# Streamlining of Logistics

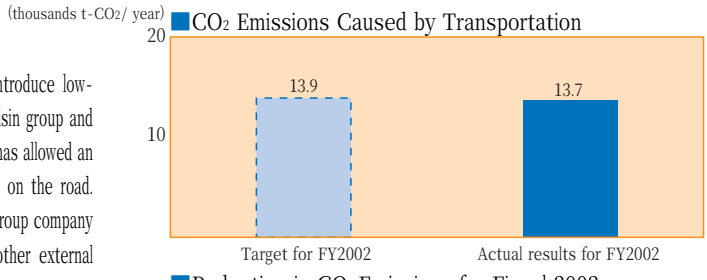
Aisin has been operating environmentally friendly logistics activities in relation to the distribution of its products and parts for several years. One of these activities is the promotion of energy-saving and air-pollution prevention measures through improving the efficiency of its transportation. Another activity is in the area of reducing the amount of packaging materials that are eventually emitted as waste.

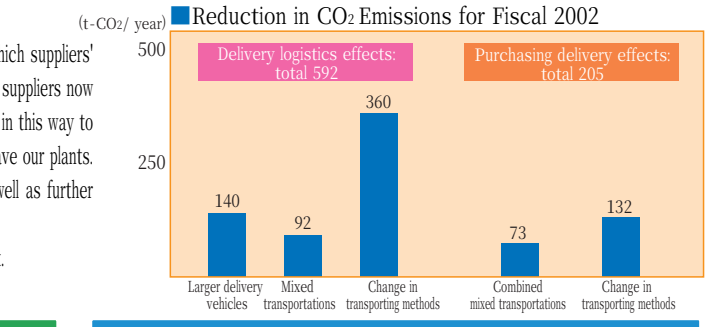
## Improving Transportation Efficiency

Aisin has been able to increase the size of its transportation vehicles and introduce low-floored body vehicles through devising joint transportation systems within the Aisin group and by mixing inter-plant shipments with shipments of deliveries to customers. This has allowed an increased load efficiency, and a reduction in the number of vehicles being put on the road. During FY2002, we also introduced a new rail-based delivery service between a group company in Toyama and a partner in Fukuoka, which takes delivery of bumpers and other external finished parts (diagram below).

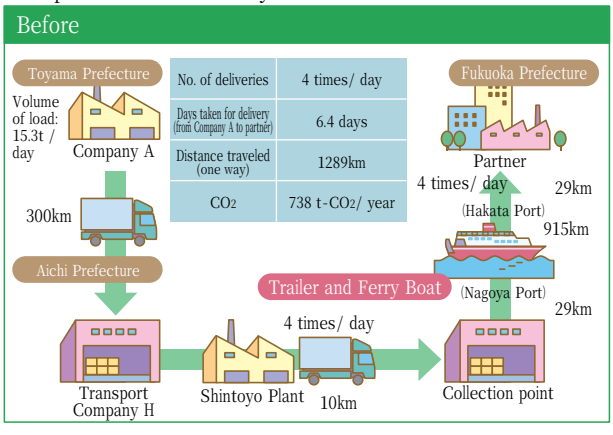
Procurement logistics, too, has benefited from the use of collection points, at which suppliers' deliveries are collected and then shipped together to our plants. Some 87 of our suppliers now participate in this system, and we have increased the volume of supplies handled in this way to 200m$^3$ per day, while significantly reducing the number of trucks that enter and leave our plants. We are preparing for even further expansion of this system during FY2003, as well as further refinements.

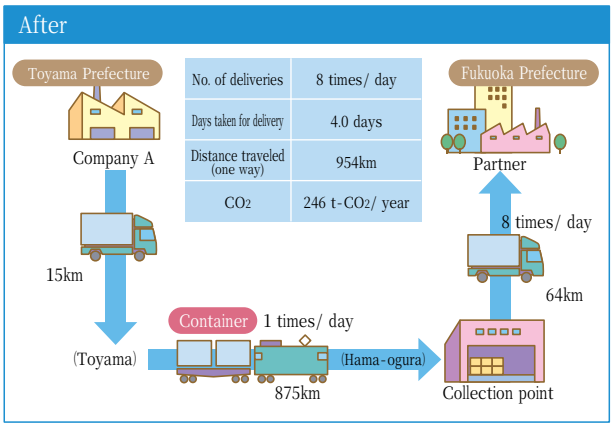
The reductions in the amount of $CO_2$ emitted during FY2002 are as shown at right.




### Improvement Case Study




## Improving packaging

We have always worked to optimize the packaging we use to send shipments to our overseas production facilities. During FY2002 we placed particular emphasis on improving the container volume efficiency of our packaging. We focused on possible to eliminating the use of molded resin trays, which take up a lot of space, and examined many ways of packaging products so as to prevent damage during shipping. As a result of various trials, we arrived at a proposal for "skewer" type packaging, which utilizes the holes in the product, and succeeded in eliminating the use of resin trays, and reducing the size of packaging boxes (photographs).

Before — Resin trays used

Amount Reduced

Cardboard boxes: 5.6t / year

Resin: 16.8t / year

After — "Skewer" type packaging