

# Consumer Packaged Goods (CPG) Engineering and Industrial Services



While the world market is growing at a rapid pace for Consumer Packaged Goods industry, company such as yours need to focus on bringing product innovation, improving through-put of plant, maximizing asset utilization and optimizing manufacturing processes to sustain and grow in global market. We at Tata Consultancy Services (TCS), with our extensive process knowledge expertise, bring you integrated solutions for CPG industry.

## Overview

The CPG industry is extremely sensitive to consumer demands and word-of-mouth reputation. These industries operate in a business environment, which is highly dynamic.

Major challenges faced by CPG industry are

- Need to comply with health and environmental regulations
- Respond quickly to changing consumer demands
- Accelerate new product introduction
- Reduce product development costs

Companies in CPG industry segment need to innovate in various aspects of the processing cycle, ranging from the use of materials to operating processes, to reduce production costs. Our solutions for the CPG Industry help you address these challenges.

## Why TCS

We ensure engineering excellence while minimizing product development and production cost. Our skilled experts, with their rich domain experience help you respond pro-actively to market-demands and bring in quick-to-market changes. We add value to an engagement through our

- **Domain Experience:** Engineering expertise and rich domain experience for various CPG industrial segments
- **Global Network Delivery Model™:** Our global presence ensures efficient delivery across continents, while our Global Network Delivery Model™ gives you cost, quality and capacity advantages
- **Technology Experience:** Our experience in multiple technology platforms for product and process engineering, plant simulation and automation and supervisory systems (Design tools, PLM, ERP, MES, PLC / DCS, SCADA, Embedded, GIS, Asset Management, Technical Publications, etc.)

## Our Offerings

### Engineering for Business Transformation

#### Product Portfolio Management

- Consumable product adaptation and localisation
- Integrated PLM solution for global engineering
  - Multi-site collaboration
  - Engineering Change Management (ECM)

### Engineering Operational Excellence

#### Plant design

- Mechanical, Electrical, Control & Instrumentation
- Piping, P&ID

#### Manufacturing

- Digital Manufacturing (Virtual factory simulation & Machining)
- Sourcing services (Supplier qualification & sourcing) for plant machineries and accessories

#### Operation

- Industrial automation
- Manufacturing Execution System (MES)
- Process optimisation
- Plant performance monitoring & analysis (Plant intelligence)
- Integrated asset & maintenance management
  - Plant machineries
  - In-store / ware house equipment
- Enabled services for logistics
  - GIS solutions for goods tracking & asset management
  - Location based services (Location assessment, location intelligence, transport logistics)

### Engineering for Product Development & Sustenance

#### Design Engineering (system, sub-system, end product)

- New Product Development (NPD): Regulatory, reliability, should costing, Value Analysis (VA) / Value Engineering (VE)
- Machinery & accessories (for production plant)
- Parts illustration and Technical Publication (TP)

## How we help our customers

### Throughput improvement of packaging machinery

Customer is one of the leading manufactures and exporter of packaging machinery in India. It had filling and sealing machines for preformed packets. These machines were operated manually. This process was reducing the through-put of the plant and also needed additional manpower to operate multiple machines. The customer wanted to integrate and automate both filling and sealing process to increase the productivity and to reduce the handling by human to avoid contamination. TCS studied the new requirement and logically divided the machine into modular construction. Different concepts were developed for each module and the concepts were evaluated using decision matrix method. The filling and sealing machine is designed, with multiple indexing station and recommended automation, to deliver 60 packets (100gm) per minute and 25Packets (1000gm) per minute. The new design also accommodates wide range of pouch sizes (100mm to 330 mm wide) in the same machine with single point adjustment. The detailed design is created with the help of CAD software within short span of time and released for manufacturing. The new machine increased the productivity by 100% and reduced the manpower from 3 to 1.

### Enterprise asset management implementation for a Paper Manufacturer

Customer is one of the largest paper manufacturers of the world. It was facing the challenge to eliminate process waste, reduce total cost of maintenance and improve the reliability of equipment. There were no standardized processes existing across plant for Enterprise Asset Management (EAM) –asset creation. Detailed study of processes was done by domain experts and then EAM solution was implemented across the plant. TCS solution improved maintenance planning and cycle time, enhanced operation planning and scheduling and reduced loss of production.

## About Tata Consultancy Services (TCS)

Tata Consultancy Services is an IT services, business solutions and outsourcing organization that delivers real results to global businesses, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled services delivered through its unique Global Network Delivery Model™ recognized as the benchmark of excellence in software development.

A part of the Tata Group, India's largest industrial conglomerate, TCS has over 100,000 of the world's best trained IT consultants in 50 countries. The company generated consolidated revenues of US \$5.7 billion for fiscal year ended 31 March 2008 and is listed on the National Stock Exchange and Bombay Stock Exchange in India. For more information, visit us at [www.tcs.com](http://www.tcs.com)

## Contact us

To know more about our solutions for the Consumer Packaged Goods industry, contact [corporate.engineering@tcs.com](mailto:corporate.engineering@tcs.com)

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