

Thread Milling CNC Program

for Internal Thread

Right-hand thread (climb milling) from bottom up.

Program is based on tool center.

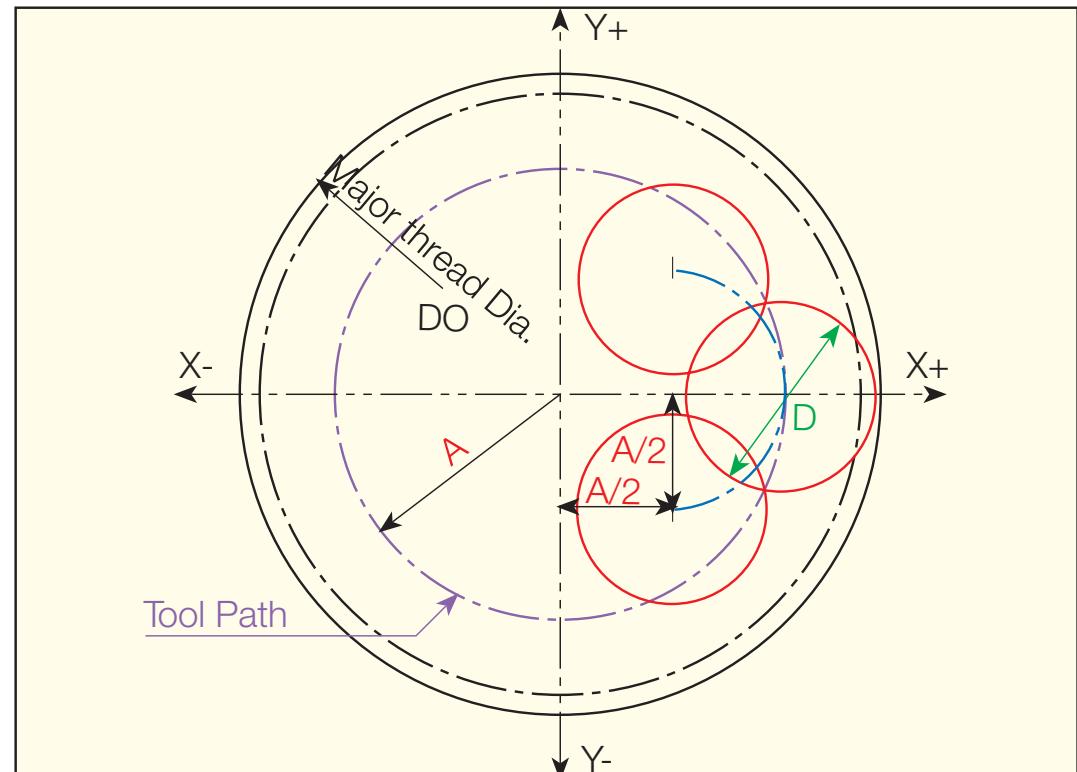
This method of programming needs no tool radius compensation value, other than an offset for wear.

$$A = \frac{D_o - D}{2} \quad A = \text{Radius of tool path}$$

Do = Major threadD
D = Cutting diameter

General Program

```
G90 G00 G54 G43 H1 X0 Y0 Z10 S...
G00 Z-(to thread depth)
G01 G91 G41 D1 X(A/2) Y-(A/2) Z0 F...
G03 X(A/2) Y(A/2) R(A/2) Z(1/8 pitch)
G03 X0 Y0 I-(A) J0 Z(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 X0 Y0 Z0
```



Small Diameter, Short Solid Carbide Thread Mills

Thread Milling - Recommended Procedure

