

8 TOOTH DRIVER: $11300 \div 2.41 \times 20.16 \div 12 \times 60 \div 5280 = 89 \text{ MPH}$

9 TOOTH DRIVER: $11300 \div 2.41 \times 22.68 \div 12 \times 60 \div 5280 = 100 \text{ MPH}$

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Gear Ratio Charts

Formula To Calculate MPH:

$$\text{RPM} \div \text{GR} \times \text{SC} \div 12 \times 60 \div 5280 = \text{MPH @ 1:1 Clutch Ratio}$$

GR = Gear Ratio (divide top sprocket into bottom sprocket)

SC = Sprocket Circumference (number of teeth x track pitch)

7T - 2.52" Pitch	= 17.64 SC
8T - 2.52" Pitch	= 20.16 SC
9T - 2.52" Pitch	= 22.68 SC
10T - 2.52" Pitch	= 25.20 SC
7T Convolute - 3.29" Pitch	= 23.03 SC

Formula to Calculate Chain:

$$\frac{\text{CD} \times 2}{.375} + \frac{\text{TS} + \text{BS}}{2} = \text{Pitch}$$

CD = Center Distance (Drive Shaft to Jackshaft Centers)

TS = Top Sprocket

BS = Bottom Sprocket

Round number up to even number for proper pitch

Center Distance (Drive Shaft to Jackshaft)

Model	CD(inches)
All Arctic Cat Models	7.5
Polaris	
1996 & Older	6.625
1997-2001 GenII	7.05
2005 900s	11.35
2006-07 All Fusion & RMK	8.373
All Edge & 440 IQ Race Sleds	7.92
Ski-Doo	
CK3 Chassis & REV 2003	6.8504
ZX & 2004-05 REV	7.4803
RT Mach	7.9724
RT Summit	9.1929
REV XP	12.854
All Yamaha Models	7

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