

# SENSENICH PROPELLER MANUFACTURING COMPANY, INC.

AREA CODE 717  
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The pitch that we specify is the "Geometric" pitch, meaning that it is the actual pitch of the propeller.

$$\text{Geometric Pitch (inches)} = \pi (.75) D \tan \beta$$

D is the diameter in inches

$\beta$  is the blade angle, at the 75% blade radius station, measured from the plane of rotation of the propeller

Ex. Propeller with the following characteristics

Diameter - 70 inches

Blade angle at 75% station - 16.75 degrees

$$\begin{aligned} \text{Geo. Pitch(inches)} &= (3.14159)(.75)(70) \tan(16.75) \\ &= 49.6 \text{ inches} \end{aligned}$$

We specify this propeller as having a 50 inch pitch. Some companies give "Effective" pitch, which is lower than the Geometric pitch because it takes "slip" into account. I hope this helps you.