

Research And Markets: The Front-End Module Now Means Carmakers Are Able To Reduce The Number Of Operations On Their Assembly Lines

Research and Markets (researchandmarkets.com/reports/c11296) has announced the addition of Front-End Modules - Technology, Trends, Companies And Forecasts To 2010 to their offering.

([PRWEB](http://www.prweb.com)) December 21, 2004 -- Research and Markets (<http://www.researchandmarkets.com/reports/c11296>) has announced the addition of Front-End Modules - Technology, Trends, Companies And Forecasts To 2010 to their offering.

This is the replacement to the popular 2002 edition bumpers report. Completely re-written, expanded and improved, this new 2nd edition now stands at over 42 pages long: representing incredible value for your budget.

This is an Extract from the report:

What is a front-end module? It depends who makes it and for whom it is made. According to Faurecia, a complete front-end comprises the carrier, shock absorbers, bumpers, cooling fan system, water & engine oil cooling radiators, condenser for the air conditioning system, wiring harness, headlights and various sensors, including the crash sensor which controls the airbag in the event of an impact.

Denso's front-end modules integrate the radiator, condenser, electric fan, engine inter-cooler and front frame carrier. The world's fourth largest supplier worked with Daihatsu to develop a light, high-performance, front-end module that is 30% lighter than the conventional component structure for the latter's light sports Copen model. The front-end module contains the carrier, radiator, electric fan and condenser for the car's air conditioner, intercooler and air cleaner. Following delivery, Daihatsu installs the bumper and headlights on the Denso-manufactured front-end module. The carrier is made of a light, cost-efficient polypropylene material reinforced with long-fibre glass, which reduces weight and cost. The resin material used to build the carrier is also recyclable.

Plastic Omnium has developed two highly novel front fender and front-end module concepts that offer assembly advantages and the potential to incorporate advanced pedestrian head and leg impact protection systems. The concepts are pre-assembled on a carrier integrating headlamp, wheel arch, air guide, acoustic damping, water tanks and additional lighting such as fog or side marker lights. Apart from offering a reduction in assembly costs, the design also allows carmakers to virtually eliminate gaps where lighting systems and bumpers join. Each of the two modules comprise two integrated modules, one dedicated to the main technical functions and the other carrying parts such as bumper cover, headlamps, sensors, antennae and so forth. The sub-module is made from a new hybrid metal/plastic technology offering high stiffness and good acoustic properties.

The front-end module brings benefits to both carmakers and end consumers. Carmakers are able to reduce the number of operations on their assembly lines, simplify their supply chains, reduce modular weight and improve the ergonomic aspects of the assembly process. It can also help cut tooling costs and improve working capital. The most important potential benefit of modular construction is standardisation, allowing suppliers to offer standard solutions to different manufacturers and hence bring costs down.

Report coverage:

In this second edition reviewing the key market for front-end modules, we broaden the 1st edition analysis from bumpers, thereby extending the market and supplier coverage. Chapter two identifies the main players in the front-end module and bumper market, and their market shares in Europe, North America and South Korea. Our market volume and value forecasts in this study extend to 2008, determining the position in the three largest markets for front-end modules. Chapter three provides profiles of the major bumper and front-end module manufacturers, namely, Calsonic Kansei, Dynamit Nobel, Faurecia, Decoma, Denso, Plastic Omnium, Valeo, Venture Industries and Visteon.

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For more information visit <http://www.researchandmarkets.com/reports/c11296>

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