

Cutting Speed  $V_c = \frac{\pi \times D \times n}{1,000}$

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Spindle Speed  $n = V_c \div \pi \div D \times 1,000$

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Feed  $V_f = n \times f_z \times Z$

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Feed per Tooth  $f_z = \frac{V_f}{n \times Z}$

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$V_c$  = Cutting Speed (m/min)

$\pi$  = 3.14 [The Circular Constant]

$D$  = Diameter (mm)

$n$  = Spindle Speed ( $\text{min}^{-1}$ )

$V_f$  = Feed (mm/min)

$f_z$  = Feed per Tooth (mm/tooth)

$Z$  = Number of Flutes