



TITAN Drill Motors

Motor Specifications Summary Table

Motor Size	Lobe Ratio	Number of Stages	Length	Weight (lbs.)	Max. Flow (gpm)	Max. RPM (off bottom)	Max. Rec. Diff. Press. (psi)	Optimum Diff. Press. (psi)	Max. Rec. Bit Press. Drop (psi)	Full Load Torque (ft-lbs.)	Torque to Diff. Press. Ratio	Max. Rec. WOB (lbs.)	Overpull To Yield Motor (lbs.)	Recommended Hole Size
3.50"	4:5	5.0	14 ft 4 in	420	125	395	650	100 - 500	500	580	0.9	10,000	75,000	4 1/16 – 4 3/4 in
3.50" XT	7:8	4.3	15 ft 11 in	460	125	230	690	100 - 550	500	1,000	1.4	10,000	75,000	4 1/16 – 4 3/4 in
3.75"	1:2	4.4	21 ft 3 in	550	150	630	480	100 - 400	500	345	0.7	15,000	90,000	4 3/4 – 5 7/8 in
3.75"	4:5	3.5	16 ft 9 in	510	160	260	410	100 - 320	500	720	1.8	15,000	90,000	4 3/4 – 5 7/8 in
3.75"	7:8	2.3	16 ft 9 in	530	175	155	225	100 - 200	500	680	3.0	15,000	90,000	4 3/4 – 5 7/8 in
	7:8	2.3	16 ft 9 in	530	N/A	150	225	100 - 200	500	680	3.0	15,000	90,000	4 3/4 – 5 7/8 in
3.75" SR	7:8	3.5	11 ft 7 in	440	200	380	410	100 - 310	500	560	1.4	15,000	90,000	4 3/4 – 5 7/8 in
3.75" SE	7:8	6.7	20 ft 6 in	650	160	262	975	100 - 750	500	1,600	1.6	15,000	90,000	4 3/4 – 5 7/8 in
4.75"	1:2	3.0	19 ft 8 in	825	200	460	310	100 - 275	750	405	1.3	20,000	120,000	5 7/8 – 7 7/8 in
4.75" SE	1:2	7.6	25 ft 2 in	950	250	810	860	100 - 650	750	800	0.9	20,000	120,000	5 7/8 – 7 7/8 in
4.75"	4:5	3.5	16 ft 6 in	700	325	330	400	100 - 345	750	1,185	3.0	20,000	120,000	5 7/8 – 7 7/8 in
4.75" ERT	4:5	3.6	23 ft 6 in	1,015	300	320	See Graph	See Spec. Sheet	750	4,000	Nonlinear	20,000	120,000	5 7/8 – 7 7/8 in
4.75" XT	4:5	6.0	22 ft 4 in	975	325	330	775	100 - 600	750	2,100	2.7	20,000	120,000	5 7/8 – 7 7/8 in
4.75" SR	7:8	2.0	20 ft 11 in	530	275	280	190	100 - 150	750	490	2.6	20,000	120,000	5 7/8 – 7 7/8 in
4.75" Air	7:8	2.0	20 ft 7 in	975	N/A	90	215	50 - 190	750	1,725	8.0	20,000	120,000	5 7/8 – 7 7/8 in
4.75"	7:8	2.2	17 ft 5 in	700	325	175	235	100 - 200	750	1,170	5.0	20,000	120,000	5 7/8 – 7 7/8 in
4.75" SE	7:8	3.1	26 ft 7 in	1,200	275	90	400	100 - 300	750	3,300	8.3	20,000	120,000	5 7/8 – 7 7/8 in
4.75" XT	7:8	3.8	23 ft 4 in	1,000	325	190	400	100 - 300	750	1,800	4.5	20,000	120,000	5 7/8 – 7 7/8 in
6.25" XT	7:8	4.8	27 ft 8 in	1,600	400	135	680	100 - 575	1,000	5,300	7.8	40,000	160,000	7 7/8 – 8 3/4 in
6.50"	1:2	3.0	23 ft	1,700	500	485	275	100 - 225	1,000	860	3.1	50,000	210,000	7 7/8 – 9 7/8 in
6.50"	4:5	4.8	21 ft	1,600	600	350	575	100 - 450	1,000	3,250	5.7	50,000	210,000	7 7/8 – 9 7/8 in
6.50" XT	4:5	7.0	26 ft 8 in	2,000	600	348	875	100 - 650	1,000	5,100	5.8	50,000	210,000	7 7/8 – 9 7/8 in
6.50" ERT	6:7	2.2	25 ft 8 in	1,900	500	117	See Graph	See Spec. Sheet	1,000	9,500	Nonlinear	50,000	210,000	7 7/8 – 9 7/8 in
6.50" ERT	6:7	2.7	28 ft 5 in	2,150	500	112	See Graph	See Spec. Sheet	1,000	11,500	Nonlinear	50,000	210,000	7 7/8 – 9 7/8 in
6.50" ERT	6:7	3.1	19 ft 11 in	1,500	650	240	See Graph	See Spec. Sheet	1,000	9,000	Nonlinear	50,000	210,000	7 7/8 – 9 7/8 in
6.50"	7:8	2.0	22 ft	1,790	600	108	212	100 - 150	1,000	3,700	17.5	50,000	210,000	7 7/8 – 9 7/8 in
6.50" Air	7:8	2.0	23 ft 4 in	2,050	N/A	90	225	50 - 200	1,000	4,200	18.7	50,000	210,000	7 7/8 – 9 7/8 in
6.50"	7:8	3.0	21 ft	1,600	600	198	375	100 - 300	1,000	3,200	8.5	50,000	210,000	7 7/8 – 9 7/8 in
6.50" SE	7:8	3.3	29 ft 8 in	2,400	600	99	410	100-310	1,000	7,800	19.0	50,000	210,000	7 7/8 – 9 7/8 in
6.50" Air	7:8	3.3	29 ft 8 in	2,660	N/A	100	450	100 - 375	1,000	8,200	18.2	50,000	210,000	7 7/8 – 9 7/8 in



Motor Size	Lobe Ratio	Number of Stages	Length	Weight (lbs.)	Max. Flow (gpm)	Max. RPM (off bottom)	Max. Rec. Diff. Press. (psi)	Optimum Diff. Press. (psi)	Max. Rec. Bit Press. Drop (psi)	Full Load Torque (ft-lbs.)	Torque to Diff. Press. Ratio	Max. Rec. WOB (lbs.)	Overpull To Yield Motor (lbs.)	Recommended Hole Size
6.50" XT	7:8	5.0	25 ft 5 in	2,050	600	195	675	100 - 575	1,000	6,400	9.5	50,000	210,000	7 7/8 – 9 7/8 in
6.50"	8:9	3.0	19 ft	1,600	500	122	410	100 - 310	1,000	4,400	10.7	50,000	210,000	7 7/8 – 9 7/8 in
6.75"	1:2	3.0	23 ft	1,900	500	485	275	100 - 225	1,000	860	3.1	50,000	210,000	8 1/2 – 9 7/8 in
6.75"	4:5	4.8	21 ft	1,785	600	350	575	100 - 450	1,000	3,250	5.7	50,000	210,000	8 1/2 – 9 7/8 in
6.75" XT	4:5	7.0	26 ft 8 in	2,240	600	348	875	100 - 650	1,000	5,100	5.8	50,000	210,000	8 1/2 – 9 7/8 in
6.75" Air	7:8	2.0	23 ft 4 in	2,260	N/A	90	225	50 - 200	1,000	4,200	18.7	50,000	210,000	8 1/2 – 9 7/8 in
6.75"	7:8	3.0	21 ft	1,750	600	198	375	100 - 300	1,000	3,200	8.5	50,000	210,000	8 1/2 – 9 7/8 in
6.75" SE	7:8	3.3	29 ft 8 in	2,560	700	99	410	100 - 310	1,000	7,800	19.0	50,000	210,000	8 1/2 – 9 7/8 in
6.75" Air	7:8	3.3	29 ft 8 in	2,930	N/A	100	450	100 - 375	1,000	8,200	18.2	50,000	210,000	8 1/2 – 9 7/8 in
6.75" XT	7:8	5.0	25 ft 5 in	2,270	600	195	675	100 - 575	1,000	6,400	9.5	50,000	210,000	8 1/2 – 9 7/8 in
6.75"	8:9	3.0	19 ft	1,770	500	122	410	100 - 310	1,000	4,400	10.7	50,000	210,000	8 1/2 – 9 7/8 in
7.25" SE	7:8	7.7	33 ft 6 in	2,800	750	230	1,100	100 - 850	1,000	9,600	8.7	50,000	220,000	8 1/2 – 9 7/8 in
7.75" XT	4:5	5.3	31 ft	3,725	1,000	250	640	100 - 550	1,000	7,100	11.1	65,000	240,000	9 1/2 – 13 1/2 in
7.75"	7:8	3.0	25 ft 5 in	3,250	1,000	162	320	100 - 250	1,000	5,200	16.3	65,000	240,000	9 1/2 – 13 1/2 in
7.75" XT	7:8	4.0	29 ft	3,575	1,000	160	470	100 - 350	1,000	7,800	16.6	65,000	240,000	9 1/2 – 13 1/2 in
7.75"	9:10	3.0	21 ft 3 in	3,050	600	138	360	100 - 280	1,000	4,000	11.1	65,000	240,000	9 1/2 – 13 1/2 in
8.0" XT	4:5	5.3	31 ft	4,050	1,000	250	640	100 - 550	1,000	7,100	11.1	65,000	240,000	9 1/2 – 13 1/2 in
8.0"	7:8	3.0	25 ft 5 in	3,450	1,000	162	320	100 - 250	1,000	5,200	16.3	65,000	240,000	9 1/2 – 13 1/2 in
8.0" XT	7:8	4.0	29 ft	3,710	1,000	160	470	100 - 350	1,000	7,800	16.6	65,000	240,000	9 1/2 – 13 1/2 in
8.0"	9:10	3.0	21 ft 3 in	3,275	600	138	360	100 - 280	1,000	4,000	11.1	65,000	240,000	9 1/2 – 13 1/2 in
9 5/8"	1:2	4.0	25 ft 6 in	4,200	800	390	360	100 - 300	1,000	2,220	6.2	100,000	490,000	12 1/4 – 26 in
9 5/8"	3:4	4.5	29 ft	4,900	1,500	340	470	100 - 400	1,000	6,100	13.0	100,000	490,000	12 1/4 – 26 in
9 5/8" XT	3:4	6.0	34 ft	5,840	1,500	340	675	100 - 550	1,000	8,700	12.9	100,000	490,000	12 1/4 – 26 in
9 5/8"	5:6	3.0	29 ft	5,350	1,500	166	285	100 - 225	1,000	7,100	24.9	100,000	490,000	12 1/4 – 26 in
9 5/8" SE	7:8	5.7	35 ft	6,400	1,500	186	720	100 - 600	1,000	15,600	21.7	100,000	490,000	12 1/4 – 26 in
9 5/8"	9:10	3.0	23 ft 4 in	4,200	800	128	450	100 - 350	1,000	6,900	15.3	100,000	490,000	12 1/4 – 26 in
11.5" XT	3:4	3.6	33 ft 4 in	7,200	2,000	235	325	100 - 250	1,000	8,000	24.6	130,000	1,120,000	14 3/4 – 36 in

XT – Extended

SE – Super Extended

SR – Short Radius

ERT – Thunder Motor ERT™ (Even Rubber Thickness) ERT is a trademark of R&M Energy Systems

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