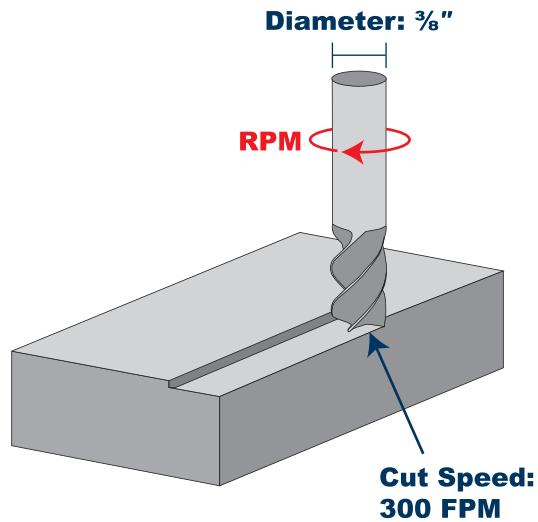


# MACHINIST CALC™ PRO

ADVANCED MACHINING MATH AND REFERENCE TOOL

## What is your RPM?



### Calculate the Spindle Speed (RPM)

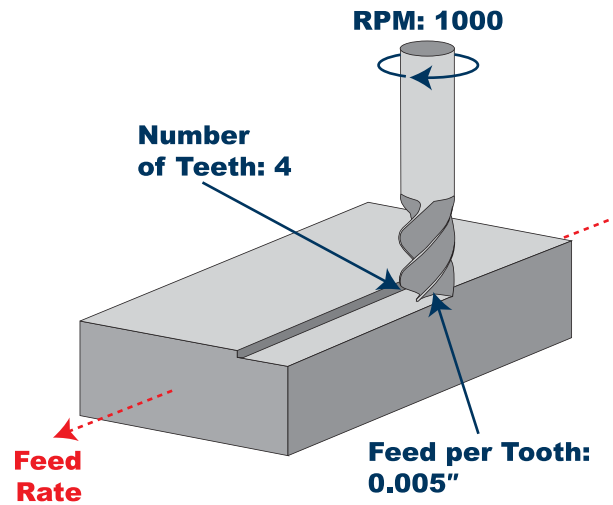
Clear the calculator:  
On/C On/C

Enter  $\frac{3}{8}$ " Diameter:  
3 / 8 Diam

Enter Cut Speed:  
300 Cut Speed

Calculate RPM:  
RPM

## What is your Feed Rate?



### Calculate the Feed Rate (IPM)

Clear the calculator:  
On/C On/C

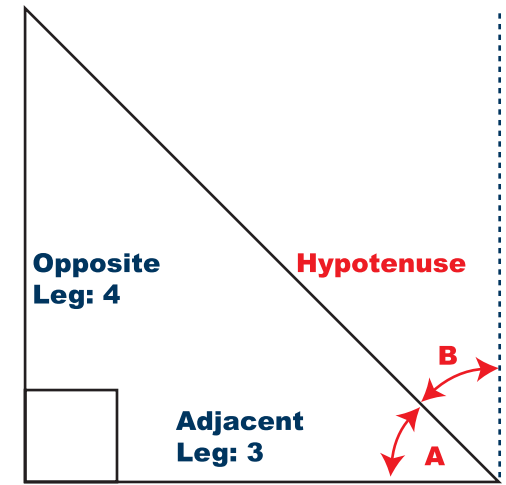
Enter Feed per Tooth:  
0.005 Inch Feed/Tooth

Enter Number of Teeth:  
4 #Teeth

Enter RPM:  
1000 RPM

Calculate Feed Rate:  
Feed Rate

## What is your Right Triangle?



### Calculate Right Triangle Values

Clear the calculator:  
On/C On/C

Enter Adjacent Leg:  
3 Adj

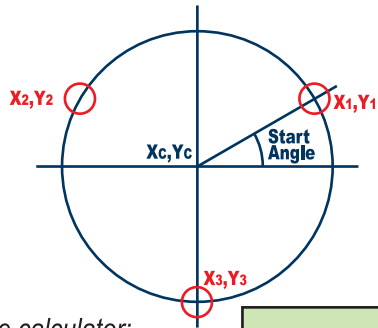
Enter Opposite Leg:  
4 Opp

Calculate Hypotenuse:  
Hyp

Calculate Angle A:  
Angle

Calculate Adjacent Angle B:  
Angle

# What is your Bolt Pattern?



Clear the calculator:

**On/C On/C** 0

Enter center x-coordinate,

Xc: **1 0** Inch **Adj** 10 INCH

Enter center y-coordinate,

Yc: **1 5** Inch **Opp** 15 INCH

Enter Start Angle:

**3 0** Angle 30°

Enter Bolt Circle Diameter:

**4 5** Inch **Diam** 4.5 INCH

Enter Number of Bolts:

**3** Bolt Pattern 3

Hole Center-to-Center

Spacing: **OC-OC** Bolt Pattern 3.8971 INCH

First x-coordinate:

**X-01** Bolt Pattern 1.19486 INCH

First y-coordinate:

**Y-01** Bolt Pattern 16.1250 INCH

Second x-coordinate:

**X-02** Bolt Pattern 8.0514 INCH

Second y-coordinate:

**Y-02** Bolt Pattern 16.1250 INCH

Third x-coordinate:

**X-03** Bolt Pattern 10.0000 INCH

Third y-coordinate:

**Y-03** Bolt Pattern 12.7500 INCH

# What is your Drill Size?



Clear the calculator:

**On/C On/C** 0

Enter Drill Size:

**3 / 8** Drill Size 0.3750 INCH

Next size:

**Drill Size** 0.3770 INCH

Next size:

**Drill Size** 0.3780 INCH

# What is your Thread Size?

Clear the calculator:

**On/C On/C** 0

Enter Thread Size:

**1 / 4** Thread Size 1/4 INCH

Enter Thread Pitch:

**2 0** Thread Size 1/4-20 INCH

Cut Tap Drill Size:

**TAP** Thread Size 7 DRILL SIZE

Roll Tap Drill Size:

**R-TAP** Thread Size 5.7 DRILL SIZE MM

Close Fit Drill Size:

**CLOSE** Thread Size F DRILL SIZE

Free Fit Drill Size:

**Thread Size** FREE H DRILL SIZE

Minimum Pitch Diameter:

**Thread Size** PTCM- 0.2175 INCH

Maximum Pitch Diameter:

**Thread Size** PTCM+ 0.2224 INCH

Minimum Minor Diameter:

**Thread Size** MTR- 0.1960 INCH

Maximum Minor Diameter:

**Thread Size** MTR+ 0.2070 INCH

Minimum Major Diameter:

**Thread Size** MMR- 0.2500 INCH