**Graphical Tester for Otoplastics**

With Bluetooth® Control

Type BLT2010

**Installation instructions
for Windows 8**

V2.10

**TABLE OF CONTENTS**

## 1 INSTALLING A BLUETOOTH® LEAKAGE TESTER

### 1.1 Introduction

This article walks you through the process of adding a Bluetooth® *leakage tester* to your Windows 8 computer, as well as gives you some directions to watch out for so that the process runs smoothly.

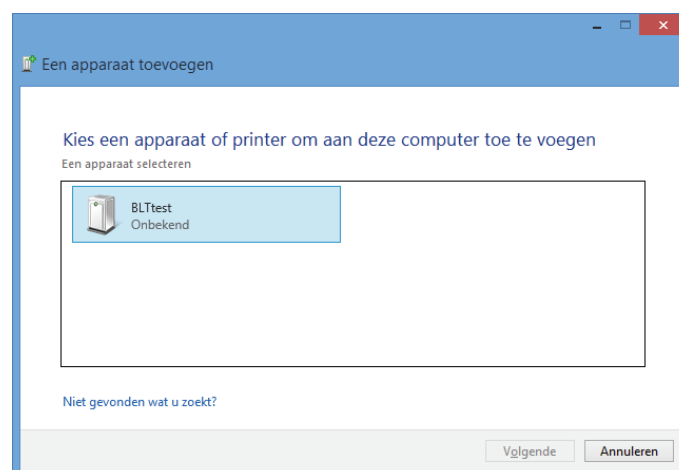### 1.2 Before adding your Bluetooth® *leakage tester* to your computer

Connect to the Internet if the computer is not already connected. Always check if your Windows 8 is up to date. You might manually check for Windows 8 updates e.g. by switching to the desktop and then right-click on the lower left of the screen, click **Control Pane**l. In the **Control Panel** select **Windows Update**. This installation guide is based on Windows 8, Service Pack 1, and both 32-bit and 64-bit systems. If your computer does not already have built-in Bluetooth® you can, instead, use a USB Bluetooth® dongle or micro adapter.
You will find generic information on how to set up a Bluetooth® dongle in §3.7.

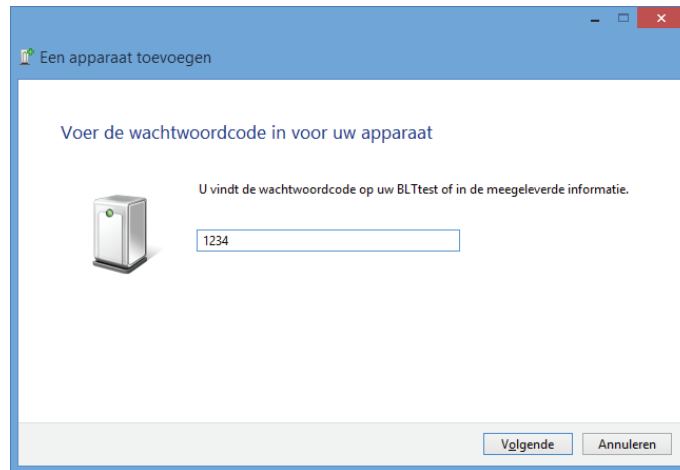### 1.3 Finding and adding your Bluetooth® *leakage tester*

This paragraph describes the process of first finding and then adding a Bluetooth® *leakage tester* to your computer.

There are many ways to instruct Windows to start looking for Bluetooth® devices in its neighbourhood, we used this one:

- Power-on your *leakage tester* and switch to the *Desktop*
- Right-click on the lower left of the screen and select **Control Panel**
- In the Control Panel click  **Devices and Printers**
- Click **Add a Device** at the top left
- The following window will show up with (maybe amongst other devices) your *leakage tester*:



- Select the *leakage tester* (here with s/n: BLTtest) and click next
- The next window will ask you for a pairing code, your *leakage tester* comes with the pairing code '1234'

- Enter **1234**, and click next (if you wait longer than thirty seconds the procedure will terminate, then you'll have to try again)

After a while your device will be configured and Windows will end the procedure with the message that 'your device has been successfully added to this computer'.

The last thing to do before the hardware installation is complete is to find out through which port Windows 8 wants to communicate with your *leakage tester.* The controlling software (discussed in chapter 2) needs to know this *(serial) port number*. Because one might want to look up this more often, a dedicated paragraph (§3.3) is available.

The whole Bluetooth® installation may take several minutes.

## 2 INSTALLING THE BLUETOOTH® CONTROL SOFTWARE

### 2.1 Downloading the control software

Your dealer will inform you where you can download the software package for your Bluetooth® leakage *tester* from their support section on their website. The *zip*-file name depends on language and version. At this time the English version reads **OtoTesterBLT2.10EN.zip**. Download this file.
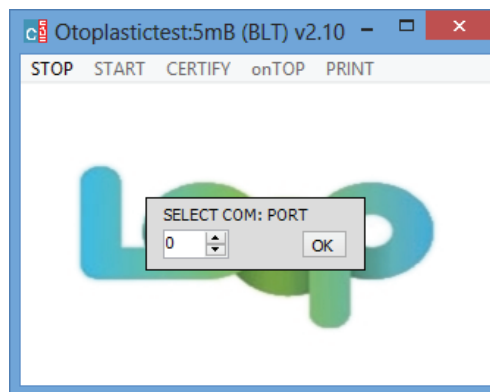
### 2.2 Software location and un*zip*

Create a new folder (directory) where you want the software for your *leakage tester* to reside, e.g. C:\LeakageTester. Transfer the *zip*-file from your download directory to your new folder and un*zip* it to this folder. The application resides in the subdirectory C:\LeakageTester\BLTreleaseEN and reads **OtotesterBLT**. You can create a shortcut and place it on your *Desktop*, or *Pin* it *to* the *Start* screen. If you want to control different *leakage tester* with the same computer, you can create separate directories for each tester and distinguish between them by choosing different shortcut names.

### 2.3 Determine the appropriate port number

The Control Software needs to know through which port Windows wants to communicate to the leakage tester. You have to determine the port number only one time. Because there are several methods to find this **number** please read §3.3 *Looking up your Bluetooth® serial port number.*

### 2.4 Bringing the software into operation

Double-click on 'OtoTesterBLT' and, the first time, *before* the following window appears:



- Windows might ask you for a **Security Warning** confirmation: confirm
- Windows might want you to update the **.NET Framework**: see next paragraph

Enter the number for the *Bluetooth® serial port* the computer came up with at the determination steps in §3.5 *Looking up your Bluetooth® serial port number* and click on OK.
**This completes the installation of your *leakage tester*.**

### 2.5 Window 8: update .NET Framework version

When you double-click 'OtoTesterBLT' and Windows 8 comes up with a window asking you to update the **.NET Framework** (to 2.0), then just follow the instructions and return to §2.4.

# 3 TROUBLESHOOTING BLUETOOTH® CONNECTIONS

## 3.1 Common pitfalls

Ideally, adding Bluetooth devices should be that easy, but there are some "pitfalls" to look out for. Check the following items to troubleshoot Bluetooth® connections:

- Make sure that your PC or laptop actually has Bluetooth®, check §3.2 below
- Make sure that your Bluetooth® is **ON**; any proprietary software might have a switch that enables or disables it.
- Make sure that your *leakage tester* is powered on and make sure that the LED power indicator is on. (fresh batteries maybe).
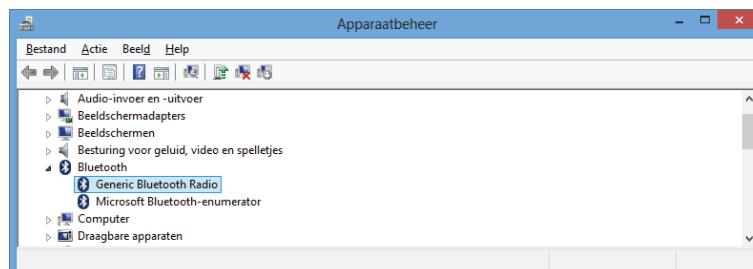
## 3.2 Finding out if you have (built-in) Bluetooth®

There are many ways to find out whether you have Bluetooth® services available on your computer or not (is my computer Bluetooth-enabled?), we mention two methods here, one:

- Check the taskbar at the bottom of the screen to find out if there is a 🔵 (Bluetooth®) logo

Or, two:

- Switch to the *Desktop*
- Right-click on the lower left of the screen and select **Device Manager**
- You should see a section **Bluetooth-radio's** in de device list:



- Click the (**>**) *arrow* sign next to the **Bluetooth-radio's** section to check that there is any Bluetooth Radio in the list

## 3.3 Looking up your *Bluetooth® serial port* number

The controller software needs to know the *Bluetooth® serial port* number, to find out this number perform the following steps.

- Switch-on your *leakage tester*
- Right-click on the lower left of the screen and select **Control Panel**
- In the Control Panel click **Devices and Printers**
- Right-click your *leakage tester* in the section **Unknown (n)** and select **Properties**
- Click the *Services* tab and, after a little while, the *Bluetooth® serial port* number (e.g. COM23) will become visible
- Be sure that the **checkmark** (☑) at the port is checked
- Write down this number (here 23) and enter it when the software (chap. 2) asks for it

## 3.4 Incoming or Outgoing Serial Port

Not very likely, but if Windows 8, at a certain point, wants you to decide between a so called **Incoming** or **Outgoing** 'serial port' always select the **Outgoing** port.

## 3.5 Control software cannot make a connection

If your *Leakage Tester* is visible in the **Devices and Printers** panel in section **Devices (n)**, but the control software is not able to connect to the tester, or the connection is instable, check the following:

- Check whether you are using the control software for Bluetooth® testers and not, accidentally, for USB testers
- Check the whole Bluetooth® chain, read §3.1 Common pitfalls
- When using separate dongles, sometimes the generic Windows 8 Bluetooth driver is not good enough; try to install the micro adapter with the software that came with it (CD-rom), or try to find the appropriate software on the manufacturer's site to build a precisely matching Bluetooth-stack.

## 3.6 Changing USB ports when using USB *Bluetooth®* dongles

When you utilize a USB Bluetooth® dongle (which happens to be removable) you should be aware of the fact that Windows expects to find your *leakage tester* via the dongle **in the USB port** you initially installed your device on. If you remove the dongle and plug it in next time in another port, Windows will re-install it and will, eventually, come up with a different *Bluetooth® serial port* number. In this case, when you start the controlling software, the message (e.g.) 'no tester detected on COM23' will show up. Terminate the control software, now you have two options, one:

- Connect the dongle to the original USB port
- Resume

As a rule, Windows will re-install the dongle and after a while your *leakage tester* will be available again as described in §3.6 above. Now you can find out the new *Bluetooth® serial port* number, which is option two:

- Remember this new port number
- In the directory where your control software resides (e.g. C:\LeakageTester\BLTreleaseEN) you will have to remove the file 'COMx.ini' first
- Remove this file
- Resume and enter the new port number when asked for it

## 3.7 USB Bluetooth® dongle installation

### 3.7.1 *Description*

This chapter will help you adding a separate Bluetooth® USB dongle to your computer in order to be able to connect wireless Bluetooth® devices to your computer. Although there are many different dongles, the setup described in this guide can be applied to most of the Bluetooth® USB dongle models. See below for a photo showing a typical Bluetooth® USB dongle.



Photo 1.2.1: typical Bluetooth® dongle for USB type A
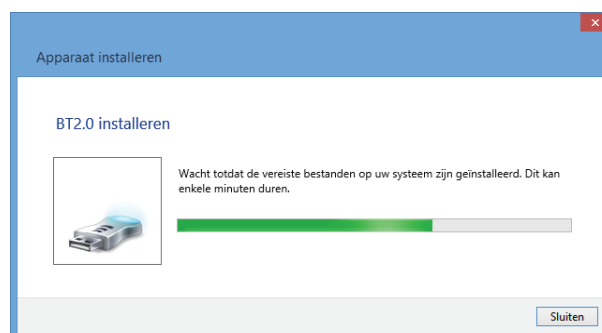
### 3.7.2 *Before plugging-in the dongle*

Determine which USB port on your computer you want to connect your *dongle* to. If your computer has USB ports on the front, consider using one of those if you plan to frequently connect and disconnect the dongle although it is a tiny device. **Important:** most dongles remember the USB port they were plugged-in and installed on, read in §3.6 for further information on this issue.

### 3.7.3 *Getting started from the Metro Start Screen*

Plug-in your dongle to the computer's USB port of your choice. Windows 8 should now start search-ing  the internet for specific drivers needed for your device without any notice. Read §3.2 to find out about the outcome of the installation. *This completes the installation of your Bluetooth® USB dongle.*

### 3.7.4 *Getting started from the Desktop*

Plug-in your dongle to the computer's USB port of your choice. Windows 8 should now start search-ing  the internet for specific drivers needed for your device; if you click the notification on the *taskbar* then, after a short while, Windows 8 will displays  a window similar to this one:



Windows will automatically install all the drivers for the different services your dongle is capable of. As a result of a successful installation the shown window will close automatically.
Read §3.2 to find out about the outcome of the installation.
*This completes the installation of your Bluetooth® USB dongle.*