

EXCELSIOR-HENDERSON MOTORCYCLES SUPER X 1999-2000
CALCULATE DIFFERENT FRONT PULLEY

Specifications:

Maximum RPM: 5500

Primary Drive Gears:

Compensator: 64
Clutch Gear: 113
Ratio: 0.5663717 1.77

Gear Ratio Transmission:		Teeth	Teeth
1st:	2.53	17	43
2nd:	1.77	22	39
3rd:	1.35	23	31
4th:	1.00	27	27
5th:	0.80	30	24

Final Drive Pulleys:

Front:	32.00		31.00		30.00
Rear:	70.00		70.00		70.00
Ratio:	0.4571429	2.19	0.4428571	2.26	0.4285714 2.33

FINAL TOTAL RATIO: 0.323641 3.09 0.3135272 3.19 0.3034134 3.30

Tire Circumference:

Dunlop MU 90B 80.8
Diameter 25.72

CALCULATIONS:

		32 Tooth Sprocket	31 Tooth Sprocket	30 Tooth Sprocket
MAX CALC SPEED:		136 MPH@5500 RPM	132 MPH@5500 RPM	128 MPH@5500 RPM
IDLE 1ST GEAR:		8 MPH	8 MPH	7 MPH
5th Gear Calculations:				
50 MPH		2020 RPM	2085 RPM	2155 RPM
60 MPH		2424 RPM	2502 RPM	2586 RPM
65 MPH		2626 RPM	2711 RPM	2801 RPM
70 MPH		2828 RPM	2919 RPM	3017 RPM
75 MPH		3030 RPM	3128 RPM	3232 RPM
80 MPH		3232 RPM	3336 RPM	3448 RPM
85 MPH		3434 RPM	3545 RPM	3663 RPM
90 MPH		3636 RPM	3753 RPM	3879 RPM
95 MPH		3838 RPM	3962 RPM	4094 RPM
100 MPH		4040 RPM	4170 RPM	4310 RPM
110 MPH		4444 RPM	4588 RPM	4740 RPM
120 MPH		4848 RPM	5005 RPM	5171 RPM
	RPM			
1st Gear	5500	43 MPH	42 MPH	40 MPH
2nd Gear	5500	62 MPH	60 MPH	58 MPH
3rd Gear	5500	81 MPH	78 MPH	76 MPH
4th Gear	5500	109 MPH	106 MPH	102 MPH
5th Gear	5500	136 MPH	132 MPH	128 MPH

Calculations:

MPH = RPM x Primary Drive Ratio / Tran Ratio x Final Drive Ratio x Tire Circumference / 12 inches x 60 minutes / 5280 feet per mile