# How to adjust the moving precision of Tube-S Y and X axis

→ Problem : The precision of Tube-S X/Y axis is not correct;

Solution overview: 1. Adjust system pulse parameters--X axis;

2. Adjust system pulse parameters--Y axis;

### Problem analysis:

✤ Adjust system pulse parameters--X axis;

Solution: Step 1- Move the X axis to one end of the frame and mark it at the initial position;

This is to measure the actual distance the X axis moves.







Step 3- Interface main ,As show in pic1 $\rightarrow$  Press [G] button, then Input 1000 value,

Press **[** enter As show in pic2.

Note: The input value of 1000 is the theoretical movement distance of the X axis.

**Service Support Spirit** 

**[**F8 Zero **]** button [Clear the coordinates for easy observation], measure the distance from this position to the initial position.

Step 5-Calculate the X-axis pulse with the formula;

The theoretical distance

The actual distance

X System pulse value = new pulse value

→ For example: the System Pulse value is 127, The input theoretical value is 1000; The actual distance is 1500

So:

F2 File F3 F4 F5 Pic-2 **Step 4-** Interface main ,As show in pic1→Press  $\rightarrow$  Press X-axis direction key[Both direction keys can be], as shown in pic.  $\rightarrow$  The X axis moves a some distance. Please

#### Status Current Line/Hole File FLSK F2100 peed 00000 / 00000 00000 SHAPE\_32. TXT Stop 21. 232. 02 V4. 0 ersion 🔴 lgnition LowHeat S Heat S ce1 s Input the Step Distance ce2 s ce3 S 360.000 hUp s hDn S THC En Blow S CutSpeed 1800.00 [N] Kerf 1.90 3000.00 ManualSpd Angle 0.00 Manual StepMov [G] StepDis 360.00 [M] Flame Cut Pierce 0 +0000X: 0. 00 +X:0.00 -X:0.00 +Y:100.00 -Y:0.00 Length 00:00:00 Cut Time 00:00:00 Run Time



## Service Support Spirit

The theoretical distance:1000

The actual distance:1500

X System pulse value: 125 = New pulse:83.333

Step 6-Output new pulses to the system;



Pic-3

Step 7- Please follow the steps, please try again;

Note: If you find the moving precision is still not correct, please repeat the above steps.

Problem analysis:

✤ Adjust system pulse parameters--Y axis;

Solution: Step 1- Move the Y axis ; No need to install a pipe, mark the initial position on the

chuck; This is to measure the actual degree of rotation the Y axis moves.

Note: The Y axis is moving at an angle,

Step 2- Interface main , Press **[F]** button , Choose **[**StepMov**]** As show in pic1.

# Service Support Spirit

Step 3- Interface main , As show in pic1  $\rightarrow$  Press [G] button, then Input 360 value,

Press **[** enter As show in pic4.

Note: The input value of 360 is the theoretical degree of rotation of the Y axis.





Step 4- Interface main ,As show in pic1  $\rightarrow$  Press [F8 Zero] button [Clear the coordinates for easy observation],  $\rightarrow$ Press Y-axis direction key[Both direction keys can be], as shown in pic.  $\rightarrow$  The Y axis rotation a some angle. Please measure the rotation angle from this position to the initial position.



Make Work Simple

Step 5-Calculate the Y-axis pulse with the formula;

The theoretical rotation angle

【The actual rotation angle】

X System pulse value = new pulse value

→ For example: the System Pulse value is 125, The input theoretical angle value is 360°; The

actual angle is 390°

→ So:

The theoretical distance:360

The actual distance:390

X System pulse value: 125 = New pulse:115.384

Make Work Simple

Step 6-Output new pulses to the system;



Pic-4

Step 7- Please follow the steps, please try again;

Note: If you find the moving precision is still not correct, please repeat the above steps.

Step 8- Change parameters 【Chuck Max Spd】 to 80 RPM