

DUCKBILL TREE KIT SPECIFICATION























































Registered Office: North House 198 High Street, Tonbridge, Kent, TN9 1BE Company Registration No. 04023935, VAT Registered No. 656490607



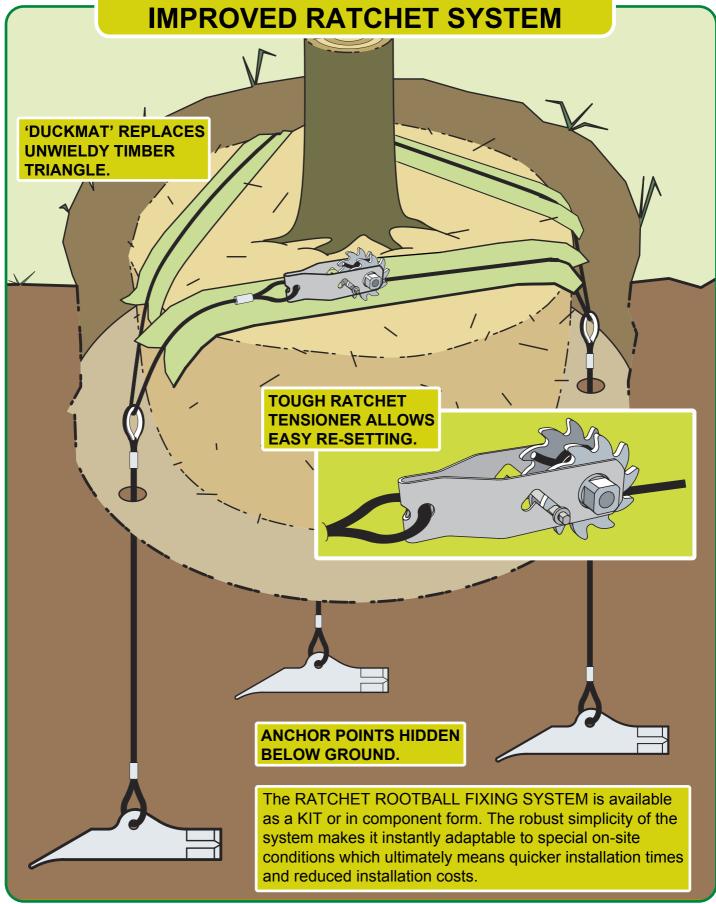






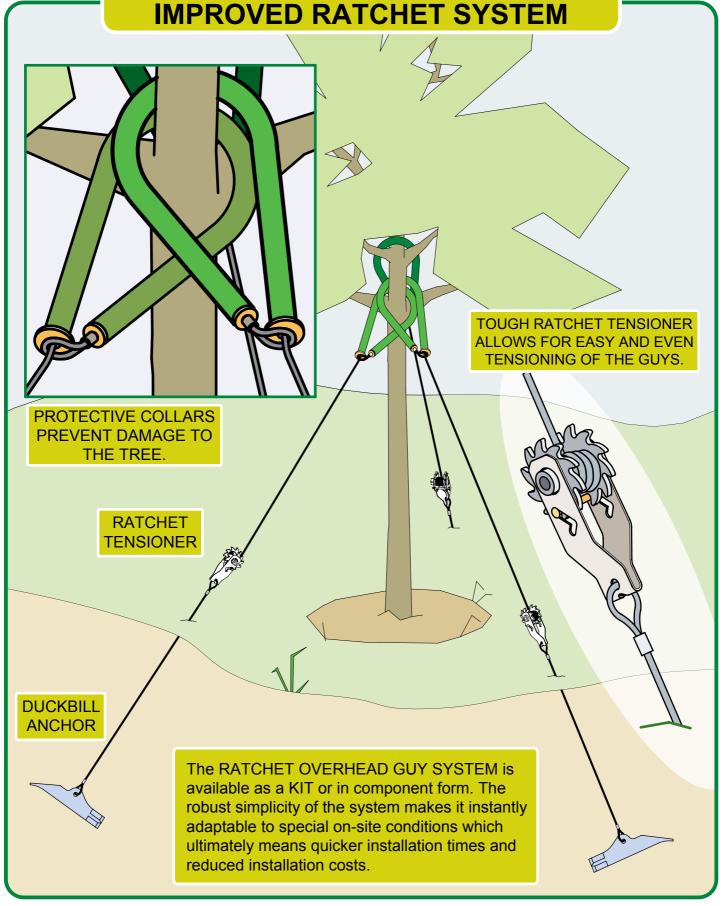


ROOTBALL FIXING KIT



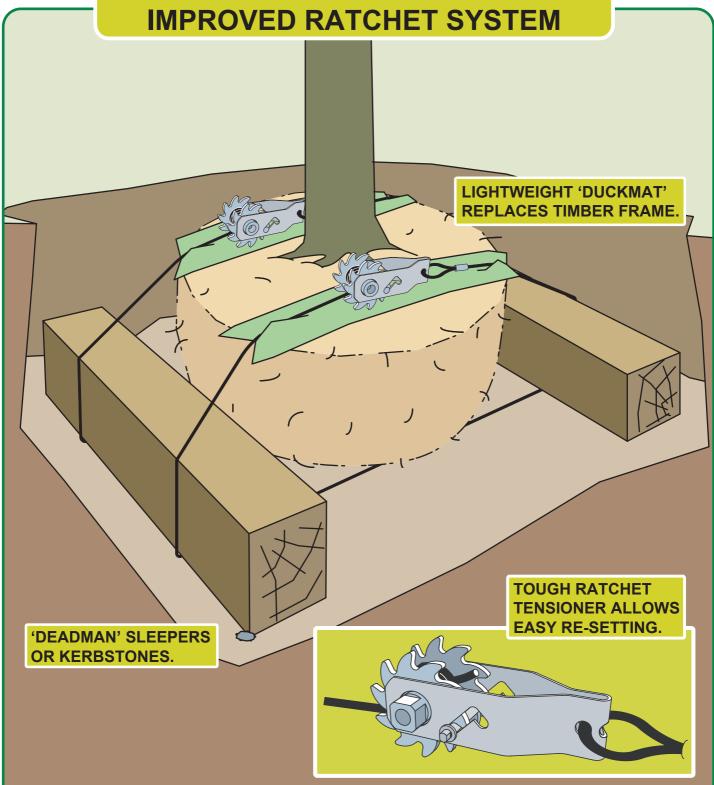


OVERHEAD GUY KIT





'DEADMAN' FIXING KIT

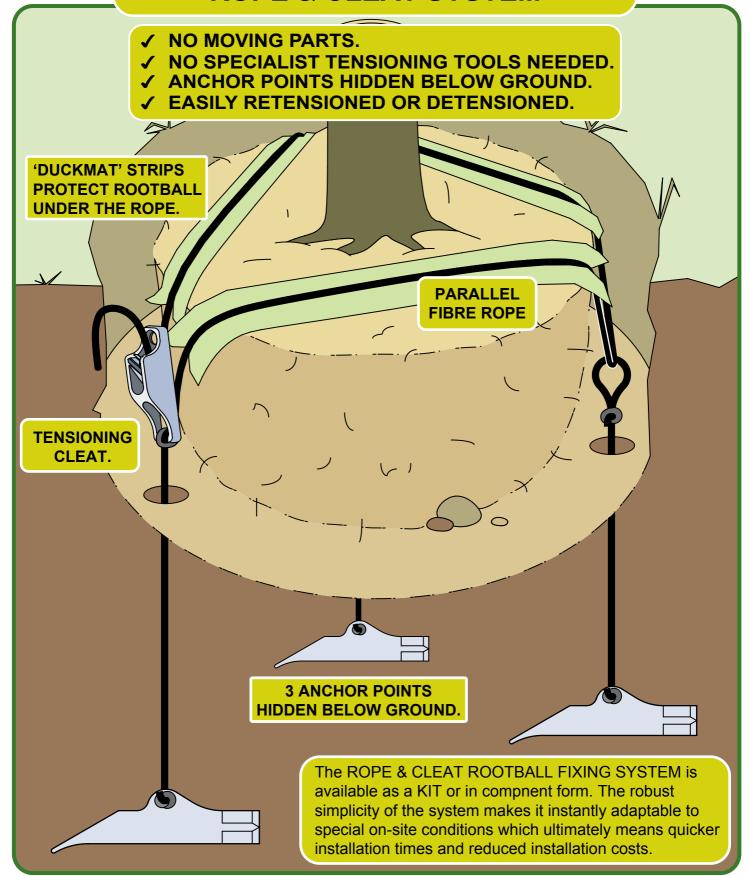


The DEADMAN ROOTBALL FIXING SYSTEM is available as a KIT or in component form. SLEEPERS and KERBSTONES NOT INCLUDED. The robust simplicity of the system makes it instantly adaptable to special on-site conditions which ultimately means quicker installation times and reduced installation costs.



ROOTBALL FIXING KIT

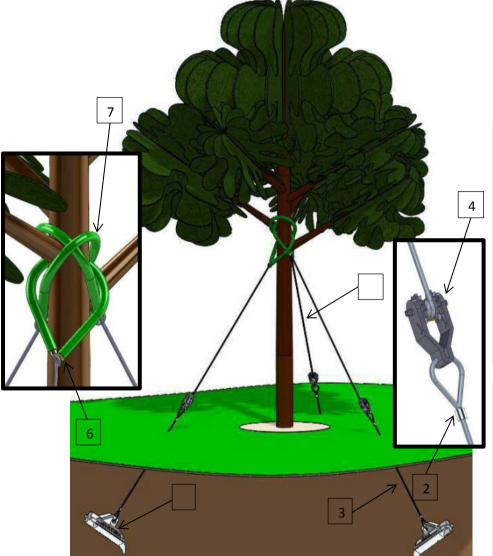
ROPE & CLEAT SYSTEM



Overhead Guy Kit

ANCHOR SYSTEMS (EUROPE) LTD

Anchor Systems (Europe) Ltd, Unit 45 Rowfant Business Centre, Rowfant, West Sussex, RH10 4NQ



OVERHEAD KIT SELECTION GUIDE			
Trunk Diameter (cm) Height (m) Ground Anchor Kit Ref.			
7 - 22	2 - 4.5	DTS-AS-5	
22 - 45	4.5 - 7.5	DTS-AS-10	
45 - 75	7.5 - 12	DTS-AS-20	

OVERHEAD KIT CONTENTS		
DTS-AS-5	3 x Model AS-5 Ground Anchors on 4mm wire, 1.2m long, each with	
	Ratchet Tensioner.	
	3 x 4mm wire Guys, each 4m long	
	3 x Tree Collars + 9 Washers. Full instructions.	
DTS-AS-10	3 x Model AS-10 Ground Anchors on 6mm wire, 1.5m long, each with	
	Ratchet Tensioner.	
	3 x 4mm wire Guys, each 5m long	
	3 x Tree Collars + 9 Washers. Full instructions.	
DTS-AS-20	3 x Model AS-20 Ground Anchors on 6mm wire, 1.8m long, each with	
	Ratchet Tensioner.	
	3 x 6mm wire Guys, each 9m long	
	3 x Tree Collars + 9 Washers. Full instructions.	

PRODUCT IDENTIFICATION		
Item	Description	Quantity
1	Ground Anchor	3
2	Ferrule	9
3	Anchor Wire	3
4	Ratchet Tensioner	3
5	Wire Guy	3
6	Washer	9
7	Tree Collar	3







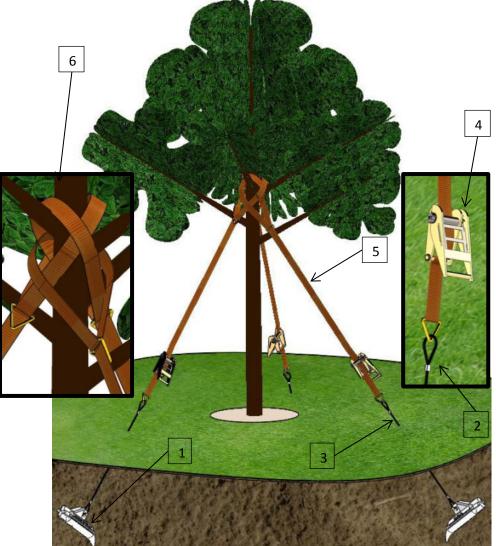




Overhead Guy Kit (Nylon Webbing Strap)

ANCHOR SYSTEMS (EUROPE) LTD

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OVERHEAD KIT SELECTION GUIDE			
Trunk Diameter (cm) Height (m) Ground Anchor Kit Ref.			
7 - 22	2 - 4.5	DTS-AS-5-S	
22 - 45	4.5 - 7.5	DTS-AS-10-S	
45 - 75	7.5 - 12	DTS-AS-20-S	

OVERHEAD KIT CONTENTS		
DTS-AS-5	3 x Model AS-5 Ground Anchors on 4mm wire, 1.2m long, each with	
	Ratchet Tensioner.	
	3 x Nylon Webbing Straps, each 4m long	
	Full instructions.	
DTS-AS-10	3 x Model AS-10 Ground Anchors on 6mm wire, 1.5m long, each with	
	Ratchet Tensioner.	
	3 x Nylon Webbing Straps, each 5m long	
	Full instructions.	
DTS-AS-20	3 x Model AS-20 Ground Anchors on 6mm wire, 1.8m long, each with	
	Ratchet Tensioner.	
	3 x Nylon Webbing Straps, each 9m long	
	Full instructions.	

PRODUCT IDENTIFICATION		
Item	Description	Quantity
1	Ground Anchor	3
2	Ferrule	9
3	Anchor Wire	3
4	Ratchet Tensioner	3
5	Webbing Guy Strap	3
6	Webbing Illustration	





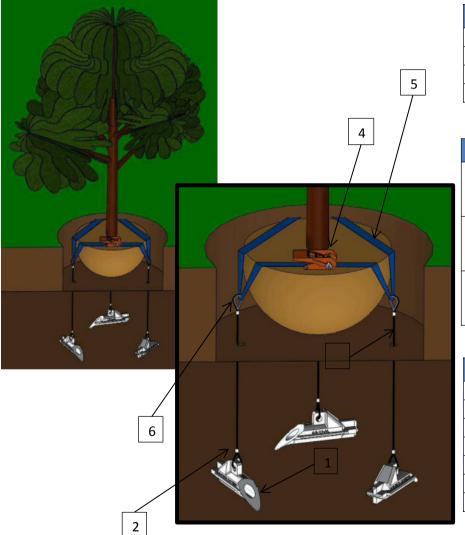




Rootball Fixing Kit

ANCHOR SYSTEMS (EUROPE) LTD

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ROOTBALL FIXING KIT SELECTION GUIDE			
Trunk Diameter (cm) Height (m) Ground Anchor Kit Ref.			
7 - 22	2 - 4.5	RBK-AS-5-S	
22 - 45	4.5 - 7.5	RBK-AS-10-S	
45 - 75	7.5 - 12	RBK-AS-20-S	

ROOTBALL FIXING KIT CONTENTS		
RBK-AS-5	3 x Model AS-5 Ground Anchors, 4m of 4mm tensioning strap, 1 Ratchet Tensioner and full installation instructions.	
RBK-AS-10	3 x Model AS-10 Ground Anchors, 6.5m of 4mm tensioning strap, 1 Ratchet Tensioner and full installation instructions.	
RBK-AS-20	3 x Model AS-20 Ground Anchors, 10m of 4mm tensioning strap, 1 Ratchet Tensioner and full installation instructions.	

PRODUCT IDENTIFICATION		
Item	Description	Quantity
1	Ground Anchor	3
2	Ferrule	6
3	Anchor Wire	3
4	Ratchet Tensioner	1
5	Tensioning Strap	1
6	Nylon Thimble	3







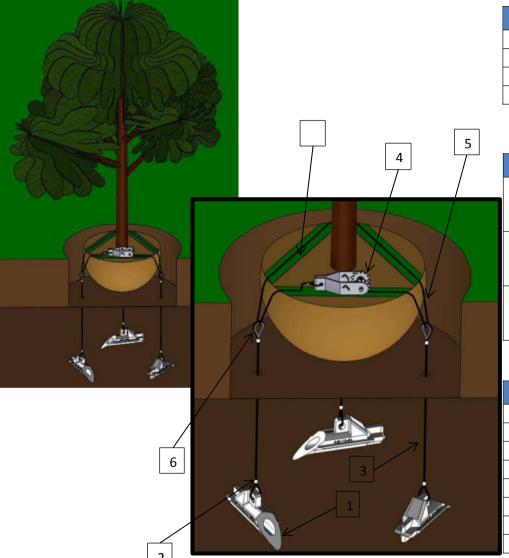




Rootball Fixing Kit

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ROOTBALL FIXING KIT SELECTION GUIDE			
Trunk Diameter (cm) Height (m) Ground Anchor Kit R			
7 - 22	2 - 4.5	RBK-AS-5	
22 - 45	4.5 - 7.5	RBK-AS-10	
45 - 75	7.5 - 12	RBK-AS-20	

ROOTBALL FIXING KIT CONTENTS		
RBK-AS-5	3 x Model AS-5 Ground Anchors, 4m of 4mm tensioning cable, 1 Ratchet Tensioner and full installation instructions.	
RBK-AS-10	3 x Model AS-10 Ground Anchors, 6.5m of 4mm tensioning cable, 1 Ratchet Tensioner and full installation instructions.	
RBK-AS-20	3 x Model AS-20 Ground Anchors, 10m of 4mm tensioning cable, 1 Ratchet Tensioner and full installation instructions.	

PRODUCT IDENTIFICATION		
Item	Description	Quantity
1	Ground Anchor	3
2	Ferrule	6
3	Anchor Wire	3
4	Ratchet Tensioner	1
5	Tensioning Cable	1
6	Nylon Thimble	3
7	Duckmat	3







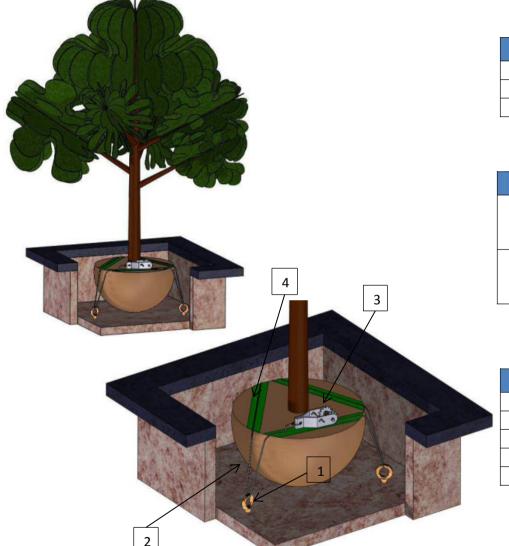




Containerised Fixing Kit

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CONTAINERISED FIXING KIT SELECTION GUIDE						
Trunk Diameter (cm) Height (m) Ground Anchor						
7 - 22	2 - 4.5	CRB-AS-5				
22 - 45	4.5 - 7.5	CRB-AS-10				

CONTAINERISED FIXING KIT CONTENTS				
RBK-AS-5	3 x Model AS-5 Ground Anchors, 4m of 4mm tensioning cable, 1 Ratchet Tensioner and full installation instructions.			
RBK-AS-10	3 x Model AS-10 Ground Anchors, 6.5m of 4mm tensioning cable, 1 Ratchet Tensioner and full installation instructions.			

PRODUCT IDENTIFICATION					
Item Description Quantity		Quantity			
1	Expanding Eyebolt	3			
2	Tensioning Cable	1			
3	Ratchet Tensioner	1			
4	Duck mat	3			







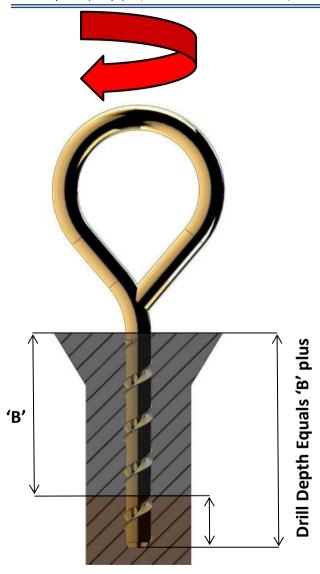


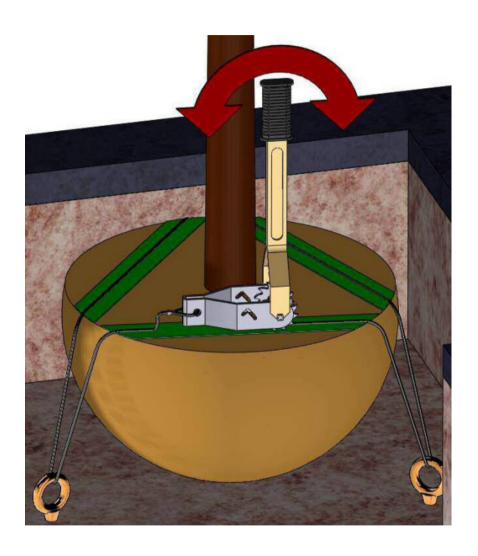


Containerised Fixing Kit

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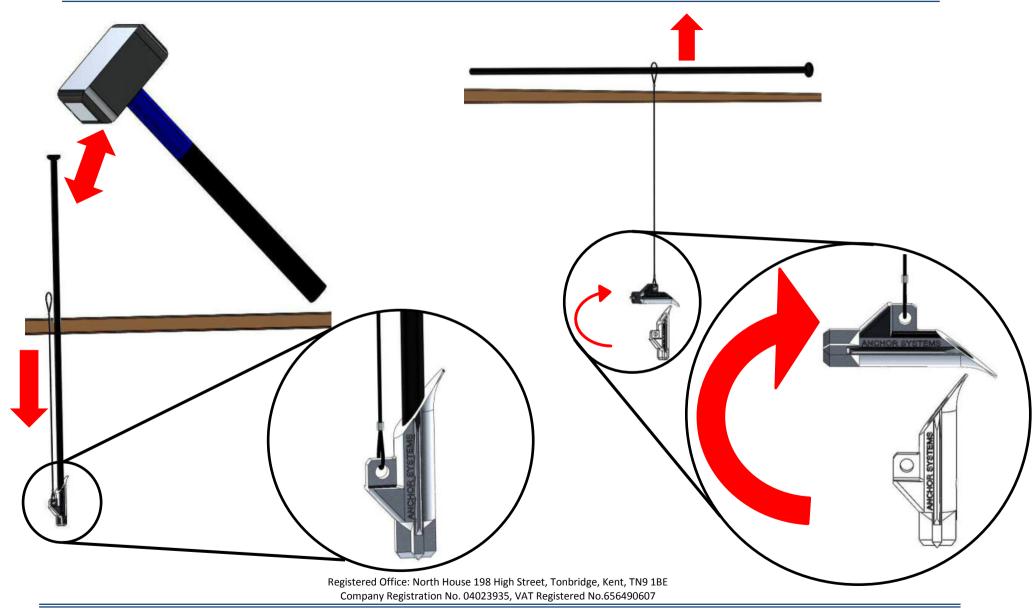






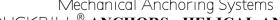


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Mechanical Anchoring Systems

DUCKBILL® **ANCHORS • HELICAL ANCHORS SOCK ANCHORS • ANCHOR POSTS**

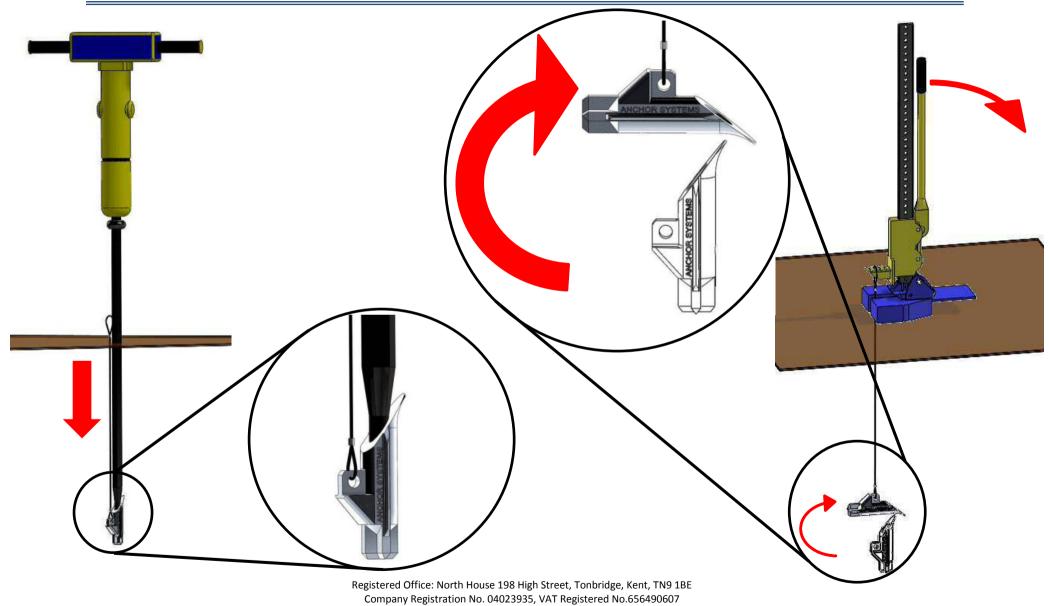




Rootball Fixing Kit

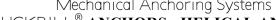


Anchor Systems (Europe) Ltd, Unit 45 Rowfant Business Centre, Rowfant, West Sussex, RH10 4NQ









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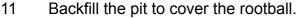




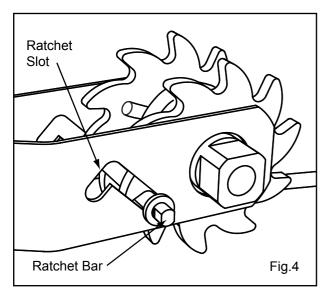


INSTALLATION INSTRUCTIONS Rootball fixing with RBK Tree Kits

- 1 Dig the tree pit to the required size.
- 2 Drive the 3 anchors into the base of the pit equally spaced around the rootball as shown (Fig.1) until the anchor loops are level with the pit bottom.
- 3 Load lock the Anchors by pulling them vertically upwards (by hand or with recommended equipment) until resistance is felt.
- 4 Lay the 3 strips of Duckmat over the rootball as shown (Fig.1).
- Thread the free end of the Tensioning Cable (which is attached to the Ratchet Tensioner) through the Anchor loops and over the Duckmat in sequence a to f as shown in Fig.3.
- Then pass the free end of the Tensioning Cable through the hole in the Ratchet Wheel (Fig.2).
- 7 Pull most of the slack Tensioning Cable through and cut off the excess.
- With a short tail of Cable (about 30mm) protruding wind the Ratchet Wheel clockwise (with a suitable wrench) to tighten the Tensioning Cable. Tuck the tail of the Cable under the first few windings to prevent it pulling out and to stop it fouling the Ratchet Bar (Fig.4).
- While tensioning check that each leg of the Tensioning Cable is getting tight andthat it is centred on the Duckmat strips.
- When you are satisfied that the rootball is well supported and secure lock off the Ratchet Tensioner by ensuring that the Ratchet Bar is in the bottom of it's slot and seated at the root of the Ratchet Wheel teeth.



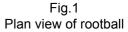
12 Remove and dispose of the waste cable.

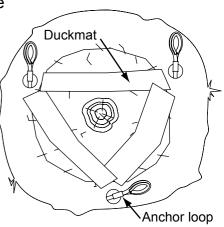


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Unit 45, Rowfant Business Centre, Wallage Lane Rowfant, West Sussex, England RH10 4NQ Tel: +44 (0) 1342 719362. e-mail: anchorsystems.co.uk

www.anchorsystems.co.uk





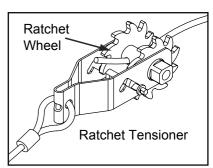
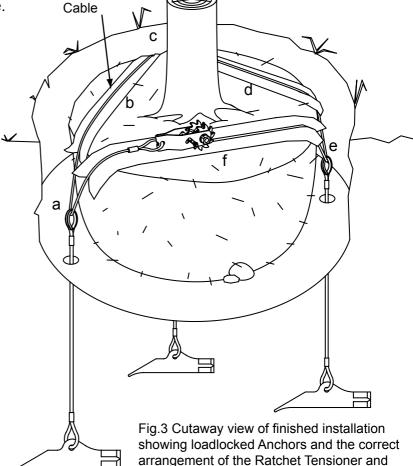


Fig.2 Pass free end of Tensioning Cable through Ratchet Wheel hole.

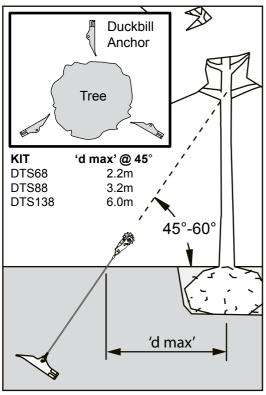


Tensioning Cable.

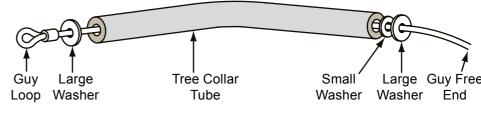
Tensioning



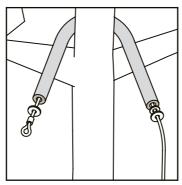
INSTALLATION INSTRUCTIONS Overhead Guying with DTS Tree Kits



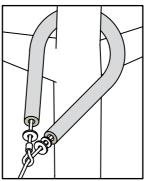
1. Drive the Duckbill Anchor into the ground to full depth in 3 positions equally spaced around the tree and at the required angle to the trunk (45°-60°). Loadlock using the LL-2 loadlocker or other method. ('d max' is for guidance only. Attachment height and Guy length must be considered.)



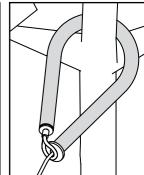
2. Thread the Washers and Tree Collar Tube on to the Guy as shown above.



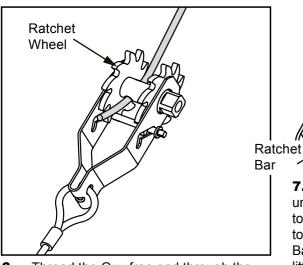
3. Pass the Tree Collar Tube around the tree trunk.



4. Thread the Guy free end through the Guy loop.



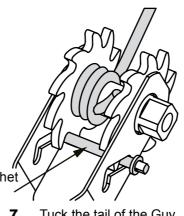
5. Pull the Guy to seat the Tree Collar Tube against the Washers.



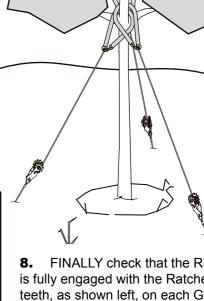
6. Thread the Guy free end through the Ratchet Wheel from front to back as shown. Pull the slack wire through and cut off the excess. With a short tail of Guy wire (about 30mm) protruding wind the Ratchet Wheel clockwise (with a suitable wrench) to tighten the Guy (see step 7 first).

Anchor Systems (Europe) Ltd

Unit 45, Rowfant Business Centre, Wallage Lane Rowfant, West Sussex, England RH10 4NQ Tel: +44 (0) 1342 719362. e-mail: anchorsystems.co.uk www.anchorsystems.co.uk



7. Tuck the tail of the Guy under the first few windings to prevent it pulling out and to stop it fouling the Ratchet Bar. Ratchet each Guy a little in turn until all three are equally tight.



8. FINALLY check that the Ratchet Bar is fully engaged with the Ratchet Wheel teeth, as shown left, on each Guy to guarantee correct tension is maintained. Remove and dispose of all waste wire.



Strops, Guying Wires, Catenary Wires



Anchor Systems (Europe) Ltd, Unit 45 Rowfant Business Centre, Rowfant, West Sussex, RH10 4NQ

Wire Strops, Guying Wires and Catenary Wires.

All wire strands is produced in house to any required length complete with swaged loop diameter to 60mm or client requirements.

Where instructed wire lengths will be etched onto the ferrules creating the loops.

We produce wire in 7/19 strand configuration, in galvanised or stainless steel grade 304. Our available diameters are in increments of 1mm from 4mm to 12mm.

All wire has a minimum tensile strength 1770 N/mm^2 ; BS 302 1987; BS EN 12385.

- 4mm 5.95kg per 100m
- 6mm 13.40kg per 100m
- 8mm 23.65kg per 100m
- 10mm 36.96kg per 100m







ANCHOR SYSTEMS (EUROPE) LTD

GALV	ANISED WIRE TECHNICA	LDATA				
WIRE DIAMETER (mm)	3	4	6	8	10	12
MINIMUM BREAKING FORCE (kN)	5.29	9.40	21.20	40.30	63.00	90.70
MINIMUM BREAKING FORCE (kg)	540	960	2,160	4,110	6,420	9,250
1770 Tensile	Grade; BS302 1987; Con	struction 7	/19			

S STEEL WIRE TECHNIC	AL DATA				
2	4	6	8	10	12
2.20	8.89	20.00	35.60	55.60	80.00
225	905	2,040	3,630	5,670	8,160
	2 2.20	minus automatic	2 4 6 2.20 8.89 20.00	2 4 6 8 2.20 8.89 20.00 35.60	2 4 6 8 10 2.20 8.89 20.00 35.60 55.60





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GALVANISED WIRE TECHNICAL DATA						
WIRE DIAMETER (mm)	3	4	6	8	10	12
MINIMUM BREAKING FORCE (kN)	5.29	9.40	21.20	40.30	63.00	90.70
MINIMUM BREAKING FORCE (kg)	540	960	2,160	4,110	6,420	9,250
1770 Tensile Grade; BS302 1987; Construction 7/19						

STAINLESS STEEL WIRE TECHNICAL DATA						
WIRE DIAMETER (mm)	2	4	6	8	10	12
MINIMUM BREAKING FORCE (kN)	2.20	8.89	20.00	35.60	55.60	80.00
MINIMUM BREAKING FORCE (kg)	225	905	2,040	3,630	5,670	8,160
1770 Tensile Grade; BS302 1987; Construction 7/19						









