

DULHUNTYPOLES



Titan Newsletter

Overheard Lines from The Reliable Titan

*'The Bushfire Proof Titan is the Power Pole of the Century.
Titan Reliability is Guaranteed'*

Contents

- Titan Info & Support
 - Quality Assurance Achievement
 - Titan Minimizing Pole Inspection Costs
 - Australia's Proofed Pole
 - We Know Poles & Piles
 - Titan's Industry Acceptance Prompts Factory Upgrades
 - Beating Material Shortages and Manufacturing Downtime
 - Get a Better Feel for the Reliable Titan
-

Titan Info & Support

Australian made Dulhunty Titan Poles continue to provide the opportunity for Titan Newsletter readers to access more Titan related information, or provide any comments they see fit to forward, through the enquiries email enquiries@dulhuntypoles.com and a Titan Help Desk team member will respond ASAP.

Although we are always extremely pleased to correspond in this manner, the answer to your questions may already be available on our website or in one of the many previous Titan Newsletters available at www.dulhuntypoles.com under the NEWS tag.

Did You Know?

All Titan designs are first assessed by Finite Element Analysis (FEA) before construction of prototypes for testing occurs.

Quality Assurance Achievement

Dulhunty Poles have again successfully completed our ISO 9001:2015 Quality Management Systems (QMS) audit for the period from July 2023 to July 2024.

ISO 9001:2015 is by far the world's most recognised and established Quality Management System, providing organisations that successfully achieve the associated Certificate of Registration (below), the structure they need to monitor and further improve performance in all related areas.



Certificate of Registration

Dulhunty Poles Pty Ltd

35 Buckley Grove, Moolap, VIC 3224, Australia

have been assessed and approved to:

ISO 9001:2015

Quality Management System

The approved management system applies to the following scope:

Dulhunty Poles operating from Moolap, designs, manufactures and supplies engineered fibre cement poles for utilities worldwide.

Original Approval:	1 st July 2015
Current Certificate:	1 st July 2023
Certificate Expiry:	1 st July 2024
Certificate Number:	AU1648

Signed: Certification Officer

This certificate remains valid until the holder indicates their certification system is in accordance with the standards and guidelines stated above, which will be audited annually by QAS International. The holder is entitled to display the above registration mark for the duration of this certificate, which should be returned to QAS International upon request.

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We have successfully operated under and been rigorously audited on this particular quality framework standard since 2015. We embrace all the

management principles within the QMS; however, we have specifically targeted the following main directives within our operations:

- Monitoring and measuring of all indicating devices and mixtures
- External suppliers of raw materials
- Packing and dispatch of all products
- Consistency and relevance to industry standards for all manufactured products

Successful registration to ISO 9001:2015 by a qualified certification body, demonstrates our commitment and persistence to quality, customers satisfaction and a willingness to continually work towards improving efficiencies across the wide company configuration. It further demonstrates the existence of an effective operational quality management system that satisfies the rigours of an independent external audit.

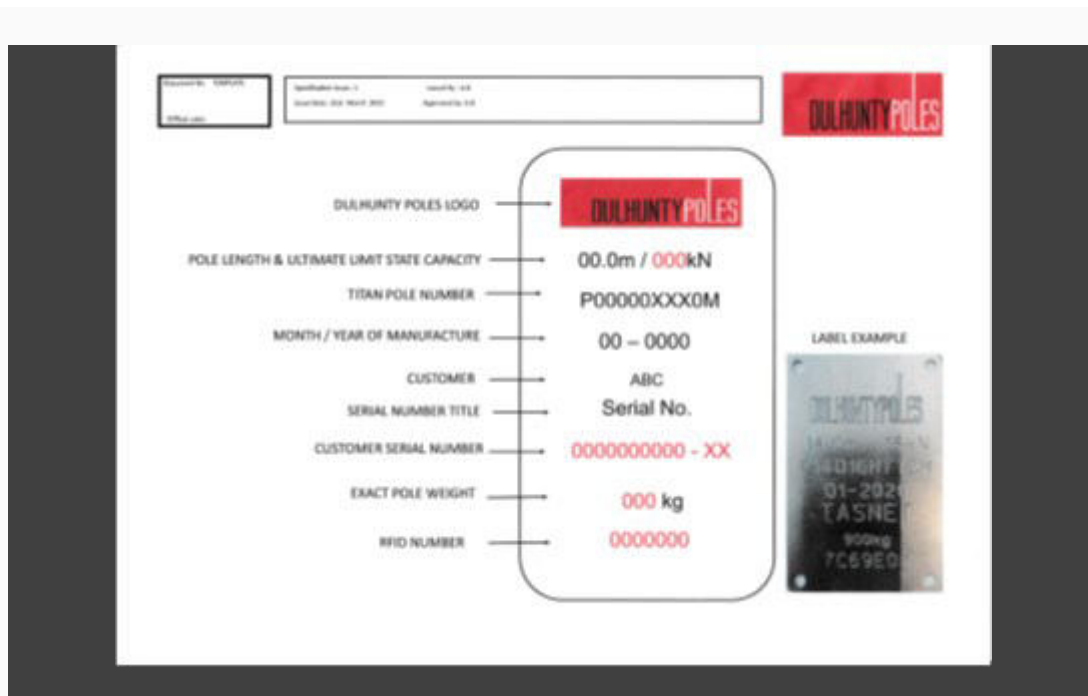
Consequently, we are proud of our quality management achievement record, and are dedicated to continuing to include these quality characteristics in everything we do, every time, in the manufacture of the Australian made Titan products.

Titan Minimizing Pole Inspection Costs

With Titan fibre cement poles, the actual pole inspection and preservation costs are next to negligible.

The actual inspection process is typically just a visual inspection of the whole pole surface from the ground.

There is no partial excavation, no drilling to determine pole wall thickness for strength calculation, no UV damage to look for, no rust, termites, or fungal decay etc., to investigate. And importantly, no nasty preservation/remediation chemical treatment to apply ever, which is a real win for the environment.



A Dulhunty Poles Identification Label (blank shown above), shows all the pole's information included on each Titan Pole at manufacture. All Titans also have an embedded fireproof Radio Frequency IDentification (RFID) tag which also provides the pole serial number and can be accessed through a client's reader device.

Even after a bushfire has gone through a Titan Pole powerline site, the resulting serviceability inspection of any Titan Pole is projected to be nothing more than a visual inspection; details of the visit can be recorded via the RFID.

One ESI distributor and Titan user, formally instructs their pole inspectors, 'There is no natural degradation process known for fibre cement poles.'

There appears to be a wide range of detailed and time-consuming pole inspection duties required across different Australian ESI organisations – and most involve the use of significant plant, tools and equipment. Conversely, the Titan fibre cement pole inspection process requires none of this.

The 'Proofed Pole'

We must admit to being rather delighted in reporting that the Dulhunty Titan Pole has clearly received the tick of approval at becoming known in some quarters, as ***Australia's Most Proofed Pole.***



This 'label' comes from a fan of the engineered Titan Pole who has wittily reflected on the many proven characteristics and attributes of the Titan, being

- ✓ Bushfire Proof
 - ✓ UV Proof
 - ✓ Rot Proof
 - ✓ Termite Proof
 - ✓ Rust Proof
 - ✓ Proven enhanced Basic Impulse Level (BIL) insulation properties
 - ✓ Proven low electrical conductivity
 - ✓ Proven suitable for marine and saline ground condition
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- ✓ Proven to comply with all applicable standards
- ✓ Proven low cost whole of life pole
- ✓ Proven lowest carbon footprint
- ✓ Proven low maintenance and inspection costs.

And there are probably a few more Titan proven features that caught his attention.

We Know Poles and Piles

Dulhunty Titan Poles and Piles are completely designed and manufactured in Australia by Australian based operatives in our Victorian factory and have been since 2010.

There are no sections of the Titan manufacturing process outsourced to overseas providers.

Such a local foundation promotes the dedication and loyalty to the Australasian ESI, hence why the Titan was developed in the first place, as there was a critical need for it – and there still is. We also found the Titan Pole principles were very adaptable to the marine sector, hence our unique products' acceptance there.

Titan Poles

Dulhunty Poles originated from the ESI needs, by directly allied ESI people and that format has continued. Our staff involvement recorded below speaks volumes to the ESI knowledge and experience we have available on a daily/hourly basis.



We have within our ranks, amassed over 320 years of direct ESI experience that we benefit from, covering all relevant power line pole use and asset management aspects, including –

- ✓ Engineered pole design
- ✓ Overhead line design
- ✓ Network planning, construction and maintenance
- ✓ Understanding detrimental network factors
- ✓ Asset management/assessment protocols
- ✓ Required characteristics for long life poles
- ✓ Stringent strength & durability pole testing
- ✓ Financial network planning
- ✓ In field pole maintenance techniques.

This massive ESI experience and knowledge, steers us to recognise what does, and what doesn't work for the long term in the field, and what can be done better. Only such a vital informed background can identify and predict serious looming disasters for the future, through inferior products and systems. And at the moment we can see a few issues looming that could be easily eliminated by using the Titan.

Titan Piles

Our Titan Marine Piles specialist sector developed the Titan lightweight, steel free pile for use in both fresh and sea water. They have also gathered an enviable and continuous record for industry experience and expertise, with multiple projects appropriately designed and manufactured inhouse to successfully fulfill client's requirements and satisfy all associated waterways authorities



Close cooperating with our Titan Marine Pile clients, has seen our specialists cater successfully for the more intricate parts of each project.

Titan Manufacturing

Our inhouse manufacturing division, producing both Titan Poles and Titan Piles, has brought together some 150+ years of experience to the management and senior operational sections of this industry, providing the Dulhunty Poles Pty Ltd assurance of a quality product outcome every time.



The recent successful upgrades of the Dulhunty Poles factory for Titan's increased productivity, highlighted below, have been expertly and successfully driven by this sector.

Titan's Industry Acceptance Prompts Factory Upgrades

We are pleased to report that, over the last few months, client demands for Reliable Titan products has increased substantially, from current clients, as well as from new clients.

This growth genuinely reflects directly on industry acceptance of the Titan, as a low cost whole of life choice, ensuring economical, ongoing network reliability.

To meet this ongoing demand, Titan production has increased by around 20% within the last twelve months and all indications are, this number is clearly heading further upwards.



Containers being loaded with Titans for offshore clients and creating a truck load for local delivery

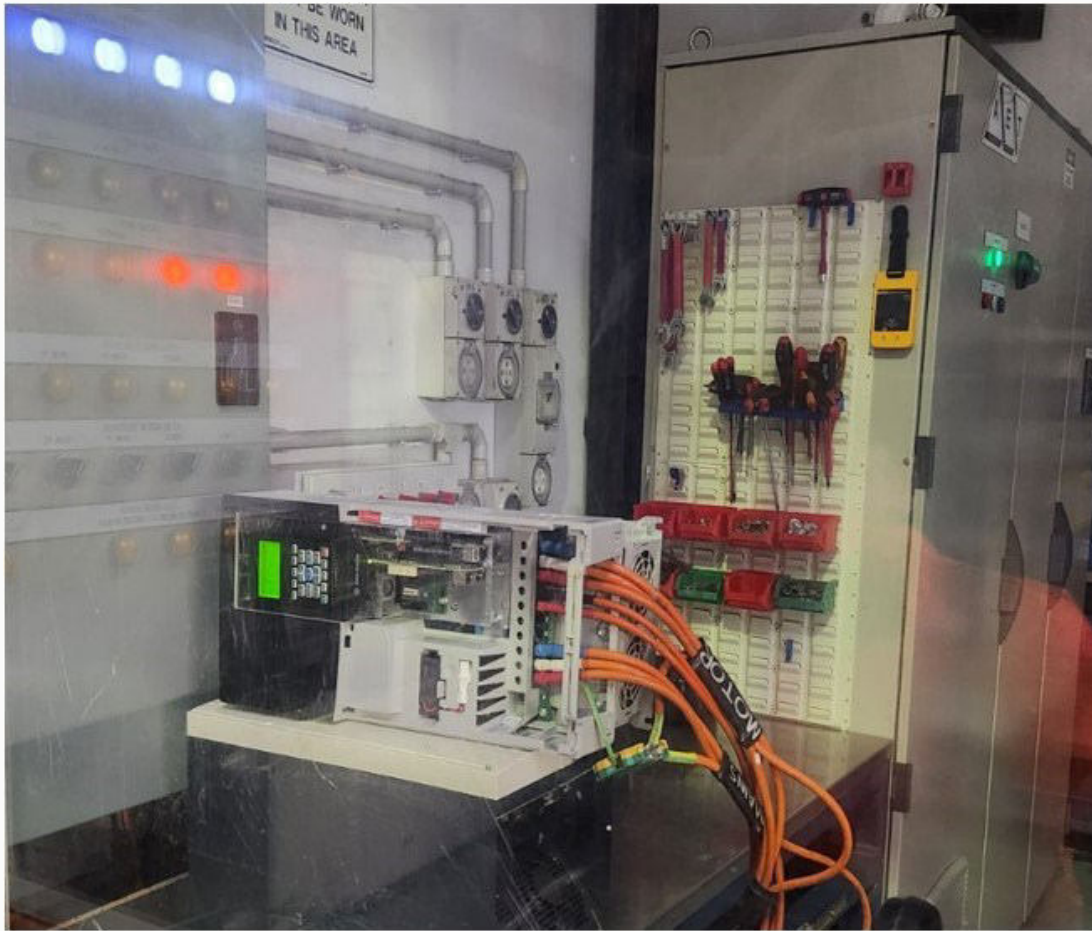
These major factory upgrades have included equipment and machinery solely aimed at increasing production, and over half a million dollars has been invested so far, with more improvements in the immediate pipeline.

It is important to emphasise, that the Titan manufacturing formula and manufacturing process has not been changed – it is just the Titan output quantity that has been upgraded and increased substantially to meet industry quantity demands. We will still provide the same unique, quality Titan product – only more of them, in a shorter time frame.

One of the major upgraded machinery items is a new dry mix blender, which has now increased this part of the operations to 10 times the previous capacity. The update of this inaugural part of the production cycle, then flows on to streamline the whole manufacturing process by more consistently delivering raw materials to the pole winding/manufacturing area.



Installed 5tonne capacity Dry Mix Blender



Blender electronic control unit during calibration

Once the initial primary upgrade process was deemed necessary, all downstream functions were then acted upon, to rid the complete manufacturing process of any bottlenecks that may impede this increased production.

Other below listed items and support functions were identified as requiring attention and were duly enhanced.

- Larger capacity 35,000lt emulsion tank
- Larger more frequent bulk deliveries of emulsion to match increased Titan production



The new 35,000 ltr emulsion tank and one of many regular larger bulk deliveries of emulsion

- Improved extractor vacuum system for the pole cutting trolley
 - New mandrels purchased for larger poles manufacturing
 - Innovative roving fibreglass splicer
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Modernised extractor vacuum system streamlines pole preparation



The new Fibreglass Splicer is designed to rove between winding stations as required

All new machinery and equipment feature in the streamlining of the completely enhanced manufacturing process, aimed towards increased productivity at the pole winding stations.

We believe we are currently well placed in meeting existing Titan demands – additionally, our client alert system ensures any further increased demand can also be well catered for with little notice.

Dulhunty Poles are a very client centric organisation.

Did You Know?

The Titan Pole is supported by the Titan Pole User Guide, which covers items such as handling requirements, dressing and attachment of specific fittings, installation tips etc.

Beating Material Shortages and Manufacturing Downtime

Shortages of raw materials to the manufacturing sectors worldwide are still being reported as leftovers from the pandemic, however Dulhunty Poles, and therefore our clients, have not and will not experience any such inconvenience. Dulhunty Poles have always maintained a multiple supplier and backup materials store arrangement, which has kept us in good stead throughout any such recessionary period.

Our product moulded and history tested procurement and material utilisation system, is designed to ensure we are never short of prime materials; therefore, production of Titan products remains on track as required.

Below is just a sample of our raw materials storage base, which includes overall, at time of reporting, 16 tonne of cement powder, 21 pallets of glass fibre and 8 pallets of clay with some replenishment top up shipments being a regular twice a week occurrence.



We prefer buying Australian products, eliminating the continually escalating overseas shipping charges and supporting Australian industry generally.

As would be expected in manufacturing such a unique product, some of the Titan manufacturing equipment are very specialised units. An important function in the continuous manufacturing process is in ensuring ready availability of difficult to source duplicate parts for specific machines. Dulhunty Poles have this rare breakdown scenario covered, by having our own back up inventory of such items.

This dependable duplicate components system is supported through our formal priority arrangements with local specifically qualified repair

organisations. Accordingly, this two-pronged methodology has proved successful in providing the ultimate security in our efforts for continuous Titan manufacturing.

Get a Better Feel for the Reliable Titan

Dulhunty Poles offer to those interested, free Titan sample pieces in an attractive desk-top pen holder. They illustrate Titan's lightweight fireproof features, natural robust structure, and ready drill-ability. If interested, please simply reply to this email, and provide your name and a postal address to receive your free sample.



