



Award Winning
Product
Innovation &
Design

//Composite
Crossarm Solutions



Allied **Insulators**

Composite Crossarm Solutions Fully Designed and Engineered



Totally adaptable solutions for the increased utilisation of all transmission line assets.

Research and Design Process

Extensive Engineering Design & Modelling

Utilising the latest software for design and 3D/FE modelling of insulators and fittings or interface components. Global modelling of dynamic overhead line environmental and security load cases.

Production Feasibility

Solution generation based on delivering the optimum solution to meet the design requirements of the application.

Prototype Development & Concept Testing /Proving

Proving the design calculations and concepts through extensive testing and verification based upon experience.

Production

Apply the highest technology to deliver superior insulator solutions that exceed expectations in all aspects.

Full Scale Mechanical & Electrical Testing

Covering both the single units and complete insulator assemblies in accordance with national specifications and international standards.

Delivery & Support

Full on site project support and guidance in particular for handling and installation of the insulator units.



Transmission system operator benefits of installing Composite Crossarms on existing and new assets

Upgrading

The ability to increase the voltage of existing circuits and thus increase the power transfer capacity.

Upgrading

The increased ground clearance of existing profiles results in the ability to potentially increase the operating temperature of conductors hence increase ampacity.

Existing Infringement

The increased ground clearance possible may be the answer to any statutory infringements and avoid the cost of steel tower replacement or heightening.

Improved Pollution Performance

Composite crossarm insulators can be designed with enhanced creepage distances accordingly to overcome any specific pollution problem that is evident.

Reduced Height Structures

The use of composite crossarms on new transmission lines will enable the significant height reduction of conventional structures and help to improve the overall aesthetics and indeed acceptability of the overhead line.



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