

# RIDER SIZING

FRAME					
Rider Height	Frame Size	Stem Length	Bar Rise	Bar Width	
4'0 – Under	Micro-Mini	Mini	2"-2 ½"	20"-22 ½"	
4'0 – 4'6"	Mini Mini-	Mini XL	2"-3 ½"	21"-23 ½"	
4'4" – 4'11"	Junior Mini	XL – Pro	3"-5"	22"-25"	
4'8" – 5'4"	Expert	Pro	5"-7"	25 ½"-27"	
5'4" – 5'10"	Pro	Pro – Pro XL	7"-8"	27"-28"	
5'10" – over	Pro XL – XXL	Pro XL	7"-8"	28"	

  

WHEEL SIZING			CRANK SIZING			
Max Weight	Rim Width		Rider Inseam	Crank Length	Rider Inseam	Crank Length
0 lbs – 85 lbs	Sew Ups		20"	140mm	27"	171mm
86 lbs – 100 lbs	20 x 1 1/8"		21"	145mm	28"	175mm
101 lbs – 120 lbs	20 x 1 3/8"		22"	150mm	29"	177mm
121 lbs – 150 lbs	20 x 1.50"		23"	155mm	30"	180mm
151 lbs – 200 lbs	20 x 1.75"		24"	160mm	31"	182mm
			25"	162mm	32"	185mm
			26"	166mm	34"	190mm

## GEAR CHART FOR 20" Sew-Up Tire

Front Sprocket NOTE: The higher the gear ratio show, the more top speed. However, the high gears require more strength to pedal from the start position. The lower the gear ratio the easier to pedal, but you sacrifice top end speed.

		36	37	38	39	40	41	42	43	44	45	46	47	48
R	14	48.9	50.2	51.6	53.0	54.3	55.6	57.0	58.4	59.7	61.1	62.4	63.8	65.1
E	15	45.6	46.9	48.1	49.4	50.7	52.0	53.2	54.5	55.7	57.0	58.3	59.6	60.8
A	16	42.8	43.9	45.1	46.3	47.5	48.7	50.0	51.1	52.3	53.4	54.6	55.8	57.0
R	17	40.2	41.4	42.5	43.6	44.7	45.8	47.0	48.1	49.2	50.3	51.4	52.5	53.6
	18	38.0	39.1	40.1	41.2	42.2	43.3	44.3	45.4	46.4	48.0	48.6	49.7	50.7
C	19	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0
O	20	34.2	35.2	36.1	37.1	38.0	39.0	40.0	40.9	41.8	42.8	43.7	44.7	45.6
G	21	32.6	33.5	34.4	35.3	36.2	37.1	38.0	39.0	40.0	40.7	41.7	42.5	43.4

### GEAR CHART FOR 20x1 1/8" Tire

Front Sprocket NOTE: The higher the gear ratio shown the more top speed. However, the high gears require strength to pedal from a start position. The lower the gear ratio the easier to pedal, but you sacrifice top end speed.

		36	37	38	39	40	41	42	43	44	45	46
R	14	51.4	52.9	54.3	55.7	57.1	58.6	60.0	61.4	62.9	64.3	65.7
E	15	48.0	49.3	50.7	52.0	53.3	54.7	56.0	57.3	58.7	60.0	61.3
A	16	45.0	46.3	47.5	48.8	50.0	51.3	52.5	53.7	55.0	56.3	57.5
R	17	42.4	43.5	44.7	45.9	47.1	48.2	49.4	50.6	51.8	52.9	54.1
	18	40.0	41.1	42.2	43.3	44.4	45.6	46.7	47.8	48.9	50.0	51.1
C	19	37.9	38.9	40.0	41.1	42.1	43.2	44.2	45.3	46.3	47.4	48.4
O	20	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0
G	21	34.3	35.2	36.2	37.1	38.1	39.0	40.0	41.0	42.0	42.9	43.8

### GEAR CHART FOR 20x1 3/8" Tire

Front Sprocket NOTE: The higher the gear ratio shown, the more top speed. However, the high gears require strength to pedal from a start position. The lower the gear ratio the easier to pedal, but you sacrifice top end speed.

		36	37	38	39	40	41	42	43	44	45	46
R	14	54.0	55.5	57.0	58.5	60.0	61.5	63.0	64.5	66.0	67.5	69.0
E	15	50.4	51.8	53.2	54.6	56.0	57.4	58.8	60.2	61.6	63.0	64.4
A	16	47.3	48.6	49.9	51.2	52.5	53.8	55.1	56.4	57.8	59.1	60.4
R	17	44.5	45.7	46.9	48.2	49.4	50.6	51.9	53.1	54.4	55.6	56.9
	18	42.0	43.2	44.3	45.5	46.7	47.8	49.0	50.2	51.3	52.5	53.7
C	19	39.8	40.9	42.0	43.1	44.2	45.3	46.4	47.5	48.6	49.7	50.9
O	20	37.8	38.9	39.9	41.0	42.0	43.5	44.1	45.2	46.2	47.3	48.3
G	21	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0

### GEAR CHART FOR 20x1.50" & 1.75" Tires

Front Sprocket NOTE: The higher the gear ratio shown, the more top speed. However, the high gears require strength to pedal from a start position. The lower the gear ratio the easier to pedal.

		36	37	38	39	40	41	42	43	44	45	46	47	48
R	14	50.1	51.5	52.9	54.3	55.7	57.1	58.5	59.9	61.3	62.7	64.1	65.5	66.9
E	15	46.8	48.1	49.4	50.7	52.0	53.3	54.6	55.9	57.2	58.5	59.8	61.1	62.4
A	16	43.9	45.1	46.3	47.5	48.8	50.0	51.2	52.4	53.6	54.8	56.1	57.3	58.5
R	17	41.3	42.4	43.6	44.7	45.9	47.0	48.2	49.3	50.5	51.6	52.8	53.9	55.1
	18	39.0	40.1	41.2	42.2	43.3	44.4	45.5	46.6	47.7	48.8	49.8	50.9	52.0
C	19	36.9	38.0	39.0	40.0	41.1	42.1	43.1	44.1	45.2	46.2	47.2	48.2	49.3
O	20	35.1	36.1	37.1	38.0	39.0	40.0	41.0	41.9	42.9	43.9	44.9	45.8	46.8
G	21	33.4	34.4	35.3	36.2	37.1	38.1	39.0	39.9	40.9	41.8	42.7	43.6	44.6

### GEAR CHART FOR 24x1.75" Tire

Front Sprocket NOTE: The higher the gear ratio shown, the more top speed. However, the high gears require strength to pedal from a start position. The lower the gear ratio the easier to pedal.

		36	37	38	39	40	41	42	43	44	45	46	47	48
R	14	61.1	62.8	64.5	66.2	67.8	69.6	71.3	72.9	74.6	76.3	78.0	79.7	81.4
E	15	57.0	58.6	60.2	61.8	63.3	65.0	66.5	68.1	69.7	71.3	72.8	74.4	76.0
A	16	53.4	54.9	56.4	57.9	59.4	60.9	62.3	63.8	65.3	66.8	68.3	69.8	71.3
R	17	50.3	51.7	53.0	54.5	55.9	57.3	58.7	60.1	61.5	62.9	64.3	65.7	67.1
	18	47.5	48.8	50.1	51.5	52.7	54.1	55.4	56.7	58.1	59.4	60.7	62.0	63.3
C	19	45.0	46.2	47.5	48.7	50.0	51.2	52.5	53.7	55.0	56.2	57.5	58.7	60.0
O	20	42.8	43.9	45.1	46.3	47.5	48.7	49.9	51.1	52.3	53.4	54.6	55.8	57.0
G	21	40.7	41.8	43.0	44.1	45.2	46.4	47.5	48.6	49.8	50.9	52.0	53.2	64.3
	22	38.9	39.9	41.0	42.1	43.2	44.3	45.3	46.4	47.5	48.6	49.7	50.7	51.8
	23	37.2	38.2	39.2	40.3	41.3	42.3	43.4	44.4	45.4	46.5	47.5	48.5	49.6
	24	35.6	36.6	37.6	38.6	39.6	40.6	41.6	42.6	43.5	44.5	45.5	46.5	47.5

## GEAR CHART FOR 24x1 1/8" Tire (23 5/8" DIA)

Front Sprocket NOTE: The higher the gear ratio shown, the more top speed. However, the high gears require strength to pedal from a start position. The lower the gear ratio the easier to pedal, but you sacrifice top end speed.

		36	37	38	39	40	41	42	43	44	45	46
R	14	60.75	62.43	64.12	65.81	67.5	59.10	70.87	72.56	74.25	75.93	77.62
E	15	56.70	58.27	59.85	61.42	63.00	64.75	66.15	67.72	69.30	70.87	72.45
A	16	53.15	54.63	56.10	57.58	59.06	60.53	62.01	63.49	64.96	66.44	67.92
R	17	50.02	51.41	52.80	54.19	55.58	56.97	58.36	59.75	61.14	62.53	63.92
C	18	47.25	48.56	49.87	51.18	52.50	53.81	55.12	56.43	57.75	59.06	60.37
O	19	44.76	46.00	47.25	48.49	49.73	50.98	52.22	53.46	54.71	55.95	57.19
G	20	42.52	43.70	44.88	46.06	47.25	48.43	49.61	50.79	51.97	53.15	54.33