



# Distribution & Environmental Protection

## Employing original technologies and devices to reduce the environmental burden imposed by distribution activities.

The distribution activities linking production with consumers offer opportunities for environmental improvement. Fujitsu Logistics, which handles the distribution of products, parts, materials and recycled items for the Fujitsu Group, endeavors to reduce the environmental burden of the distribution process as a whole — from packaging design to product storage and transportation. We will continue to develop and implement a variety of measures in this area.

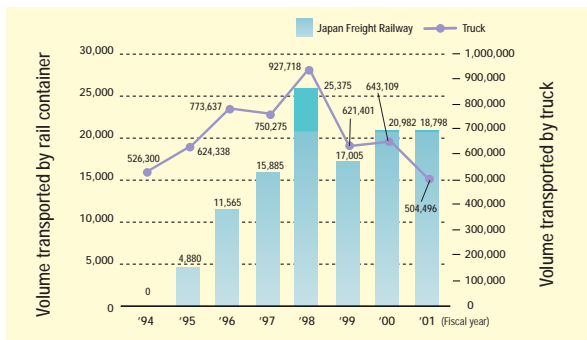
### Principal Environmental Measures and Progress Status

#### Promotion of Modal Shift\*1

To reduce emissions of CO<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub> in its transportation processes, Fujitsu Logistics has been shifting freight loads from road transportation alone to combined road/rail transportation since fiscal 1995.

Transportation Volumes by Distribution Mode

(Unit: tons)

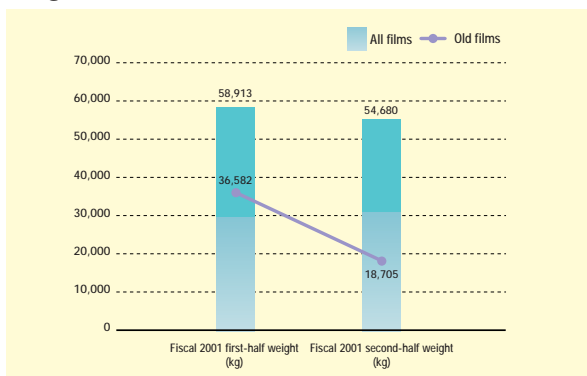


#### Reduction in Use of Stretch Film

As part of its EMS-related activities, the Tokyo Distribution Center of Fujitsu Logistics is working to reduce the amounts of stretch film used to prevent damage to loads during transit. The heavy-duty film used previously has been replaced with a lighter, thinner film since the second half of fiscal 2001. The use of special band- or belt-type tools for deliveries between certain locations has also dramatically reduced purchasing of new film (Converted to amounts).

Changes in the Volume of Old Stretch Films Purchased

(Unit: kg)



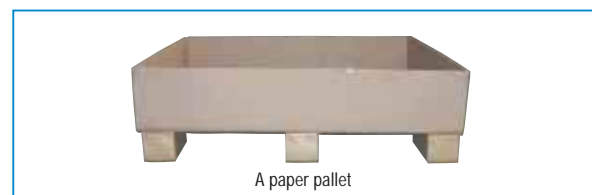
### New Distribution-related Initiatives

#### Reduced Use of Wood through Introduction of Paper Pallets

To protect our forests and eliminate the need for wood sterilization (by fumigation), Fujitsu Logistics is replacing the wooden packing cases used for exports of HDDs and PCs with pallets made from recyclable paper.

#### Features

- Use of newly developed pallet material (recyclable, waterproof reinforced cardboard)
- Used paper employed for majority (53.4%) of the cardboard raw materials
- Fumigation unnecessary (responding to more stringent European quarantine regulations for wooden packaging)
- Reduction of pallet weight (by 11~12 kg compared with wooden pallets)



#### Development of Fall Testing Simulation Technology

Because they are easy to recycle and impose a lower environmental burden, we are applying paper-based shock-absorption materials more extensively as shipping packaging for mobile PCs. As a part of these activities, we established a highly accurate packaging structure simulation technology for cardboard boxes with a margin of error of only 10% compared with the results of actual fall tests. These results made it possible to secure the shock-absorption performance of paper-based shock-absorption materials and design structures. The technology is enabling us to find many more applications for the materials.

