



Able Design Engineering Services Pvt. Ltd.

Catalyst For Your Success.....

Company Profile



ABLE Design is a professionally managed Global Design Engineering Services Company

• ESTABLISHED	2005
• EMPLOYEES	80+
• LANDSCAPE	65340 Sq.ft
• LOCATION TYPE	Industrial IT Park
• BUILTUP AREA	6000 Sq.ft





Major Domains

INDUSTRY VERTICALS

MASS TRANSPORTATION

MEDICAL & INDUSTRIAL ENGINEERING

COMMERCIAL KITCHEN EQUIPMENTS

What we do

INDUSTRIAL DESIGN



REVERSE ENGINEERING



DESIGN ENGINEERING



SOFTWARE SOLUTIONS



FINITE ELEMENT ANALYSIS



STAFFING SERVICES



Industrial Design Aesthetics & styling

Design Engineering

- **3D Solid Modeling** (Nx, Solid Edge, Solid Works, Catia, ProE)
- **Surface Modeling (CAS)** (Catia, NX)
- **Drafting & Detailing**
- **Sustaining Engineering**

CAID/ CAD

Homologation

Certification of Buses

- **Bus Certification - AIS 052 & AIS 119**
- **Rollover Analysis - AIS 031**
- **Seat Analysis - AIS 023**
- **Front/Rear Impact Test**
- **SUPD & RUPD**
- **On Road Validation**

CAPABILITIES

- **CAD/ CAM/CAE Softwares**
- **Contract Staffing Solutions**
- **Software Sales**
- **Training**

PLM/ PDM/ Staffing

Manufacturing

Prototyping/Mockups

- **FRP/ Sheet Metal**
- **Product Certification**
- **Strategy Development for Indigenizing and sourcing the components locally**
- **Sourcing and Strategic Development**

One Stop Shop For Design Engineering Solutions

Jagadish K Hiremath

Managing Director
23+ years Exp

Qualification :

- Post Diploma in Management of Small and Medium Enterprises
- Diploma in Tool & Die Making

Expertise :

- 12 years of successful Entrepreneurship in building Design Services and Innovative Products focusing on Mass Transportation, Commercial Kitchen Equipments and Medical Products Industries
- Actively Associated as Charter Member of TiE Hubli and Member of CII, North Karnataka

Narayan Tosur

Director Operations
24+ years Exp

Qualification :

- B E in Mechanical Engineering

Expertise :

- Over 24+ years of deep experience in Engineering and Engineering Services across Industrial, Semiconductor, Consumer Appliances & Rail Transportation verticals
- Six Sigma Black Belt & Green Belt Certified
- Product Design & Development
- Strategic Planning
- Program Management
- Value Engineering
- Manufacturing QC/QA

Vilas Joshi

General Manager
35+ years Exp

Qualification :

- Diploma in Mechanical Engineering (General)

Expertise :

- Worked in accreditation of DIN standards for Products
- Product Design, Manufacturing QC/QA
- Plant Administration
- Quality control & assurance
- Production & maintenance of machine tools
- Design engineering & management
- Human relation & administration

V S Imadi

Sr. Manager – Quality/Projects
30+ years Exp

Qualification :

- Diploma in Mechanical Engineering

Expertise :

- Have total of 30+ years of experience in 3Ph ac Induction motor Industries
- Product Design & Development
- Automation & Fixture design for automotive products.
- Proficient in Manufacturing process and materials
- Environmental Testing & Quality- Inspection.

Core Team



Deepak Bajagoli

Sr. Manager Projects
20+ years Exp

Qualification :

- Diploma in Tool & Die Making

Expertise :

- Product Design & Development
- Specialized in Bus door Designs (In-swing, Out-Swing , Jack-knife doors)
- Automation & Fixture design for automotive products.
- Proficient in Manufacturing process and materials
- Environmental Testing & Quality- Inspection.



Arvind. A. Pandurangi

Sr. Manager Projects
18+ years Exp

Qualification :

- Diploma Mechanical Engineering
- Post Diploma in Tool Design

Expertise :

- Worked with various Automotive Majors, supporting TVS
- Developed various press tools for Automotive Components
- Design and Engineering Tool and die for plastics, FRP & Composite materials
- Good experience in Quality Matrix



Balaganesan C Arumugam

Sr. Manager Projects
14+ years Exp

Qualification :

- BE in Mechanical Engineering
- Diploma in Mechanical Engineering

Expertise :

- 14+ years of experience in Engineering Design and Development



Ranjeet Kumar Thakur

Manager - Projects
6+ years Exp

Qualification :

- BE in Mechanical Engineering

Expertise :

- Design and development of staff and school buses (64 variant) for Ashok Leyland
- Managed Hybrid bus Design and Prototyping support for TATA
- Design and Engineering for City Buses for Export market
- Worked on Design Engineering and certification of Bus Body
- Understanding Project scope, Project Estimate, Scheduling, Delivery plan and Project execution.
- Good in Customer relationship, Communication, Team building and leadership qualities



Umesh kadakol

Manager – Projects
9.5+ years Exp

Qualification :

- Diploma in Tool & Die Making

Expertise :

- Currently handling bus body certification for major leading clients in India
- Good in Customer relationship, Communication, Team building and leadership qualities
- Press Tool and Mould Design & Development
- Automation & Fixture design for automotive products.
- Proficient in Manufacturing process



Abdul Rafiq Soudagar

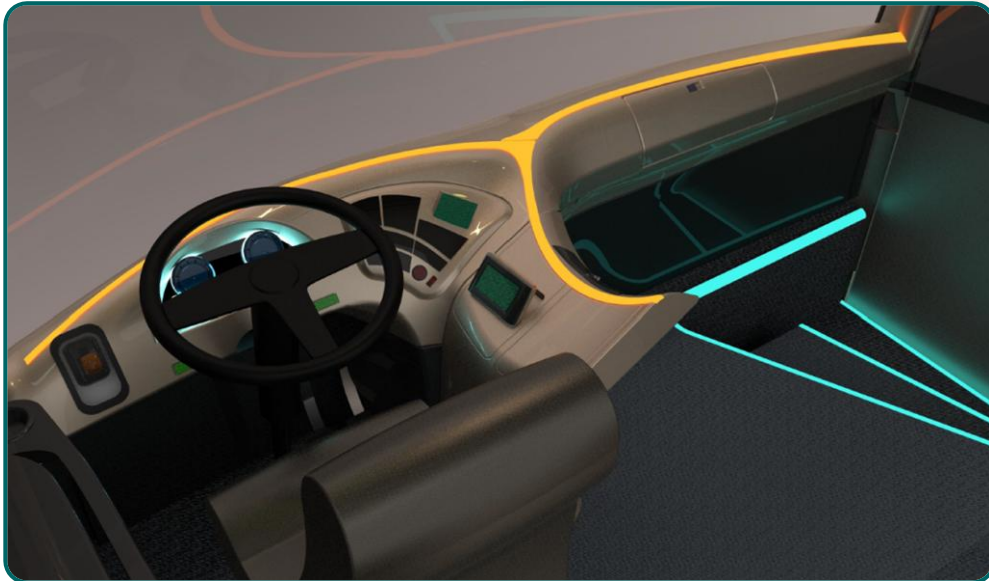
Manager – Projects
7+ years Exp

Qualification :

- B E in Mechanical Engineering
- Diploma in Automobile Engineering

Expertise :

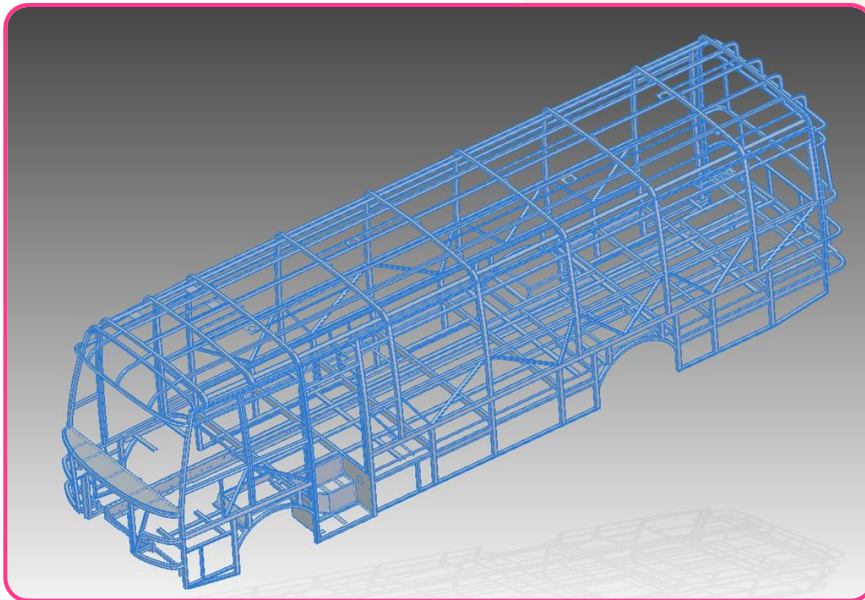
- Designed & Developed New product with Patent registration.
- Familiar with Production planning, Man hour control, Job analysis.
- Proven ability on projects within scheduled time, cost & quality parameters.
- Highly seasoned in homologation (Bus body Certification, Design , Engineering and CG Calculation)
- Lead project on Hybrid Bus for TATA
- BIW fixture for automobiles



- Design Research (product/ market/ user study)
- Ergonomic Study
- Conceptualization (concept sketches)
- 3D rendered images submission
- Customer feedback
- Surface modeling of front & rear FRP from styled data
- Modification of FRPs to accommodate structure
- Surface modeling of Dash board
- DQ verification
- Drawing with complete GD & T
- 2D/ 3D drawing release
- Meshing
- Roll over Analysis
- Design modification & validation
- Material testing & Report generation



- Surface modeling of front & rear FRP from styled data
- Modification of FRPs to accommodate structure
- Surface modeling of Dash board
- Gaps & Interface checking & fixing
- Checking design & dimensions as per AIS 052 & UBS II
- DQ verification
- Regularize if any mismatch found between CAD drawing & physical part.
- Drawing with complete GD & T
- 2D/ 3D drawing release
- Design modification & validation
- Submission of design data to ARAI
- Modification according to feedback from ARAI
- Homologation as per AIS 052 & UBS – II
- Indigenization of Spanish Bus Design



- Data Integration & Reverse Engineering of bus body variants for Staff & School Applications.
- Scanning of FRP parts (Front Fascia , Rear Fascia , Dash Board)
- Integration of Proprietary parts
- Integration of chassis and bus body
- Layouts for Homologation Certification
- 2D/3D release through ENNOVIA & LEAP through VVC.

Bus Door Solutions



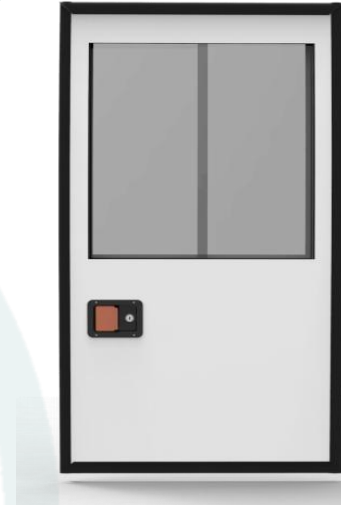
Jack Knife Single and Double Bus Door



CamoZZi Bus Door Kit



Roof Escape Hatch



Driver Door



Emergency Door



Out-Swing Bus Door & In-Swing Bus Door



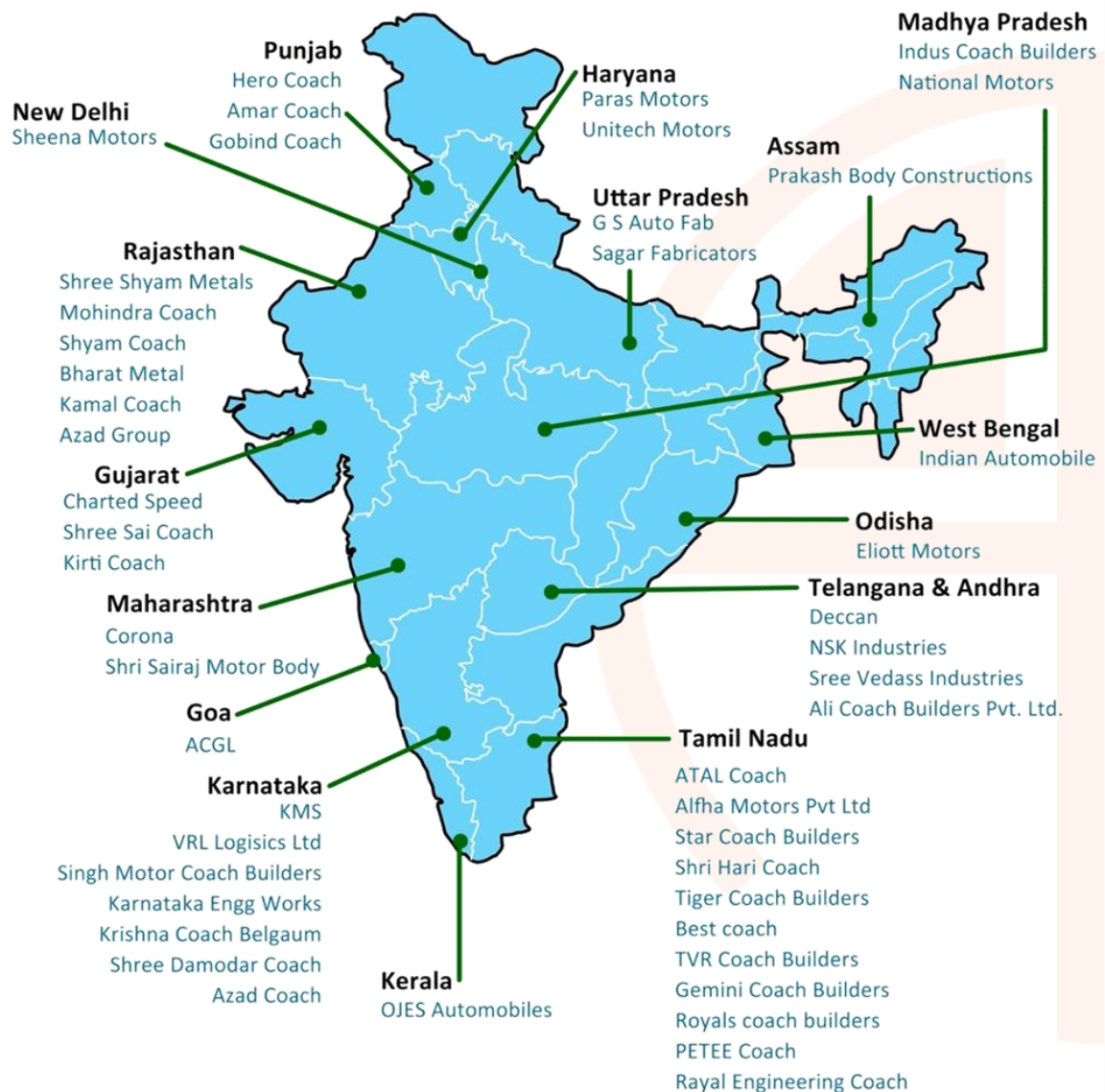
Bus Door Kit



AC Duct for buses



Wire Harnessing



Homologation Process

- Dimension capturing of existing bus body structure
- CG Calculation
- 3D model according to AIS 052 standard
- Coordinating with ARAI for Roll Over Analysis of the bus
- Manufacturing support
- Coordinating with ARAI for Bus Inspection
- Preparation of Drawings and documents for respective departments
- Receiving the Certificate from ARAI

Bus Body Design



Homologation



Aerospace



Others





**Thank
You...**