PiCUS^3 Sonic Tomograph

Small, fast and simple

The PiCUS^3 Sonic Tomograph is used for tree risk assessments in order to measure the thickness of the residual wall of trees with internal defects such as cavities or decay non-invasively. Most often the PiCUS sonic tomograms are recorded near ground level of trees. However, acoustic tomograms also reveal important safety information about the breaking risk near branch wounds and above ground cavities.

Both our tomography methods do require exact geometry information about the positions of all measuring points in order to calculate the sonic and electric resistance tomograms. The PiCUS Calliper is an instrument that helps to measure the positions of all measuring points quickly and accurately.

Tree Inspection since 1999

www.picus-info.com

About us

argus electronic gmbh

Info

For more than 20 years we are developing, producing and selling sophisticated solutions for our customers. Our main fields of expertise are tree inspection equipment, atmospheric measurement equipment, dosing systems for agricultural use and renewable energy solutions.

Company building

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PiCUS

Tree inspection equipment

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PiCUS TreeTronic^3

Predicting future decay

The electric resistance tomograph PiCUS TreeTronic^3 is used in conjunction with the PiCUS^3 Sonic Tomograph in order to obtain detailed information about the thickness of residual walls and the type of defect and its future development. The TreeTronic^3 tomograms show in particular the early stages of decay and support in analyzing sonic tomograms if these produce diffuse images due to cracks in the tree.

The PiCUS TreeTronic^3 at work. The measurement is fast and the device is quickly back in ist transport case.

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Tree Motion Sensor

Wind tipping analysis

The Tree Motion Sensors (TMS) are used to measure the root anchorage of trees during tree risk assessments. The TMS assesses the anchoring of the tree in the ground based on its root plate tilt. The TMS measure the real dynamic sway motion of trees in natural winds. They are angle metres that are attached near the root of the tree to measure the root plate tilt, exactly like in the pull test. The measurement records the true sway motion of the tree in naturally occuring winds, including all environmental effects.

The PiCUS TMS measures root plate tilt of trees. This provides information about the trees stability.

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TreeQinetic

Equipment for pull tests

The PiCUS TreeQinetic system is used to carry out load tests (or pull tests) on trees for which an advanced tree risk assessment is needed. Pull tests are an established method to assess the bending strength of the tree stem and the anchoring strength of the root system.

The TreeQinetic Elastometer measure the strain of the marginal wood fibers in the trunk to obtain information about the bending strength.

The TreeQinetic Inclinometer measure the root plate tilt to evaluate the trees anchoring strength.

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