

Thread Milling CNC Program for Internal Thread

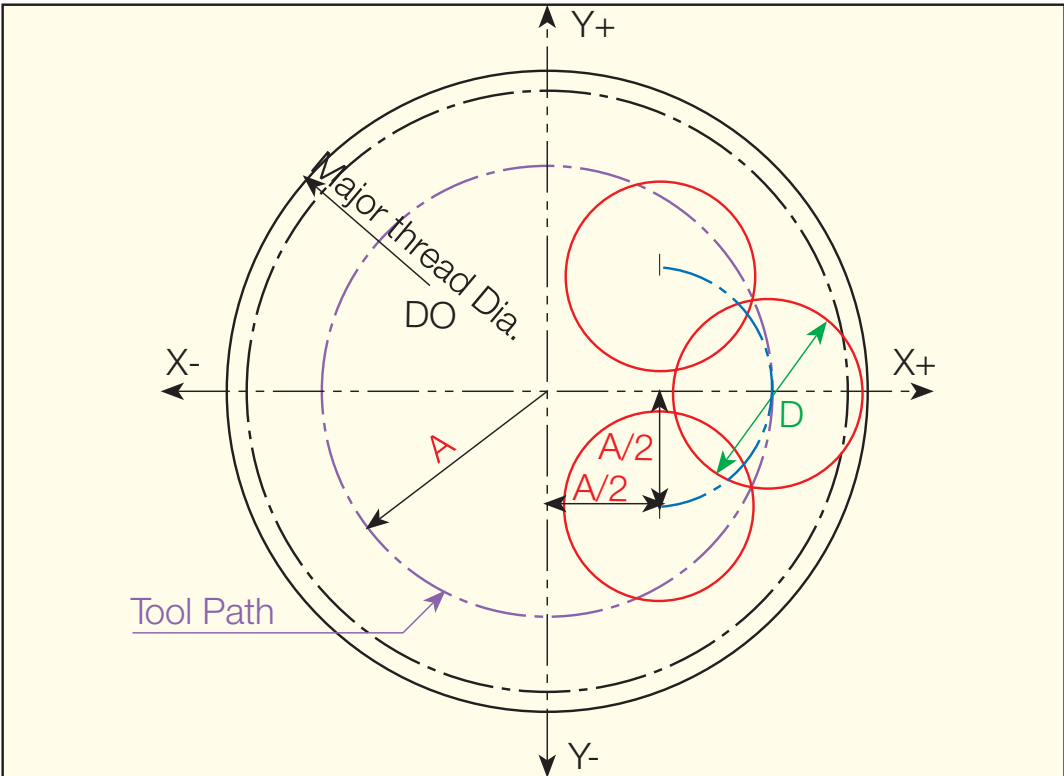
Right-hand thread (climb milling) from bottom up.
Program is based on tool center.
This method of programming needs no tool radius
compensation value, other than an offset for wear.

$$A = \frac{D_o - D}{2}$$

A = Radius of tool path
D_o = Major thread D
D = Cutting diameter

General Program

```
G90 G00 G54 G43 H1X0Y0Z10S...  
G00 Z-(to thread depth)  
G01 G91 G41 D1 X(A/2)Y-(A/2)Z0F...  
G03 X(A/2)Y(A/2)R(A/2)Z(1/8 pitch)  
G03 X0Y0I-(A)J0Z(pitch)  
G03 X-(A/2)Y(A/2)R(A/2)Z(1/8 pitch)  
G01 G40 X-(A/2)Y-(A/2)Z0  
G90 X0Y0Z0
```



Small Diameter, Short Solid Carbide Thread Mills

Thread Milling - Recommended Procedure

