

SMALLER, CHEAPER AND BETTER...

Electric vehicle powertrain components will contribute towards differentiation in the EV market.



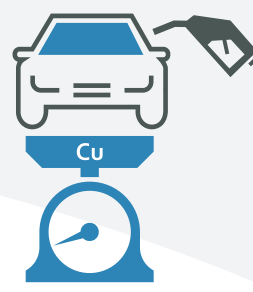
The world's hybrid and EV market is set to reach 13 million vehicles in 2025.

With the increasing adoption of electric vehicles, copper will be an essential material. Copper is at the heart of the electric vehicle and the world will need more. By 2027, copper demand stemming from EVs is expected to increase by 1.7 million tonnes, which is a number just shy of China's entire copper production in 2017.

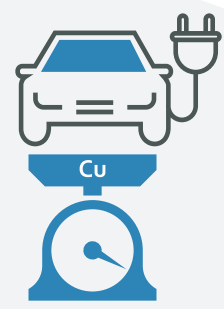


Copper is a major component in EVs used in electric motors, batteries, inverters, wiring and in charging stations.

Conventional cars contain 8 to 22 kg of copper while a battery-powered EV contains 86 kg.

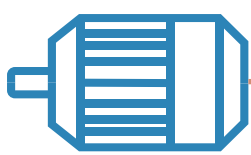
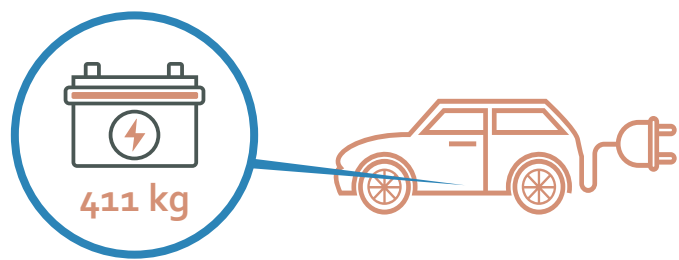


8 to 22 kg
Copper



86 kg
Copper

The EV's power comes from the battery which can weigh over 411 kg and is 8% copper.



1 MILE!


Pure EV motors can contain more than a mile of copper wiring in their stator windings!

A change in component manufacturing technique will cut material usage and costs. Electric vehicle powertrain components will contribute towards differentiation in the EV market.

For copper, CNC machining is widely used, but is there a better option?

COLD FORMING – DESIGN FOR ENGINEERING

- Reduced costs
- Ensures stronger components
- Less waste
- Faster production times
- Reduce the stages of production

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