Nano-stepping actuator program

Set the home position

****

SET HOME

****

2 MNL A

2 WAC ONT? A = 1

2 MVR A 10

2 WAC ONT? A = 1

2 MPL B

2 WAC ONT? B = 1

2 DFH

Automated Etching

****

Loop

****

2 GOH A // go back to home position

2 WAC ONT? A = 1 // wait to keep moving the axis A, until A stops

2 MVR A 5 // set the initial radius

2 WAC ONT? A = 1

2 MPL B // move axis B to the top (Move to the Positive Limit position)

2 WAC ONT? B = 1 // wait to keep moving the axis B, until B stops

2 MVR B -1 // move B down by 1 mm (MoVe Relative distance)

2 WAC ONT? B = 1

```
2 MVR C 0               // move C to align with 0 degree
2 WAC ONT? C = 1
0 LOOP 10
2       MVR A 0.2       // set step of radius
2       WAC ONT? A = 1
2       MVR B -0.72     // move the needle to the surface of the silicon and draw the circles
2       WAC ONT? B = 1
2       VEL C 10                // set speed of spinning
2       MVR C 360       // set angle of spinning, 360 for one circle
2       WAC ONT? C = 1
2       MVR B 0.72      // drive the needle away from the surface
2       WAC ONT? B = 1
**********
```

Back to home

```
**********
2 GOH A                 // go back to home position
2 WAC ONT? A = 1                // wait to keep moving the axis A, until A stops
2 MPL B                 // move axis B to the top ( Move to the Positive Limit position )
2 WAC ONT? B = 1                // wait to keep moving the axis B, until B stops
2 MVR B -1              // move B down by 1 mm ( MoVe Relative distance )
2 WAC ONT? B = 1
2 MVR C 0               // move C to align with 0 degree
2 WAC ONT? C = 1
```