Service Delivery Model

BPMS: The process Management Methodology

Core Process Support Process

Measurement & Data Collection Technology

DFSS
Designing for Customer Impact

DMAIC
Continuous Improvement

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BPMS Deployment

1. Create Process Mission
2. Document Process
3. Document CTQ’s
4. ID Process Measures
5. Create PM System
6. Data Collection Plan
7. Performance Monitoring
8. Develop Dashboards
9. Improve Process

**Infrastructure**
- Laying The Foundation
- Outside In…COPIS
- Designed for Six Sigma(DFSS)
- VOC Process drives continuous Updation of CTQ’s and the process
- Is the Operating System

**Implementation**
- Ensure we can collect Data around all our measures
- Accurate and Reliable data collection

**Execution**
- Performance made visible around measures
- Operating review processes for understanding cause and effects
- CI to fix gaps
- Resourced action plans
- Roles, Responsibilities and accountability

**Aligning Process Goals with Key Customer Requirements**
Engineering Services

- Automotive
  - Powertrain
  - Chassis
  - Interiors
  - Structures
  - Closures
  - Others
  - Tool Design
  - Fixture Design
  - Rack Design
  - Tool Program
  - Manufacturing
  - Simulation
  - Industrial
  - Automation
  - Technical
  - Documentation

- Aerospace
- Consumer Goods
- Heavy Engineering

- Manufacturing Engineering
  - FE Modeling
  - Structural Analysis
  - Thermal Analysis
  - Crash Analysis
  - CFD
  - Factory Simulation
  - Robotic Simulation
  - NC Validation
  - Human/Ergo Study

- CAE & Simulation

- CAD IT Services & Manpower
  - CAD Customization
  - PLM Services
  - Data Migration
  - System Consulting
  - Data Management
  - Manpower
  - Resources
  - Corporate Training
Engineering services
(Domain Expertise)

- **Aerospace**
  We incorporate the design and analysis of an Aircraft / Spacecraft development which includes:
  - Design optimization through increased rigidity
  - Weight and Cost Reduction of different components/sub-systems.

- **Automobile**
  Our team has Automotive Product Design & Development expertise that includes:
  - Engineering Design
  - Engineering Analysis
  - Virtual Simulation
  - Digital Manufacturing
  - Product Data Management.
Engineering services
(Domain Expertise)

- **Heavy Engineering & Consumer Goods**
  Our service assistance in this upright cover:
  - Earth moving
  - Mining and Plant Equipments
  - Household and commercial appliances such as washing machines, refrigerators, dryers and cooking ranges
Product Design

Our Product Design capabilities have been proven many times over. Using the concepts of industrial design as inputs for product design and detailed design, this phase includes:

- Part Design
- Surface Design and the complete assembly of the product. This includes 3D Modeling and Surface Modeling.

**Design services offered**

- Concept design, Detailing & Drafting
- 2D / 3D Modeling
- Legacy Data and Drawings Conversion Reverse Engineering
- Platform Migration
- Customization of commercial CAD/CAM software's to suit the local requirements
- Manufacturing simulation & optimization
- Rapid prototyping
Manufacturing Engineering

Our Manufacturing Engineering practice provides world-class services across the entire spectrum of tool design, jigs and fixture design, tool and component manufacturing support and prototyping. From process sheets modeling to product cataloging, pre and post production to manufacturing process simulation, Consistent had experienced it all.

Our key capabilities include:

- Process Sheet creation
- Digital Realization of Assembly Plants
- Container Design
- Assembly Plant Machinery Installation Diagram
- Product Catalogues
- PFMEA, Control Plan, Product Part Approval Process (PPAP) facilitation
- GD&T, CMM drawings
- Pre-production / Production
  - Designing of Casting and Sheet Metal Dies
  - Mold design and Mold flow analysis
  - Fixtures Design: Welding, Machining, Testing and Checking
Digital Manufacturing

- We use high-end simulation tools to analyze flow characteristics and structural characteristics for accurate tool design and optimization.

- We use these for new designs, trouble shooting and yield improvement for existing designs.

**Our key capabilities include:**
- Production operations and machining process
- Assembly definition and sequencing
- Detailed line, cell, station, and task design
- Simulation and analysis of shop-floor activities, facilities, resources and capabilities
- Robotics and machine simulation
- Ergonomics
Computer Aided Design (CAD)

- **CAD** - a major practice of Consistent provides its clients a suite of design services to improve their products, processes and profitability.

- Highly skilled technical consultants, with diverse industry experience and years of domain functional knowledge, form the rich resource at Consistent.
CAD Expertise

Our expertise:
- Concept Design
- Part Design
- Surface modeling
- Re-Engineering
- Reverse Engineering
- Engineering Changes
- 2D/3D Modeling
- Layout drawings
- CAD customization
- Knowledge based design

Domain areas:
- Seating System
- Engine System
- Braking System
- Power Train
- BIW
- Interiors

Software skills:
- CATIA V4 & V5
- UNIGRAPHICS
- I-DEAS
- PRO/Engineer
- Autodesk inventor
- Solid Works
- Solid Edge
- AutoCAD
Computer Aided Engineering (CAE)

- Consistent offers a complete range of analysis and simulation solutions in vehicle development to optimize design and minimize program risk.

- Our core team at Consistent consists of leading industry professionals with vast domain expertise. We have successfully executed complex design and development projects for Indian and Overseas companies.
Jig and Fixture Design for Punching tool
Consumer Product Development LM Tool
Fretting Fatigue Stress Simulation
Dynamic Braking Grid Vibration Testing
Legacy conversion of Steel Structure
Detailing of Machine Components
Data Security

- Non-Disclosure Agreement will be signed.
- Secure Data Transfer through FTP. We provide the FTP server access (Login Id and Password)
- Documents shredded once used.
- Storage devices are not allowed in the office premises.
- All the data stored in a secure centralized server.
- Stringent physical security measures to prevent leakage of financial/design data.
Thank You!

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