



14 1/2° Spur Gear Horsepower Ratings

(S) = Steel

(CI) = Cast Iron

3 D.P. 3" Face

Number Teeth	12		15		18		21		24		48		72		96		120	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
50	6		9		12		13		16	10	33	20	45	27	55	33	63	38
100	11		16		21		25		29	17	52	31	67	41	76	47	86	52
200	20		27		35		40		45	27	73	45	89	54	96	59	105	63
300	26		35		44		50		56	33	85	52	99	60	106	65	113	69
500	35		46		57		64		70	41	98	60	110	66	115	70	121	73
600	39		51		61		68		74	44	102	62	113	68	117	71	123	74
900	46		59		70		77		83	49	109	66	118	72	121	74	126	77
1200	51		64		76		83		89	53	112	68	121	73	124	75	128	78
1800	58		71		82		89		95	56	117	71	124	76	126	77	130	79

4 D.P. 2" Face

Number Teeth	12		16		20		24		48		72		96		144		S	CI
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI				
50	2		4		5		6	4	13	8	18	11	23	14	30	18		
100	4		7		9		11	7	22	13	29	17	34	21	42	25		
200	8		12		16		19	11	32	20	40	24	35	27	52	31		
300	11		16		20		24	14	38	23	46	28	51	31	56	34		
500	15		22		27		31	19	45	28	52	32	56	34	60	36		
600	17		24		29		33	20	57	29	54	33	58	35	61	37		
900	20		29		34		38	23	52	31	57	35	60	36	64	38		
1200	23		32		37		41	25	54	33	59	36	62	37	65	39		
1800	27		36		41		45	27	57	34	61	37	63	38	66	41		

5 D.P. 1 3/4" Face

Number Teeth	12		18		24		30		45		80		120		160		S	CI
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI				
50	1		2		4	2	5	3	8	4	12	7	16	10		12		
100	2		4		7	4	9	5	12	7	19	12	24	15		17		
200	4		8		11	7	14	8	19	11	27	16	32	19		21		
300	6		11		15	9	18	11	23	14	31	19	36	22		23		
500	9		14		20	12	23	14	29	17	36	22	40	24		25		
600	10		16		22	13	25	15	30	20	37	23	41	25		26		
900	12		20		25	15	29	17	34	21	40	24	43	26		27		
1200	14		22		28	17	31	19	36	25	41	25	44	27		27		
1800	16		25		30	18	42	25	38	26	43	26	45	28		28		

14¹/₂^o Spur Gear Horsepower Ratings



(S) = Steel

(CI) = Cast Iron

6 D.P. 1¹/₂" Face

Number Teeth	12		18		24		30		36		48		84		120		180		
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	
100	2		3		4	2	5	3	6	4	8	5	13	8	16	10			12
200	3		5		7	4	9	5	10	6	13	8	18	11	21	13			15
300	4		7		10	5	11	7	13	7	16	10	21	13	24	15			16
600	7		11		13	8	17	10	18	11	21	13	26	16	28	17			18
900	8		13		17	9	19	11	21	13	24	14	28	17	30	18			19
1200	10		15		19	10	21	13	22	14	25	15	29	18	31	19			19
1800	12		18		21	11	23	14	24	15	27	16	30	19	32	19			20

8 D.P. 1¹/₄" Face

RPM	Steel				Cast Iron					
	Number of Teeth				Number of Teeth					
	12	24	36	48	24	48	72	96	120	160
100	.72	1.98	3.02	4.08	1.18	2.50	3.47	4.40	5.05	6.02
200	1.37	3.59	5.13	6.76	2.13	4.14	5.45	6.49	7.22	8.21
300	1.95	4.81	6.73	8.58	2.86	5.26	6.67	7.75	8.48	9.35
600	3.32	7.55	9.85	11.91	4.48	7.29	8.72	9.63	10.31	10.83
900	4.36	9.25	11.66	13.73	5.49	8.41	9.33	10.41	10.87	11.44
1200	5.21	10.48	12.86	15.10	6.22	9.07	9.86	10.88	11.29	11.76
1800	6.38	12.08	14.27	16.41	7.17	9.86	10.45	11.37	11.78	12.11

10 D.P. 1" Face

RPM	Steel				Cast Iron				
	Number of Teeth				Number of Teeth				
	12	24	48	60	28	72	140	180	200
100	.38	1.08	2.26	2.68	.80	1.88	3.12	3.63	3.88
200	.75	1.98	3.77	4.45	1.44	3.02	4.52	5.04	5.29
300	1.08	2.71	4.94	5.65	1.94	3.80	5.33	5.81	6.02
600	1.88	4.33	7.13	7.84	3.03	5.16	6.38	6.83	6.99
900	2.50	5.41	8.23	9.04	3.71	5.81	6.96	7.24	7.36
1200	3.00	6.25	9.06	9.74	4.21	6.25	7.23	7.46	7.59
1800	3.75	7.21	9.95	10.59	4.85	6.78	7.55	7.74	7.86



14 1/2° Spur Gear Horsepower Ratings

12 D.P. 3/4" Face

RPM	Steel					Cast Iron			
	Number of Teeth					Number of Teeth			
	12	24	48	60	72	36	72	120	200
100	.21	.56	1.16	1.46	1.71	.53	1.04	1.54	2.19
200	.39	1.05	2.02	2.44	2.84	.95	1.72	2.37	3.08
300	.55	1.43	2.70	3.19	3.60	1.28	2.18	2.90	3.56
600	.99	2.37	3.99	4.61	5.00	2.01	3.03	3.68	4.21
900	1.33	3.01	4.76	5.32	5.76	2.46	3.49	4.07	4.50
1200	1.64	3.50	5.28	5.85	6.21	2.79	3.77	4.18	4.65
1800	2.09	4.17	5.92	6.42	6.75	3.21	4.09	4.41	4.85

16 D.P. 1/2" Face

RPM	Steel					Cast Iron				
	Number of Teeth					Number of Teeth				
	12	24	36	48	80	36	80	120	160	200
100	.08	.21	.32	.45	.76	.14	.45	.63	.78	.93
200	.14	.39	.60	.82	1.26	.27	.75	1.00	1.21	1.34
300	.21	.56	.82	1.10	1.65	.37	.99	1.25	1.48	1.60
600	.40	.96	1.35	1.72	2.38	.60	1.43	1.68	1.78	1.92
900	.53	1.26	1.71	2.11	2.75	.68	1.64	1.88	1.87	1.99
1200	.66	1.50	1.97	2.39	3.02	.87	1.81	2.03	2.17	2.24
1800	.87	1.84	2.33	2.75	3.32	1.03	1.99	2.16	2.29	2.36

20 D.P. 3/8" Face

RPM	Steel					Cast Iron				
	Number of Teeth					Number of Teeth				
	12	24	48	60	96	48	80	120	160	200
100	.05	.11	.22	.28	.46	.14	.22	.32	.40	.47
200	.07	.20	.43	.50	.76	.26	.39	.53	.64	.73
300	.10	.29	.58	.67	.99	.35	.52	.66	.79	.89
600	.19	.51	.93	1.06	1.44	.56	.76	.92	1.05	1.08
900	.27	.68	1.16	1.29	1.66	.70	.91	1.06	1.16	1.14
1200	.33	.81	1.34	1.47	1.70	.81	1.01	1.14	1.25	1.32
1800	.46	1.02	1.55	1.69	2.00	.94	1.13	1.26	1.33	1.39

24 D.P. 1/4" Face

RPM	Steel				
	Number of Teeth				
	12	24	48	60	144
100	.017	.047	.105	.200	.291
200	.033	.091	.197	.349	.482
300	.049	.132	.275	.462	.617
600	.092	.236	.455	.688	.857
900	.131	.321	.583	.822	.984
1200	.165	.391	.679	.910	1.063