Mechanical Design
Sheet Metal Design  Industrial Equipment/Product Design
Engineering Design Automation
Reverse Engineering & Rapid Prototyping
CAE - CFD & FEA  Manufacturing Support
Value Engineering
Customer delight is our business

ISO 9001:2008 QMS certified
ISO 27001:2005 ISMS certified
ISO 22301:2012 BCMS certified

Ranked as one of the Top BPO companies in India, by Dun and Bradstreet for four years

Niryat Shiromani Puraskar by Indian Council of Small and Medium Exporters
Who we are

We deliver a broad range of industrial / engineering design solutions, creating value for businesses across the globe since 1992. We provide CAD / Engineering design, drafting & modeling solutions to multiple industries including heavy engineering, oil & gas, energy / power sector, automotive, aerospace, construction, etc. Our headquarters is based in Ahmedabad, in western part of India which is a thriving hub of businesses.

We have 800+ professionals with expertise in their respective domains; state-of-the-art infrastructure and flexibility to scale up to almost double its capacity at a short notice.

Mechanical and Industrial CAD Design:

Our Engineering Design division delivers simple to complex mechanical & electrical design with ease with superior computer aided design capabilities. Our multifaceted team of mechanical & electrical engineers is well-versed with international mechanical design standards along with drafting, detailing & modeling related software applications. We optimize the level of mechanical designs, detailing, coordination, visualization and also provides extensive CAE analysis services.

Indian Exporter’s Excellence Award

Over 3,100+ clients across the globe 800+ employees

Office area of 65,000 sq. feet 24/6 Operations & Support

ISO 9001: 2008 Certified Company High performance rating by CRISIL

SINCE 1992 20+ years of experience
Mechanical Design

We provide mechanical engineering design solutions for a wide range of simple to high-end mechanical designs per customer’s needs. Our proficient mechanical engineering drafters, modelers and designers enable you to design effective & efficient machines, tools, components, equipments, plants, etc. by combining our innovative thinking and solid engineering experience.

- Mechanical Design & Drafting
- Product Design Development
- Machine & Tool Design
- Pressure Vessel Design
- Rapid Prototyping Solutions
- Reverse Engineering
- CAE Solutions: CFD & FEA
Mechanical Design / CAD Support

We provide efficient mechanical support with a highly competent staff of highly skilled, competent and motivated field machinists and heat treatment technicians. Whether your machining and heat treating requirements are simple or extremely technical and precise in nature; our proven track record in specialty machining and various applications of heat treating allows us to recognize problems, and implement solutions before they materialize.

- **CAD Conversion & 2D Drafting**
  - Paper to CAD, 2D to 3D, 2D Drafting for manufacturing drawings, assembly drawings and fabrication drawings with BOM

- **Sheet Metal Design**
  - Solid part to sheet metal, SolidWorks 3D modeling for sheet metal with edges, miter, bends, flanges, rib, gusset, collars and more for DFM requirements

- **Industrial Equipment/Product Design**
  - Pressure Vessel / Storage Tank, Valves & Fittings, Pumps, Compressors, Turbines, Heat Exchangers, Blowers & Dryers, Mixers & Separators, Industrial Boilers, Furnaces and Burners)

- **Engineering Design Automation**
  - 3D Model & Assembly Creation, Auto generation of 3D models, drawings and documents for engineering-to-order products

- **Technical Documentation**
  - Product Catalogues, Technical Manuals, QC / Testing Procedures, SOPs, etc.

- **Mechanical Animation**
  - Walkthroughs & Animation

- **Manufacturing Support**
  - Prototype Design, Vendor Selection & Quality Control
CAE Solutions

We provide efficient CAE design analysis & optimization solutions by simulation & modeling.

Our CFD & FEA consultants are qualified & highly experienced to help you resolve simple to complex structural and fluid dynamics problems for different industries at ease.

**Computational Fluid Dynamics - CFD**
- Aerodynamics Analysis
- Combustion Analysis
- Multiphase Flow Analysis
- Heat Transfer Analysis
- Turbomachinery Analysis

**Finite Element Analysis - FEA**
- Static Analysis
- Vibration Analysis
- Thermal Analysis
- Coupled Field Analysis
- Fatigue Analysis
Reverse Engineering & Rapid Prototyping

We make reverse engineering and rapid prototyping easy for our clients.

**Reverse Engineering:** We are capable of reverse engineering virtually any object including power generation turbine blades, medical devices, stamping dies, casting patterns, mechanical devices, and consumer electronics.

- Dimension Measurement & Surface Analysis
- 3D Laser Scanning & Digital Modeling
- Product Redesigning & DFM Analysis

**Rapid Prototyping:** We adopt rapid prototyping approach by using the latest technologies and most advanced materials to achieve your mechanical prototyping goals.

- Selective Laser Sintering
- Polyjet 3D Printing
- Stereolithography Prototype
Industries We Serve

- Aviation
- Automotive OEM & Auto Ancillaries
- Building Design & Construction
- Building Products & Components Design
  - Furniture Product Design
  - Architectural & Structural Sheet Metal Design
  - Façade Engineering Design
  - HVAC Equipment Design
- Infrastructure Design
- Plant Design Engineering
  - Process Engineering Design
  - Piping Engineering Design
  - Mechanical Engineering Design
  - Civil / Structural Engineering
- Fabricated Metal & Alloy Product Design
- Heavy Engineering / Machinery Design
- Medical Devices
Software Expertise

We deploy latest engineering software and technologies to translate the value of project information into an accurate design output. Our in-house experts are well versed across a wide range of softwares, enabling efficiencies in design, coordination & visualization, analysis and detailing.

List of softwares will be provided separately and graphics for the same we have to take it from internet.

We Keepup with dynamic technology developments
Infrastructure

We have state-of-the-art infrastructure to provide international standards of work experience for our employees and businesses.

- Exclusive office space with built-up area of more than 65,000 Sq. ft. spread over multiple offices
- Capability to scale up to double the capacity at a short notice
- **Data security & Client confidentiality** is assured through best of the breed network security
- Thorough **Business Continuity Planning** ensures “business as usual” during exigencies
- Over 600+ work stations, 24X7 security services
Our Clients

Nabtesco  ZF  SIEMENS  GM
SAINT-GOBAIN GLASS

GroundProbe  Volkswagen  KENDRION  BOMBARDIER  <CHEVRON>

Schlumberger  MINDA  Morrison Hershfield  CAMEC  GPC

SkyVenture  ZEISS  US PIPE FABRICATION  Ernst & Young Consulting  Fearnley Procter Group

DOOR Components  NM Nomenca  Trelleborg  UBE  A.R.I.

vertical farm systems  KJW ENGINEERING (INDIA) Pvt. Ltd.  HOLBY  ANGUI

and hundreds more...