- Coring and milling
- Hole opening

### ADVANTAGES

- Improve reliability and torque at bit with rugged lower end
- Configure with wide range of power sections
- Increase ROP without increasing drillstring fatigue
- Reduce drillpipe and casing wear
- Extend run lengths

The TorqForce\* ruggedized steerable motor helps you stay in hole longer with superior torque-to-bit capacity. This motor's high torque capability increases reliability and allows you to improve ROP in a variety of drilling applications.

Mechanical	675		
Collar OD, in	6¾		
Bit size, in	8¾–9¾		
Bottom thread connection	4½ Reg box and pin		
	4½ IF box and pin		
	6¾ Reg box		
Top thread connection	4½ Reg box and pin		
	4½ IF box		
	4½ X-Hole box		
Tool length, ft [m]			
Nominal length (A)	Dependent of power section length		
Bit box to fixed bend (B)	5 [1.5]		
Bit box to adjustable bend (B)	6.6 [2.0]		
Bit box to center of stabilizer (C)	2.7 [0.8]		
Power section lengths <sup>†</sup>	Lobe	Stage	Length
	4:5	7.0	17.5 ft
	7:8	3.5	21.6 ft
	7:8	5.0	16.2 ft
	7:8	5.7	21.0 ft
Bearing housing stabilizer	Slick		
	Sleeve straight		
	Integral blade straight and spiral		
Adjustable bend settings	0, 0.39, 0.78, 1.15, 1.50, 1.83, 2.12, 2.38, 2.60, 2.77, 2.89, 2.97, and 3.00		

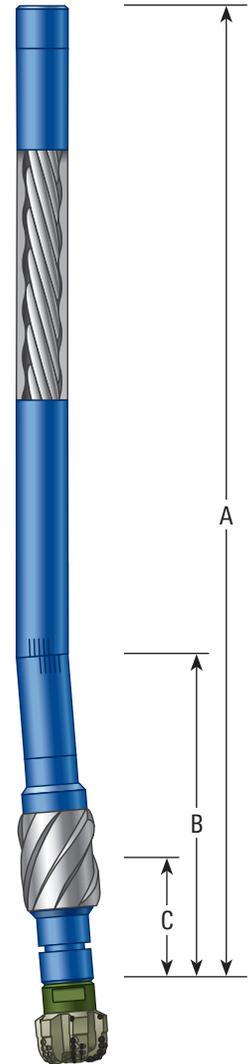
### Mechanical Operations

Operating flow range, galUS/min	300 to 600
Max. WOB with flow, lbf [kg]	50,000 [22,680]
Max. operating torque ft.lbf	18,000
Absolute overpull (tension), lbf	125,000

### Mud properties

Max. lost circulation material, lbf/bbl	35 (medium nut plug)
Max. sand content, %	2
Max. mud weight, lbf/galUS	18

<sup>†</sup> Visit [dyna-drill.com/powersections](http://dyna-drill.com/powersections) for a complete list of available power sections and detailed tool specifications for each.



TorqForce motor.