#### APPLEX

GROUP

# WE TRANSFORM TECHNOLOGY SOLUTIONS

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# APPLEX TECHNOLOGIES APPLEX INFOTECH

- 2D-3D Modeling
- Engineering Animation & Mechanism
- Knowledge Based Engineering (KBE)
- Design Automation
- Plant Layout and Design
- Engineering and Piping Stress Analysis
- Website Design & Development

- Mobile Application development
- Customize Software Development
- $\bullet$   $Process \, A$  utomation <code>Solutions</code>

Process Gap Identification

• Solutions for sales, HR, Finance & All Modules

# 360) APPLEX 360 APPLEX ANALYTICS

- Virtual Tour
- Virtual Reality
- 3D-Floor Plans
- Graphic Design

Digital & Social Media Marketing
Data Integration

Data Analysis

Decision Support

Dashboard Design

APPLEX GROUP

## TRUST VISION

To achieve sustained leadership position in providing superior services to the organizations around the globe

for cutting their time-to-market, with substantial cost savings.

#### ACCOUNTABILITY

**MISSION** 

To delight the customers by relentlessly driving technological advancements

and innovation that become essential to stay ahead of the competition at affordable Cost.

#### CONFIDENTIALITY VALUES INTEGRITY

The Core values we possess

ensures quality service to customers and best working experience for employees.

Your partner for the Design, **Development and Automation** of unique solutions

#### **A**PP**LEX**

TECHNOLOGIES 2D-3D Modeling Engineering Animation & Mechanism Knowledge Based Engineering (KBE) Design Automation Plant Layout and Design Engineering and Piping Stress Analysis

www.applexindia.com What we are...?

 $\textbf{APPLEX } \textbf{G} \mathbb{R} \textbf{O} \textbf{U} \mathbb{P}$ 

We provide different types of engineering solutions.

We offer comprehensive range of engineering services, which

consistently meet the

quality specifications of the customers.

Quality along with timely delivery of the solutions has been the hallmark of us.

We deliver wide range of solutions across industry verticals:

Automotive, General Engineering, Heavy Engineering, Oil & Gas, Power Generation, Aerospace & Marine.

We provide wide range of services for Concept Design, Product Design, Parametric Modeling (KBE), Piping, Wire-Harness, Tool Fixture, Material Handling, 2D-Detailing & Drafting, Animation & Mechanism for assembly prototype, Data Migration, Reverse Engineering & Value Engineering, etc.

► We are committed, passionate about our work and we want to bring the same to your solutions.

For completion time we use Program Evaluation and Review Technique (PERT)

We follows systematic process as Meet, Define, Design, Deliver.

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Excellent product development knowledge and strong industry experience of our team.

Scalability in terms of services provided. From Engineering support services to full product design through production co-ordination.

We are focusing on providing our engineering design consultancy service to form long term business relationships and deliver innovative design solutions to their mechanical engineering projects.

Entire product development, training, etc. under a single roof.

Advantage is maintaining quality, low costing and high level engineering skill.

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# Technology....

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Redefining Web Technology with Immense Excellence on **Different Verticals** 

AUTOMOTIVE OIL & GAS HEAVY ENGINEERING WATER TREATMENT

#### AEROSPACE POWER & ENERGY INDUSTRIAL & CONSUMER

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#### Expertise.

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We are expertise on some of following software tools...

cam ansys PRO-ENGINEER (CREO)

CATIA PRO-ENGINEER (CREO) HYPERMESH DO UNI-GRAPHICS CATIA NASTRAN

SOLID EDGE UNI-GRAPHICS SCILAB

INVENTOR /AUTOCAD SOLID WORKS CAESAR 2

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Our Services.....

**Product Design** 

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## SERVICE

RESPONSIBILITY

components. If your basic design is ready, use our team for detailed design.

Design for manufacturing (DFM) concepts. Ease of assembly using Design for Assembly (DFA) concepts. Function and strength of the

#### SUPPORT

AsSISTANCE Concept Design HELP

#### **RELATIONS**HIP

Creating the aesthetics and shape of the product **from conceived ideas & p**roviding it with colors **and features, repres**enting the same in the form of 2D pictures & photographs.

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# Our Services.....

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# ► 3D Modeling & 2D Drawing

RESPONSIBILITY

It includes solid and surface, **parametric feature based assembly** modeling, detailed engineering, piping and routing, design automation, legacy data conversion.

# SERVICE

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ASSISTANCE HELP

#### **RELATIONS**HIP

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Our Services.....

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#### **Piping & Cabling (Wire-Harness)**

RESPONSIBILITY

## SERVICE

#### SOLU

Improve time-to-market and reduce costs through virtual prototyping and automated routing. Achieve concurrent engineering via associatively; routed automatically update as the product design evolves. Quickly determine the best cabling route possible rather than wasting significant time with a trial and-error approach. Increase the quality of your designs by providing the best route design possible. SUPPORT

ASSISTANCE HELP

**RELATIONS**HIP

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Our Services.....
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## Knowledge Based Engineering (KBE)

It is the process of capturing design product knowledge & reusing it. KBE lead to developing comprehensive parametric and automated CAD application package, which will generate complete 3D design and related 2D drawings for manufacturing all design variants.

In this figure, KBE system starts with customer requirements and end with **customer sat**isfaction (C2C process). In this C2C loop process have more four steps like KBE application design, design the 3D or 2D models, Graphical User Interface(GUI) development & integration of GUI and CAD data.

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Our Services.....

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#### Knowledge Based Engineering (KBE)

#### **Advantages**

Analysis Of

Customer Requirement

KBE Software Design

Reduces time to market and lead time

**Testing & Implementa** 

#### tion **AKBE**

Creation of

2d & 3d Parametric

Library Reduce productio**n costs** 

#### Automates repetitive tasks

More innovative

Product, Optimizing the design is easy - trial and error goeOptimizations fast Allows for the reuse of critical knowledge and designs Suitable for analysis and simulation **processes Reduces overhead costs** Skilled staff turnover is not a big problem Costs and time use can be reduced by 90%

Integration of GUI & CAD

Library

Creating Graphical User Interface

(GUI)

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Our Services.....

#### **Material Handling Design**

Material Handling is the field concerned with solving the pragmatic **problems** involving **the movement**, **storage** in a manufacturing plant or warehouse, control and protection of materials, goods and products throughout the processes of cleaning, preparation, manufacturing, distribution, consumption and disposal of all related materials, goods and their packaging.

#### Our Scope in MH includes

#### Kitting Carts Paint Racks Transport Racks Storage Racks Lifting Device Trolley Stack Racks

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#### Our Services.....

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#### **Animation & Mechanism**

Detailed 3D mechanical animation of parts, components and machines is very useful in visualizing a product or concept even before a prototype is produced. Product animations for mechanical **assemblies or subassemblies can be used to showcase t**he functionality of a product.

#### **Fixture Design**

Design of Jigs and Fixtures, using the latest concepts & technologies. We have the experience in the Welding, Inspection or checking BIW, Machining fixtures design and detailed drawing creation. Our tool design

engineers are experienced in working with software like Uni-Graphics, Pro-E, Catia, AutoCAD, etc and are supported by a highly experienced team of tool manufacturing engineers ensuring high quality tools are designed.

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#### Our Services....

#### **Our Capabilities in TFD includes**

Assembly Fixtures Machining Fixtures Welding Fixtures BIW Door Fixtures Inspection Gauges

Drill Fixtures Drill Jigs Pick off tools Masking Covers

#### **Engineering Analysis**

It includes finite element Meshing/Modeling (FEM), finite element analysis (FEA) under Static, Dynamic, Linear, and Non-linear conditions **covering several as**pects like Stress, Thermal, Fatigue. Kinematic and dynamic analysis of machinery and simulation.

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Thermal

# **Our Scope in CAE includes**

Our Services....

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**Value Engineering** Applex technologies has expertise in providing value-engineering services for its clients. Value engineering seeks optimum value by balance in performance and cost.

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Value Engineering

An inadequate performance of a product at very *l*ow cost will not yield good value, if it does not meet the functionality. Hence Applex Technologies **improves the value by** eliminating unwanted weight, sh**ape and on the** whole optimize the product.

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#### APPLEX GROUP Our Services.... Reverse Engineering

Applex Technologies provides reverse engineering service associate with Geometry Design Service. The process of reverse engineering involves the measurement of components using a wide variety of measuring devices. Applex Technologies has access to a 7-axis portable Ferro arm laser scanner for measuring components of high complexity. For other components, based on the level of complexity, we have metrological instruments approach. The measurements thus derived are used to

**create 3D mode**ls and 2D drawings using industry standard mechanical CAD **software**. The choice of the software is dependent on end users requirement. Applex Technologies has very good experience on Reverse Engineering activities which is carried out in a precise manner to ensure the best possible accuracy of the product. Through this service, Applex Technologies aids its client in modifying their existing product design to suit new requirements and standards.

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Our Services.....

#### **Legacy Data Migration**

Applex Technologies has expertise in migrating non-parametric legacy data / drawings / images to parametric 3D models. Legacy data (manual

drawings/images/sketches) in hard or soft copy form, in bulk quantities pose a problem for easy maintenance & retrieval. We provide a **customized service** for migration/conversion to a digital format in accordance with **Clients standards or specific national standards**. The output of legacy Data Migration is a 3D Solid/Surface model and 2D drawings in any of the widely used Mechanical **CAD software.** We performs the legacy data migration services in **accordance w**ith client specification which typically includes Fits and Tolerance, Geometric Dimensional &Tolerance, surface finish, material specifications and engineering notes.

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Our Services....

#### **Plant Design Engineering**

Applex Technologies offers multi disciplinary engineering services and dedicated project management and planning support for water treatment plant, power plants, oil & gas, petrochemical, chemical, and energy projects. We offer a wide range of engineering services including basic engineering, extended basic engineering, detailed design, 3D modeling, and project management. For this **we use the software like** Auto-CAD Plant 3D helps us deliver 3D models of plants. All designs are rigorously

monitored for compliance to safety codes, data integrity, interference, customer standards and engineering practices.

#### **Manufacturing Support**

We strive to help our customers through production planning, which is at the core of all manufacturing processes. The purpose of production planning is to make an efficient use of the available resources during the manufacturing process, minimize costs and time to market, and increase the efficiency of the workplace. The manufacturing services that we offer cover every aspect of the manufacturing or production process, from the conceptual design stage to the final manufacturing and testing stage. In brief, our techniques can help you become a leaner and more efficient business.

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#### APPLEX GROUP Brings Clients... A Fortune With Real Results

Schlumberger DINDIA (FASE DURAN ASS mbiTech DIRA

**Automotive Systems** 

SOUND Sound Castings Pvt Ltd,

Kolhapur

FORGE-O-MATIC Engineering Private Limited MFRS. OF: Electrically upset forged parts for Automobile & other Industries



## victor reinz DANA <u>SCALE</u> VICTOR REINZ

ENGINEERING

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Holyclothing Pvt. Ltd.

TAI Infotech Pvt. Ltd Uttam Toyota Private Limited Whia Rd Pioneer One Hond**a Showr**oom &... MADE EASY

Bus**ine**ss Center Noida Sec 63

Lohia Rd

Omega Administrative Block

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# Contact us.....

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