



The 360° Tree Stabilizer

WHAT I NOTICED

“TRADITIONAL TREE STAKING” IS:

- Ugly
- Unsafe to play/work around
- Hard to maintain around
- Time consuming to install & remove
- 3 stakes on most trees costs \$
- Trunk scarring common from leaving supports on too long



**In 2014 I began to design a better way to
stake a tree...**

RESEARCH AND DESIGN (2014-2020)

I consulted with industry stakeholders about current tree staking practices and what they would want considered in a new staking product. Their top concerns for each group were:

1. TREE GROWERS AND ARBORISTS

- The biology and overall health of the tree
- The growth and strength of the tree

2. LANDSCAPERS

- Cost of materials, labor, and time for installation
- Safety and ease for maintenance crews to work around
- Visual appeal
- Ability to correct crooked growth

3. LANDSCAPE ARCHITECTS

- Visually appeal
- Incentive for Landscapers to remove stakes after 6-12 months
- Versatility for various design needs

RESULTING PRODUCT

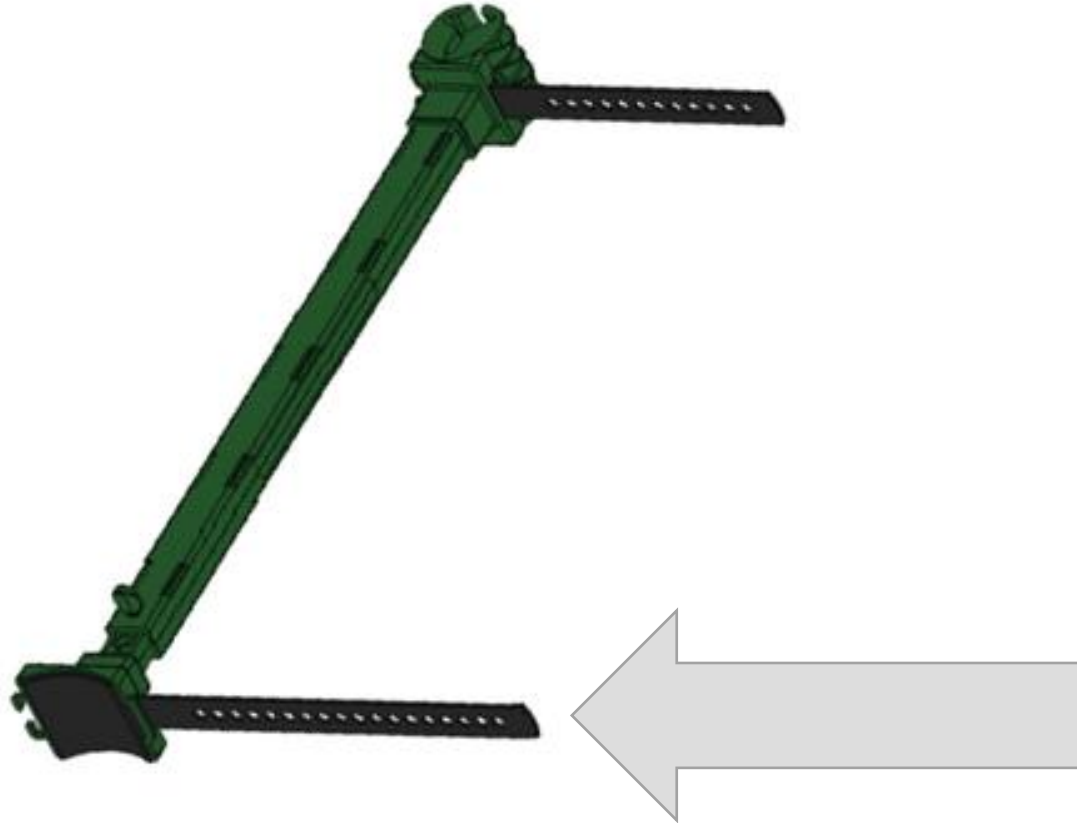
After numerous designs, consultations, and re-designs, the **360° Tree Stabilizer** patent applications were submitted in 2020

Patents:

- U.S. Design Patent No. US D1,011,151 S
- Utility Patent Application No. 14/528,428



ADJUSTABLE STRAP



ALLOWS TREE MOVEMENT

Adjustable Strap holds trunk loosely but won't let it fall. Movement of trees by the wind stimulates the release of a growth hormone (auxin) that encourages the growth and development of:

- **The root system** - anchoring the tree firmly into the ground
- **The trunk** - making it thicker at the base producing strong, structurally balanced trees

ALLOWS FOR TREE MOVEMENT

“Traditional methods”



Holds the trunk too tight not allowing beneficial movement with the wind to grow strong roots and trunk

The 360° Tree Stabilizer



Holds the tree loosely but won't let it fall

SOFT, CRADLING PAD



PROTECT THE TRUNK

Soft, cradling pad protects the tree bark from damage. Protecting the bark of the tree from damage is critical to maintaining the health of the tree.

- Damaged or exposed tissue can:
 - Attract insect pests which feed on the tissue and weaken the tree
 - Allow water loss
 - Allow disease or infection to enter
- Bark also protects the growing layers of the tree that supply the limbs and leaves with water and nutrition (xylem and phloem)

PROTECT THE TRUNK

“Traditional methods”



Hard to remove so left in place too long causing girdling

The 360° Tree Stabilizer



Soft pad cradles the trunk; adjustable strap allows for easy expansion as the tree grows & easy removal



ADJUSTABLE ARM



ADJUSTS FOR TREE AND LANDSCAPE NEEDS

Trees come in many shapes and sizes and have various needs when staking. An **adjustable arm** allows various stake-to-tree lengths.

- Stakes can clear large or small root balls of various sized trees; extending from 19 ½” – 33 ½” away from the trunk

ADJUSTS FOR THE ROOT BALL

“Traditional methods”



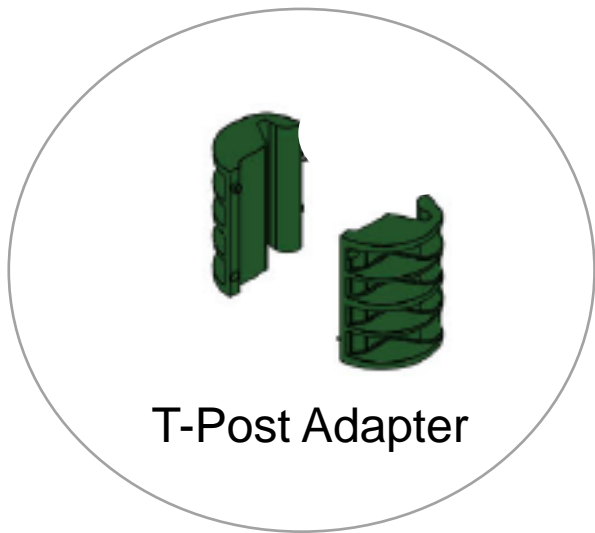
Clearing the root ball increases the landscape footprint with stakes and wires/rope

The 360° Tree Stabilizer



Adjustable arm allows various stake-to-tree lengths to clear the root ball

PROTECTIVE DESIGN FEATURES FOR USERS



Adjustable Arm



CONSIDERS SAFETY AND MAINTENANCE

Stake and Stabilizer create a perpendicular structure from stake to tree which decreases potential injuries:

- Eliminates wires in a diagonal from tree to ground reducing tripping hazards
- Vertical alignment of the stake removes potential cutting risk when working or playing near the staked tree
- Design allows for use with a T-post adapter to cover rough edges on the tip of the stake.

CONSIDERS SAFETY AND MAINTENANCE

“Traditional methods”



Can pose a tripping hazard, injury from sharp T-post edges, difficult to maintain around

The 360° Tree Stabilizer



Vertically aligned with tree; T-post adapter covers rough edges

CONSIDERS SAFETY AND MAINTENANCE



Vertically aligned with tree

DESIGNED FOR VERSATILITY

Post Connection:

- Stackable
- Connectable
- Adaptable (wood/metal)



VERSATILITY

“Traditional methods”



Use more stakes and wire/rope for each needed correction

The 360° Tree Stabilizer



Can be **linked** for larger trunk needs;



VERSATILITY



Can be **stacked** without the need for more stakes.

There is not a better way to secure a Crepe Myrtle and train the branches



VERSATILITY

Can be used on a metal T-post or wooden stake



DESIGNED TO SAVE TIME AND MONEY

- **30 second install** once post is set
- **Fewer metal T-posts or wooden stakes needed in most cases**
(depending on soil composition and size of canopy)



SAVES TIME AND MONEY

The number of wooden or metal T-posts needed to secure the tree is based on the number of stakes needed. Using fewer stakes:

- Cuts the cost of the tree stabilizing project using fewer stakes per tree
- Cuts the time it takes to install allowing crews to plant and stake more trees in a workday, also cutting costs

SAVES TIME AND MONEY

“Traditional methods”



Typically uses 3 stakes increasing project costs and installation time

The 360° Tree Stabilizer



Typically uses one T-post or wooden stake and installs in under 30 seconds

The 360° Stabilizer Does It All!

- 1. TREE MOVEMENT** – is encouraged by the arm's soft cradle and adjustable strap which allow for the development of strong roots and strong trunk growth.
- 2. TRUNK PROTECTION** – the arm's semi-flexible, soft, concave cradle pad and strap prevent trunk scarring.
- 3. PLANTING VARIATION** – needs addressed with an “adjustable arm” allowing for various stake-to-tree lengths to clear the root ball.
- 4. SAFER & EASIER TO MAINTAIN AROUND** – eliminates use of wires or ropes, covers sharp edges of metal stakes and allows stake to be inserted vertically vs angled.
- 5. VERSATILITY** – with ability to stack or link stabilizers to support trees with larger canopies or to easily stabilize trees on unlevelled ground.
- 6. SAVES TIME & MONEY** – quick installation (under 30 seconds), stackable or connectable eliminates the need for additional poles and it is reusable!

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