

Profile

Karmen Engineering Services is an offspring of Karmen International Pvt Ltd, an ISO 9001: 2000 certified tier 1 supplier of machined cast parts and components to the global valve, pump and locomotive industries.

We are young and dynamic organization providing engineering design & support services using world class tools. Our engineers have hands on experience in using analytical design and analysis software for diverse spectrum of industries. We specialize in turning complex engineering ideas into technically viable manufacturing solutions in the most competitive manner.

Investment in state of the art capabilities enable us to offer cutting-edge services such as 2D CAD, 3D Solid modelling, Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD) and General Engineering solutions.

Whether you are seeking high end engineering support services or simply required short term engineering resources we can help you with competitive solutions.

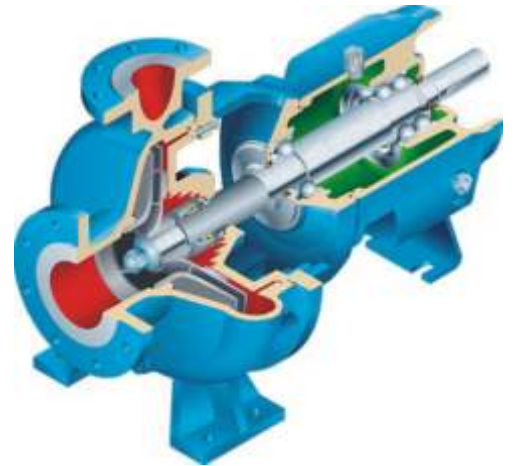
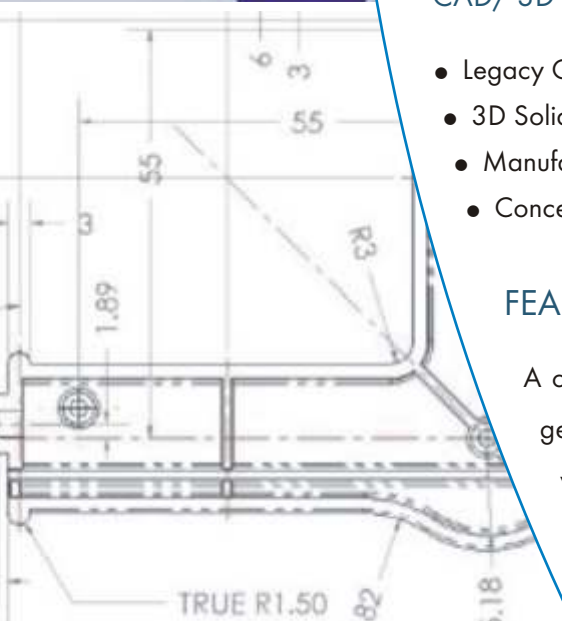
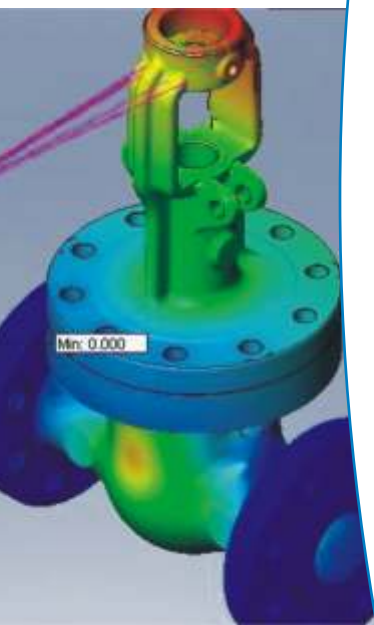
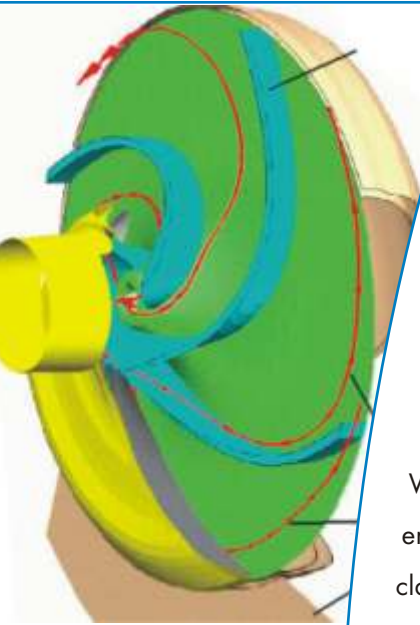
Services

CAD/ 3D Modelling

- Legacy Conversion from 2D to 3D
- 3D Solid Modelling
- Manufacturing Drawing
- Conceptual Designing

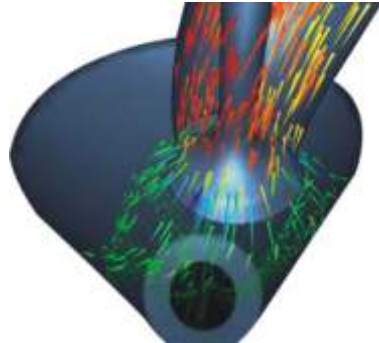
FEA

A computational technique that allows designers to test concepts by means of computer generated models. The models allow engineers to explore stress levels, under a wide variety of load conditions and analysis types. The results enable detailed evaluation and reporting the structural integrity of mechanisms.





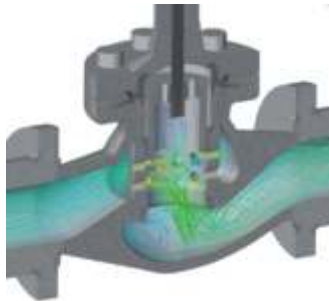
- Study of Stress Distribution
- Study of Pressure Distribution
- Design Optimization for Valves
 - Operating mechanism
 - Seat deflection
 - Δp minimisation
 - Cv evaluation
 - Component strength
 - Weight reduction
- Structural Analysis



CFD

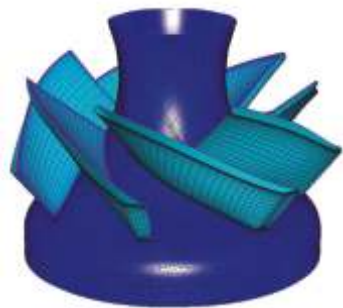
Computational Fluid Dynamics (CFD) is a tool for the prediction and analysis of complex fluid flows. The CFD method involves numerical solution of the fundamental equations that describe fluid flow.

The flow domain is modeled as a mesh or grid of many discrete volumes, enabling the analysis of complicated engineering geometries.



Prototype development

Our aim is to provide end to end solution from conceptual design to prototype development and testing for Pumps, Valves and allied industries.



Technical Documentation and Marketing Tools

Karmen Engineering Services can assist in the preparation of various technical manuals such as operation and maintenance manual, animated assembly instruction and marketing tools.

- General Assembly Drawing
- Assembly Design
- Design Animation
- Bill of material
- Operation and Maintenance Manual

Valve Performance Testing

KES has the capability of offering

- Cyclic Testing of Valves
- Fire Safe Testing
- Cryogenic Testing
- Flow Testing



Contact Us

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