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Development trends in weight reduction of automotive body

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Abstract

Recently, Automotive manufacturing technology such as fuel efficiency, high safty car-body, reduction of emission having been studied by automobile industry for several decades. Internationally, according to the increasing intrest of environmental issues in automotive manufacturing, automobile development with friendly relation of natural environment like fuel efficiency and reduction of emission gas having been progressed. Especially, many peoples and automobile companies have concentrated their effort on development with friendship envoirment vehicles.(like hybrid car, fuel-cell , and so on) Improvement of fuel efficiency is possible to achieve a higher engine-power, a lower air-resistance rate by redesigning of car-body shape, a lighter-weight of carbody through the material development .

Paticularly, lightweight of car-body through the material development is the most successful way of obtaining a high fuel efficiency. Even also, we must consider another important factor of manufacturing a high fuel efficiency car. That is the safty of passenger which never be ignored for making a light weight car. Thus, technology –developments of obtaining of safty and lightweight of carbody having been progressed for solving two trouble things of manufacturing automobile. In this paper, we introduce the development trends in lightweight-automotive body with mainly mentioning high intensive materal and manufacturing technology.

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