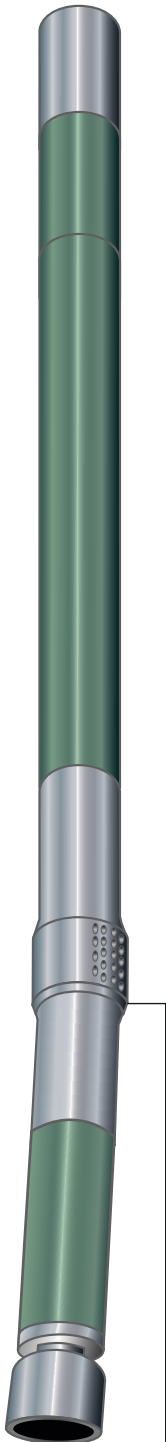


Drilling motors – Technical data
Mud Motors – 3 1/8" – 5/6 lobe 3.0 stage


Motor specifications (PH-312-560-30)		
	Imperial	Metric
Tool OD	3.125"	79 mm
Weight	176 lbs	80 kg
Length	12.1 ft	367.7 cm
Lobe configuration	5/6 lobe	
Number of stages	3.0 stage	
Bit speed at full load	121 - 432 rpm	
Flow rate	43 - 153 gpm	162 - 578 l/min
Rotation	2.82 rev/gal	0.747 rev/lit
Maximum torque	768 ft-lbs	1,040 Nm
Output torque	545 ft-lbs	738 Nm
Maximum power	54 hp	40 kW
Bit to bend	35"	888 mm
Working diff. pressure	489 psi	33.6 bar
Max diff. pressure	691 psi	47.5 bar
Maximum bit pressure drop	1,500 psi	103 bar
Maximum WOB	7,000 lbs	3,175 kg
Maximum pull to re-run motor	65,170 lbs	29,560 kg
HSG Max allowable pull	94,380 lbs	42,810 kg
Top connection (Box)	2 3/8" reg.	
Bit connection (Box)	2 3/8" reg.	

Predicted build radius (m)

Bend angle	Slick bearing housing		
	Hole size		
	3 7/8"	4 1/4"	4 1/2"
0.31			
0.62			
0.93	5720		
1.22	310		
1.50	160	370	2120
1.76	110	190	320
2.00	90	130	180
2.23	70	100	130
2.42	70	80	100
2.60	60	70	90
2.74	60	70	80
2.85	50	60	70
2.93	50	60	70
2.98	50	60	70
3.00	50	60	60