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A Study on the Mechanization of an Assembly Process of an Electrical Condenser Production

Kazuo YANAGIHARA*

In recent years the mechanization of an assembly process has become to be an important tool in the efforts to reduce production costs. As wages continue to show an increasing trend, more hand labor are being replaced by machines.

This thesis is a study on the mechanization of a part of an assembly process of an electrical condenser production. Stress is laid on the pattern of cost saving that can be made by such a mechanization efforts.

This study was conducted in an electrical parts manufactures in Shizuoka-ken. The production department of this company was concerned with the high cost for its electrical condenser assembly process which was done mostly by hand labor work.

The author designed the machine that automatically assembles the parts and made a study of the cost saving that can be made by the use of this machine. By the use of this machine the units labor cost of the condenser can be reduced by ¥ 240 at its present production volume of 118,000 units a month, a saving of ¥ 262,850 a month in total for the company.

The cost-volume curve is drawn for both the present hand work process and for the mechanized process from which the minimum cost curve was obtained. By utilizing the mechanized process a 40 % reduction of labor cost can be made at the out-put rate of 100,000 units a month.

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