

The background of the slide is a photograph of a landscaped urban area. In the foreground, there is a concrete curb and a planter bed with green shrubs. Several young trees are planted in the area. In the background, there are more trees, a road with cars, and a building. The sky is a mix of blue, pink, and orange, suggesting a sunset or sunrise. A large, light gray concrete texture is overlaid on the left side of the image, forming a large triangle that points towards the top right.

TREE ANCHORING SYSTEMS

ABOUT US

About Anchoring Rope and Rigging

Anchoring Rope and Rigging Pty Ltd is an Australian owned manufacturing company with over 35 years of experience in ground anchoring, rigging and lifting technology. Their vision is to be world's leading developer and manufacturer of percussion ground anchoring technology and Australia's first choice for anchoring, rope, rigging and instant foundation technology solutions.

HULK Earth Anchor Tree Anchoring Solutions

HULK Earth Anchor tree kits, designed and manufactured by Anchoring Rope and Rigging, have been developed to provide a complete range of tree anchoring solutions to suite various tree sizes, and installation methods. With above and below ground options, HULK Earth Anchor tree kits offer immediate use anchoring technology to stabilise and secure newly planted trees. HULK Earth Anchor tree kits offer ease of use, speed of installation, and cost effective tree anchoring solutions. Manufactured to the highest standards, HULK Earth Anchor Tree Kits are the preferred solution for anchoring newly planted trees in any environment.


Manufactured in Australia by:



Proudly distributed by:



HULK UNDERGROUND TREE KITS



HULK Underground Tree Kits offer a below ground anchoring solution which provides immediate support for newly planted trees by securing the rootball. The added protection provided by HULK promotes root establishment and vertical growth.

HULK Earth Anchors offer the perfect solution for anchoring trees where guy systems, or unsightly stakes, are not desired or possible. With our HULK Earth Anchor Underground Tree Kits, you are able to offer safe and cost effective tree anchoring, which is ideal for plantings in parks, playgrounds, along footpaths and walkways.

Supplied in ready to use kits, Hulk Underground Tree Kits offer:

- ▶ Fast and simple installation
- ▶ A wide range of kits to suit various applications and tree sizes
- ▶ No unsightly guys or stakes
- ▶ No trip hazards near planted trees
- ▶ Reduced theft or vandalism

HULK Underground Tree Kits are available in three variants including, Earth Anchors, Concrete Anchors and Deadman Anchors. The versatility of the HULK Underground Tree Kit range allows for the anchoring of newly planted trees in environments from urban rooftop gardens, to wide open parkland and rural spaces, and everything in-between.



EARTH ANCHOR KITS

The HULK Earth Anchor Underground Tree Kit's core component is the HULK Percussion Driven Earth Anchor. HULK Earth Anchors are installed by driving the anchor into undisturbed soil with a suitable hammer, and a re-usable HULK Smasher Rod. After the anchor is installed to the required depth, the reusable HULK Smasher Rod is easily removed. An upward pull on the anchor tendon sets the anchor in place, and is ready for use immediately.

The HULK Earth Anchors are installed at the bottom of the planting hole, evenly spaced around the tree's rootball. The rootball tensioning strap with ratchet secures the tree to the anchors and brings the system into tension.



HULK EARTH ANCHOR UNDERGROUND TREE KITS

Kit Model	Anchor Type	Tension Strap	Lashing Capacity	Max. Tree Index AS2303:2015	Max. Planter Size (L)
HP25UTK	3 X HP25 Anchors with Fitted D-Rings	1 X 2.5m Green tensioning strap with ratchet	250kg	224	250
HP35UTK	3 X HP35 Anchors with fitted D-Rings	1 X 5.5 Blue tensioning strap with ratchet	400kg	1125	1000
H50UTK*	3 X H50 Anchors with fitted D-Rings	1 X 6.5m Red tensioning strap with ratchet	1250kg	2393	2500
H80UTK*	3 X H80 Anchors with fitted D-Rings	1 X 6.5m Red tensioning strap with ratchet	1250kg	2393	2500
H110UTK*	3 X H110 Anchors with fitted D-Rings	1 X 6.5m Red tensioning strap with ratchet	1250kg	2393	2500

*Note: These kits have the same Lashing Capacity, different anchor sizes cater for hard, medium and soft soils.
 To order a kit with Rootball Protecting Mats add "M" to the above Kit Model Code.
 To order a kit in a 4 leg variant, add "4" to the above Kit Model Code.
 E.g. HP35UTKM4 includes Protection Mats in the 4 Leg Variant.

Kit capacity is soil dependant. One kit anchors one tree. HULK Smasher drive rod sold separately. Installation instructions included.

CONCRETE ANCHOR KITS

HULK Concrete Anchor Tree Kits are ideal for anchoring trees in planting containers, or where concrete flooring is below the planting location. Typically installed in metropolitan environments, such as rooftop gardens, indoor plantings, and street sidewalks.

The supplied mechanical concrete anchors can be installed into the container side wall, or a concrete base below to provide an effective anchoring solution.

The rootball tensioning strap, with integrated ratchet, brings the system into tension effectively securing the tree in place.



HULK CONCRETE ANCHOR UNDERGROUND TREE KITS

Kit Model	Anchor Type	Tension Strap	Lashing Capacity	Max. Tree Index AS2303:2015	Max. Planter Size (L)
EB8UTK	3 X M8 Mechanical Anchors with Fitted D-Rings	1 X 4.5m Green tensioning strap with ratchet	250kg	224	250
EB10UTK	3 X M10 Mechanical Anchors with fitted D-Rings	1 X 7.5 Blue tensioning strap with ratchet	400kg	1125	1000
EB12UTK	3 X M12 Mechanical Anchors with fitted D-Rings	1 X 8.5m Red tensioning strap with ratchet	1250kg	2393	2500

To order a kit with Rootball Protecting Mats add "M" to the above Kit Model Code.

To order a kit in a 4 leg variant, add "4" to the above Kit Model Code.

E.g. EB10UTKM4 includes Protection Mats in the 4 Leg Variant.

One kit anchors one tree. Installation instructions included.

DEADMAN ANCHOR KITS

The HULK Deadman Tree Anchor Kit is a below ground tree anchoring system for use where it is not possible to install percussion driven earth anchors. Typically used on difficult sites where services or underground utilities may be present, or where ground conditions do not allow for HULK Earth Anchor installation.

The included HULK Deadman Anchor Slings are attached to the deadman anchors placed at the bottom of the planting hole. Well compacted soil is placed over the anchors to provide added stability. The rootball tensing strap secures the tree in place with the integrated ratchet tensioner.



HULK DEADMAN ANCHOR UNDERGROUND TREE KITS

Kit Model	Anchor Type	Tension Strap	Lashing Capacity	Max. Tree Index AS2303:2015	Max. Planter Size (L)
DMK3UTK	3 X 3mmØ Deadman Slings with fitted D-Rings	1 X 2.5m Green tensioning strap with ratchet	250kg	330	400
DMK4UTK	3 X 4mmØ Deadman Slings with fitted D-Rings	1 X 5.5 Blue tensioning strap with ratchet	400kg	849	800
DMK6UTK	3 X 6mmØ Deadman Slings with fitted D-Rings	1 X 6.5m Red tensioning strap with ratchet	1250kg	1343	2000

To order a kit with Rootball Protecting Mats add "M" to the above Kit Model Code.

To order a kit in a 4 leg variant, add "4" to the above Kit Model Code.

E.g. DMK3UTKM4 includes Protection Mats in the 4 Leg Variant.

One kit anchors one tree. Installation instructions included.

HULK TREE GUY KITS



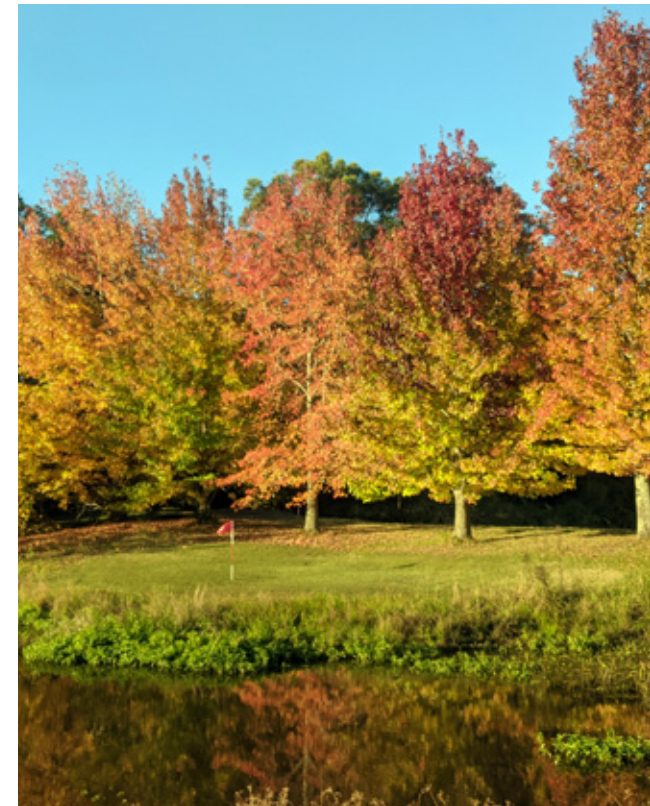
HULK Tree Guy Kits provide an above ground solution to professionally secure newly planted trees, or existing trees requiring temporary stabilisation. Supplied in ready to use kits, components include tree guying assemblies with anchors, protective tree collars, and wire rope grips. An integral turnbuckle* allows for fine tuning of guy line tension during installation.

Used to anchor trees which need additional stability higher in the tree, HULK Tree Guy Kits provide a professional, fast and easy installation, with superior holding capacity.

Supplied in ready to use kits, HULK Tree Guy Kits offer:

- ▶ Professional appearance
- ▶ Wide range of kits to suit various applications and tree sizes
- ▶ Fast and easy installation
- ▶ Greater holding capacity than stakes
- ▶ Unmatched tree stability

Specialist Palm Tree kits are also available which include a tree collar to aid in attaching guy-lines to the tree. All kits are available in a range of sizes in 3 leg, and 4 leg variants, to anchor trees up to 12 meters tall.



EARTH ANCHOR TREE GUY KIT

With a HULK Earth Anchor Tree Guy Kit and a HULK Smasher Rod you have everything you need to professionally secure a newly planted tree. The included guy anchor assemblies are comprised of a HULK Earth Anchor attached to a wire rope guy line. The HULK Earth Anchor is driven and set into undisturbed soil. The supplied wire rope grips are used to fasten the guy line to the tree with protective tree collars to prevent damage. The integrated turnbuckle brings the system into tension to provide an anchoring solution with holding capacity, and neatness, far superior to stakes.



HULK EARTH ANCHOR UNDERGROUND TREE KITS

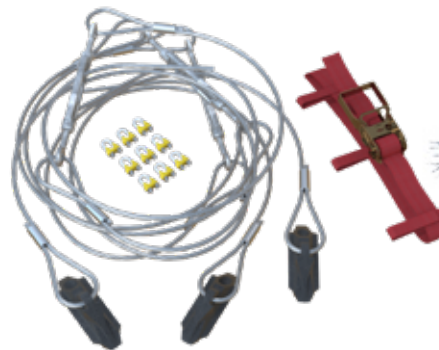
Kit Model	Kit Contents	Anchor MBL	Max. Tree Index AS2303:2015	Max. Planter Size (L)
HP25TGK	3 X HULK HP25 Earth Anchors with fitted guy lines of 3mmØ X 4.5m wire rope. 3 X Stem protectors. 6 X 3mm wire rope grips.	6.85kN	224	250
HP35TGK	3 X HULK HP35 Earth Anchors with fitted guy lines of 4mmØ X 5.5m wire rope with turnbuckle. 3 X Stem protectors. 6 X 4mm wire rope grips.	11.2kN	1125	1000
H50TGK*	3 X HULK H50 Earth Anchors with fitted guy lines of 6mmØ X 6.5m wire rope with turnbuckle. 3 X Stem protectors. 9 X 6mm wire rope grips.	25.4kN	2393	2500
H80TGK*	3 X HULK H80 Earth Anchors with fitted guy lines of 6mmØ X 6.5m wire rope with turnbuckle. 3 X Stem protectors. 9 X 6mm wire rope grips.	25.4kN	2393	2500
H110TGK*	3 X HULK H110 Earth Anchors with fitted guy lines of 6mmØ X 6.5m wire rope with turnbuckle. 3 X Stem protectors. 9 X 6mm wire rope grips.	25.4kN	2393	2500

*Note: These kits have the same MBL, different anchor sizes cater for hard, medium and soft soils. To order a kit in a 4 leg variant, add "4" to the above Kit Model Code. E.g. HP35TGK4 for the 4 Leg Variant.

Kit capacity is soil dependant. One kit anchors one tree. HULK Smasher drive rod sold separately. Installation instructions included.

EARTH ANCHOR PALM TREE KIT

Similar to the Tree Guying Kit, the Palm Tree Anchoring Kit also includes guy anchor assemblies with HULK Earth Anchors, wire rope, and turnbuckles. The HULK Earth Anchor is driven and set into undisturbed soil. As palm trees do not have suitable branches to attach the guy-lines to, the included Palm Tree Collar is secured to the trunk of the palm with the integrated ratchet tensioner. Once attached to the palm tree, the anchored guy-lines are secured to the attachment tabs of the palm tree collar with the wire rope grips. The turnbuckles can be adjusted to fine tune the installation and securely anchor the tree.



HULK EARTH ANCHOR UNDERGROUND TREE KITS

Kit Model	Kit Contents	Anchor MBL	Max. Tree Index AS2303:2015	Max. Planter Size (L)
HP25PGK	3 X HULK HP25 Earth Anchors with fitted guy lines of 3mmØ X 4.5m wire rope. 6 X 3mm wire rope grips. 1 X Palm Tree Collar.	6.85kN	224	250
HP35PGK	3 X HULK HP35 Earth Anchors with fitted guy lines of 4mmØ X 5.5m wire rope with turnbuckle. 6 X 4mm wire rope grips. 1 X Palm Tree Collar.	11.2kN	1125	1000
H50PGK*	3 X HULK H50 Earth Anchors with fitted guy lines of 6mmØ X 6.5m wire rope with turnbuckle. 9 X 6mm wire rope grips. 1 X Palm Tree Collar.	25.4kN	2393	2500
H80PGK*	3 X HULK H80 Earth Anchors with fitted guy lines of 6mmØ X 6.5m wire rope with turnbuckle. 9 X 6mm wire rope grips. 1 X Palm Tree Collar.	25.4kN	2393	2500
H110PGK*	3 X HULK H110 Earth Anchors with fitted guy lines of 6mmØ X 6.5m wire rope with turnbuckle. 9 X 6mm wire rope grips. 1 X Palm Tree Collar.	25.4kN	2393	2500

*Note: These kits have the same MBL, different anchor sizes cater for hard, medium and soft soils. To order a kit in a 4 leg variant, add "4" to the above Kit Model Code. E.g. HP35PGK4 For the 4 Leg Variant.

Kit capacity is soil dependant. One kit anchors one tree. HULK Smasher drive rod sold separately. Installation instructions included.

SELECTING THE RIGHT HULK TREE ANCHORING KIT

The current standard, AS 2303:2015, provides a guide for contractors selecting trees to determine whether a tree meets specification before it is planted. It gives buyers a way to check for obvious quality problems over different parts of the tree as well as ensuring that the tree's root ball and shoots have the right proportions. This measure is known as the **Size Index** and is like the Body Mass Index that is used to check a person's weight range. To choose the right HULK tree kit for the job it is necessary to understand the **Size Index**.

It is calculated by looking at two parts of the tree:

- 1. Calliper:** Measures the diameter of the trunk at 300mm above the root crown.
- 2. Tree height:** Measures the height of the tree from above the root ball to its highest point in metres.

The Size Index can be easily measured by multiplying the height of the tree in metres by the calliper in millimetres:

For Example: **Tree height = 3 metres**
 Calliper = 80 millimetres
 Size Index is 3 x 80 = 240

The Tree Size index is then used to establish the container size that the tree should be in.

By referring to the table, a tree with an index of 240 should have a container with a volume of 200-250 litres. Or alternatively, a tree in a 200-250 litre container, has a tree index of between 185 and 330. The relationship between container and size index is not exact but serves as a tolerance to reflect the difference in trees. Therefore, a tall thin tree can have the same index as a short wide tree.

Having established the Tree index it is then very simple to match which model HULK tree kit you require to expedite your tree anchoring project. Select the appropriate HULK tree kit model using the Tree Index and Planter Size columns in the specification tables.

TREE SIZE INDEX AS PER AS2303:2015			
Nominal Container Volume in L	Size Index Range	Nominal Container Volume in L	Size Index Range
20	24-37	150	144-212
25	31-45	160	153-224
30	36-53	200	185-272
35	41-61	230	209-307
40	46-68	240	216-318
45	51-75	250	224-330
50	56-82	285	251-369
55	61-89	300	262-386
60	66-99	350	289-440
65	70-103	400	330-494
70	75-110	500	407-599
75	79-117	600	476-700
85	89-130	750	577-849
90	93-137	1000	739-1087
100	102-150	1200	865-1272
110	111-163	1500	1048-1975
130	128-188	2000	1343-1975
140	136-200	2500	1627-2393

INSTALLATION TOOLS & ACCESSORIES

X - Required Tool O - Recommended Tool		Hand Smasher Rod & Hammer (Low Volume Anchoring)			OR	Power Smasher Rod & Jackhammer (High Volume Anchoring)			Accessories					
Kit Type	Kit Model	HSH25	HSH35	HSH50		PSH2548	PSH3548	PSH5048	PT45 Proof Tester	Wire Rope Cutter	Snips	Suitable Drill	Spanner / Sockets	
UNDERGROUND TREE KITS	EARTH ANCHOR KITS	HP25UTK	X			X			O		O			
		HP35UTK		X			X		O		O			
		H50UTK			X			X	O		O			
		H80UTK			X			X	O		O			
		H110UTK			X			X	O		O			
	CONCRETE ANCHOR KITS	EB8UTK									O	X	X	
		EB10UTK									O	X	X	
		EB12UTK									O	X	X	
	DEADMAN ANCHOR KITS	DMK3UTK									O			
		DMK4UTK									O			
DMK6UTK										O				
TREE GUY KITS	TREE GUY KITS	HP25TGK	X			X			O	X			X	
		HP35TGK		X			X		O	X			X	
		H50TGK			X			X	O	X			X	
		H80TGK			X			X	O	X			X	
		H110TGK			X			X	O	X			X	
	PALM TREE GUY KITS	HP25PGK	X				X			O	X			X
		HP35PGK		X				X		O	X			X
		H50PGK			X			X	O	X			X	
		H80PGK			X			X	O	X			X	
		H110PGK			X			X	O	X			X	

For further advice and technical information, contact your distributor or AR+R on 1300 692 626.

Manufactured by:

AR+R PTY LTD
ANCHORING ROPE AND RIGGING

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