



Grainger & Worrall's Engineering and Technology Director, Keith Denholm discusses how the disruption of EVs to the automotive industry will propel technology forward. Read the full transcript below.

Will EVs Drive New Levels of Innovation and Experimentation?

Yes, there are a number of external factors now which will start to contribute to that. There might be, for example, within a few years, a global metal. Why? Well, because in this circular economy it helps to have everything made out of the same stuff, which is not the case at the moment. Why would you do that? Because as part of the obligation for carbon footprint, and obviously for customer pricing, the cost of the raw materials and the processing of raw materials is a significant part in keeping aluminium above the ground. Once it's mined, you keep recycling it, which is a significant challenge for the automotive companies because that's the primary material of choice now. It might be for example, that there is a convergence on a particular type of material which would allow global, standardised use throughout the vehicle that will challenge the engineers, because it may not be the right material for everybody. But it may be seen as a nut that can be cracked, so the 'suspension people' may have different views to the 'body people' who may have different views to the 'powertrain people'. Things like that will start to creep in where there may be some new constraints placed on us that were never there before.

Want to find out more about the role of sand casting in electric vehicle manufacturing? Read our free eBook, **Making EV Components with Sand Casting**.

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