

The Roll Out Chart shows the distance traveled in Millimetres for One motor revolution at the stated tyre diameter (in Millimetres). The chart may also be used to read distance traveled in Metres per 1000 revs. Assuming of course, no wheel spin or other slippage losses. This chart shows results for favoured spur gears in 48 pitch.

Roll out charts  
For 48 pitch  
D3

		TIRE DIAMETER										
		20	20.25	20.5	20.75	21	21.25	21.5	21.75	22	22.25	22.5
P I N I O N S I Z E	6	14.50	14.68	14.86	15.04	15.22	15.41	15.59	15.77	15.95	16.13	16.31
	7	16.92	17.13	17.34	17.55	17.76	17.97	18.19	18.40	18.61	18.82	19.03
	8	19.33	19.57	19.82	20.06	20.30	20.54	20.78	21.02	21.27	21.51	21.75
	9	21.75	22.02	22.29	22.57	22.84	23.11	23.38	23.65	23.92	24.20	24.47
	10	24.17	24.47	24.77	25.07	25.37	25.68	25.98	26.28	26.58	26.88	27.19
	11	26.58	26.92	27.25	27.58	27.91	28.24	28.58	28.91	29.24	29.57	29.91
	12	29.00	29.36	29.72	30.09	30.45	30.81	31.17	31.54	31.90	32.26	32.62
	13	31.42	31.81	32.20	32.59	32.99	33.38	33.77	34.16	34.56	34.95	35.34
	14	33.83	34.26	34.68	35.10	35.52	35.95	36.37	36.79	37.22	37.64	38.06
	15	36.25	36.70	37.16	37.61	38.06	38.51	38.97	39.42	39.87	40.33	40.78
	16	38.67	39.15	39.63	40.12	40.60	41.08	41.57	42.05	42.53	43.02	43.50
17	41.08	41.60	42.11	42.62	43.14	43.65	44.16	44.68	45.19	45.70	46.22	
18	43.50	44.04	44.59	45.13	45.67	46.22	46.76	47.31	47.85	48.39	48.94	
19	45.92	46.49	47.06	47.64	48.21	48.79	49.36	49.93	50.51	51.08	51.66	
20	48.33	48.94	49.54	50.14	50.75	51.35	51.96	52.56	53.17	53.77	54.37	
21	50.75	51.38	52.02	52.65	53.29	53.92	54.56	55.19	55.82	56.46	57.09	

26t

27t

		TIRE DIAMETER										
		20	20.25	20.5	20.75	21	21.25	21.5	21.75	22	22.25	22.5
P I N I O N S I Z E	6	13.96	14.14	14.31	14.49	14.66	14.84	15.01	15.18	15.36	15.53	15.71
	7	16.29	16.49	16.70	16.90	17.10	17.31	17.51	17.72	17.92	18.12	18.33
	8	18.62	18.85	19.08	19.32	19.55	19.78	20.01	20.25	20.48	20.71	20.94
	9	20.94	21.21	21.47	21.73	21.99	22.25	22.51	22.78	23.04	23.30	23.56
	10	23.27	23.56	23.85	24.14	24.43	24.73	25.02	25.31	25.60	25.89	26.18
	11	25.60	25.92	26.24	26.56	26.88	27.20	27.52	27.84	28.16	28.48	28.80
	12	27.93	28.27	28.62	28.97	29.32	29.67	30.02	30.37	30.72	31.07	31.42
	13	30.25	30.63	31.01	31.39	31.77	32.14	32.52	32.90	33.28	33.66	34.03
	14	32.58	32.99	33.39	33.80	34.21	34.62	35.02	35.43	35.84	36.24	36.65
	15	34.91	35.34	35.78	36.22	36.65	37.09	37.52	37.96	38.40	38.83	39.27
	16	37.23	37.70	38.16	38.63	39.10	39.56	40.03	40.49	40.96	41.42	41.89
17	39.56	40.06	40.55	41.04	41.54	42.03	42.53	43.02	43.52	44.01	44.51	
18	41.89	42.41	42.94	43.46	43.98	44.51	45.03	45.55	46.08	46.60	47.12	
19	44.22	44.77	45.32	45.87	46.43	46.98	47.53	48.08	48.64	49.19	49.74	
20	46.54	47.12	47.71	48.29	48.87	49.45	50.03	50.61	51.20	51.78	52.36	
21	48.87	49.48	50.09	50.70	51.31	51.92	52.53	53.15	53.76	54.37	54.98	

28t

		TIRE DIAMETER										
		20	20.25	20.5	20.75	21	21.25	21.5	21.75	22	22.25	22.5
P I N I O N S I Z E	6	13.46	13.63	13.80	13.97	14.14	14.31	14.47	14.64	14.81	14.98	15.15
	7	15.71	15.90	16.10	16.30	16.49	16.69	16.89	17.08	17.28	17.48	17.67
	8	17.95	18.18	18.40	18.63	18.85	19.07	19.30	19.52	19.75	19.97	20.20
	9	20.20	20.45	20.70	20.95	21.21	21.46	21.71	21.96	22.22	22.47	22.72
	10	22.44	22.72	23.00	23.28	23.56	23.84	24.12	24.40	24.68	24.96	25.24
	11	24.68	24.99	25.30	25.61	25.92	26.23	26.54	26.84	27.15	27.46	27.77
	12	26.93	27.26	27.60	27.94	28.27	28.61	28.95	29.28	29.62	29.96	30.29
	13	29.17	29.54	29.90	30.27	30.63	31.00	31.36	31.72	32.09	32.45	32.82
	14	31.42	31.81	32.20	32.59	32.99	33.38	33.77	34.16	34.56	34.95	35.34
	15	33.66	34.08	34.50	34.92	35.34	35.76	36.18	36.61	37.03	37.45	37.87
	16	35.90	36.35	36.80	37.25	37.70	38.15	38.60	39.05	39.49	39.94	40.39
	17	38.15	38.62	39.10	39.58	40.06	40.53	41.01	41.49	41.96	42.44	42.92
18	40.39	40.90	41.40	41.91	42.41	42.92	43.42	43.93	44.43	44.94	45.44	
19	42.64	43.17	43.70	44.23	44.77	45.30	45.83	46.37	46.90	47.43	47.97	
20	44.88	45.44	46.00	46.56	47.12	47.69	48.25	48.81	49.37	49.93	50.49	
21	47.12	47.71	48.30	48.89	49.48	50.07	50.66	51.25	51.84	52.43	53.01	

29t

		TIRE DIAMETER										
		20	20.25	20.5	20.75	21	21.25	21.5	21.75	22	22.25	22.5
P I N I O N S I Z E	6	13.00	13.16	13.32	13.49	13.65	13.81	13.97	14.14	14.30	14.46	14.62
	7	15.17	15.36	15.55	15.74	15.92	16.11	16.30	16.49	16.68	16.87	17.06
	8	17.33	17.55	17.77	17.98	18.20	18.42	18.63	18.85	19.07	19.28	19.50
	9	19.50	19.74	19.99	20.23	20.47	20.72	20.96	21.21	21.45	21.69	21.94
	10	21.67	21.94	22.21	22.48	22.75	23.02	23.29	23.56	23.83	24.10	24.37
	11	23.83	24.13	24.43	24.73	25.02	25.32	25.62	25.92	26.22	26.51	26.81
	12	26.00	26.32	26.65	26.97	27.30	27.62	27.95	28.27	28.60	28.92	29.25
	13	28.17	28.52	28.87	29.22	29.57	29.93	30.28	30.63	30.98	31.33	31.69
	14	30.33	30.71	31.09	31.47	31.85	32.23	32.61	32.99	33.37	33.75	34.12
	15	32.50	32.91	33.31	33.72	34.12	34.53	34.94	35.34	35.75	36.16	36.56
	16	34.67	35.10	35.53	35.97	36.40	36.83	37.27	37.70	38.13	38.57	39.00
	17	36.83	37.29	37.75	38.21	38.67	39.13	39.59	40.06	40.52	40.98	41.44
18	39.00	39.49	39.97	40.46	40.95	41.44	41.92	42.41	42.90	43.39	43.87	
19	41.17	41.68	42.19	42.71	43.22	43.74	44.25	44.77	45.28	45.80	46.31	
20	43.33	43.87	44.42	44.96	45.50	46.04	46.58	47.12	47.67	48.21	48.75	
21	45.50	46.07	46.64	47.21	47.77	48.34	48.91	49.48	50.05	50.62	51.19	

30t

		TIRE DIAMETER										
		20	20.25	20.5	20.75	21	21.25	21.5	21.75	22	22.25	22.5
P I N I O N S I Z E	6	12.57	12.72	12.88	13.04	13.19	13.35	13.51	13.67	13.82	13.98	14.14
	7	14.66	14.84	15.03	15.21	15.39	15.58	15.76	15.94	16.13	16.31	16.49
	8	16.76	16.96	17.17	17.38	17.59	17.80	18.01	18.22	18.43	18.64	18.85
	9	18.85	19.09	19.32	19.56	19.79	20.03	20.26	20.50	20.73	20.97	21.21
	10	20.94	21.21	21.47	21.73	21.99	22.25	22.51	22.78	23.04	23.30	23.56
	11	23.04	23.33	23.61	23.90	24.19	24.48	24.77	25.05	25.34	25.63	25.92
	12	25.13	25.45	25.76	26.08	26.39	26.70	27.02	27.33	27.65	27.96	28.27
	13	27.23	27.57	27.91	28.25	28.59	28.93	29.27	29.61	29.95	30.29	30.63
	14	29.32	29.69	30.05	30.42	30.79	31.15	31.52	31.89	32.25	32.62	32.99
	15	31.42	31.81	32.20	32.59	32.99	33.38	33.77	34.16	34.56	34.95	35.34
	16	33.51	33.93	34.35	34.77	35.19	35.60	36.02	36.44	36.86	37.28	37.70
	17	35.60	36.05	36.49	36.94	37.39	37.83	38.28	38.72	39.17	39.61	40.06
18	37.70	38.17	38.64	39.11	39.58	40.06	40.53	41.00	41.47	41.94	42.41	
19	39.79	40.29	40.79	41.29	41.78	42.28	42.78	43.28	43.77	44.27	44.77	
20	41.89	42.41	42.94	43.46	43.98	44.51	45.03	45.55	46.08	46.60	47.12	
21	43.98	44.53	45.08	45.63	46.18	46.73	47.28	47.83	48.38	48.93	49.48	