

Picus Tree Tomography Methods At A Glance

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Picus Tree Tomography Methods At

PICUS Tree Inspection Equipment www.argus-electronic.de 2 1. Overview Currently there are two tomographic methods available for trees: Sonic Tomography (SoT) and Electric Resistance Tomography (ERT). Both methods use different physical ideas and thus, do show different information of the tree. SoT gives information about the integrity of the

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4.3 Why is the ERT Method needed for tree inspections? Our first tomography instrument - the PICUS Sonic Tomograph - gives information about how the wood in a certain tree transmits sonic waves. It measures the sonic velocity, which is determined by the relation between the modulus of elasticity (MOE) and wood density.

PICUS : TreeTronic Electric Resistance Tomograph

The most accurate and fastest method is triangulation using the PICUS Callipers. Even complex geometries can me recored accuratelly within munites. If the TreeTronic is used in conjunction with the PICUS Sonic Tomograph, the geometry can be imported from the sonic data file. 3.

PICUS TreeTronic / Products / Tree Inspection / ARGUS ...

PICUS Tomography Methods (Sep 2016) Brief introduction of PICUS sonic tomography and TreeTronic electric resistance tomography to illustrate how those methods are used in tree safety assessments to measure residual wall thickness.

Manuals / Download / Support / Tree Inspection / ARGUS ...

Addition to sonic tomography (PICUS Sonic Tomograph) and resistance tomography (TreeTronic 3) Trees with large defects in the lower stem area (with assumed root defects) should additionally have their stability tested in natural wind. Surveillance of trees near construction Sustained changes in a tree's tilt angle during groundworks (e.g. placing of sheet pile walls) can be detected with the PICUS TMS. Long term monitoring of trees

PICUS Tree Motion Sensor 3 / Products / Tree Inspection ...

The PICUS Sonic Tomograph investigates the tree by using sonic waves. The instrument measures the time of flight of the sonic signals that have been generated by a hammer. By using accurate tree geometry information the software calculates the apparent sonic velocities and draws a "velocity" or "E-module" map of the tree.

PICUS - Sorbus International Ltd

The PICUS tools box offers a comprehensive range of diagnostic instruments for advanced tree risk assessments. Measuring the thickness of the residual walls of trees with decay or cavities is done with the PICUS Sonic Tomograph and the TreeTronic. For root stability evaluations the TreeQinetic load test (or pull test) is the best choice.

Tree inspection / ARGUS ELECTRONIC GMBH

Tree Consult- ISA Tree Biomechanics Research Symposium, Chicago. Detter, A., Brudi, E., & Bischoff Brudi, F. (2005). Statics Integrated Method: Results from pulling tests in the past decades. Tree Consult / Members of Sag Baumstatik / Association of expert witnesses in tree statics. Göcke, L. (2017). PICUS Sonic Tomograph Software Manual Q74.

A REVIEW OF ADVANCED TREE ASSESSMENT METHODS - ARBORICULTURE

The PICUS range of tree inspection equipment includes the PICUS 3 Sonic Tomography system (SoT), the TreeTronic 3 Electrical Resistance Tomography system (ERT), TreeQinetic system for tree pulling and the Tree Motion Sensor (TMS) system for measuring the effect of natural wind conditions on trees to assess rootplate stability.

Picus Products | Sorbus International

The use of both Picus and Arbotom sonic tomography enables the extent of decay to be assessed without invasive testing such as resistograph drilling or boring, which damages trees and potentially impairs the tree's ability to compartmentalise the decay.

Non-invasive tree testing using sonic tomography to ...

The PICUS sonic tomograph is a system that measures the speed of sound travelling across timber. Because the speed of sound waves is constant in solid wood, a measurement can be taken from one point to another on the trunk of a tree. If there is decay between the test points then the speed of the sound waves are measured as slower data.

Testing Procedure : Tree Testing

trees: PICUS Sonic Tomograph. The PICUS Sonic Tomograph investigates the tree by using sonic waves. The instrument measures the time of flight of the sonic signals that have been generated by a hammer. By using accurate tree geometry information the software calculates the apparent sonic velocities and draws a "velocity" or "E-module"

Tree Inspection Equipment - Lab-Tech

The Picus® Sonic Tomograph was developed by the company Argus Electronics GmbH, Germany. It is a device created to measure decay within trees. The device has been accepted worldwide as a leading method of near non destructive testing of trees. This instrument uses the velocity of sound waves to calculate the area of decay within a tree.

Picus® Sonic Tomograph - Moore Trees

The PICUS Sonic Tomograph is used to investigate the internal condition of a tree using sound waves. A series of nails are installed around the tree at the measuring plane where visual inspections have identified weaknesses requiring further investigation. These nails become the measuring points and are used to send or receive sound waves.

PICUS 3 Sonic Tomograph - Urban Forest Innovative Solutions

The Picus Sonic Tomograph is non-invasive (unlike other methods) and allows for the monitoring of defects over time. The information provided by this advanced tool provides a far more comprehensive and detailed understanding of the internal structure of trees than commonly used resistance drilling methods.

TREE ASSOCIATES HAS A SONIC TOMOGRAPH

As it employs both sonic and electrical-resistance tomography, the PICUS Tools Box provided a far more accurate and detailed assessment of the trees compared with using either of these techniques on their own. For five trees that showed decay, the team was also able to accurately quantify the amount of decay.

Tomography: An Innovative Technique for Assessing Forest ...

This video is a short introduction about the use of the PICUS 3 - the latest sonic tomograph for tree inspection. The PICUS 3 can be used for tree inspections to find decay or cavities in trees. It...

PICUS Sonic Tomograph - PICUS 3

Much like an MRI solves a critical medical need for very high-resolution, non-invasive imaging of the body, the Tree Radar Unit (TRU™) radar imaging system creates the same type of high-resolution, non-invasive image of the internal structure of a tree and its root mass.

TreeRadar: Give Your Tree A Physical Exam

Methods One hundred and forty-seven individual trees of 33 species were inspected at a historic park in Yangzhou, Jiangsu Province, China, using a combination of visual inspection, acoustic tomography, GPRscanning, and resistance micro-drilling methods.