About Client

The client is an integrated manufacturer and leading distributor of disposable range of plastic products, paper products, aluminum products, pulp products and bamboo food packaging products since 2005 in the United Arab Emirates. The client has local as well as international customer base. The major products range includes cups, plates, bowls, containers, lids, trays, cling films, aluminum products, paper products, cutlery and many more caterings as well as hotel products.
Analysis

Faber Infinite identified significant improvement opportunities, listed as below

- Non-standardized output per product and per shift
- AED per person for printing products was too low
- Average 11 breakdowns and stoppages per month
- 13 non-value adding activities identified
- Idle time of workers in the section was too high

Approach

- Study and analysis of printing products and their orders
- Time and motion study for runner products
- ECRS (Eliminate, Combine, Rearrange, Simplify) activity with team
- Design of low-cost automation with maintenance and production team (reducing breakdowns and stoppages)

Objectives

To standardize the output per shift

To achieve manpower optimization

To reduce the number of breakdowns

To reduce non-value adding activities
Project Implementation

Time and motion study

Time taken by each operator for every activity in the section was established using stop watch. Sequence of activities performed by them were reorganized for higher efficiencies.

**ECRS carried out for activities**

Elimination, combination, reduction and simplification (ECRS) methodology was rolled out for the activities performed by the operators. It helped in optimizing manpower required to carry out the revised sequence of activities.

**Low cost automation for improved material flow**

Photo-sensors and counters for counting as per product packaging, PLC (Programmable Logic Controller) system to control conveyor and mechanical cushion was designed. Operator’s seat was re-designed for seating and storage of sleeves. Extension of conveyor was carried out to achieve synchronization between printing and packing of products.

Results Delivered

Standards established for printing products

Product-wise output per shift improved and established

Productivity improved by 50%

Delivered cost savings to the tune of ~AED 200,000 per annum

Sustenance

Implemented results shall be sustained over a period using Systematic Audit & Improvement Loop (SAIL) & Daily Work Management (DWM)

Visit Faber at www.faberinfinite.com for more information and a complete list of regional contacts or send us e-mail: consulting@faberinfinite.com