

# TURBO SCOUT® Motors

## SPECIFICATIONS



### Diamond Mud Lube Specifications

Specifications	Tool Size			
	5" (127 mm)	6-1/2" (165 mm)	8" (203 mm)	9-5/8" (244 mm)
Hole Size	5-7/8" - 6-3/4" (149 mm - 171 mm)	7-7/8" - 9-7/8" (200 mm - 251 mm)	9-7/8" - 12-1/4" (251 mm - 311 mm)	12-1/4" - 24" (311 mm - 610 mm)
Bit Box	3-1/2" Reg	4-1/2" Reg	6-5/8" Reg	6-5/8" - 7 -5/8" Reg
Mandrel Bore	1-1/4" (32 mm)	1-1/2" (38 mm)	2" (51 mm)	2-1/2" (64 mm)
Maximum Flow Rates	500 gpm (1,893 l/min)	750 gpm (2,839 l/min)	1,300 gpm (4,921 l/min)	2,000 gpm (7,571 l/min)
Maximum WOB - Dynamic	43,000 lbs (19,127 daN)	58,000 lbs (25,800 daN)	86,000 lbs (38,255 daN)	160,000 lbs (71,172 daN)
Maximum WOB - Static	106,000 lbs (47,151 daN)	170,000 lbs (75,620 daN)	240,000 lbs (106,757 daN)	450,000 lbs (200,170 daN)
Maximum Bit Overpull	158,000 lbs (70,282 daN)	290,000 lbs (128,998 daN)	396,000 lbs (176,150 daN)	600,000 lbs (266,893 daN)
Absolute Overpull	386,000 lbs (171,701 daN)	820,000 lbs (364,754 daN)	990,000 lbs (440,374 daN)	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	19,000 ft-lbs (25,761 Nm)	38,500 ft-lbs (52,199 Nm)	55,000 ft-lbs (74,570 Nm)	134,500 ft-lbs (182,358 Nm)
Bit to Bend - Fixed	42" (1,066 mm)	36" (914 mm)	47" (1,193 mm)	56-1/2" (1,435 mm)
Bit to Bend - Adjustable	55-15/16" (1,421 mm)	56" (1,422 mm)	70" (1,778 mm)	83" (2,108 mm)

### Oil Sealed Specifications

Specifications	Tool Size		
	4-3/4" (121 mm)	8" (203 mm)	9-5/8" (244 mm)
Hole Size	5-7/8" - 6 3/4" (149 mm - 171 mm)	9-7/8" - 12-1/4" (251 mm - 311 mm)	12-1/4" - 24" (311 mm - 610 mm)
Bit Box	3-1/2" Reg	6-5/8" Reg	6-5/8" - 7-5/8" Reg
Mandrel Bore	1-1/4" (32 mm)	2" (51 mm)	2-1/2" (64 mm)
Maximum Flow Rates	500 gpm (1,893 l/min)	1,300 gpm (4,921 l/min)	2,000 gpm (7,571 l/min)
Maximum WOB - Dynamic	41,500 lbs (18,460 daN)	86,000 lbs (38,255 daN)	160,000 lbs (71,172 daN)
Maximum WOB - Static	101,000 lbs (44,927 daN)	230,000 lbs (102,309 daN)	430,000 lbs (191,274 daN)
Maximum Bit Overpull	151,500 lbs (67,391 daN)	396,000 lbs (176,150 daN)	600,000 lbs (266,893 daN)
Absolute Overpull	378,000 lbs (168,143 daN)	990,000 lbs (440,374 daN)	1,500,000 lbs (667,233 daN)
Bearing Section Torque Capacity	12,500 ft-lbs (16,948 Nm)	55,000 ft-lbs (74,570 Nm)	134,500 ft-lbs (182,358 Nm)
Bit to Bend - Fixed	44-1/2" (1,130 mm)	63-1/4" (1,607 mm)	64-1/4" (1,632 mm)
Bit to Bend - Adjustable	57-5/8" (1,464 mm)	86-1/4" (2,191 mm)	91-1/8" (2,315 mm)



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### Ball & Race Mud Lube Specifications

Specifications	Tool Size					
	5" (127 mm)	5-3/4" (146 mm)	6-1/2" (165 mm)	7-1/8" (181 mm)	8" (203 mm)	9-5/8" (244 mm)
Hole Size	6" - 7-7/8" (152 mm - 200 mm)	6-3/4" - 7-7/8" (171 mm - 200 mm)	7-7/8" - 9-7/8" (200 mm - 229 mm)	8-3/8" - 9-7/8" (213 mm - 251 mm)	9-7/8" - 12-1/4" (251 mm - 311 mm)	12 1/4" - 24" (311 mm - 609 mm)
Bit Box	3-1/2" Reg	3-1/2" Reg	4-1/2" Reg	4-1/2" Reg	6-5/8" Reg	6 5/8" -7-5/8" Reg
Mandrel Bore	1" (25 mm)	1-1/4" (32 mm)	1-1/2" (38 mm)	1-1/2" (38 mm)	2" (51 mm)	2-1/2" (64 mm)
Maximum Flow Rates	350 gpm (1,325 l/min)	500 gpm (1,893 l/min)	750 gpm (2,839 l/min)	750 gpm (2,839 l/min)	1,300 gpm (4,921 l/min)	2,000 gpm (7,571 l/min)
Maximum WOB - Dynamic	36,000 lbs (16,014 daN)	41,500 lbs (18,460 daN)	56,000 lbs (24,910 daN)	58,000 lbs (25,800 daN)	81,000 lbs (36,031 daN)	152,000 lbs (67,613 daN)
Maximum WOB - Static	101,000 lbs (44,927 daN)	116,000 lbs (51,599 daN)	160,000 lbs (71,172 daN)	164,000 lbs (72,951 daN)	228,000 lbs (101,419 daN)	427,000 lbs (189,939 daN)
Maximum Bit Overpull	125,000 lbs (55,603 daN)	132,000 lbs (58,717 daN)	197,000 lbs (87,630 daN)	202,000 lbs (89,854 daN)	282,000 lbs (125,440 daN)	1,410,200 lbs (627,288 daN)
Absolute Overpull	535,000 lbs (237,980 daN)	615,000 lbs (273,566 daN)	845,000 lbs (375,875 daN)	865,000 lbs (384,771 daN)	1,206,000 lbs (536,456 daN)	2,259,000 lbs (1,004,853 daN)
Bearing Section Torque Capacity	14,000 ft-lbs (18,981 Nm)	19,000 ft-lbs (25,761 Nm)	35,000 ft-lbs. (47,454 Nm)	43,000 ft-lbs (58,300 Nm)	55,000 ft-lbs (74,570 Nm)	117,000 ft-lbs (158,631 Nm)
Bit to Bend - Fixed	48" (1,219 mm)	48" (1,219 mm)	48" (1,219 mm)	48" (1,219 mm)	65" (1,651 mm)	73-1/8" (1,857 mm)
Bit to Bend - Adjustable	62" (1,574 mm)	N/A	67-7/8" (1,724 mm)	69-1/4" (1,759 mm)	88" (2,235 mm)	99 3/4" (2,534 mm)

