

# Sigma III foil sealing machine

## Vijay Bapat

'Sigma III Touch Cap Seal' is a Pacmachine Award (2012) winning project where the challenge was to redesign the form of the new generation foil sealers launched by Electronic devices ,Mumbai The old sealing machine form, was susceptible to be misused for keeping sundry things, making it prone for accidents. The sloping forward sealers body improved the aesthetic appeal by making it to look dynamic. The whole assembled machine was packed in wooden crates, resulting in into expensive packaging for export to

other countries. A modular design approach was taken to shift to paper corrugated box packaging. Due to this design approach, we could achieve a substantial weight reduction from 140Kg to 80 kg and freight costs reduced to \$300 from \$1250, as the packing and transportation have become simple. Showing how form can improve function and reduce costs, Sigma III has been appreciated even at International design platforms like IF exhibition.



# Forklift Truck for Voltas India Ltd

## Vijay Bapat

Forklift truck division of Voltas was losing its leadership position in Diesel fork-lift market, due to heavy competition from Korean and Japanese fork-lift trucks. The challenge was to achieve an international aesthetic look without changing the internal components. The major design contribution is a footboard visible from the top level that improves operator's comfort in climbing down. The Red model shows the design improvements with half a ton weight saving, achieved due to a 150 mm lower west-line. With

improved fuel efficiency and increased speed company could position the product as a premier truck. The improved aesthetics and user comfort without changing the basic chassis, helped the company in recapturing local as well as foreign markets. This design is going strongly in the market, even today.

