

Use of Automatic Loom Controllers in Weaving Industry

Challenges

- Reduce Wastages
- Production of Fine Fabrics with minute texture
- To Achieve Zero defects in the fabrics
- Elimination of cramming during production



Overview

In General the circular Loom is an important machine in Weaving, plastic and Textile industry. The quality and quantity of the final product largely depends on these machines, hence it becomes absolutely necessary to monitor and control certain parameters around the clock. Our Loom controller just serves this purpose. The Loom controller monitors some parameters of the Loom and controls the mesh size of the final product. The mesh control is so precise that even during weft breakage cramming is totally avoided, resulting in zero defect fabric. The loom controller uses proportionate driving during weft breakage. Separate loom monitor can be fitted on the loom along with loom controller to monitor all other parameter like production, number of weft breakages, number of warp breakages, weft delay, warp delay, efficiency etc.

The circular loom is used for weaving Sacks for packaging different items such as cement, pesticides, vegetables, etc. The Loom controller designed by AEM controls the weaving process such that there is no defect in the fabric. In addition, it facilitates programming of the density of the tape used in weaving the sack to cater for different types of packaging requirements.

Solution

- Closed loop system for the haul-off motor.
- Programmable weft density and cramming.
- Sense weft/warp breaks so as to produce defect free fabric.
- Real time clock.
- Record production statistic

ROI

Elimination of Cramming resulted in higher output productions

Production of zero defect materials resulted in a higher acceptance rate

Reduced wastages during production

About Manvish

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For Further Information Please Contact

Manvish eTech Pvt Ltd
Email: info@manvish.com
www.manvish.com