



Multiple Bundle Stringing Technology TESMEC

Change is not a threat – It is an opportunity

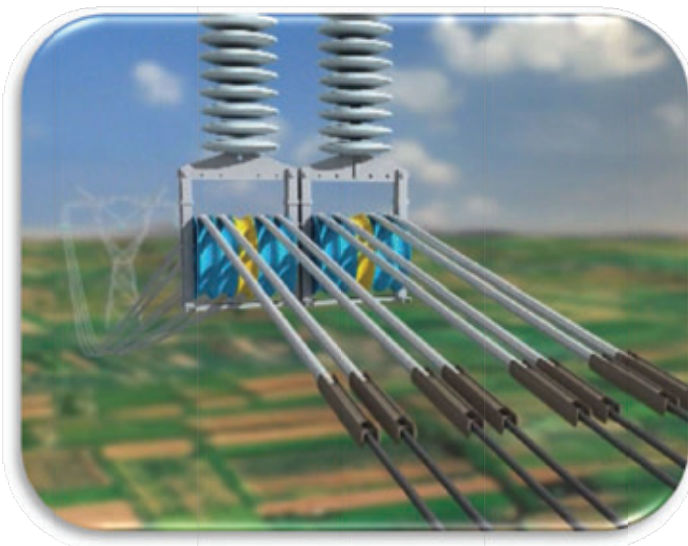
Specialised transmission line stringing equipment has been used in Australia for over 50 years. Since then, technology advances have delivered the conventional puller and tensioner machine, and later the combined Puller/Tensioner when maintenance and OPGW projects became necessary. Hydraulically controlled machines were replaced by electronically controlled units that gave operators greater control and diversity with the machinery across a broad range of projects. In 2008, Tesmec of Italy has again broken new ground by developing and manufacturing the all NEW multiple bundle speed synchronising system.



Innovative Stringing Machinery Manufacturers don't just evolve – They are involved

Electricity demand is increasing worldwide and as a result there is greater demand for multiple bundle constructions as part of major transmission networks. The installation of transmission power lines with a high number of conductors per bundle (or large conductor sections) require a very high pulling force both at puller and tensioner stations. Tesmec's initiative was to design and manufacture transmission stringing equipment capable of multiple

bundle (2,4,6,8) stringing processes without impacting on the manoeuvrability of machinery, whilst still providing diversity for projects of all sizes. For many years contractors around the world have used quad bundle stringing machines on these large scale projects. The machinery weighs in excess of 15 Ton and manoeuvrability is a constant hurdle with freight and site logistics. Although traditional quad bundle machinery still have their niche place in the market the "Multiple Bundle Speed Synchronising System" now offers maximum pulling tensions for larger multi bundle constructions whilst maintaining the flexibility for smaller projects as required.





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What is the Multiple Bundle Speed Synchronising System?

Using current generation 90kN bundle machinery, it is possible to link in parallel, multiple machines (up to 6) that are independently synchronised, yet still operated by a single user from one main control panel. The machinery is linked together with grounding and interconnecting cables. The TESMEC speed synchronising system allows multiple bundles of conductor to be strung at the same speed and the same force, ensuring that equal lengths of conductors are pulled. Should the need for multiple conductor stringing not be required, the machinery can be utilised separately on multiple project sites providing the user with a level of diversification never before experienced.



Let the world talk – The conclusion is simple

This new technology is already accepted globally and is in use in some countries including Australia. It provides accurate speed synchronisation <1% and eliminates the transport issues created by oversize stringing equipment. This solution provides a scale up, scale down option for the construction company with the stringing equipment providing diversity between 2kN – 360kN pulling force depending on the size project and its requirements. The same machinery is also capable of reconductoring and pulling at extreme low tensions for OPGW stringing requirements.



For more information on this new technology or to request a copy of the full presentation, contact **Corey Scott** at TEN Group on 07 3212 8999