DBA
Design By Analysis

is our

DNA

Exhilaration through Discovery
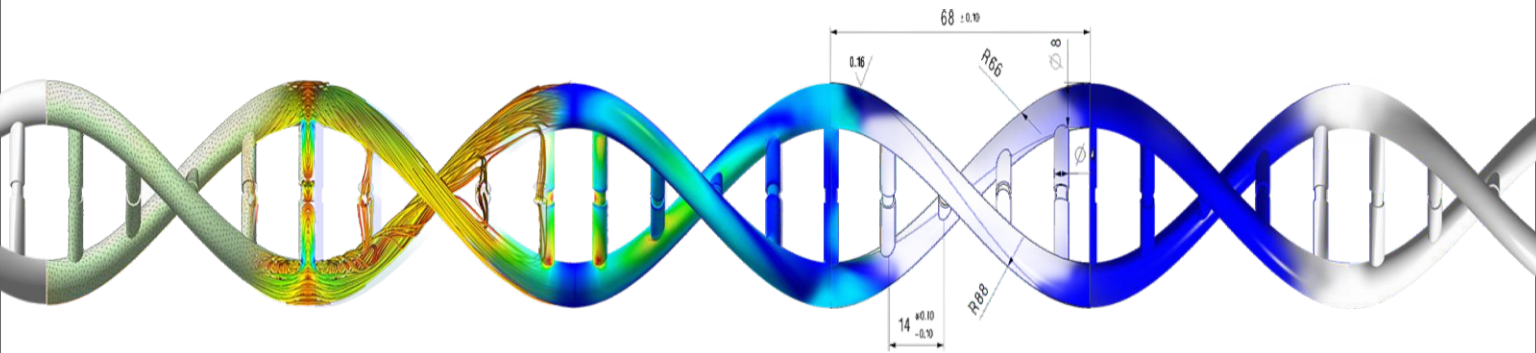
PRODUCT DEVELOPMENT
## AND MANUFACTURING

Medium, Small and Micro Scale Enterprises (MSME) are the backbone of large organizations. They always thrive for excellence to build a quality product to the global standard. Though they are domain experts, hiring and retaining Design/CAE professional is always challenge considering future growth and cost incurred. eBHARAT fits into space with young design and CAE engineers.

At the Glance

- Access to domain experts
- Expertise in Design , good understanding of manufacturing
- Software Skills : UG-NX, OnShape, Autodesk Fusion, DraftSight, ANSYS Space Claim , ANSYS Mechanical

In-house tool room for job and batch production

- Hwacheon Hi-Eco 11(CNC Turning Machine)
- BULMAK Y251 Universal Milling
- Lathe Machine
- Drilling Machine
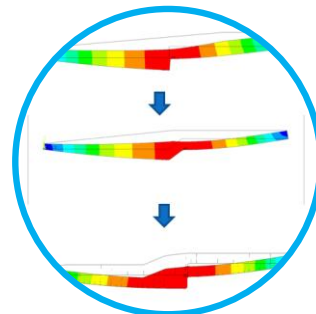- Flypress
- General Tool and measuring , inspection tools
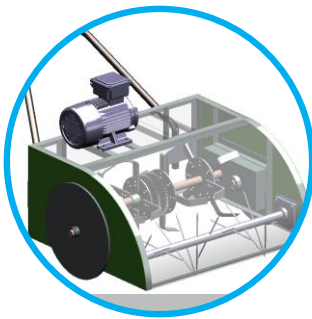
Tiller for Poultry Application
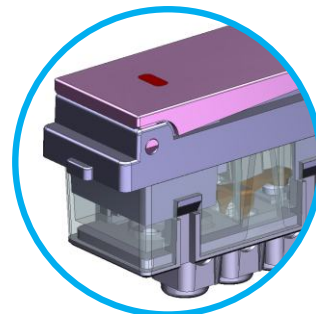
Flat Switch Mechanism
Validation

Toggle Clamp for Blind Punching
in Aluminum Tubes

Stepped Girder with
two Daylight

MECHANICAL
ENGINEERING SERVICES

eBHARAT Services offers solutions across the value chain from create to validate to build and support making it a unique one stop solutions provider for Mechanical Engineering Services. We have a proven track record of offering end-to-end Mechanical Engineering solutions for customers **Nuclear, Oil & Gas, Petrochemical and Heavy engineering** verticals helping design faster, reduce cycle times and performance improvements.

With a handful of experience in Design by Formula (DFA), acquaintance with pressure vessels codes and manufacturing knowledge, eBHARAT DNA is Design by Analysis (DBA) which we implement using ANSYS and other advance CAD tools. With ANSYS expertise and decade experience of leadership team, Team eBHARAT is always ready to more challenges.

Types of Design Analysis

- **Static Structural:** Linear & Non Linear (Material/Geometry /Status)

- **Structural Dynamics:** Modal, Harmonic, Transient, Seismic, Random Vibration, Frequency response, rotor dynamics, transient dynamics

- **Advance Analysis :** Buckling, explicit dynamics, drop , shock , blast, Coupled Field, FSI, Rigid Body Dynamics , Shape optimization

- **Fatigue :** High cycle, Low Cycle , ASME code based

- **Thermal :** Steady State, Transient, Couple Field, Thermal Electric, Thermal Structural

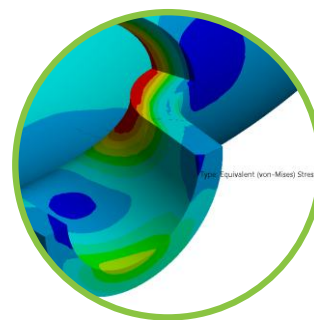- **General :** Formula Based ASME Code Design, Engineering and Drafting
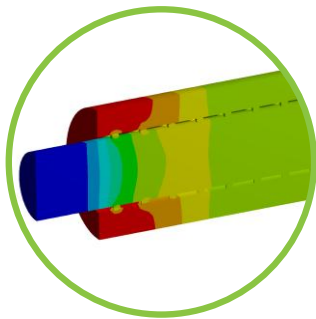
Acoustic Simulation
for Muffler
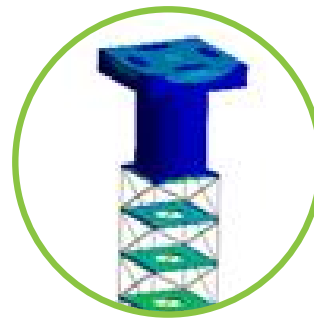
Offshore structure
simulation
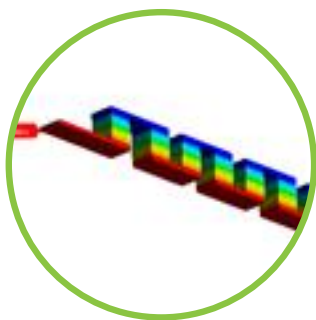
Thermo-Electrical
Simulation

EL-PL simulation as
ASME BPVC

CORPORATE TRAINING
ANSYS MECHANICAL)

With a decade of industrial experience in ANSYS, leading CAE software worldwide, eBHARAT conducts corporate training courses in ANSYS Mechanical. Also, eBHARAT is preferred corporate trainer and technical support partner for one of ANSYS national distributor.

The handful of industrial experience of 10 years, we are capable of conducting ANSYS courses combined with requirements of ASME BPVC Section VIII and Section III.

Basic

- ANSYS Mechanical Introduction (3 Days)
- ANSYS Mechanical – Introduction to APDL (2 Days)
- ANSYS Mechanical Non- Linear Material (1 Day)
- ANSYS Design Modeler (1 Day)
- ANSYS SpaceClaim (1 Day)

Advance

- ANSYS Mechanical Structural Non Linear – Introduction (2 Days)
- ANSYS Mechanical Non- Linear Connections (2 Days)
- ANSYS Mechanical Linear & Non- Linear Dynamics (2 Days)
- ANSYS Mechanical – Heat Transfer (2 Days)
- ANSYS Mechanical – Advance APDL (2 Days)
- ANSYS Mechanical Fatigue Module (1 Day)
- ANSYS Mechanical Rotodynamics (1 Day)

Customized

- ANSYS Mechanical + Introduction ASME BPVC Section VIII Div.2
- Short / customized courses on specific topics e.g. Methods for Modeling bolts

ANSYS Fast Track Course
for 20 ARDE, Pune Scientist

Certificate handover to ARDE Scientist
-ANSYS Fast Track Course

Faculty Development Program
for D.Y. Patil SOE , Ambi

ANSYS Dynamics Training
@ ANSYS Bangalore Office

eBHARAT Story

eBHARAT started in Nov 2012 to provide Mechanical Engineering Services mainly in Pressure Vessel and Nuclear Equipments Design. During 3 years of successful run, the company also worked in areas of Product Development in alliance with in MSME and Corporate Training for ANSYS Mechanical. A team of professional engineers are consistently delivering work which is recognized for value addition, improvement and First Time Right Quality. Now young eBHARAT with an average age of 24 years has established a work culture which encourages for innovation and ensures Work-Life balance.
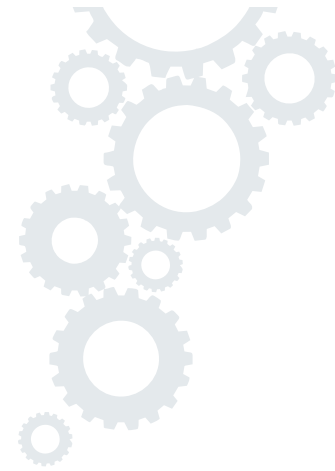
At a Glance

- Team of 10 Young Engineers
- Projects Executed: 120+ CAE, 10+ CAD, 3 CFD, 6 Product Development
- 3 MSME's Designs Patented, 2 designs in-process
- Licensed Software: ANSYS Mechanical Enterprise, ANSYS SpaceClaim, UG-NX, OnShape
- Tool Room: Bulmak y-251 Universal Milling Machine, Lathe Machine, Drilling machine, Fly press machine

Leadership Team

Shankar **Sandeep**

- Shankar Jagdale: Shankar, Post Graduate in Mechanical Engineer, is an ANSYS Mechanical Expert with 12 years of experience in Design and CAE. Nuclear equipment and pressure vessel design are one of his core strength.

- Sandeep Patil: Sandeep, pursuing his Doctorate from UTA, Texas, has 7 years of experience as Scientist at BARC,India. His expertise is in thermal-fluid, electro-mechanical and automation.

Clientele

LARSEN & TOUBRO | Tetra Pak PROTECKS WHAT'S GOOD | TurboDynamics | Hirect Hind Rectifiers Ltd.

Forbes Marshall | ALBEMARLE® | Baroda Equipment and Vessels Pvt. Ltd. | ARK INFOSOLUTIONS PVT. LTD.

eBHARAT DEA Technologies

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