

Professional Article: Captions – E-Mobility

Picture 1 - Steel



Picture 2 - Steel



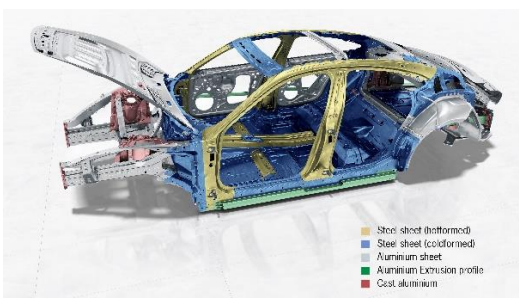
Picture 3 - Steel



Like other automobile manufacturers, BMW relies on climate neutrality in its supplier network.

Copyright: BMW Group

Picture 4 - Material mix Porsche Taycan



Copyright: Porsche

The lightweight body of the Porsche Taycan: Intelligent material mix of steel and aluminium.

Picture 5 - Mega_Casting__Tesla



Tesla wants to set the trend in die casting of large castings.

Copyright: Tesla

Picture 6 – Volvo_Cars_mega_casting



Volvo follows Tesla in mega-casting.

Copyright: Volvo

Picture 7



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Steel is the world's No. 1 lightweight material, but its innovation potential is far from being exhausted. Only recently, Japan's JFE Steel and thyssenkrupp Steel jointly launched new high-strength body steels for cost-effective cold forming. The materials with 980 and 1180 MPa strength have a higher yield strength and toughness compared to conventional high-strength steels. These properties promise further weight reduction of the body frame and better crash performance.

Copyright: thyssenkrupp Steel Europe