



# Aluminum-Alloy Maintenance Trolleys for the Super-Long Bridge\*



Shin-ichi Endo



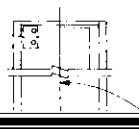
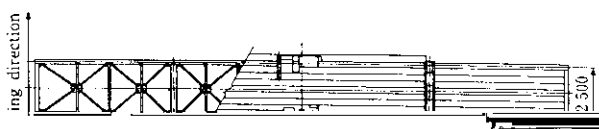
Atsushi Ohno

## Synopsis:

*The design of the aluminum-alloy-made maintenance trollies, which was to be equipped to the Bannosu-Bridge as a part of the Kojima-Sakaide route linking Honshu and Shikoku Island of Japan, was started taking into consideration the characteristics of the aluminum-alloy materials such as the galvanic corrosion problem between different*

General Manager

Senior Researcher



of these trolleys are given below.

Travelling: 2 to 10 m/min variable; 1.5 kW squirrel-cage motor (with brakes)

Slowing: 0.5 rpm; 1.5 kW squirrel cage motor (with

the following countermeasures were incorporated in the design of the maintenance trolleys:

(1) For bolts in the aluminum-alloy portion, stainless steel (AISI 316) was used as a rule, and where