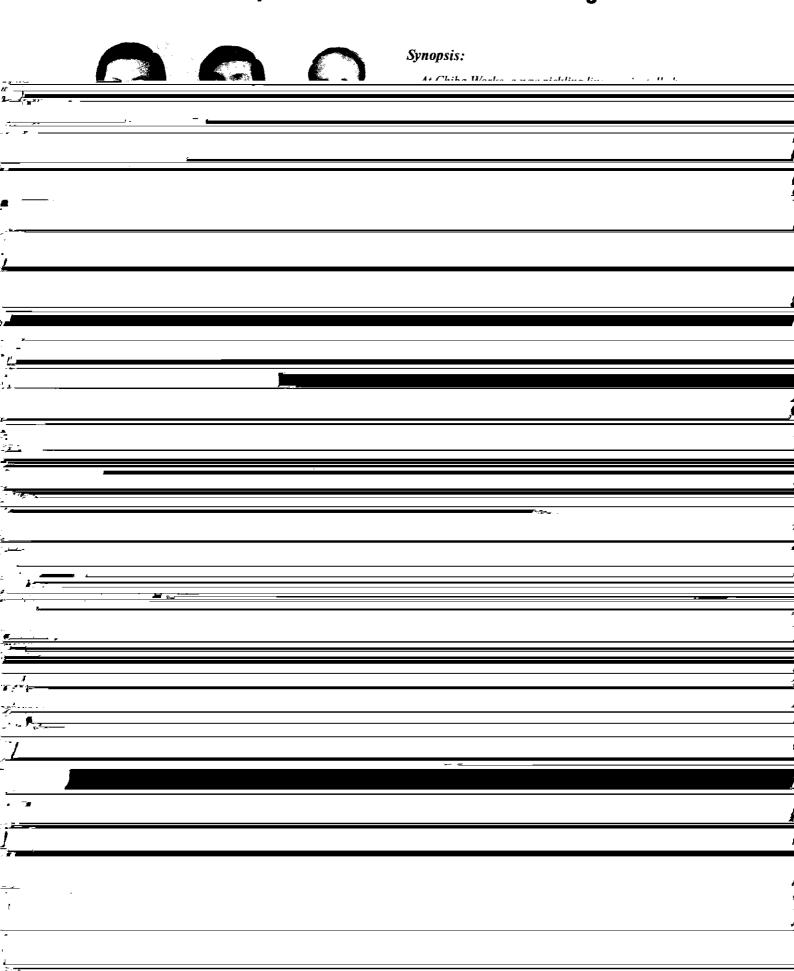
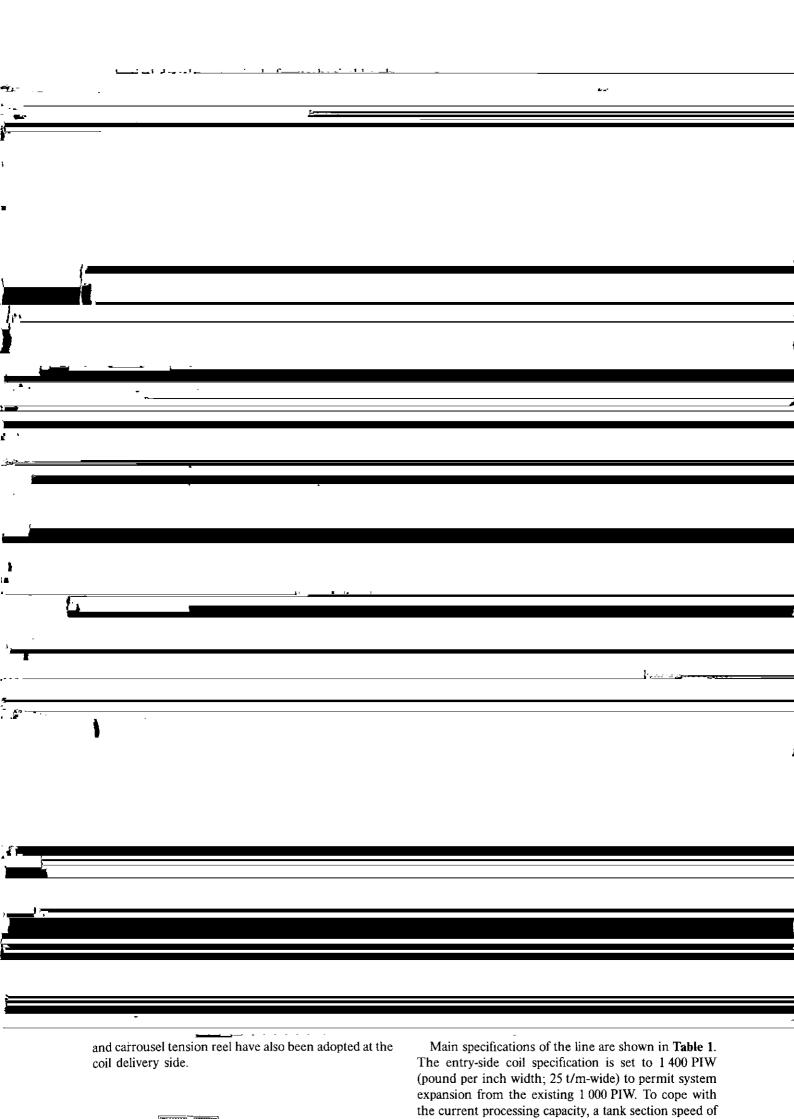
Haruyuki Nada, Hideaki Katagiri

Automatic Operations of Continuous Pickling Line*



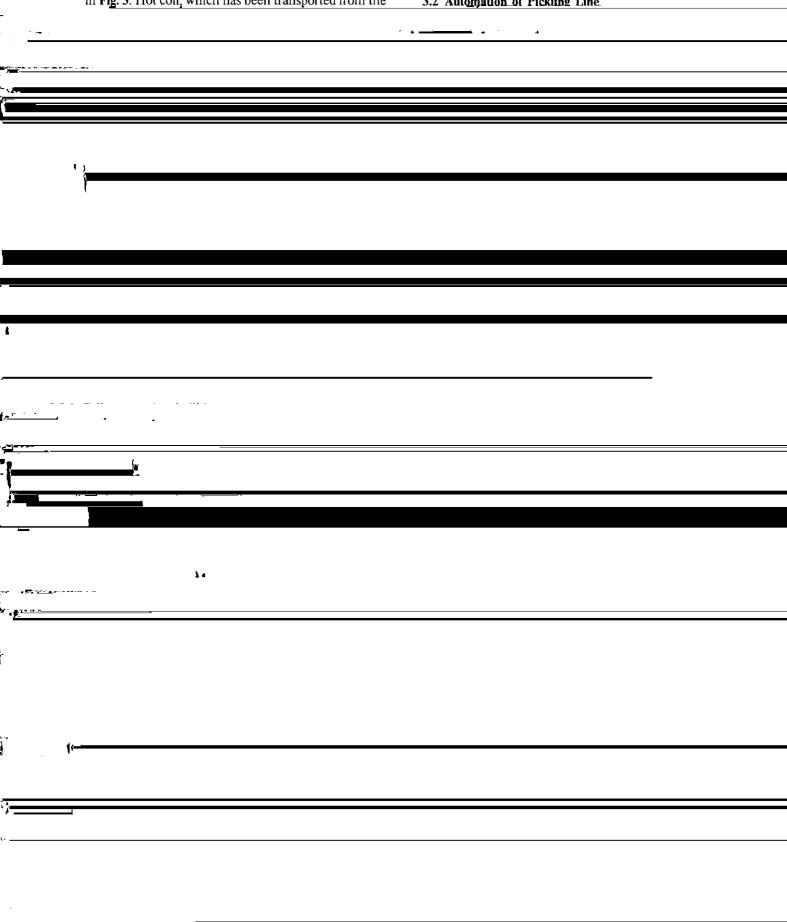


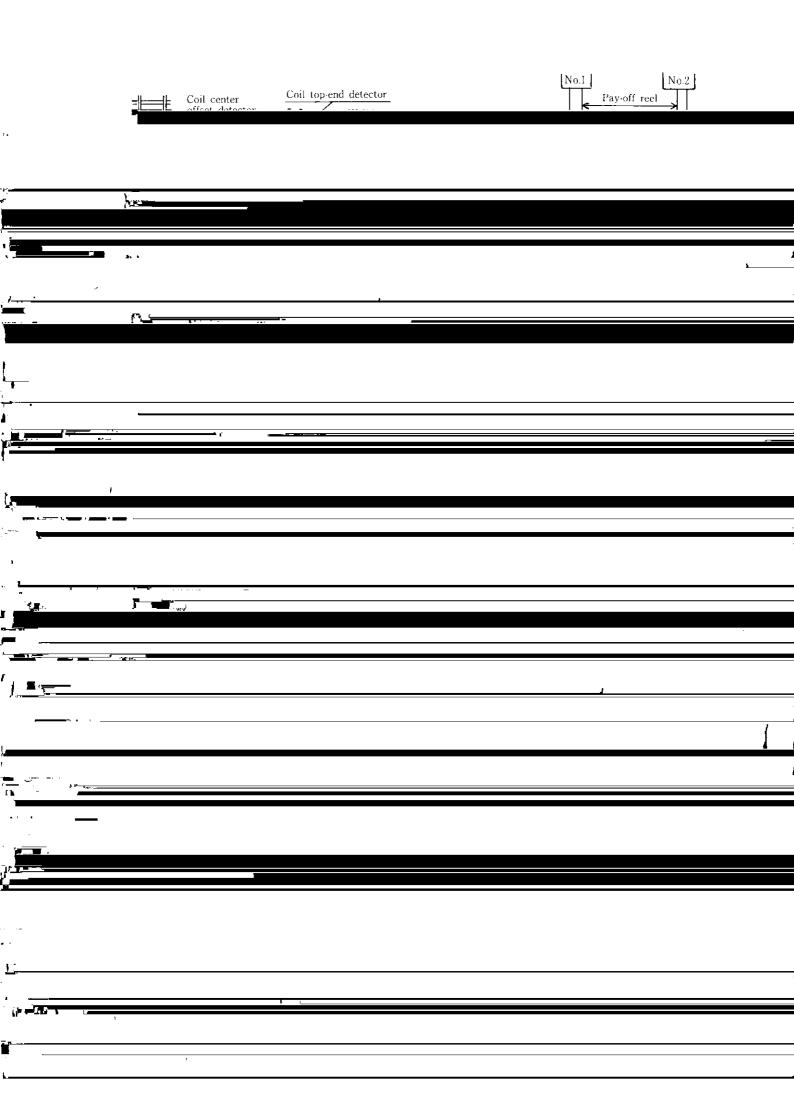
3 Features of Automated Facilities

- 3.1 Automation of Coil Handling
 - 3.1.1 Coil handling

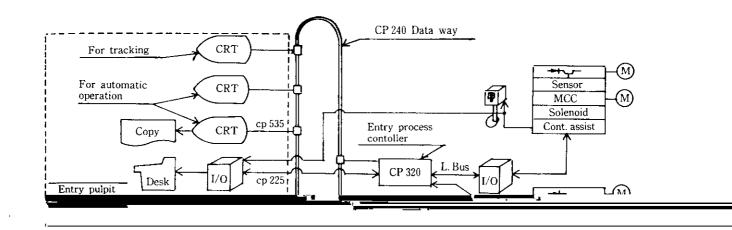
A schematic diagram of coil handling flow is shown in Fig. 3. Hot coil, which has been transported from the 1. Operating instructions for coil handling are given in a unified manner by information from the production control computer. In the control pulpit, only a single operator using graphic display devices is required to monitor the automated operation system.

3.2 Automation of Pickling Line





been fully automated. M-380S Center computer Production control 3.3 Fully-Automated Operation System 3.3.1 Computer network H-80M Pickling line ب المساد المساد المسادي مورد المساد المساد المساد المساد المساد المساد المساد المساد المساد المسادي ا



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