

**Pioneering
Insulator
Solutions for
Innovative
Transmission Lines**



Allied Insulators



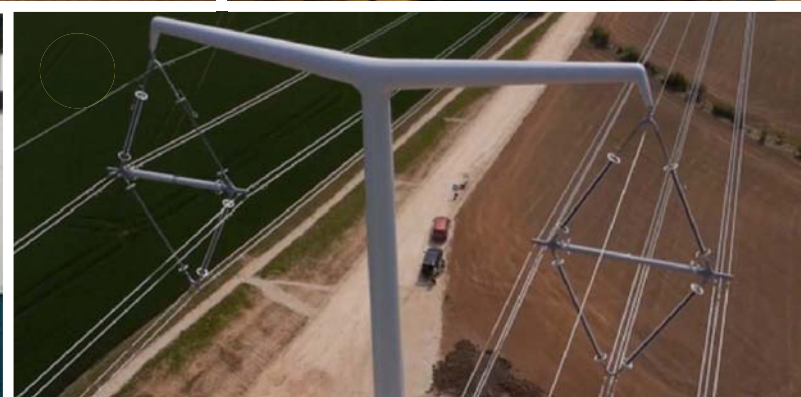
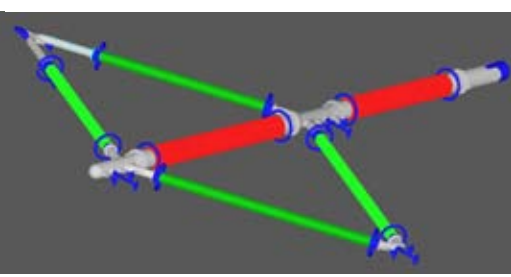
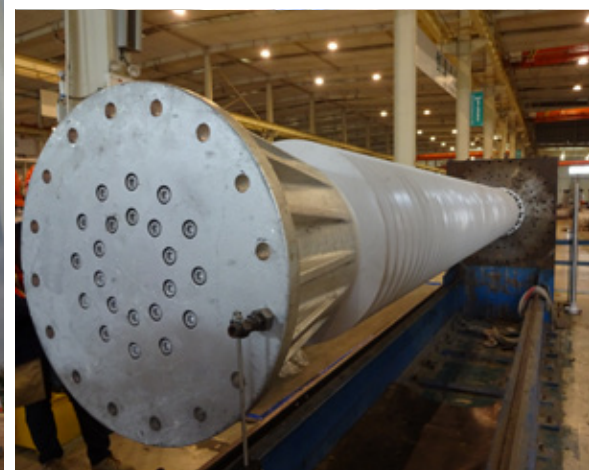
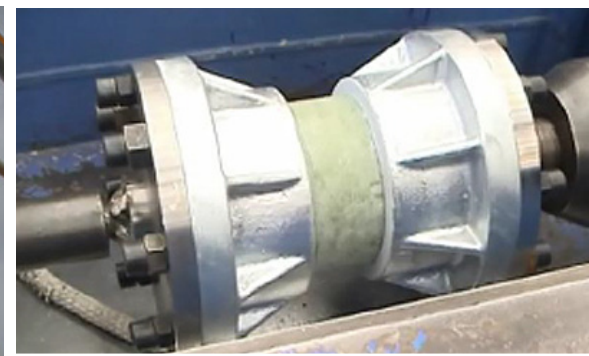
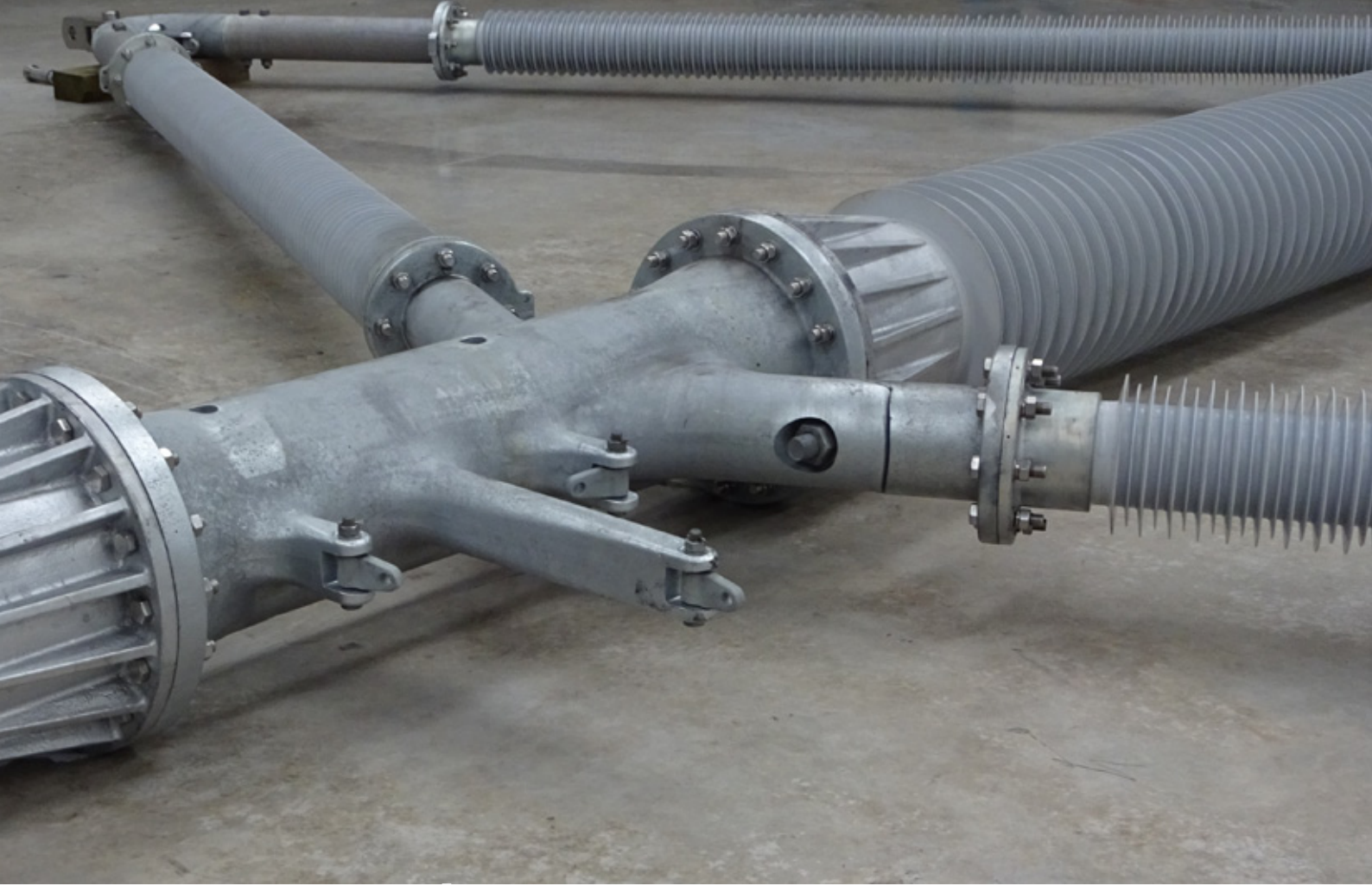
Pioneering Insulator Solutions for Innovative Transmission Lines

The global acceptance of new transmission line projects is key for the future of smart grid developments and interconnection throughout Europe; clearly the demand and needs for new aesthetic power pylons can, in many cases, only be realised by the continual development and application of new and innovative composite insulator solutions. Allied Insulators are both excited and committed to be a part of this evolution with their pioneering insulator developments and technology for the T-Pylon family.

The T-Pylon insulator range poses a great number of challenges for insulator design with non-conventional geometry and extreme mechanical loadings. The initial design scope exceeds the limits of many conventional insulator technologies and capabilities; couple this with the extremely high expectations for transmission network performance and it presents a great opportunity to develop new solutions to satisfy and indeed surpass all these challenges. Following a rigorous development path of enhanced design, engineering and modelling we have developed and enhanced many concepts for insulators and verified this through extensive prototyping and testing. New test equipment and procedures have been developed to demonstrate the insulators resistance to the combined loading effects during extreme environmental and security load cases. From an electrical perspective; additional to the single insulator design and type tests has been the full electrical testing of the whole insulator assembly to verify the electrical performance in line with the requirements of the UK National Grid system.

The collaboration of Allied Insulators with the key partners on this project demonstrates the huge possibilities that can be achieved with this combined vision.

From concept to reality with proven complex insulator design solutions manufactured to the highest standards.





Unit 8, Scotia Road Business Park, Fitzgerald Way, Tunstall, Staffordshire ST6 4HN

T:+44 (0) 8454 810 208

www.alliedinsulators.com info@alliedinsulators.com



Allied Insulators