

Start-up of Integrated Production System and Processing Equipment for Range of Products

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1. Introduction

In order to quickly produce various types of high-quality products such as power supplies for switchboards, or large- and mid-scale uninterruptible power supplies and generator controller boards in small quantities at low cost, we attempted to systematize production by using delivery-by-tray (preparation of parts) to the assembly line depending on the product type. We improved the layout, manufacturing of jigs and mechanization of equipment.

This paper describes the results.

2. Objectives of Investigation

3. Delivery-by-tray System

4. Continuous Production Line for Small Product Quantity

4.1 Outline

4.2 Features

5. L-shaped Line for Producing Medium Quantities of Products

5.1 Outline

5.2 Features

6. Start-up of Processing Equipment

6.1 Background of Developing Terminal Processing Machine

6.2 Manufacturing Arbor Press Type Cutting Machine

6.3 Manufacturing Semi-automatic Stripping Machine

6.4 Jig for Fixing Solderless Terminals

6.5 Manufacturing Jig for Holding Electric Wire and Inserting Tube

6.6 Terminal Processing Line

7. Results

8. Conclusion

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