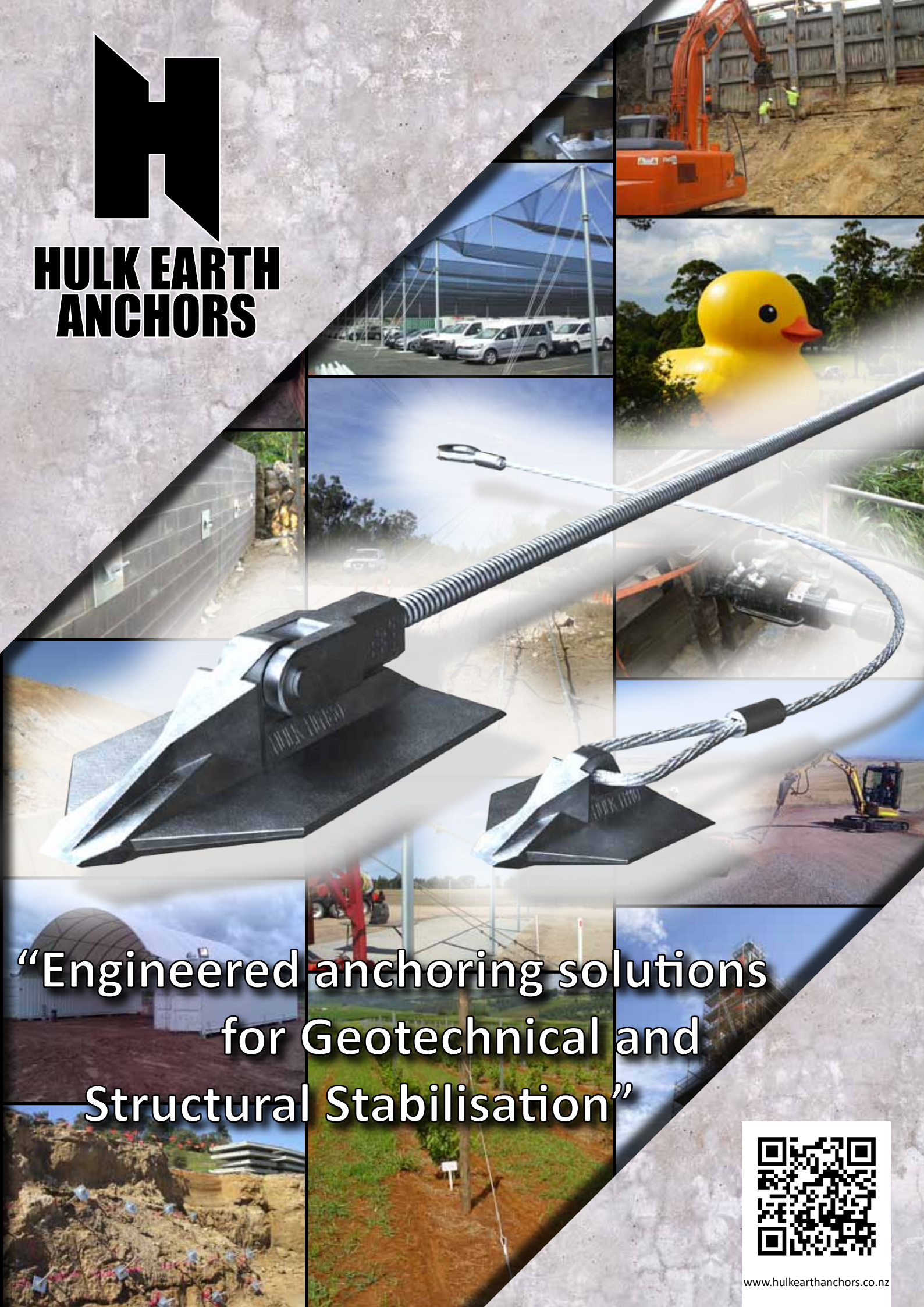




HULK EARTH ANCHORS



“Engineered anchoring solutions
for Geotechnical and
Structural Stabilisation”





INTRODUCTION TO HULK EARTH ANCHORS

Anchoring Rope and Rigging PTY LTD are market leaders in the conceptualisation and production of innovative earth anchoring solutions used in a variety of engineered applications.

The introduction of HULK earth anchors ushers in a new era in percussion anchor technology. Hulk is the result of the culmination of knowledge gathered over the last 27 years in the manufacture, design and installation of these systems. HULK is a technologically advanced range of products and its performance specifications surpass all of our previous products.

Designed, developed and manufactured in Australia for challenging Southern Hemisphere conditions HULK Earth Anchors are built extra tough to stringent Australian standards thereby guaranteeing safe products and consistent quality.

KEY FEATURES

- Chisel shaped drive tip for quicker and straighter installs.
- Hex drive technology allowing for stronger and easier to install anchors.
- Larger surface area for higher potential loads.
- Shorter rotation distances resulting in quicker load locking times and less drive time.
- Fewer drive rods.
- All products designed to relevant AS specifications.

KEY BENEFITS

- Quick and easy to install using readily available gear.
- Available for immediate use.
- Every anchor is proof tested as part of the installation process.
- No excavation necessary.
- No concrete required.
- Environmentally friendly.
- High quality technical support.



HOW HULK EARTH ANCHORS WORK

1) Drive the HULK Earth Anchor.

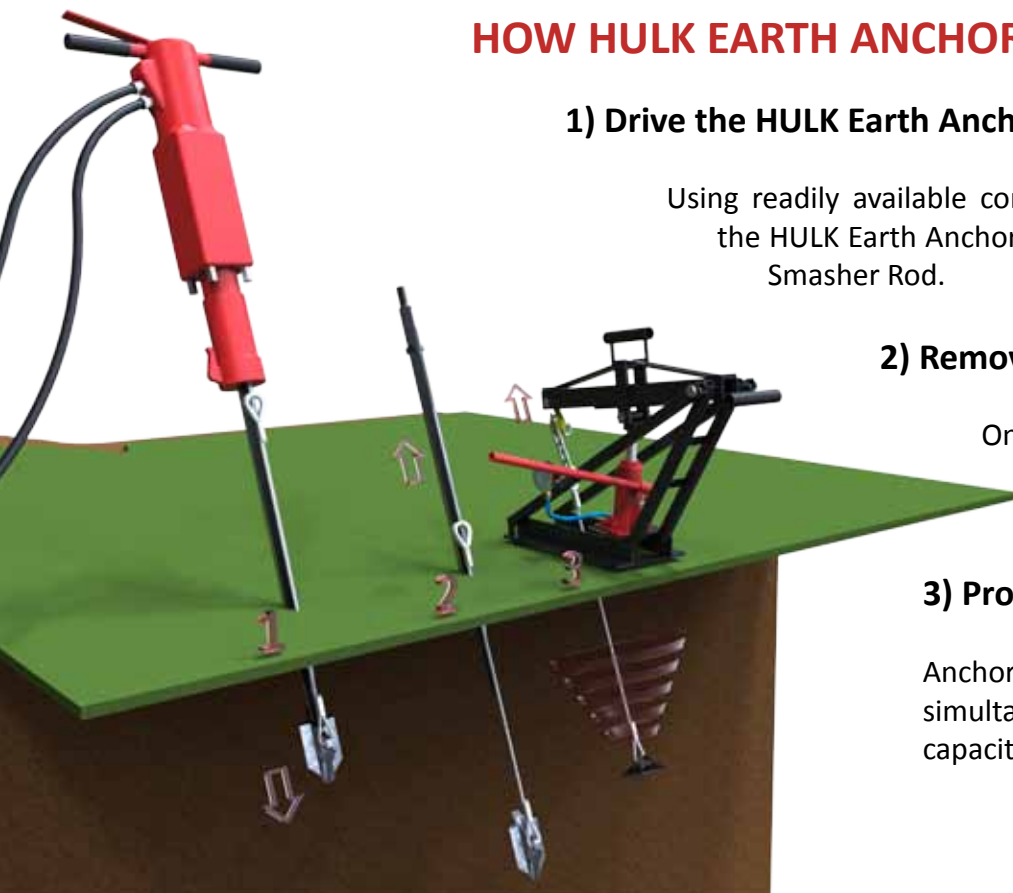
Using readily available conventional tools and equipment, drive the HULK Earth Anchor into the ground with a reusable HULK Smasher Rod.

2) Remove the Smasher Rod.

Once the HULK Earth Anchor is driven to the required depth remove the HULK Smasher Rod.

3) Proof Test.

Anchor Lock the HULK Earth Anchor while simultaneously proof testing to the required capacity.



HULK Earth Anchors Models and Accessories



HULK H50

Dimensions:	Width: 50mm Height: 63mm Length: 160mm
Weight:	0.75Kg
Material:	Ductile Iron
Mechanical Properties:	Ultimate Strength: 55kN Yield Strength: 35kN <small>Note: Holding capacities are tendon and soil dependant</small>
Soil Bearing Surface Area:	69.3cm ²
Typical Installation Depth:	1m to 2.5m



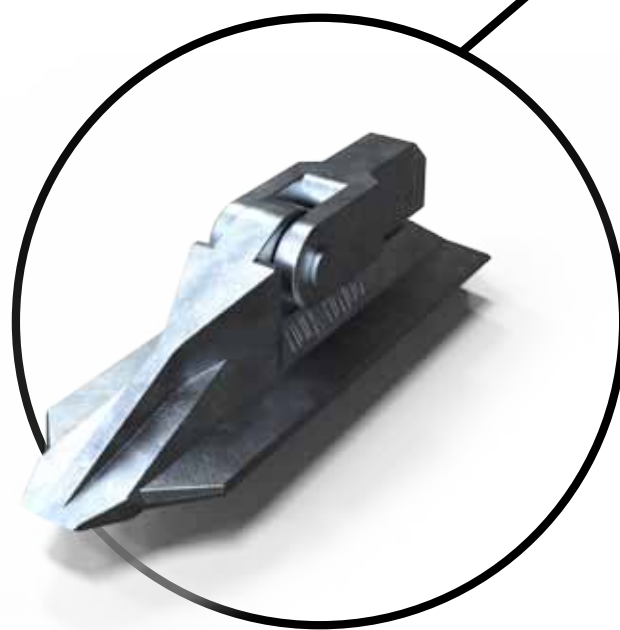
HULK H80

Dimensions:	Width: 80mm Height: 63mm Length: 160mm
Weight:	0.83Kg
Material:	Ductile Iron
Mechanical Properties:	Ultimate Strength: 55kN Yield Strength: 35kN <small>Note: Holding capacities are tendon and soil dependant</small>
Soil Bearing Surface Area:	99.8cm ²
Typical Installation Depth:	1m to 2.5m



HULK H110

Dimensions:	Width: 110mm Height: 63mm Length: 160mm
Weight:	0.99Kg
Material:	Ductile Iron
Mechanical Properties:	Ultimate Strength: 55kN Yield Strength: 35kN <small>Note: Holding capacities are tendon and soil dependant</small>
Soil Bearing Surface Area:	126.6cm ²
Typical Installation Depth:	1m to 2.5m



HULK HG100

Dimensions:	Width: 100mm Height: 105mm Length: 341mm
Weight:	5.25Kg
Material:	Ductile Iron
Mechanical Properties:	Ultimate Strength: 280kN Yield Strength: 175kN <small>Note: Holding capacities are tendon and soil dependant</small>
Soil Bearing Surface Area:	298.96cm ²
Typical Installation Depth:	2.1m to 9m



HULK HG180

Dimensions:	Width: 180mm Height: 105mm Length: 341mm
Weight:	6.4Kg
Material:	Ductile Iron
Mechanical Properties:	Ultimate Strength: 280kN Yield Strength: 175kN <small>Note: Holding capacities are tendon and soil dependant</small>
Soil Bearing Surface Area:	487.76cm ²
Typical Installation Depth:	2.1m to 9m



HULK HG320

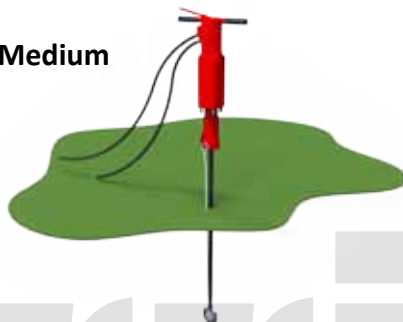
Dimensions:	Width: 320mm Height: 111mm Length: 444mm
Weight:	11.3Kg
Material:	Ductile Iron
Mechanical Properties:	Ultimate Strength: 280kN Yield Strength: 175kN <small>Note: Holding capacities are tendon and soil dependant</small>
Soil Bearing Surface Area:	1034.54cm ²
Typical Installation Depth:	2.1m to 9m

HULK INSTALLATION METHODS

Light



Medium



Heavy

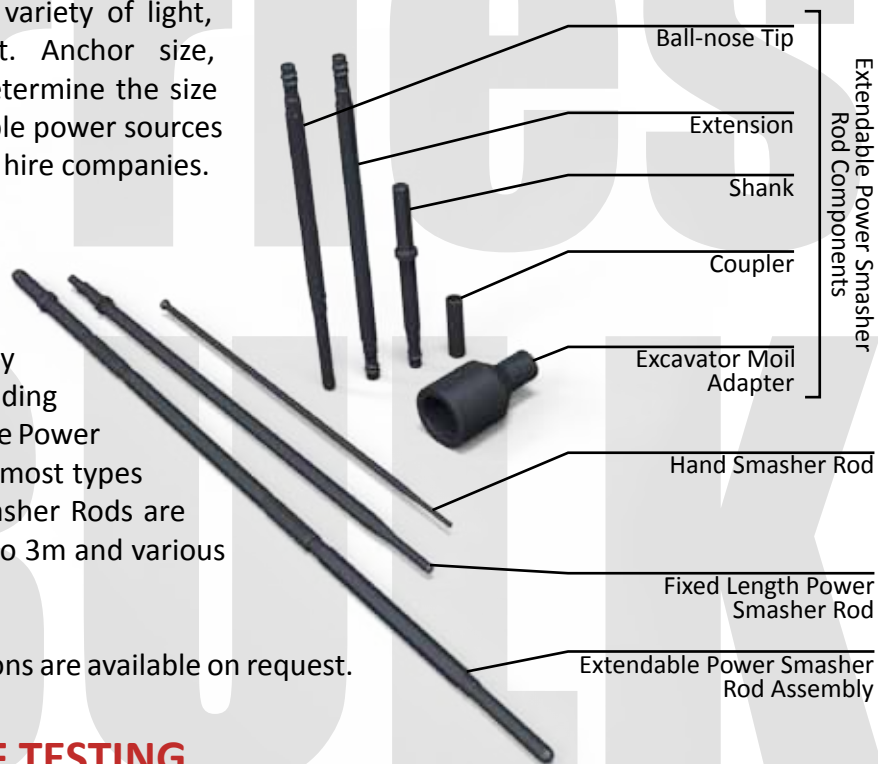


HULK Earth Anchors can be installed with a variety of light, medium and heavy installation equipment. Anchor size, installation depth and project specifics will determine the size of installation equipment required. All applicable power sources and plant are readily available from most plant hire companies.

HULK SMASHER RODS

We manufacture our HULK Smasher Rods from high quality impact resistant steels. They are available in a variety of combinations including Hand Smasher Rods, fixed length and extendable Power Smasher Rods. Shank options are available for most types of powered installation equipment. HULK Smasher Rods are available in a variety of lengths from 0.9m up to 3m and various diameters to attain desired installation depths.

A complete list of Smasher Rods and specifications are available on request.



ANCHOR LOCKING AND PROOF TESTING



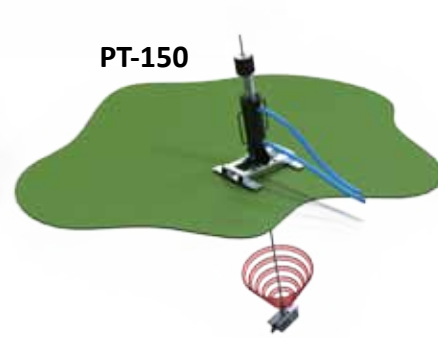
Anchor Hook



Anchor Jack



PT-45

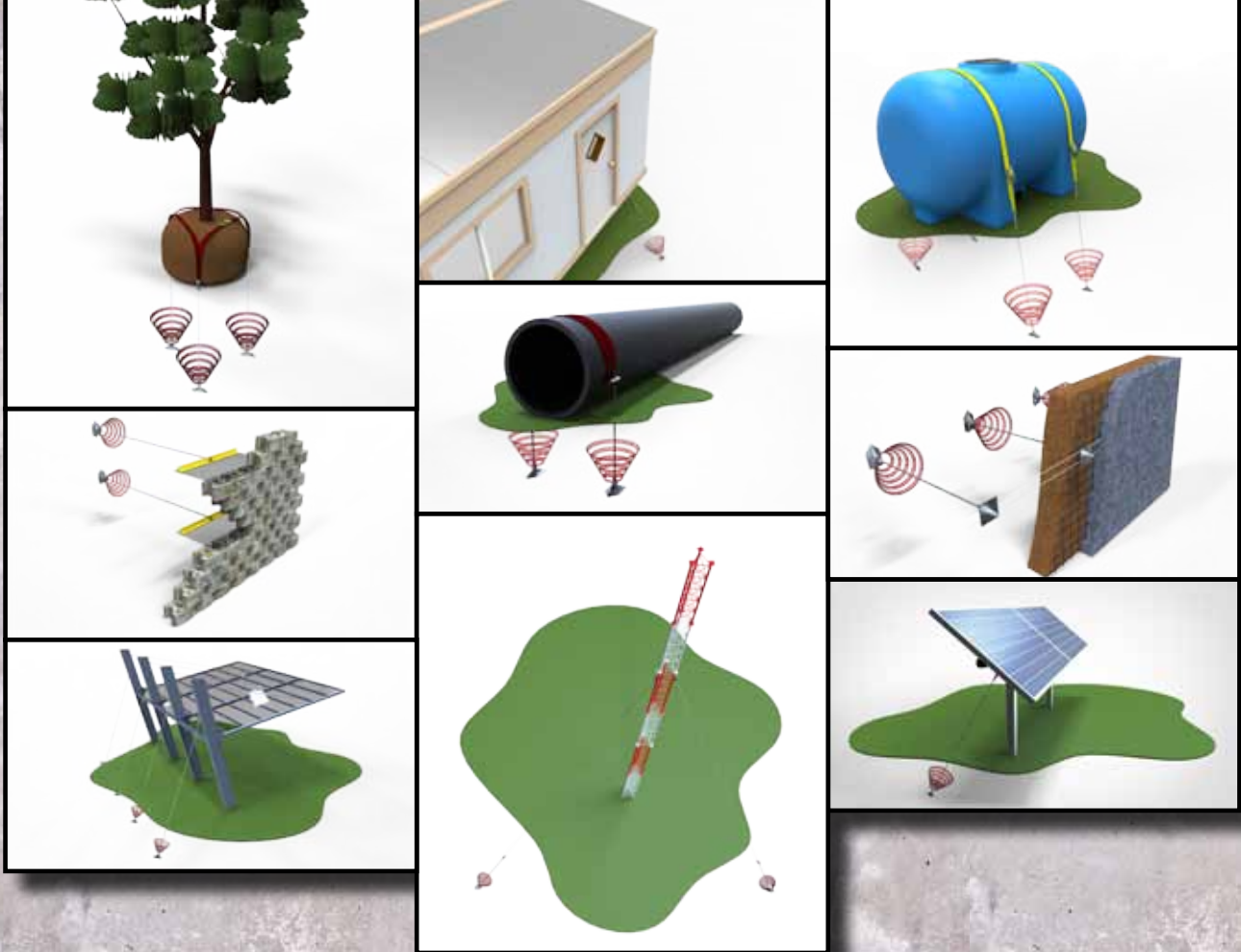


PT-150

Once the HULK Earth Anchor has been driven into the ground, it needs to be set into its “Anchor Locked” position. This is achieved by pulling on the anchor tendon with HULK Anchor Locking equipment. The light duty anchor hook and medium duty anchor jack are quick and simple methods for Anchor Locking small to medium HULK Earth Anchors.

The PT-45 and PT-150 HULK Anchor Lockers are essential when installing HULK Earth Anchors in Light to Heavy installations to a specified load requirement. Both are designed to Anchor Lock and Proof Test simultaneously and can accommodate anchors installed vertically or at an angle to the ground. The anchor holding capacity is then easily read on the calibrated gauge. Various connections and fittings are available which allow easy attachment to different HULK Earth Anchor tendons.

For further advice and technical information visit
www.hulkearthanchors.co.nz



APPLICATIONS:

- Retaining Walls
- Bridges
- Erosion Control
- Rock Retention
- Drainage
- Portable Buildings & Structures
- Shade Structures
- Orchards
- Power Lines
- Wind Turbines
- Marine Applications
- Temporary Works
- Foundations
- Slope Stabilisation
- Sheet Piling
- Gabion Support
- Tree Support
- Hops
- Telecom Poles
- Turf Reinforcement
- Buoyancy Control
- Guyed Structures
- Landfill Capping
- General Security
- Tunnel Linings
- Scaffolding
- Vineyards
- Crop Protection
- Masts and Towers
- Pipelines

Distributed By:



Office: 09 473 4019
Email: enquiries@groundfast.co.nz

Post: PO Box 35192
Browns Bay 0753, Auckland

Steve McEwing
Mob: 027 228 8844
Email: steve.mcewing@groundfast.co.nz

Justin Wilson
Mob: 027 528 0475
Email: justin.wilson@groundfast.co.nz