

UPGRADING FIRMWARE MKIII CONTROLLER V1.0

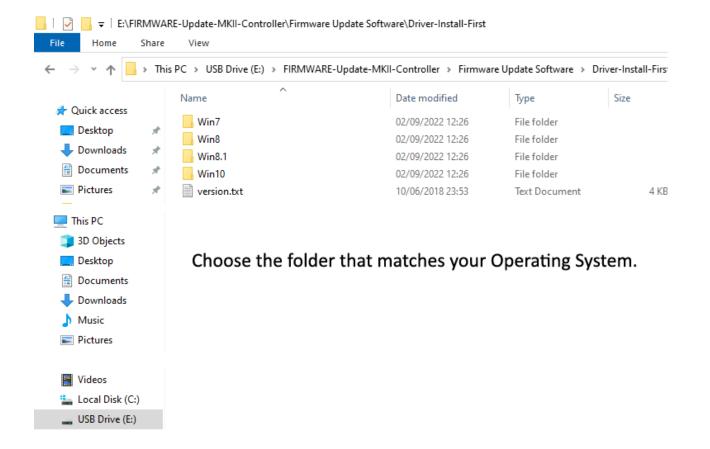
Install The Driver

If you have previously installed the drivers and Dfuse application you can skip down to the Programming section of this document.

Before starting make sure the USB lead is disconnected from the Computer to Coil Winder controller.

In this document we are showing the controller box on the desk rather than attached to a machine. You do not have to remove the controller box from your machine to do this and can do it with the controller box still attached to your machine.



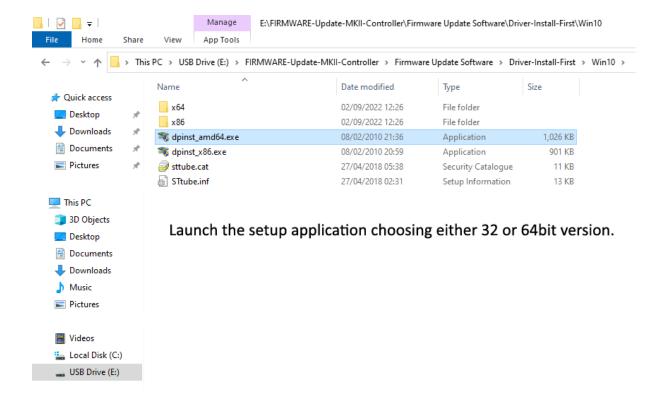


First thing to do is install the USB drivers for the DFU application that will allow you to upgrade the firmware on the ARM Controller MKIII.

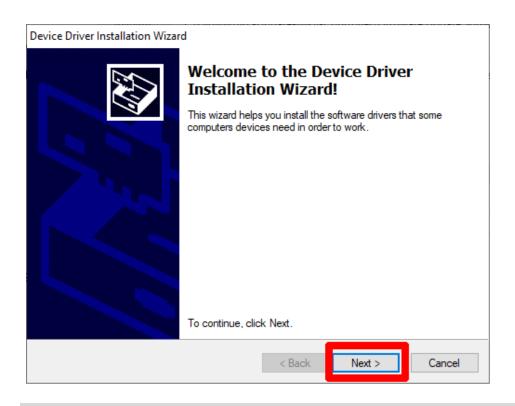
Insert the USB Memory Stick and navigate to the folder

<pre

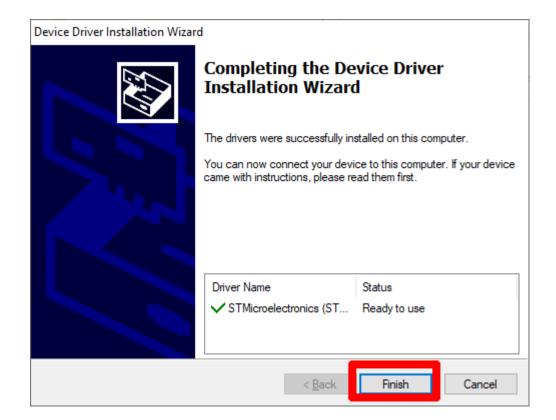
Go into the folder that matches your Operating System.



First Now launch the *dpinst*_ file that matches your machines specification of 64bit or 32bit. It should warn you if you choose the wrong one.



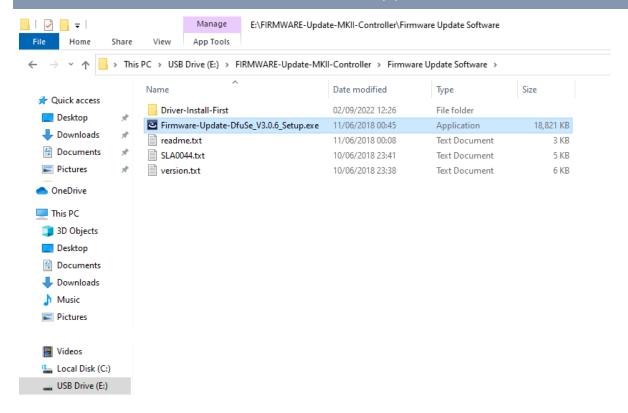
Click the Next Button



Click the Finish button.

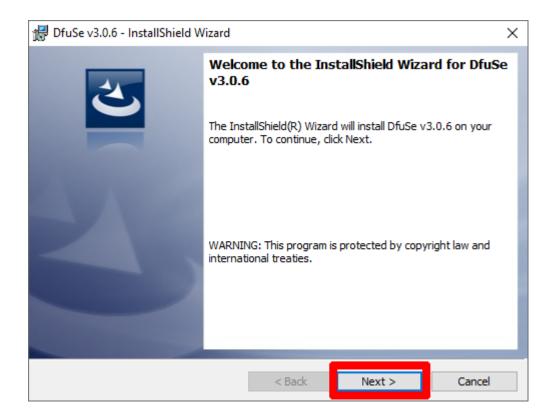
The USB drivers are now installed.

Install DFU Application

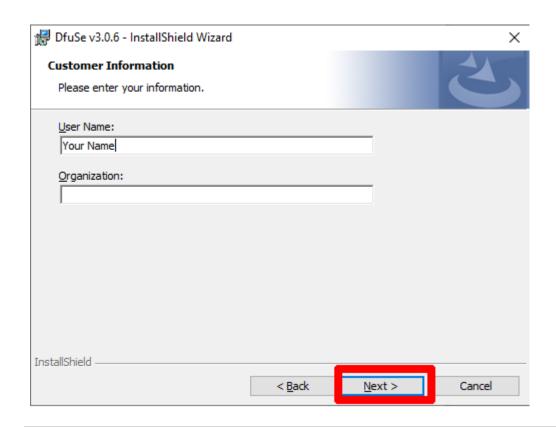


With the USB Memory Stick still inserted navigate to the folder <Drive:>\FIRMWARE-Update-MKII-Controller\Firmware Update
Software\

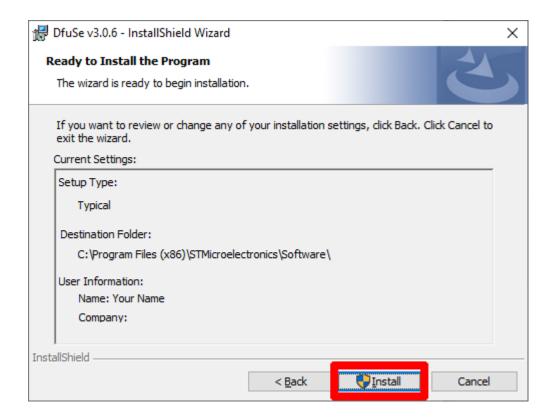
Launch the file Firmware-Update-DfuSe_V3.0.6_Setup.exe



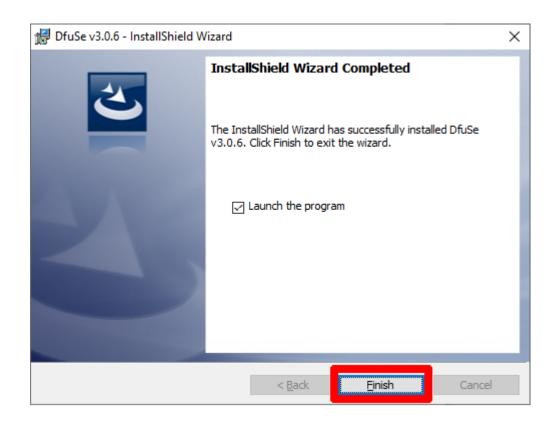
Click the Next button.



First Enter Your Name and Click the Next button.

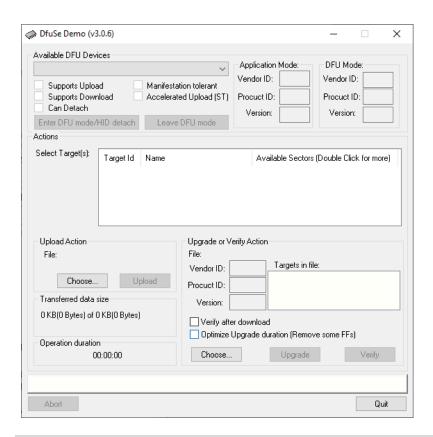


Click the Install button.



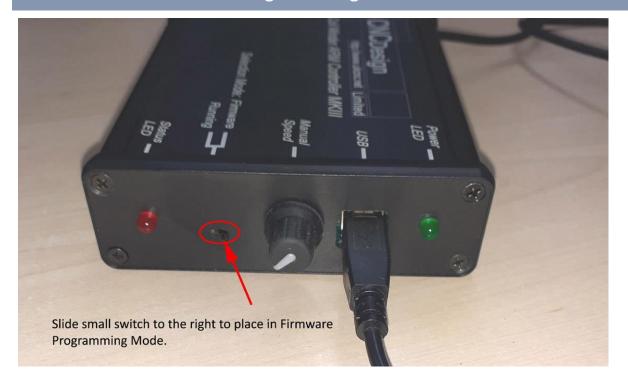
Click the Finish button.

The Application should now launch.



As you can see at the top Available DFU Devices is blank.

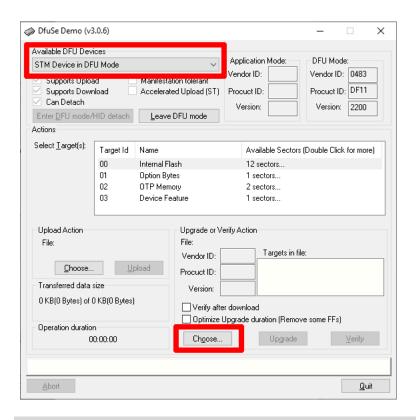
Programming the Firmware.



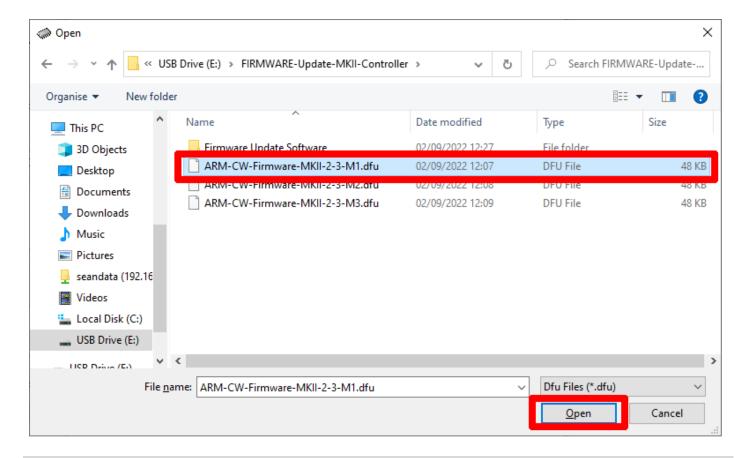
Set the switch on the controller to Firmware.

Then plug in the USB lead.

STM Device in DFU Mode should now appear as shown in picture below.



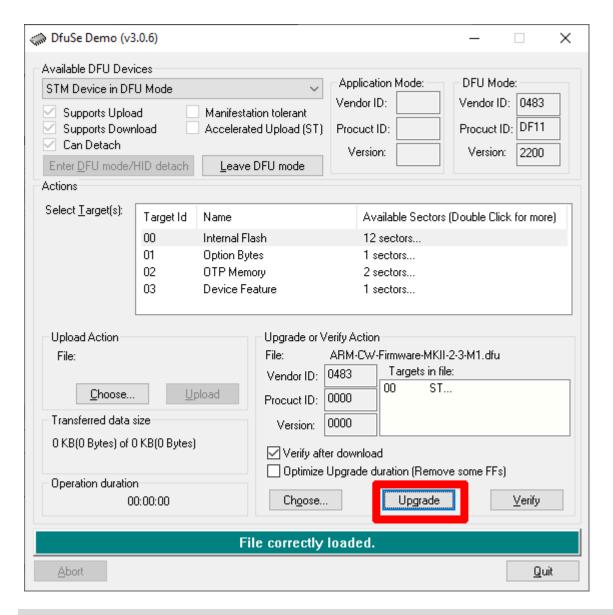
Click on the Choose button to load the firmware file.



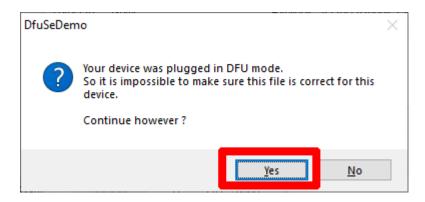
Navigate to the folder *<Drive:>\FIRMWARE-Update-MKII-Controller*Choose the firmware file you wish to load and click Open.

The reason there are 3 different firmware files is for when you want to run more than one machine on the same computer.

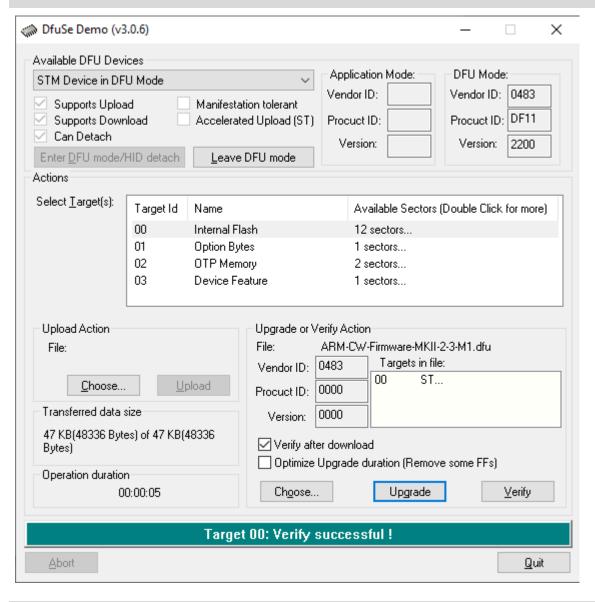
This is covered in other documentation, but generally if you are using one machine on your computer then choose the file with **M1** on the end.



Click on the Upgrade button.



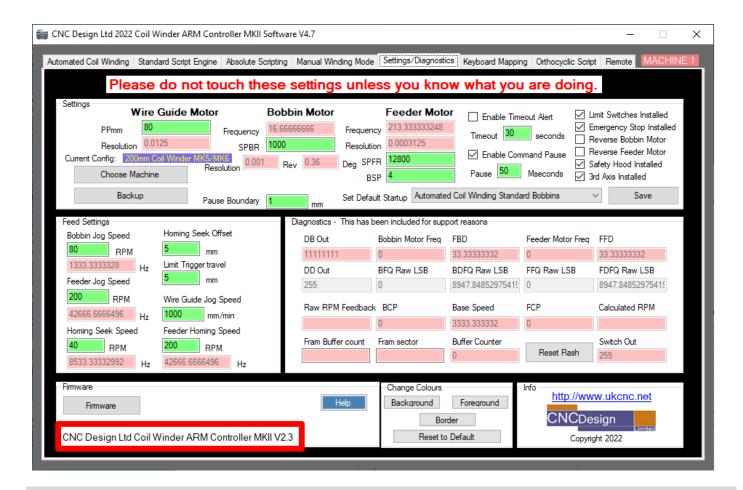
First Click Yes to the next warning



The Firmware upgrade is now complete!



Now disconnect the USB lead from the controller. Slide the little switch from Firmware to Running. Then re-plug the USB lead back into the controller.



When launching the CNC Coil Winder ARM Software, it should now show the Firmware version that you have just programmed under the Settings/Diagnostics tab.