



D = TOOL DIAMETER or  
 D = EFFECTIVE DRILL DIAMETER  
 A = TOOL POINT ANGLE  
 P = TOOL POINT LENGTH

Formula for any tool angle:

$$P = \frac{D}{2} \times \tan\left(90 - \frac{A}{2}\right)$$

Formulas for common angles using a constant:

60° :	$P = D \times 0.866$
75° :	$P = D \times 0.652$
80° :	$P = D \times 0.596$
82° :	$P = D \times 0.575$
90° :	$P = D \times 0.500$
100° :	$P = D \times 0.420$
110° :	$P = D \times 0.350$
118° :	$P = D \times 0.300$
120° :	$P = D \times 0.289$
135° :	$P = D \times 0.207$
150° :	$P = D \times 0.134$
180° :	$P = 0.000$