



**BARNES**  
associates<sub>td</sub>  
SURVEY MANAGE IMPROVE

## WE CAN SUPPLY AND TEACH YOU HOW TO USE IT ALL

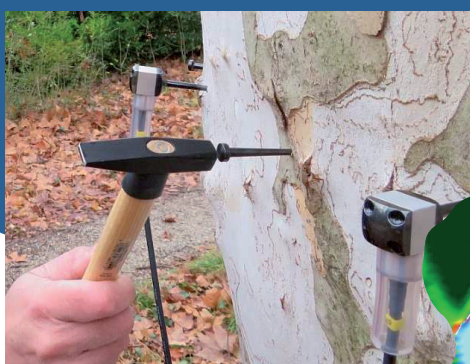
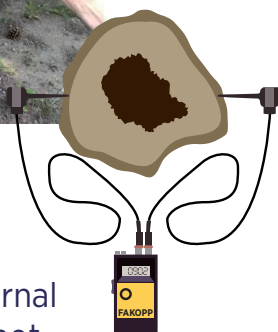
**Tree Diagnostics** was formed to introduce **Fakopp's** cost-effective range of tree investigation systems to the UK and Ireland. To help tree surveyors make better-informed decisions when managing borderline trees with suspected problems. These systems range from compact and pocket-friendly devices to systems designed to test the ability of the root and stem to withstand typical or extreme weather conditions.

Looking for or assessing '**Internal Decay**' can leave surveyors stumped or result in over-defensive and extensive works, even tree removal being specified decades before it is required. There are systems to help define the problem and give confidence in prescribing a more reasonable solution.



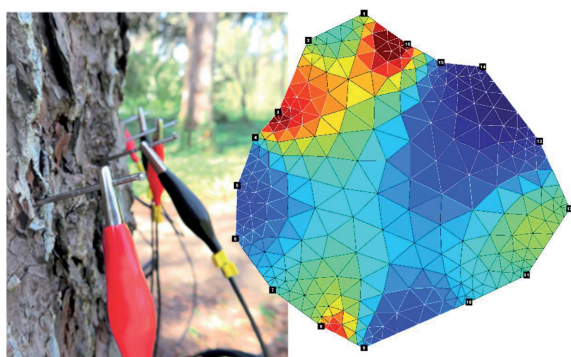
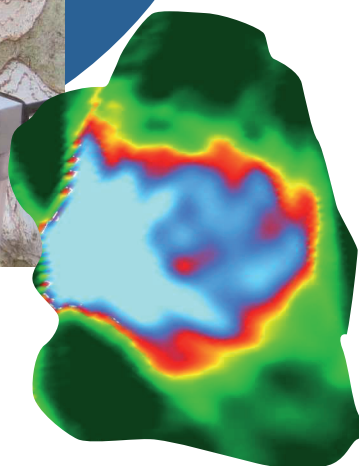
### Microsecond Timer:

This provides a rapid one-shot test to understand a tree's internal condition. This single-shot system detects internal decay and features such as cracking, delamination or shake. The results are shown instantly or emailed to you via the App.



### Arborsonic 3D Sonic tomogram (SOT):

Takes the process of decay mapping or locating defects to the next level by combining tree and local site information and providing a Safety Factor based upon the tree Biomechanics to help move away from an assessment based solely upon concerns about how hollow is safe.



### ArborElectro Electrical Impedance Tomography (EIT):

Look even further into the tree - allows subtle early stage changes by fungal colonisation, incipient decay or dysfunctional areas of vessels to be seen before they are visible to us, sonic systems or by drilling. Providing valuable to help plan management and give time for defend and adapt.

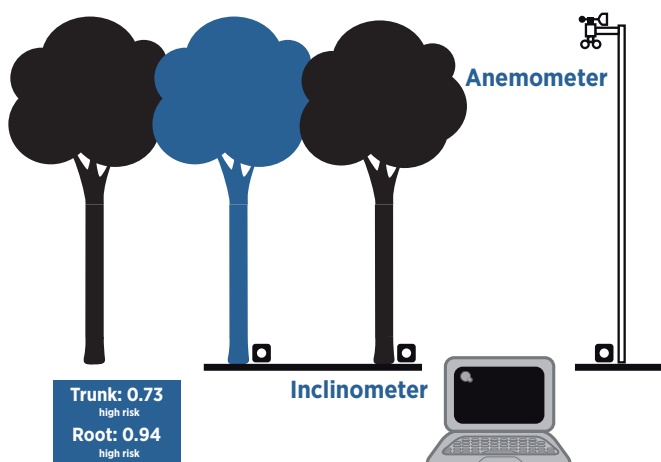
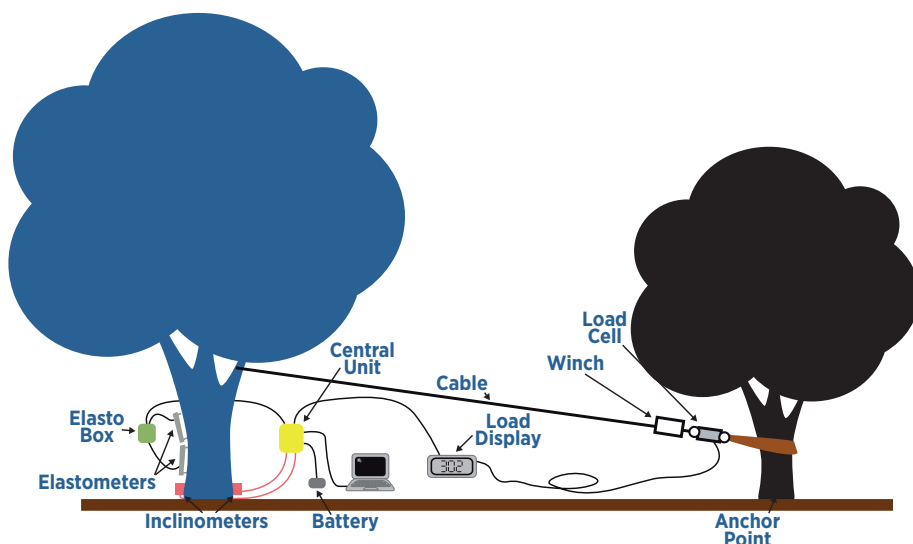
### Static Stability Testing Equipment:

At present, the most accepted method for evaluating the safety and stability of tree roots. This test measures a tree's response to a bending load on the trunk via a winch cable attached to the tree and measured by a force meter (Load-Cell).

The '**Inclino Test**' provides information on root plate movement using very accurate inclinometer and provides information on tree root resistance to rotation.

Whereas the '**Elasto Test**' provides information on stem compression and tension using very accurate Elastometer's to provide information on a tree stem's resistance to fracture.

Alternatively, both can be combined to provide a full traditional '**Tree Pull Test**' to enable tree stem and root plate assessment simultaneously.






### Dynamic Stability Testing Equipment

substitutes the need for a winch and force meter and instead records on-site wind data using an Anemometer and Data logger.



The 'Inclino' type of test is undertaken using the DynaRoot system, which is using very accurate inclinometer and data logger. The combined 'Inclino and Elasto Test' is undertaken using The DynaTree system which provide information on stem compression and tension using very accurate Elastometer to provide in addition to root plate inclination to enable tree stem and root plate assessment simultaneously.

If you want any further information or have questions about how Tree Diagnostics and Fakopp can help you make better, more informed tree management decisions, please visit our website at [www.treediagnostics.co.uk](http://www.treediagnostics.co.uk) or call us for a free and confidential chat.

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