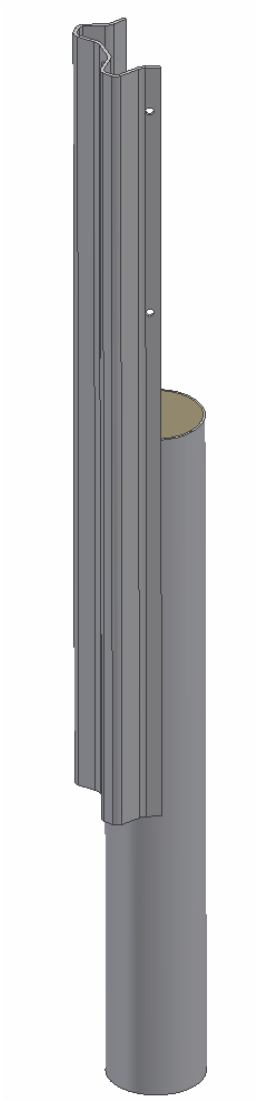
POLE FOUNDATIONS

Pole Butt Replacement

Pole Foundations' services and products are the leading edge in the industry. We are able to create cost effective solutions from external requirements or from in-house research.
Replace-A-Butt is a concrete filled, galvanised structural steel section that replaces the timber pole at ground line, making it suitable for many applications.



Use Replace-A-Butt to:

- **Extend** the length of new timber poles before installation.
- **Repair** existing installations where the pole's in-ground section has deteriorated.
- **Raise** the height of existing in-service poles.
- **Relocate** or realign in-service poles, eg. Widening of roadways or new underground utility services.
- With the addition of a ground anchor (overleaf) the system provides **stabilised foundations** in poor soils.

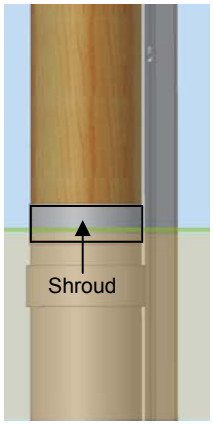
Our unique design provides many benefits not available by any other product.

There is potentially an **additional 25 years** of service life to existing poles subject to above ground conditions remaining serviceable.

Other systems call for the machining of the pole butt which removes external treatment. Replace-A-Butt does not require excessive machining of the pole butt and therefore the original **CCA treatment remains intact.**

Other systems allow water to penetrate the joint between the timber pole and the steel sleeve resulting in further deterioration of the timber butt which is inaccessible for inspection. Replace-A-Butt provides an open air gap between the timber pole and the steel in-ground section allowing full **visual inspection** round the pole.

Replace-A-Butt is installed using off the shelf conventional construction machinery and can, after suitable training, be **installed by semi skilled personnel**. Other systems require very expensive purpose built vehicles and machines on site with limited availability.



Features:

- Physically attaches the pole to the butt.
- Enables butt replacement on an existing in-service pole.
- Can be pre-installed to extend the length of new poles.
- Able to attach a second multi-rib.
- Provides stable embedment in poor soils.
- Does not remove CCA treatment.
- Structural steel tube and hot dip galvanized.
- Concrete filled for extra strength.
- No wood below ground line.
- Shroud covers gap between pole and steel tube.

Features & Benefits at a glance

- Increases strength of pole and connection.
- Remains clear of soil and thereby possible contamination.
- No longer required to dig and inspect for ground line deterioration.
- An open air gap allows visual inspection around the pole.
- Can be pre-installed.
- Termimesh between connections for added protection.
- Diameter of the pole is retained for original strength.

Recycling discarded poles

When a pole must be replaced, in the majority of cases the discarded pole can be recycled. This is achieved by removing the deteriorated section of the pole butt and installing the butt replacement unit. There is no other system available that can facilitate pole recycling, so it can significantly reduce the demand for new poles.

By recycling poles in this manner, utilities are addressing the environmental issue regarding the avoidable use of trees as well as overcoming the very real shortfall of available poles.

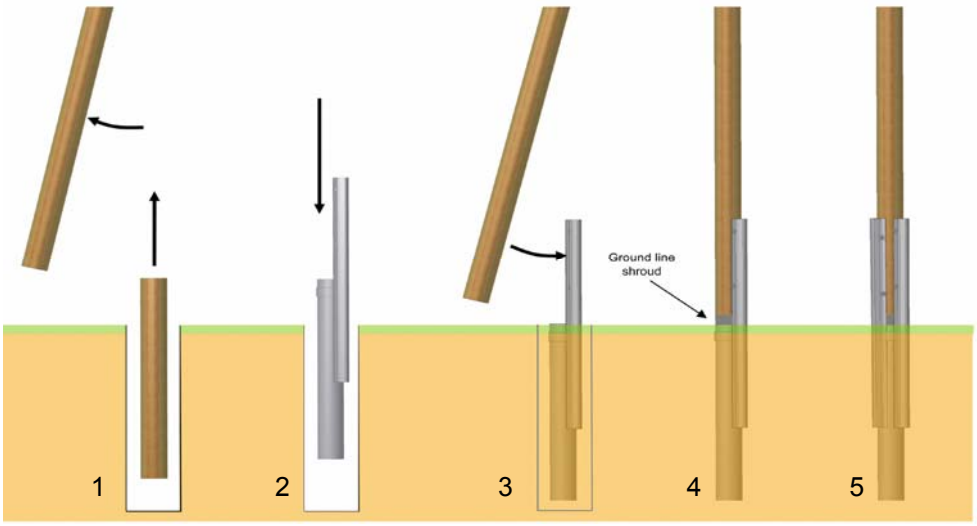
Capacities:

Engineered and field tested for up to 292 kNm (ultimate) on a single installation and up to 500 kNm (ultimate) on a double installation.

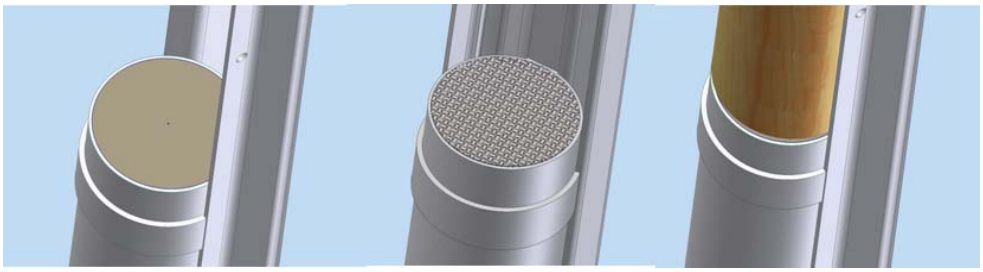
THE POLE FOUNDATIONS product range: Multi Rib and Multi Tube Pole Reinstatement Solutions, Overhead Line Inspection, Data Collection and Condition Analysis

POLE FOUNDATIONS

1. Standard System

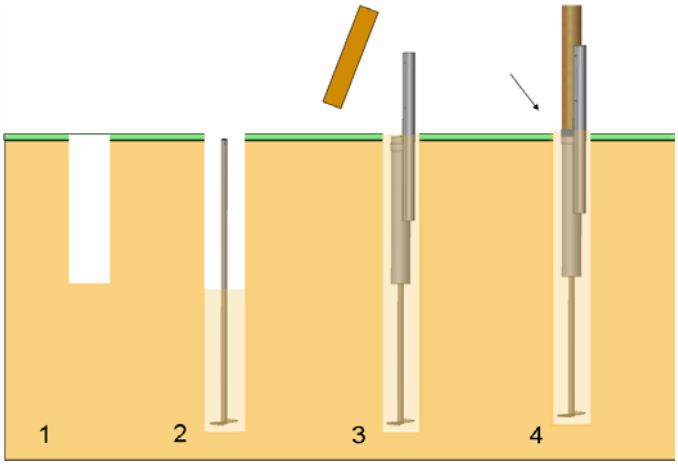


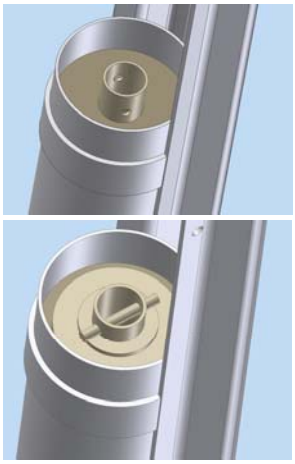
Pole cut, swung clear and pole removed | Butt replacement module installed | Ground reinstated and pole swung back into place. | Unit is bolted to pole & ground line shroud is installed | Optional double nail installed



Concrete Filled | TermiMesh Installed | Pole Attached

2. Anchored System





Augur hole and install screw anchor | Secure Butt replacement module to anchor | Attach pole | Unit is secured with plate and pin

1. Standard System

Installation procedure:

- Hold pole vertically at head leaving cross arms and conductors in place.
- Pole is cut just above ground line and base of pole swung clear.
- Butt is removed.
- Replacement butt unit is positioned in the hole.
- Base of pole is swung back and bolted to Butt Replacement Unit.
- Ground is reinstated as per normal pole installation.

This diagram shows the TermiMesh and air gap which allows for better maintenance and inspection.

A shroud is placed over the connection area for even better protection.

For extra stabilisation in soft soils, a screw anchor is installed to a greater depth.

The butt assembly is then slipped over the anchor and secured with a lock pin after being filled with concrete as usual.

The top section is grout filled, TermMesh is installed and the pole is fitted and secured in place.

Design Patent Pending

POLE FOUNDATIONS

PO Box 207, Carole Park,
Queensland, Australia 4300

Phone: (61 7) 3879 4000
Fax: (61 7) 3879 4111
Email: headoffice@polefoundations.com
Website: www.polefoundations.com

Call us now to discuss your needs and we will tailor a solution to suit.

For more information on our products, services and branches, go to our web site at www.polefoundations.com