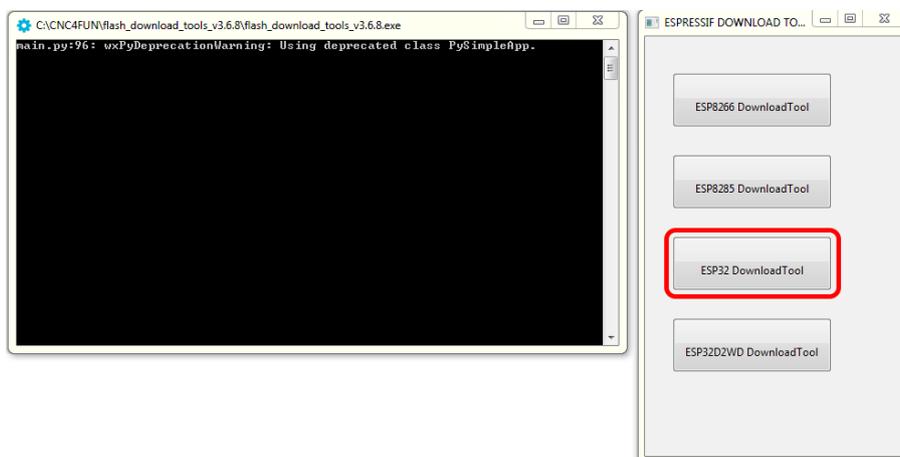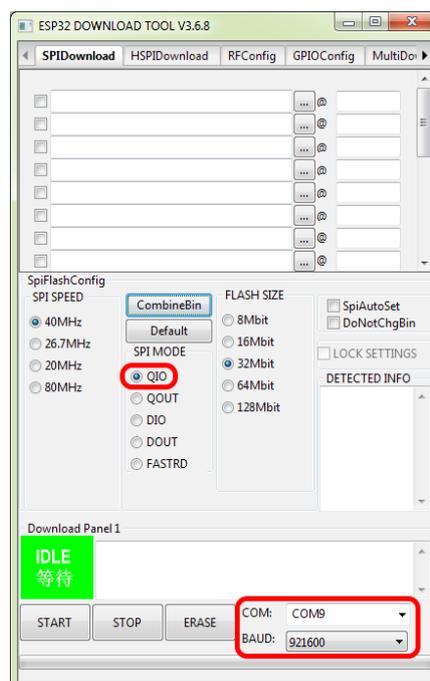# Instructions for firmware upgrade
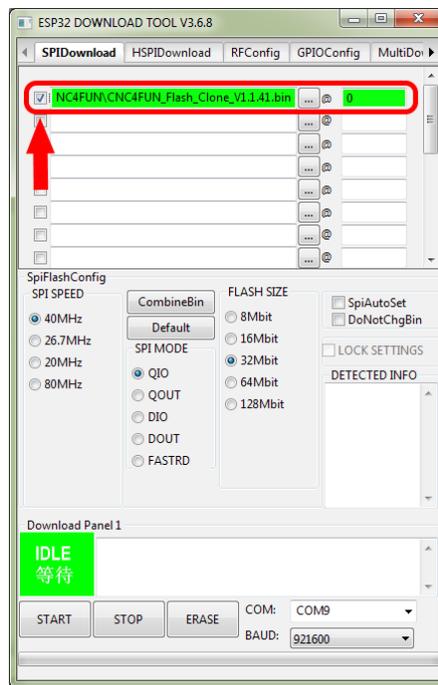
1. Download the *flash_download_tools_v3.6.8.zip* file (either from our website or directly from the Espressif page https://www.espressif.com/en/support/download/other-tools), unzip it and put it in a folder of your choice.

2. Download the *CNC4FUN_Flash_Clone_V1.1.41.zip* file (or the latest available version) and unzip it.

3. Connect the ESP32 module to the PC through the USB port and wait until the driver has finished installing.

4. Run the *flash_download_tools_v3.6.8.exe* file.

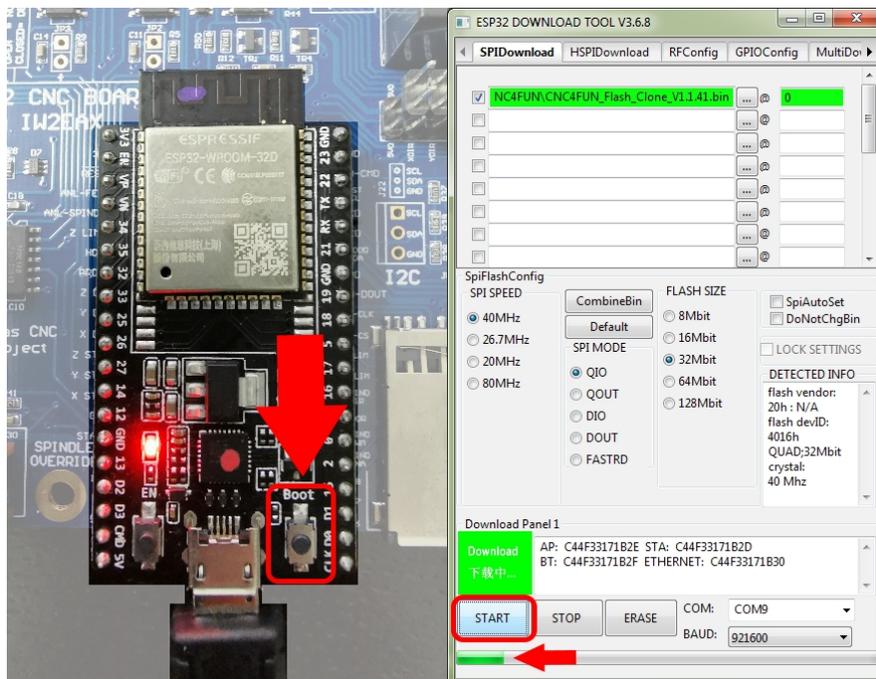5. Push the **"ESP32 DownloadTool"** button in the window that appears on your screen.

6. The firmware upload interface will appear. In the **SPI MODE** section, select the **QIO** option. Open the **COM** drop-down menu and select the port to which the **ESP32** module is connected. Select the **BAUD** drop-down menu and choose **921600**.
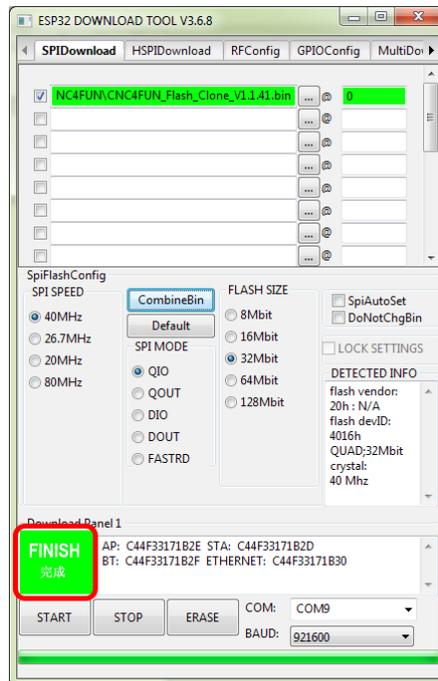
7. Click the button shown here below and select the file to be uploaded (in this case the *CNC4FUN_Flash_Clone_V1.1.41.bin* file that you have just unzipped). Click on the empty field to the right of the **@** sign and write **0**. _Important: remember to put a 'check' mark on your selection, otherwise the file won't be programmed._

8. Keep the **Boot** button pressed on the **ESP32** module while you begin to upload the firmware with the **START** button. You can release the boot button once the green bar showing the upload status has appeared.

9. Wait until the firmware has been uploaded completely. If everything has gone smoothly, the word **FINISH** will appear on the green panel.

10. You can now disconnect the module from your PC and start using your CNC.