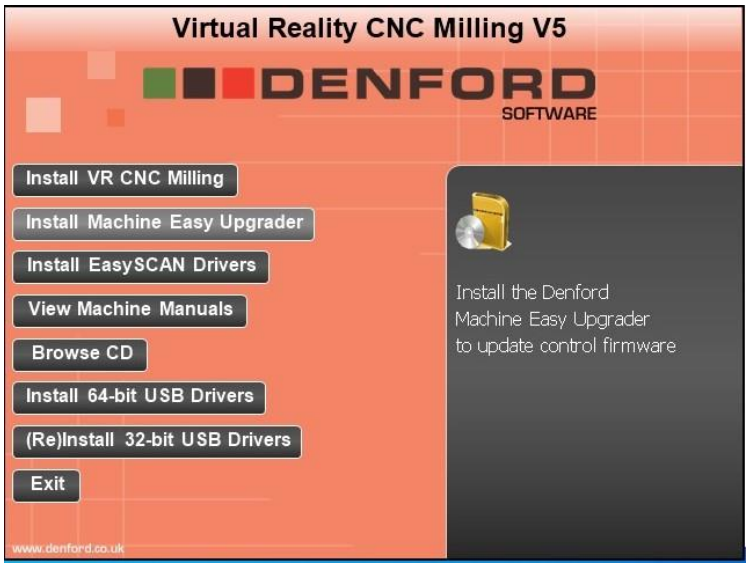
Tech note – Easy Upgrader 2

Easy Upgrader can be used to:

- Update Firmware (only if required to do so, different versions are described within the firmware section)
- Change the Machine type
- Change the Serial number of the machine
- Device IO tests
- Encoder tests

Installing Easy Upgrader 2:

1. If Easy Upgrader 2 is not installed on your computer, you can download the latest version of VR Milling 5 or VR Turning (Note version 6 of VR milling and VR Turning contains a version of Easy Upgrader that is not compatible with the older Baldor Based machines)
2. Visit https://denford.co.uk/software-downloads-support/ to download
3. Within the installer menu click “Install Machine Easy Upgrader” and follow the steps to install



4. Once installed Easy Upgrader 2 can be found in the Denford Applications folder or within the start menu

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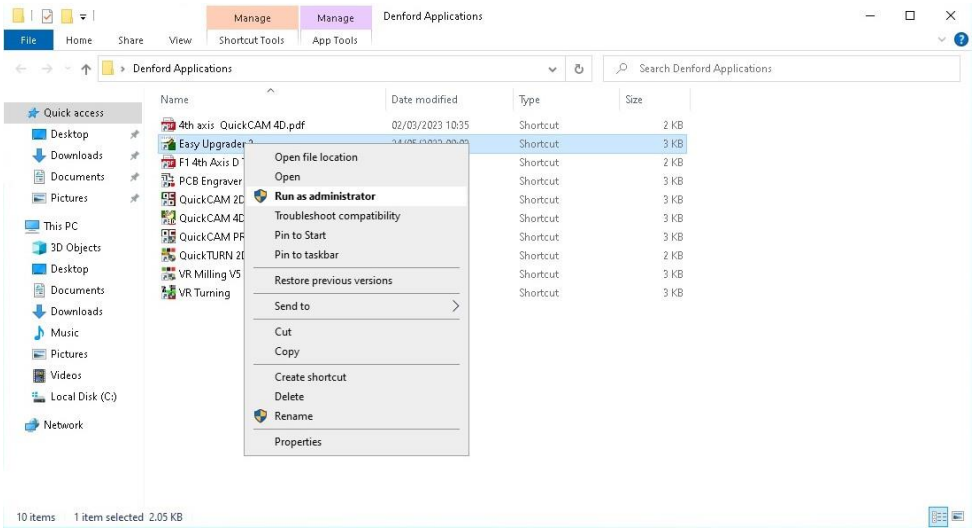
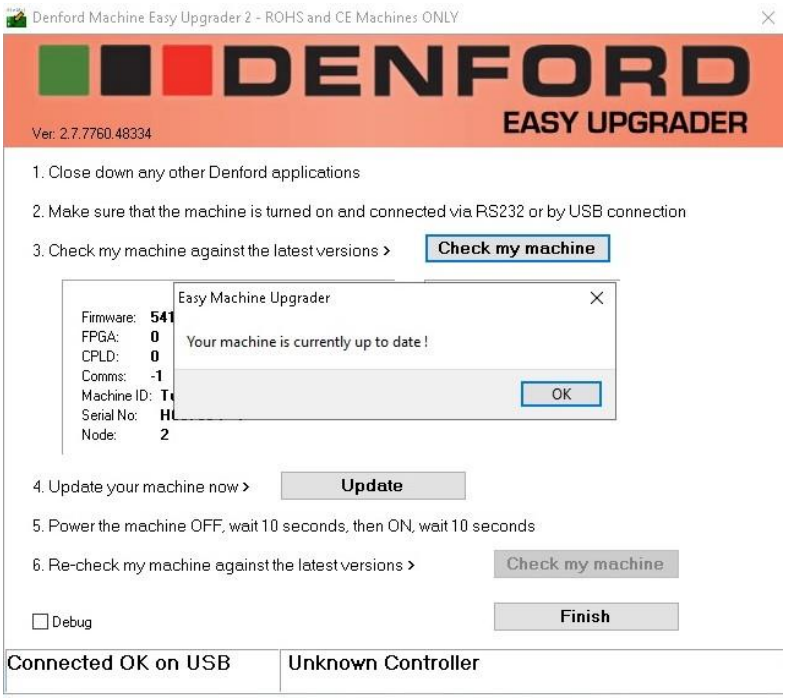
Firmware

Before upgrading the firmware you must ensure that you correctly identify the NextMove card in use and the electronics in use on the machine.

1. Right click Easy Upgrader and Run as Administrator



2. Follow the instructions within the software but **do not** carry out step 4. Update



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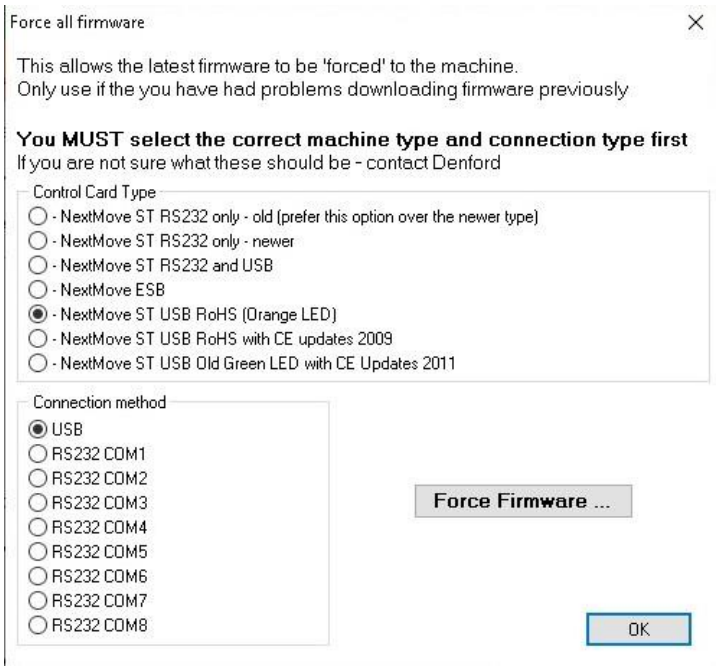
3. Double click anywhere on the orange banner to open the card selection window



4. Select the correct card you have fitted to your machine with a note on if you have the CE upgrade to the electronics
5. Select the correct connection method
6. Press the Force Firmware button
7. Power cycle the machine once the firmware has downloaded

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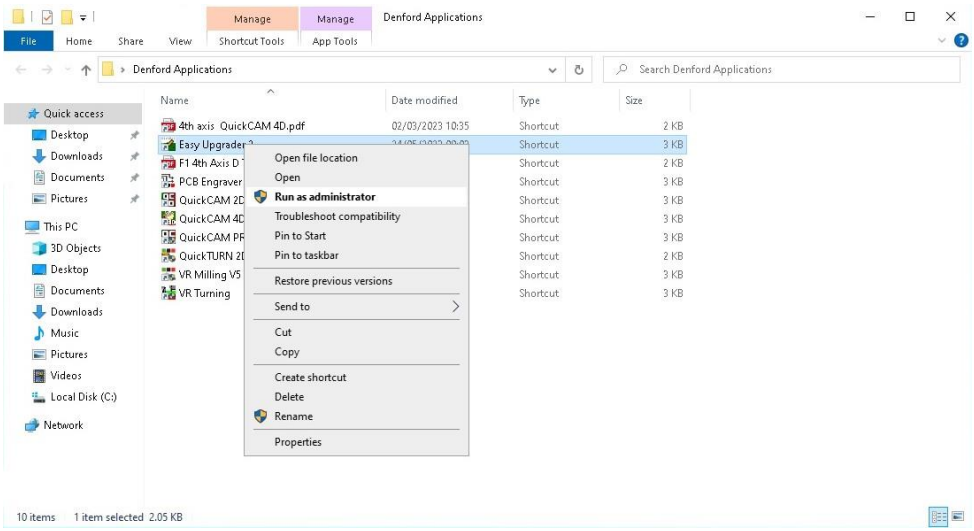
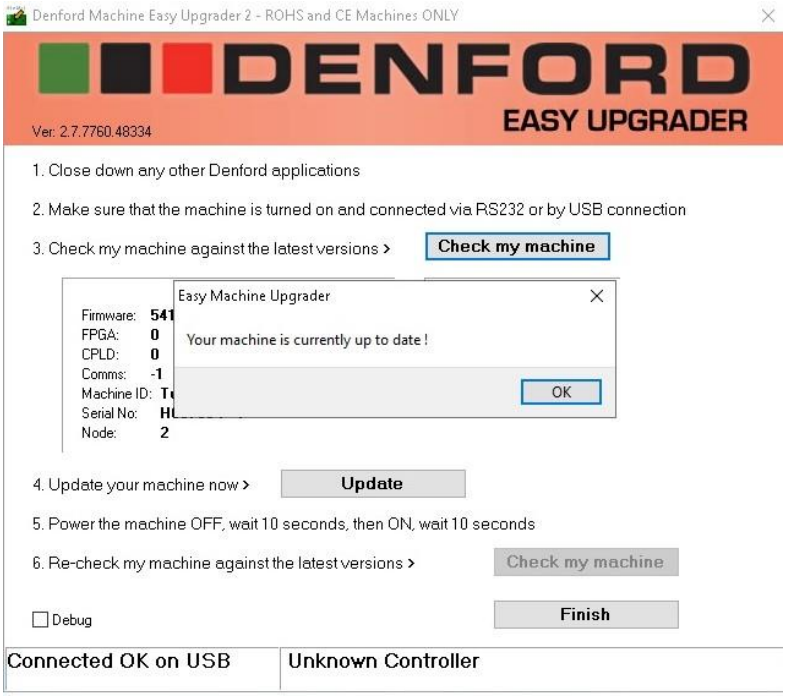
Changing Machine Type or Serial Number

1. Right click Easy Upgrader and Run as Administrator

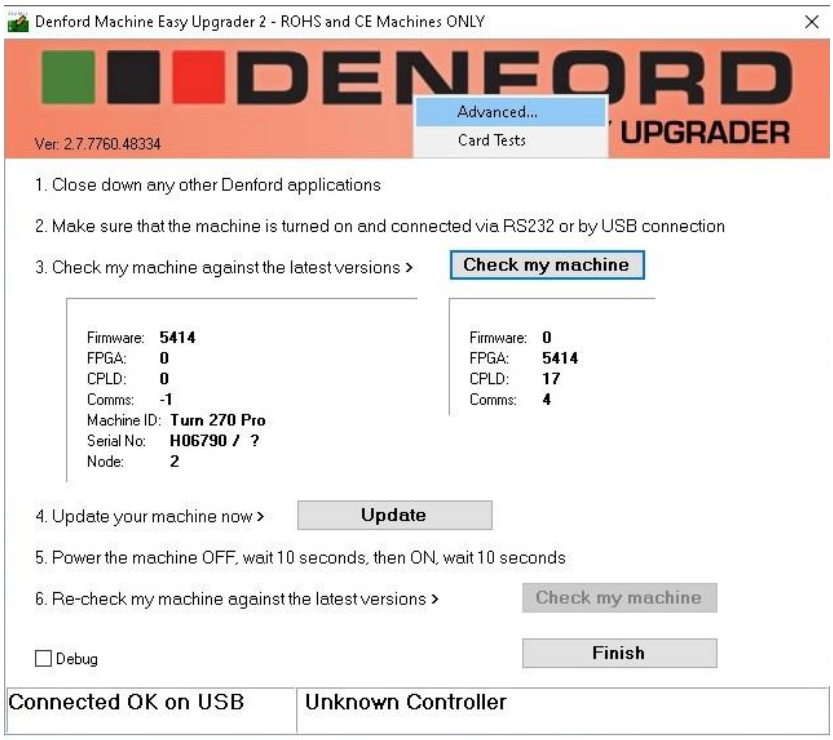


2. Follow the instructions within the software but **do not** carry out step 4. Update

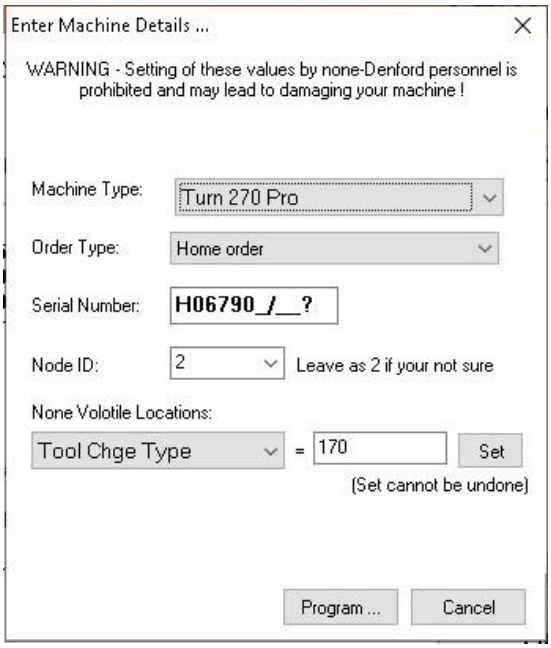


Tech note – Easy Upgrader 2

3. Right click anywhere on the orange banner and click Advanced – Password is **dave**



4. The below window will pop up and here the Machine Type and Serial Number can be changed

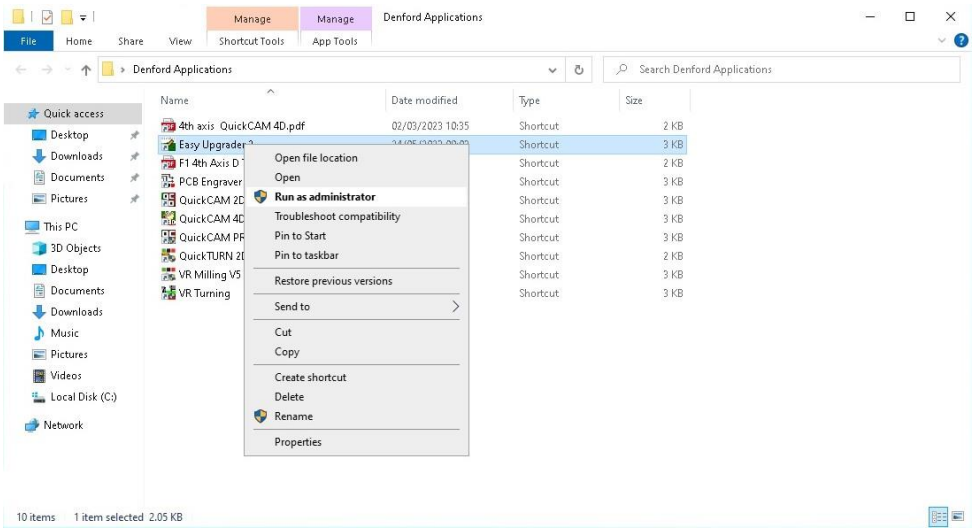


5. Once changed press the Program button

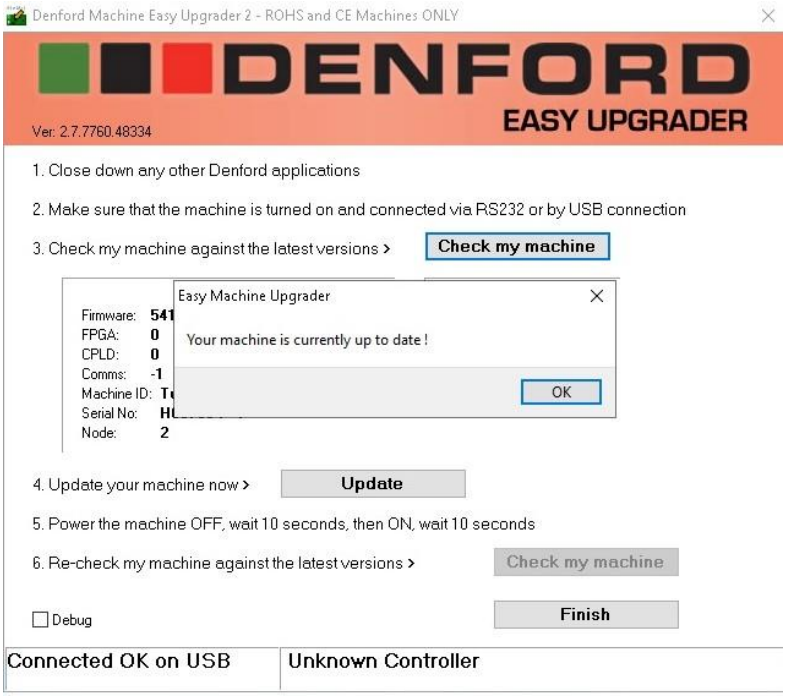
Tech note – Easy Upgrader 2

IO Diagnostics and Encoder tests

1. Right click Easy Upgrader and Run as Administrator



2. Follow the instructions within the software but **<u>do not</u>** carry out step 4. Update



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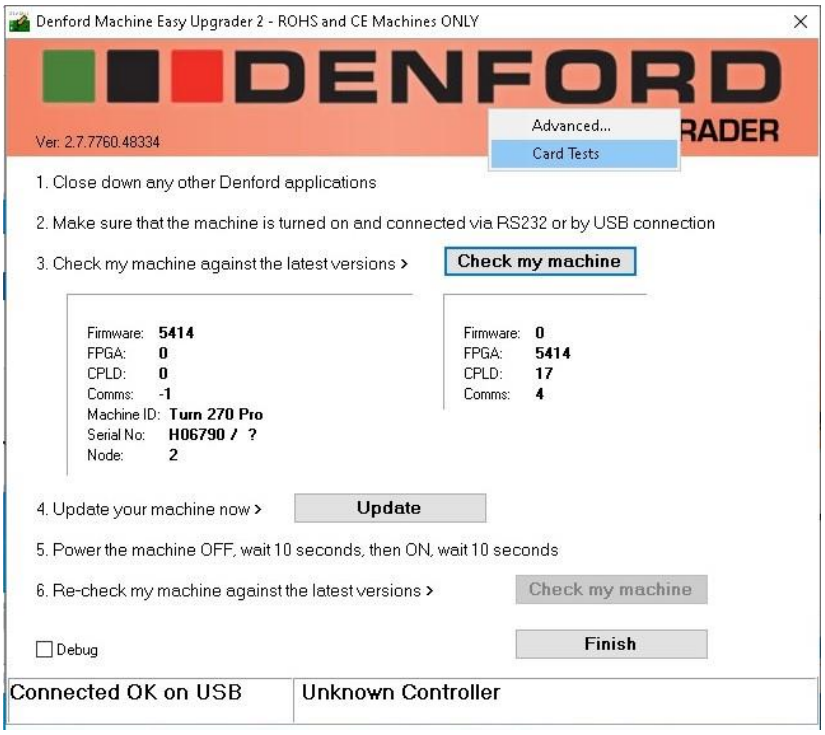
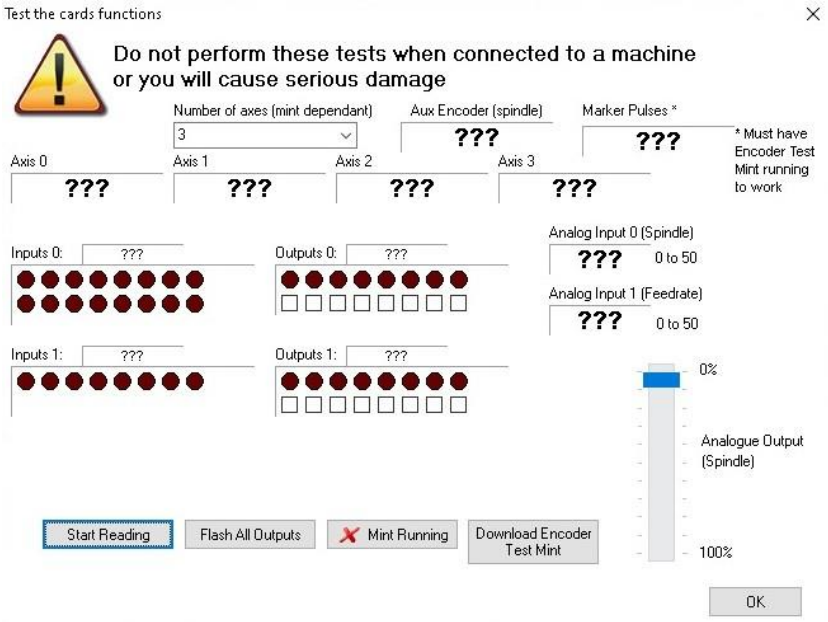
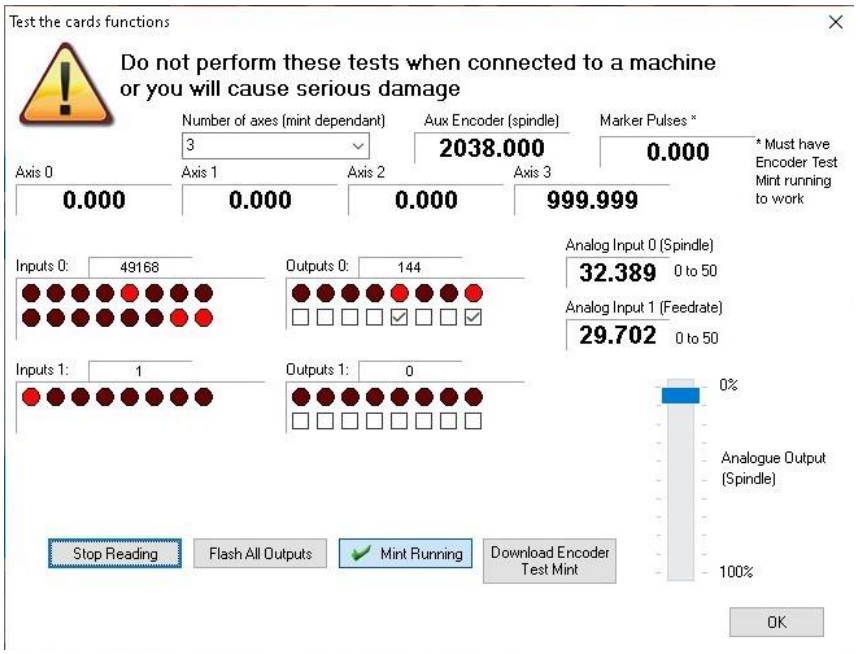
3. Right click anywhere on the orange banner and click Card Tests – Password is **TRISTAR**



4. In order to monitor the IO, the Start Reading button must be pressed in he bottom left hand corner



5. Within the menu:
    a. The spindle encoder position (if fitted) can be monitored
    b. The Marker Pulse of the encoder can be monitored (for notification of a full revolution)
    c. The position of the AXES can be viewed
    d. The different inputs can be monitored
    e. The different outputs can be monitored and forced on or off using the check box underneath
    f. The Analogue Inputs (for the spindle speed and federate speed override knobs if fitted) can be monitored



Note in order to carry out any Encoder tests, the Download Encoder Test Mint button should be pressed first.