# QC20-W COM port profile for Windows 7

Overview

The purpose of this application note is to configure Ballbar 20 software to connect to QC20-W via a Bluetooth device set up as a COM port. This process should only be considered when it is not possible to get a PC to communicate with the QC20-W ballbar using the Microsoft Bluetooth stack, either by the PC's on-board Bluetooth or using a Bluetooth dongle.

If it has not been possible to get the QC20-W to communicate through the Microsoft Bluetooth stack, activate either the internal Bluetooth and or connect a Bluetooth dongle before continuing with the following steps.

Note: If using an external Bluetooth dongle, ensure the internal Bluetooth is switched off so that they do not conflict.

Step 1 - Pair the QC20-W with Windows

1. Turn on the QC20-W device
2. Right click the Bluetooth icon ( ) in the bottom right corner of the taskbar
3. Click 'Add a Device'
4. The 'Add a Device' screen will then be presented.
5. Select the QC20-W device (identified by the serial number) and click 'Next'
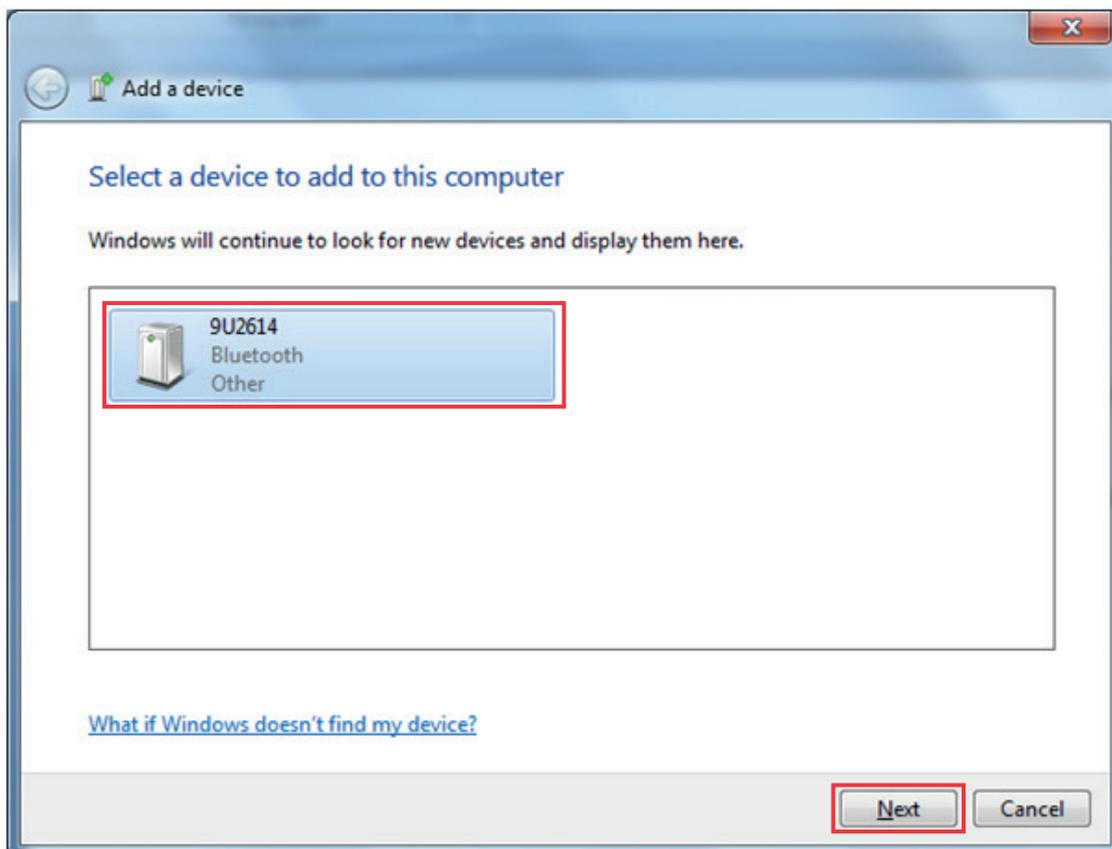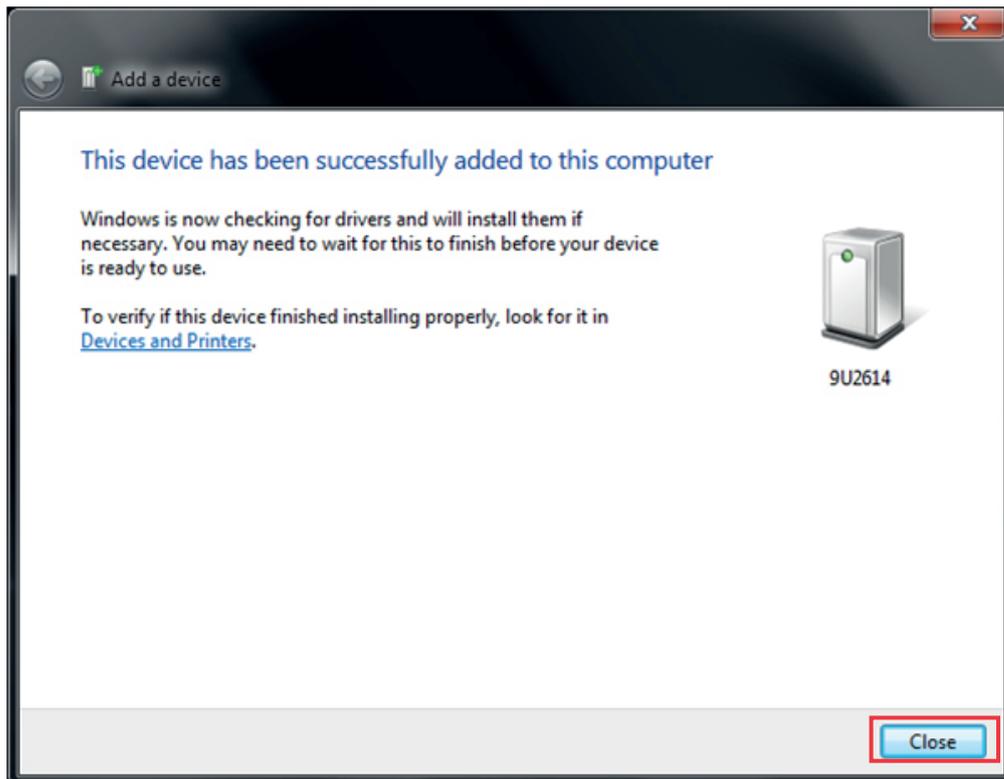
6. Once selected the following three options will be available.

7. Select 'Enter the device's pairing code'.
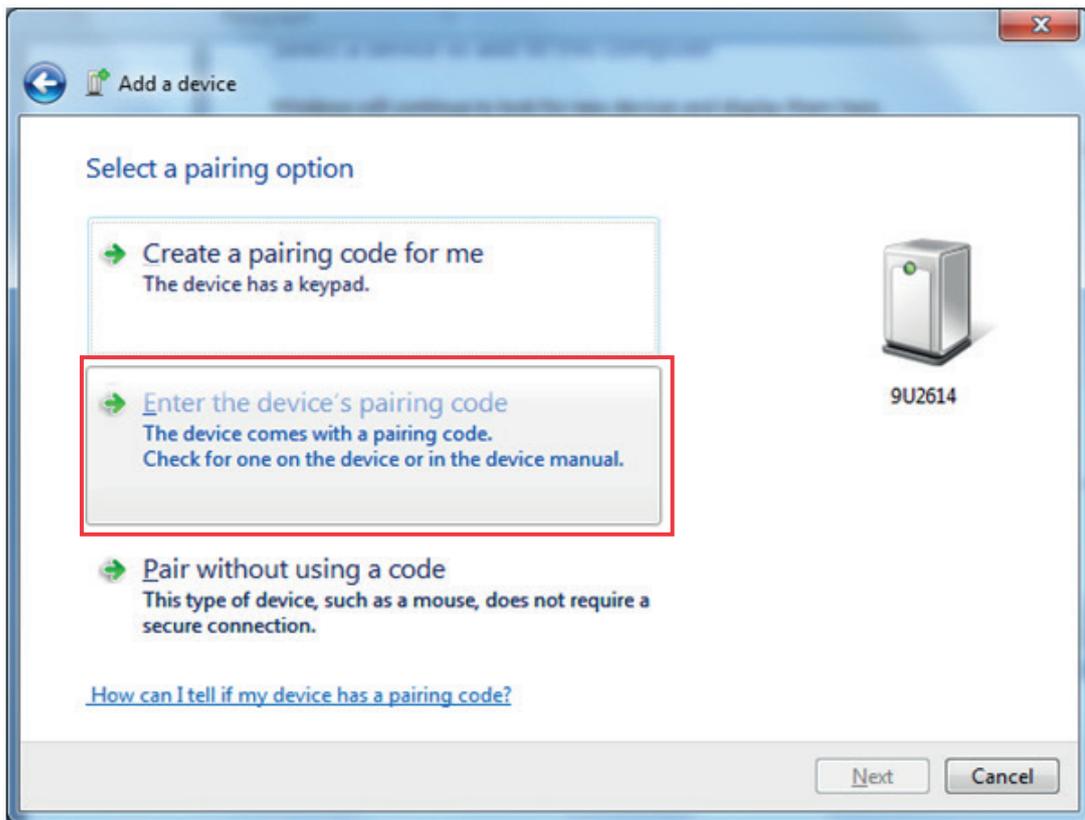
8. Enter '0000' for the pairing code and click 'Next'.
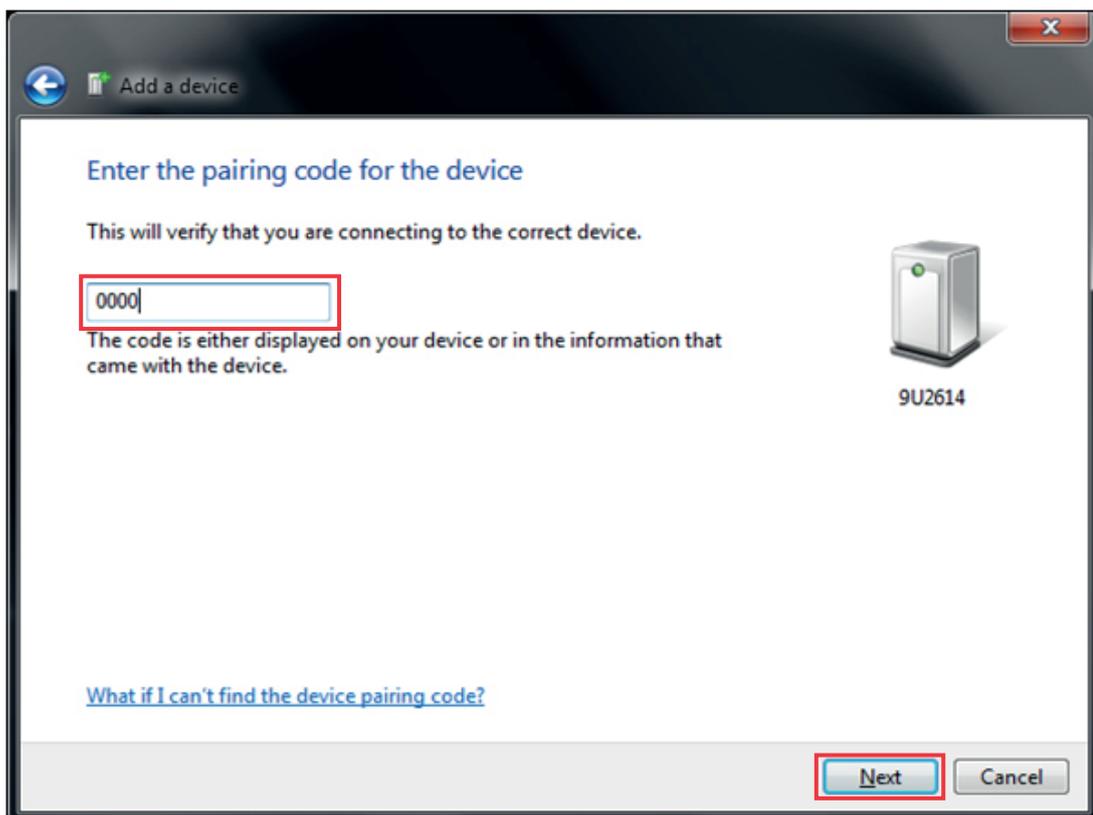
9. When pairing is successful, the following screen will be displayed. Select 'Close'.

Step 2 - Configure Renishaw Ballbar 20 software

1. Right click the Bluetooth icon ( ) in the bottom right corner of the taskbar.
2. Click 'Show Bluetooth devices'.
3. In the following screen, the QC20-W device will be shown by the serial number.
4. Right click on the QC20-W and select 'Properties'
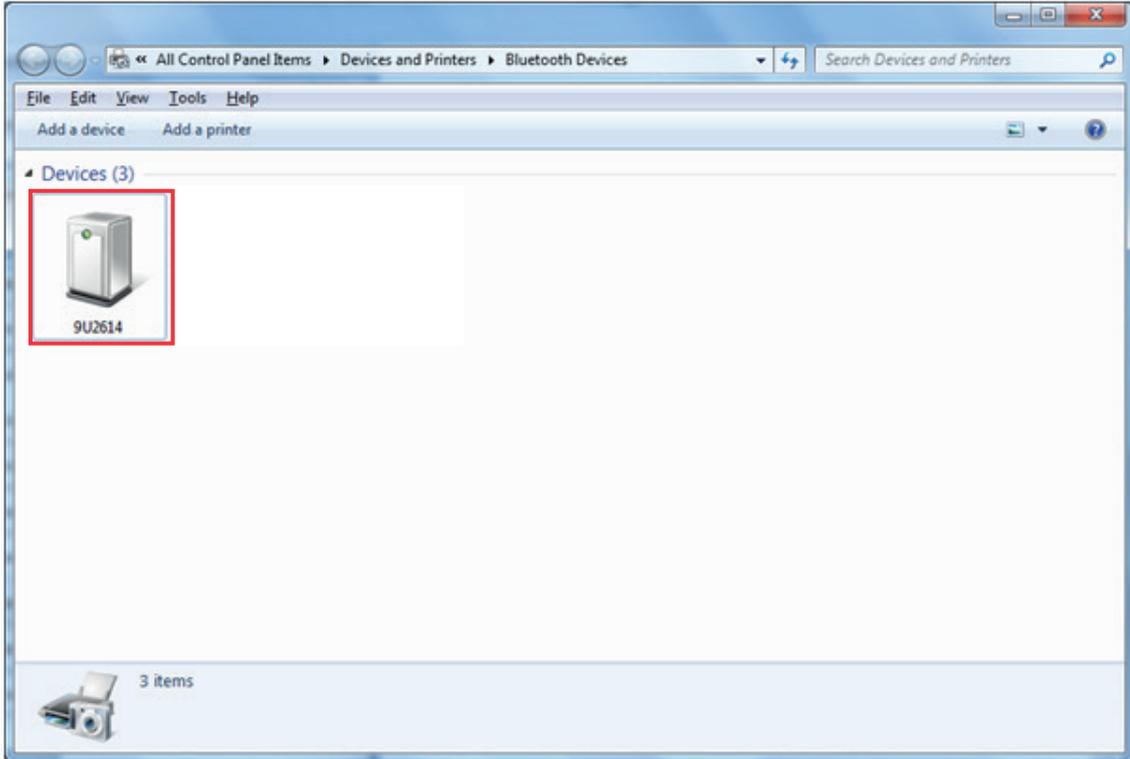

5. In the following 'Properties' window, select the 'Hardware' tab.
6. Make a note of the 'COM' (always the 'Outgoing' port) number (in this example, COM14)
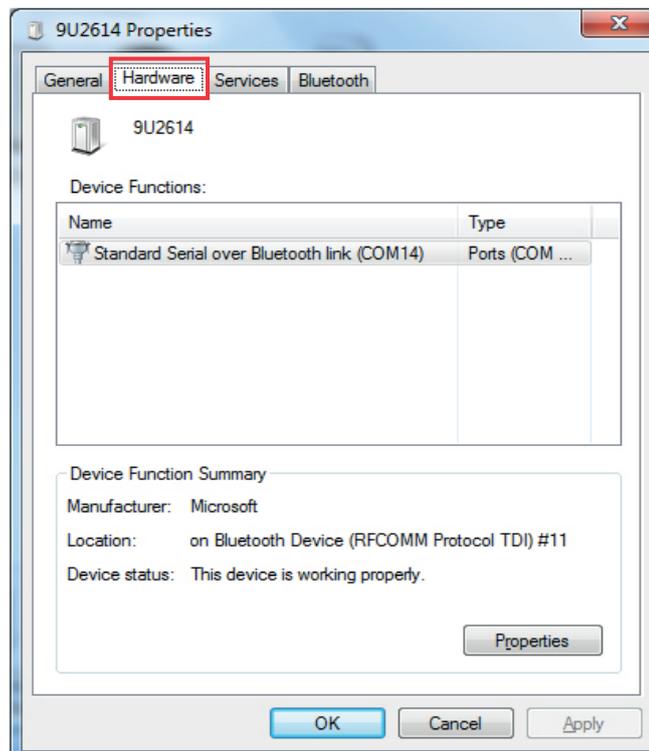
7. Open the BallbarCatalog.xml file which can be found using the following steps:

   • Start > My Computer > System C: > Users > Public > Documents > Renishaw Ballbar 5 > Application
   (*On some network PC's you may need to substitute 'Public' for your username*)

8. Right click on 'BallbarCatalog.xml' and click 'Edit'.

9. Type the following as it appears below after the <BALLBAR_CATLOG> tag:

   <BALLBAR ID="QC20-W_NOTSET">
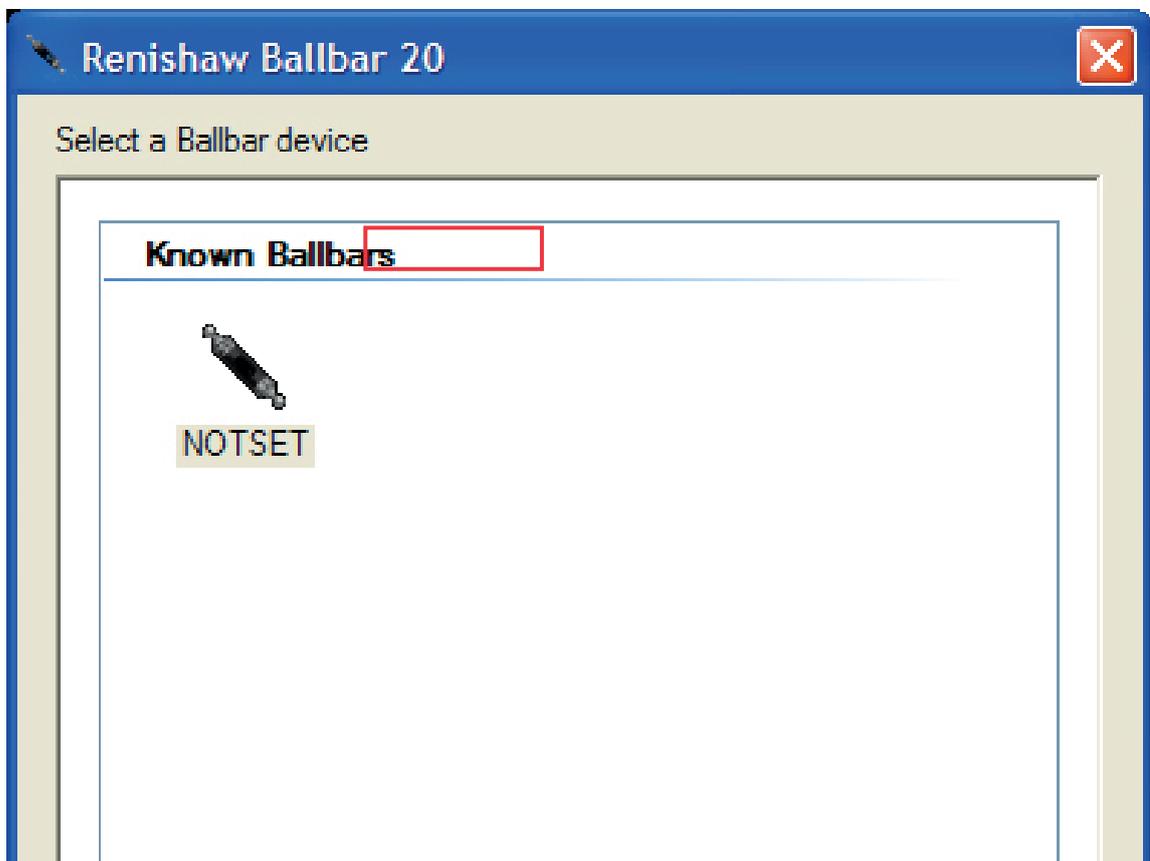
       <MODEL>QC20-W</MODEL>

       <SERIAL_NUMBER>NOTSET</SERIAL_NUMBER>

       <BALLBAR_ADDRESS>*COM14*</BALLBAR_ADDRESS>

    </BALLBAR>

   Replacing *COM14* in <BALLBAR_ADDRESS> with the outgoing COM port noted previously.

10. Save the .xml file which is produced.

11. Start Renishaw Ballbar 20 in Advanced mode and navigate to the Connection screen.
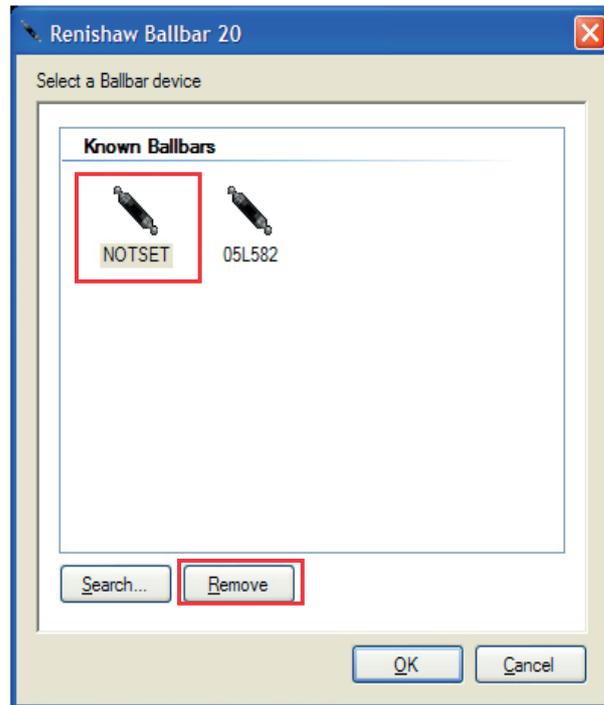
12. Select QC20-W from the 'Port' drop down
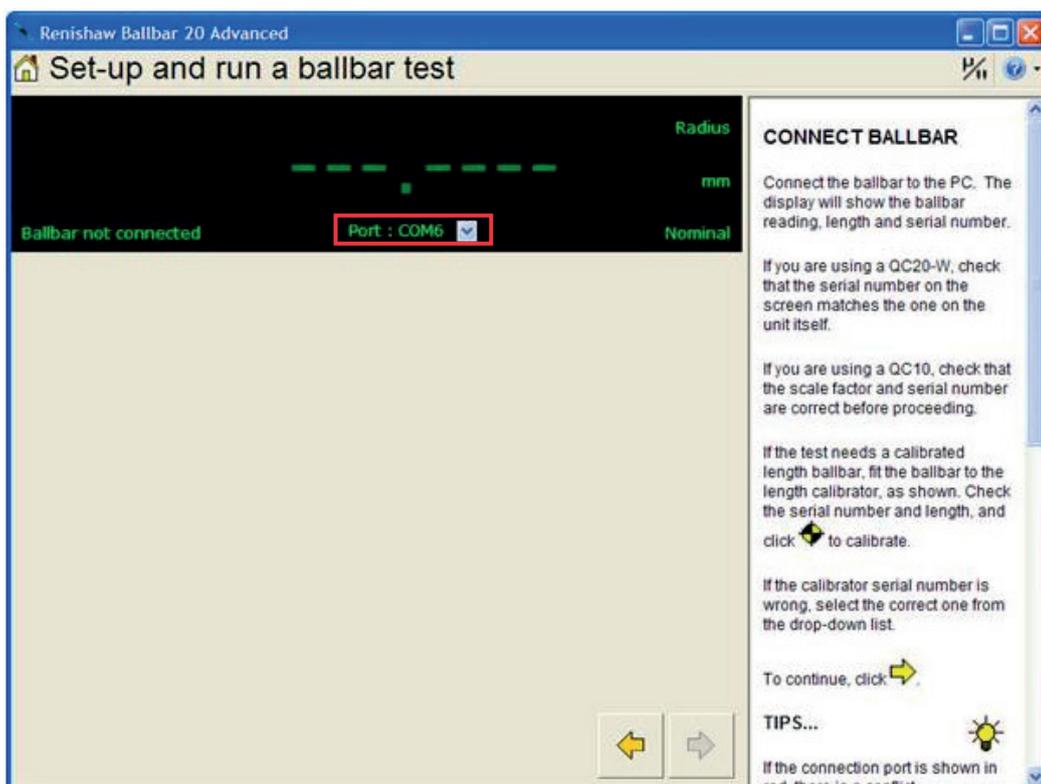
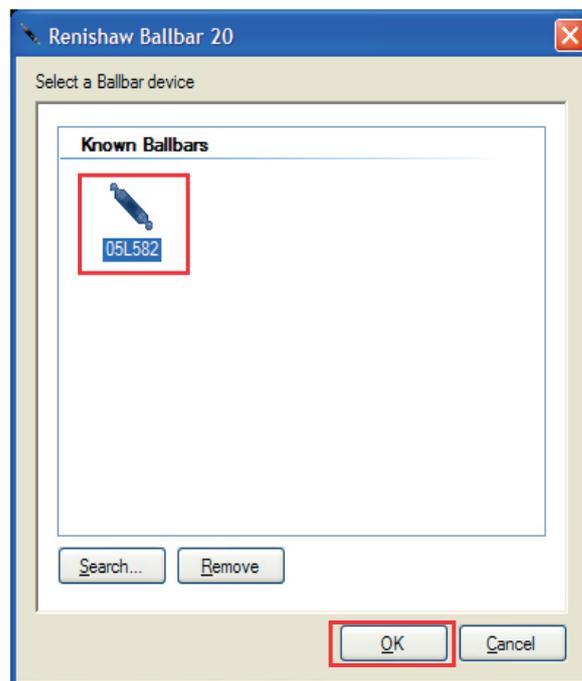13. Select 'NOTSET' and click OK. A connection to the QC20-W should be established.
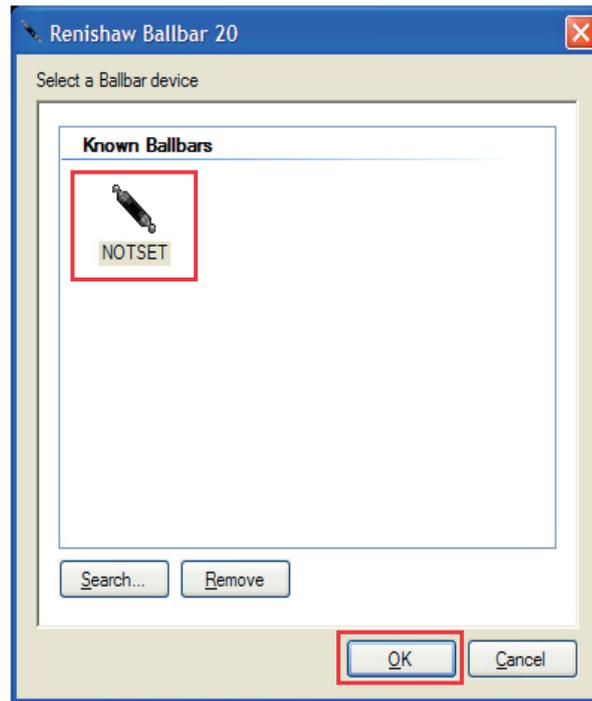
14. Select QC20-W from the 'Port' drop down again

15. Select 'NOTSET' and click 'Remove'

16. Select the correct QC20-W by serial number and click 'OK'.

17. The QC20-W should now always connect via the COM port.

18. To add another QC20-W to Ballbar 20, repeat all steps from the beginning.

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