



Motor Specifications Summary Table

Motor Size	Lobe Ratio	No. 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
							Standard Rubber	Premium Rubber	Standard Rubber	Premium Rubber		Standard Rubber	Premium Rubber				
3.50"	4:5	5.0	14' 4"	420	125	390	650	820	100-500	100-770	500	580	720	0.9	10,000	75,000	4 1/16" - 4 3/4"
3.50" XT	7:8	4.3	15' 11"	460	125	230	690	875	100-600	100-800	500	1,000	1,225	1.4	10,000	75,000	4 1/16" - 4 3/4"
3.75"	1:2	4.4	21' 3"	550	150	630	480	620	100-400	100-530	500	345	440	0.71	15,000	90,000	4 3/4" - 5 7/8"
3.75"	4:5	3.5	16' 9"	510	160	260	410	520	100-320	100-450	500	720	900	1.7	15,000	90,000	4 3/4" - 5 7/8"
3.75"	7:8	2.3	16' 9"	530	175	155	240	290	100-200	100-250	500	680	870	3.0	15,000	90,000	4 3/4" - 5 7/8"
3.75" Air	7:8	2.3	16' 9"	530	N/A	150	235	290	100-200	100-275	500	700	900	3.0	15,000	90,000	4 3/4" - 5 7/8"
3.75" SR	7:8	3.5	11' 7"	440	200	380	410	510	100-310	100-470	500	560	720	1.4	15,000	90,000	4 3/4" - 5 7/8"
3.75" SE	7:8	6.7	20' 6"	650	160	262	975	1225	100-750	100-1175	500	1,600	2,000	1.6	15,000	90,000	4 3/4" - 5 7/8"
4.75"	1:2	3.0	19' 8"	825	200	460	310	390	100-275	100-350	750	405	500	1.3	20,000	120,000	5 7/8" - 7 7/8"
4.75" SE	1:2	7.6	25' 2"	950	250	810	860	1,075	100-650	100-1000	750	800	1,000	0.9	20,000	120,000	5 7/8" - 7 7/8"
4.75"	4:5	3.5	16' 6"	700	325	330	400	500	100-345	100-450	750	1,120	1,400	3.0	20,000	120,000	5 7/8" - 7 7/8"
4.75" TH	4:5	3.6	23' 6"	1,015	300	320	N/A	900	N/A	100-850	750	N/A	2,750	3.1	20,000	120,000	5 7/8" - 7 7/8"
4.75" XT	4:5	6.0	22' 4"	975	325	330	775	975	100-600	100-900	750	2,100	2,600	2.7	20,000	120,000	5 7/8" - 7 7/8"
4.75" TH	6:7	2.5	28'	1,130	325	146	N/A	600	N/A	100-550	750	N/A	3,400	5.7	20,000	120,000	5 7/8" - 7 7/8"
4.75" SR	7:8	2.0	13' 2"	700	275	280	190	240	100-150	100-200	750	490	625	2.6	20,000	120,000	5 7/8" - 7 7/8"
4.75" Air	7:8	2.0	20' 7"	975	N/A	90	215	270	50-190	50-250	750	1,725	2,160	8.0	20,000	120,000	5 7/8" - 7 7/8"
4.75"	7:8	2.2	17' 5"	700	325	175	235	285	100-200	100-250	750	1,170	1,425	5.0	20,000	120,000	5 7/8" - 7 7/8"
4.75" SE	7:8	3.1	26' 7"	1,200	275	90	400	500	100-300	100-450	750	3,300	4,150	8.3	20,000	120,000	5 7/8" - 7 7/8"
4.75" TH	7:8	3.8	23'	865	250	130	N/A	950	N/A	100-850	750	N/A	5,000	5.3	20,000	120,000	5 7/8" - 7 7/8"
4.75" XT	7:8	3.8	23' 4"	1,000	325	190	450	575	100-400	100-525	750	2,100	2,600	4.5	20,000	120,000	5 7/8" - 7 7/8"
6.25" XT	7:8	4.8	27' 8"	1,600	500	170	650	820	100-575	100-775	1,000	5,000	6,200	7.7	40,000	160,000	7 7/8" - 8 3/4"
6.50"	1:2	3.0	23'	1,700	600	575	275	340	100-225	100-300	1,000	860	1,050	3.1	50,000	210,000	7 7/8" - 9 7/8"
6.50"	4:5	4.8	21'	1,600	600	300	575	720	100-450	100-650	1,000	3,250	4,100	5.7	50,000	210,000	7 7/8" - 9 7/8"
6.50" XT	4:5	7.0	26' 8"	2,000	600	300	875	1,125	100-750	100-1050	1,000	5,100	6,500	5.8	50,000	210,000	7 7/8" - 9 7/8"
6.50" TH	6:7	2.2	25' 8"	1,900	500	117	N/A	650	N/A	550	1,000	N/A	7,500	11.5	50,000	210,000	7 7/8" - 9 7/8"
6.50" TH	6:7	2.7	28' 5"	2,150	500	112	N/A	700	N/A	600	1,000	N/A	8,700	12.4	50,000	210,000	7 7/8" - 9 7/8"
6.50" TH	6:7	3.1	19' 11"	1,500	650	240	N/A	800	N/A	700	1,000	N/A	6,100	7.6	50,000	210,000	7 7/8" - 9 7/8"
6.50"	7:8	2.0	22'	1,790	600	90	212	275	100-150	100-225	1,000	3,700	4,800	17.5	50,000	210,000	7 7/8" - 9 7/8"
6.50" Air	7:8	2.0	23' 4"	2,050	N/A	90	190	240	50-170	50-210	1,000	3,500	4,500	18.4	50,000	210,000	7 7/8" - 9 7/8"
6.50"	7:8	3.0	21'	1,600	600	170	360	450	100-300	100-425	1,000	3,300	4,200	9.3	50,000	210,000	7 7/8" - 9 7/8"
6.50" SE	7:8	3.3	29' 8"	2,400	600	85	410	510	100-310	100-475	1,000	7,800	9,700	19.0	50,000	210,000	7 7/8" - 9 7/8"





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Motor Size	Lobe Ratio	No. 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
							Standard Rubber	Premium Rubber	Standard Rubber	Premium Rubber		Standard Rubber	Premium Rubber				
6.50" Air	7:8	3.3	29' 8"	2,660	N/A	100	420	520	100-375	100-480	1,000	7,800	9,800	18.2	50,000	210,000	7 7/8" - 9 7/8"
6.50" XT	7:8	5.0	25' 5"	2,050	600	168	675	850	100-575	100-800	1,000	6,400	8,000	9.5	50,000	210,000	7 7/8" - 9 7/8"
6.50" SE	7:8	6.4	29' 8"	2,600	600	168	900	1,125	100-700	100-1050	1,000	8,500	10,500	9.4	50,000	210,000	7 7/8" - 9 7/8"
6.50"	8:9	3.0	19'	1,600	500	122	410	510	100-310	100-470	1,000	4,400	5,500	10.7	50,000	210,000	7 7/8" - 9 7/8"
6.75"	1:2	3.0	23'	1,900	600	580	275	340	100-225	100-300	1,000	860	1,050	3.1	50,000	210,000	8 1/2" - 9 7/8"
6.75"	4:5	4.8	21'	1,785	600	300	575	720	100-450	100-650	1,000	3,250	4,100	5.7	50,000	210,000	8 1/2" - 9 7/8"
6.75" XT	4:5	7.0	26' 8"	2,240	600	300	875	1,125	100-750	100-1050	1,000	5,100	6,500	5.8	50,000	210,000	8 1/2" - 9 7/8"
6.75" Air	7:8	2.0	23' 4"	2,260	N/A	90	190	240	50-170	50-210	1,000	3,500	4,500	18.4	50,000	210,000	8 1/2" - 9 7/8"
6.75"	7:8	3.0	21'	1,750	600	170	360	450	100-300	100-400	1,000	3,300	4,200	8.5	50,000	210,000	8 1/2" - 9 7/8"
6.75" SE	7:8	3.3	29' 8"	2,600	600	85	410	510	100-310	100-475	1,000	7,800	9,700	19.0	50,000	210,000	8 1/2" - 9 7/8"
6.75" Air	7:8	3.3	29' 8"	2,930	N/A	100	420	520	100-375	100-480	1,000	7,800	9,800	18.2	50,000	210,000	8 1/2" - 9 7/8"
6.75" XT	7:8	5.0	25' 5"	2,270	600	168	675	850	100-575	100-800	1,000	6,400	8,000	9.5	50,000	210,000	8 1/2" - 9 7/8"
6.75" SE	7:8	6.4	29' 8"	2,800	600	168	900	1,125	100-700	100-1050	1,000	8,500	10,500	9.4	50,000	210,000	8 1/2" - 9 7/8"
6.75"	8:9	3.0	19'	1,770	500	122	410	510	100-310	100-470	1,000	4,400	5,500	10.7	50,000	210,000	8 1/2" - 9 7/8"
7.25" SE	7:8	7.7	33' 6"	2,800	750	230	1,100	1,400	100-850	100-1300	1,000	9,600	12,200	8.7	50,000	220,000	8 1/2" - 9 7/8"
7.75" XT	4:5	5.3	31'	3,725	1,000	250	640	790	100-550	100-750	1,000	7,100	8,800	11.1	65,000	240,000	9 1/2" - 12 1/2"
7.75"	7:8	3.0	25' 5"	3,250	1,000	162	330	420	100-250	100-370	1,000	5,200	6,800	16.3	65,000	240,000	9 1/2" - 12 1/2"
7.75" XT	7:8	4.0	29'	3,675	1,000	160	470	600	100-350	100-550	1,000	7,800	10,000	16.6	65,000	240,000	9 1/2" - 12 1/2"
7.75"	9:10	3.0	21' 3"	3,050	600	138	360	450	100-280	100-425	1,000	4,000	5,000	11.1	65,000	240,000	9 1/2" - 12 1/2"
8.0" XT	4:5	5.3	31'	4,050	1,000	250	640	790	100-550	100-750	1,000	7,100	8,800	11.1	65,000	240,000	9 1/2" - 12 1/2"
8.0"	7:8	3.0	25' 5"	3,450	1,000	162	330	420	100-250	100-370	1,000	5,200	6,800	16.3	65,000	240,000	9 1/2" - 12 1/2"
8.0" XT	7:8	4.0	29'	3,710	1,000	160	470	600	100-350	100-550	1,000	7,800	10,000	16.6	65,000	240,000	9 1/2" - 12 1/2"
8.0"	9:10	3.0	21' 3"	3,275	600	138	360	450	100-280	100-425	1,000	4,000	5,000	11.1	65,000	240,000	9 1/2" - 12 1/2"
9 5/8"	1:2	4.0	25' 6"	4,200	800	390	360	460	100-300	100-425	1,000	2,220	2,800	6.2	100,000	490,000	12 1/4" - 26"
9 5/8"	3:4	4.5	29'	4,900	1,500	340	470	600	100-400	100-550	1,000	6,100	7,800	13.0	100,000	490,000	12 1/4" - 26"
9 5/8" XT	3:4	6.0	34'	5,840	1,500	340	675	850	100-550	100-775	1,000	8,700	11,000	12.9	100,000	490,000	12 1/4" - 26"
9 5/8"	5:6	3.0	29'	5,350	1,500	166	285	370	100-225	100-330	1,000	7,100	9,200	24.9	100,000	490,000	12 1/4" - 26"
9 5/8" SE	7:8	5.7	35'	6,400	1,500	186	720	920	100-600	100-850	1,000	15,600	19,900	21.7	100,000	490,000	12 1/4" - 26"
9 5/8"	9:10	3.0	23' 4"	4,200	800	128	450	550	100-350	100-500	1,000	6,900	8,400	15.3	100,000	490,000	12 1/4" - 26"

XT - Extended

SE - Super Extended

SR - Short Radius

TH - TITAN Thunder (uniform thickness of rubber)

