



GEARING CHART

Effective Wheelsize: 27.0000 inches

Diameter in millimeters:

700

Diameter in inches:

27.55905512

Circumference in millimeters:

2124

Diameter in inches:

26.61772434

M		BACK COG								
		12	13	14	15	16	17	18	19	20
FRONT CHAIN RING	44	99.0	91.4	84.9	79.2	74.3	69.9	66.0	62.5	59.4
	45	101.3	93.5	86.8	81.0	75.9	71.5	67.5	63.9	60.8
	46	103.5	95.5	88.7	82.8	77.6	73.1	69.0	65.4	62.1
	47	105.8	97.6	90.6	84.6	79.3	74.6	70.5	66.8	63.5
	48	108.0	99.7	92.6	86.4	81.0	76.2	72.0	68.2	64.8
	49	110.3	101.8	94.5	88.2	82.7	77.8	73.5	69.6	66.2
	50	112.5	103.8	96.4	90.0	84.4	79.4	75.0	71.1	67.5
	51	114.8	105.9	98.4	91.8	86.1	81.0	76.5	72.5	68.9
	52	117.0	108.0	100.3	93.6	87.8	82.6	78.0	73.9	70.2
	53	119.3	110.1	102.2	95.4	89.4	84.2	79.5	75.3	71.6
	54	121.5	112.2	104.1	97.2	91.1	85.8	81.0	76.7	72.9
	55	123.8	114.2	106.1	99.0	92.8	87.4	82.5	78.2	74.3
56	126.0	116.3	108.0	100.8	94.5	88.9	84.0	79.6	75.6	

SPECIAL NOTES for Juniors:

The maximum chaingear ratio for Junior riders is based on age and discipline. All tests for compliance shall be done using the “roll-out method.”

For track, the limits are:

Ages 17-18:	Unrestricted		
Ages 15-16:	6.78 meters	(22'3")	(48x15)
Ages 13-14:	6.36 meters	(20'10.5")	(48x16)
Ages 10-12:	6.00 meters	(19'8")	(48x17)

The gear limit for a rider is determined by the age of the rider and the discipline, and applies in all events in that discipline – even when other entrants may not have the same (or any) limit. Note that the gear ratios listed are merely suggestions – the distance rolled out is the governing standard.



SPEED CHART

MPH	KPH	200 meter Lap	250 meter Lap	333 meter Lap	400 meter Lap
18.0	29	41	31.03	41.38	49.66
18.6	30	40	30.00	40.00	48.00
19.3	31	38	29.03	38.71	46.45
19.9	32	37	28.13	37.50	45.00
20.5	33	36	27.27	36.36	43.64
21.1	34	35	26.47	35.29	42.35
21.7	35	34	25.71	34.29	41.14
22.4	36	33	25.00	33.33	40.00
23.0	37	32	24.32	32.43	38.92
23.6	38	31	23.68	31.58	37.89
24.2	39	30	23.08	30.77	36.92
24.9	40	30	22.50	30.00	36.00
25.5	41	29	21.95	29.27	35.12
26.1	42	28	21.43	28.57	34.29
26.7	43	27	20.93	27.91	33.49
27.3	44	27	20.45	27.27	32.73
28.0	45	26	20.00	26.67	32.00
28.6	46	26	19.57	26.09	31.30
29.2	47	25	19.15	25.53	30.64
29.8	48	25	18.75	25.00	30.00
30.4	49	24	18.37	24.49	29.39
31.1	50	24	18.00	24.00	28.80
31.7	51	23	17.65	23.53	28.24
32.3	52	23	17.31	23.08	27.69
32.9	53	22	16.98	22.64	27.17
33.6	54	22	16.67	22.22	26.67
34.2	55	21	16.36	21.82	26.18
34.8	56	21	16.07	21.43	25.71
35.4	57	21	15.79	21.05	25.26
36.0	58	20	15.52	20.69	24.83
36.7	59	20	15.25	20.34	24.41
37.3	60	20	15.00	20.00	24.00
37.9	61	19	14.75	19.67	23.61
38.5	62	19	14.52	19.35	23.23
39.1	63	19	14.29	19.05	22.86
39.8	64	18	14.06	18.75	22.50
40.4	65	18	13.85	18.46	22.15
41.0	66	18	13.64	18.18	21.82
41.6	67	17	13.43	17.91	21.49
42.3	68	17	13.24	17.65	21.18
42.9	69	17	13.04	17.39	20.87
43.5	70	17	12.86	17.14	20.57