

DesignTech Systems: Empowering the Future of Manufacturing with CAE and 3D Printing Innovation



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In today's dynamic and highly competitive manufacturing landscape, innovation, speed, and precision are the cornerstones of success. As companies strive to enhance product performance while reducing time-to-market, DesignTech Systems has emerged as a transformative force. Headquartered in Pune, Maharashtra, DesignTech is a trailblazer in providing cutting-edge Computer-Aided Engineering (CAE) solutions and 3D Printing technologies, enabling industries to engineer better products faster and more efficiently. With Mr. Vikas Khanvelkar at the helm as Managing Director, the company has grown into a trusted partner for countless manufacturers, designers, and innovators. DesignTech's deep technological expertise, customer-centric approach, and unwavering commitment to engineering excellence have earned it the status of a true manufacturing icon in India and beyond.

A Visionary Leader at the Helm

The driving force behind DesignTech's exceptional journey is Vikas Khanvelkar, a visionary technocrat and business leader with an unwavering passion for technology and innovation. Under his leadership, the company has grown from a modest start-up into a nationally acclaimed provider of engineering solutions. With a clear vision to bridge the gap between advanced engineering technologies and Indian industry needs, Khanvelkar has positioned DesignTech as a critical enabler of digital transformation in manufacturing. His hands-on approach, foresight into future trends, and strong emphasis on customer relationships have helped DesignTech align closely with the evolving demands of the industry. Khanvelkar's belief that "technology is not just about tools, but about enabling better thinking and smarter execution" is at the heart of everything the company does.

Pioneering in CAE and 3D Printing

DesignTech is best known for its unparalleled capabilities in Computer-Aided Engineering (CAE)—a domain that plays a pivotal role in product design and development. The company offers a wide range of solutions including finite element analysis (FEA), computational fluid dynamics (CFD), multibody dynamics, and optimization tools that allow manufacturers

to simulate real-world conditions on virtual prototypes.

By partnering with global technology leaders like Altair Engineering, MathWorks, and Stratasys, DesignTech ensures that its clients have access to the most advanced tools in the industry. These solutions not only help reduce product development cycles but also improve reliability, reduce costs, and enable better decision-making early in the design process.

In the realm of 3D Printing, DesignTech has been a key evangelist of additive manufacturing in India. The company offers state-of-the-art 3D printing solutions from Stratasys, helping industries across aerospace, automotive, medical, and consumer goods to develop prototypes, functional parts, and even end-use products with unmatched precision and speed.

Industry 4.0: Powering Digital Transformation

DesignTech is deeply aligned with the principles of Industry 4.0, offering tools and technologies that integrate design, simulation, data analytics, and additive manufacturing into a seamless digital workflow. Through its end-to-end solutions, the company is enabling manufacturers to adopt digital twins, perform real-time simulations, and optimize product performance using data-driven insights.

Whether it's enabling predictive maintenance, enhancing operational efficiency, or streamlining processes, DesignTech plays a crucial role in empowering Indian manufacturers to transition from conventional methods to smart, connected, and intelligent operations.



Why DesignTech is a Manufacturing Icon

DesignTech has earned its iconic status in the manufacturing sector for several compelling reasons:

1. Technological Leadership:

The company brings world-class CAE and 3D printing technologies to Indian shores, democratizing access to advanced tools that were once exclusive to global giants.

3. Commitment to Innovation:

From adopting the latest simulation technologies to promoting additive manufacturing in critical sectors, DesignTech is always ahead of the curve.

5. Empowering Engineering Talent:

Through its academic partnerships and educational initiatives, DesignTech is helping shape the next generation of skilled engineers ready to lead the digital manufacturing revolution.

2. Domain Expertise:

With decades of experience and a deep understanding of diverse industry domains, DesignTech offers solutions that are not just technically sound but also business-relevant.

4. Customer-Centric Approach:

The company's focus on training, support, and consultancy ensures that clients are able to unlock the full potential of the tools they invest in.

6. National Impact:

From SMEs to large enterprises, from automotive to defense, DesignTech's solutions have touched nearly every segment of India's manufacturing ecosystem, driving competitiveness and innovation.

Engineering Services And Vision Inspection Offerings

Through their portfolio of engineering services, DesignTech offers services at every stage of product life cycle right from concept development, 3D Modelling and CAD design, product design analysis and simulation, design-for-manufacturing, to Interactive Electronic Technical Documentation and Immersive Reality experiences. Working as an extended arm of product development companies, DesignTech helps them attain their product design and manufacturing objectives. With an extensive experience of working in cross industry verticals ranging from

automotive, aerospace, consumer electronics, medical device manufacturers, to power and energy in India and overseas, DesignTech brings in engineering insights, expertise, technical acumen while adhering to international codes and compliances.

Their latest addition is Vision Inspection Systems that can help companies detect even the minutest manufacturing defects, better quality control, and achieve zero manufacturing rejections. These systems are custom built as per the specifications and requirements of the manufacturers making them ideal for diverse manufacturing companies, and can significantly optimize time, and costs of productions while greatly enhancing the quality and productivity.

Beyond Business: Nurturing a Tech-Driven Ecosystem

What further sets DesignTech apart is its role in building a holistic ecosystem for engineering innovation. The company actively collaborates with academic institutions, research organizations, and government bodies to foster awareness, build skills, and promote technology adoption at the grassroots level. Initiatives like the establishment of Technology Labs, industry-academia interactions, and technical workshops have helped thousands of students and professionals become industry-ready.

This deep-rooted commitment to ecosystem development

underscores DesignTech's philosophy of technology as a catalyst for nation-building—not just business growth.

As the world races toward smarter, faster, and more sustainable manufacturing practices, DesignTech Systems stands at the forefront of this transformation, empowering companies to innovate fearlessly. Under the dynamic leadership of Vikas Khanvelkar, the company continues to redefine the boundaries of what's possible with CAE and 3D printing technologies. With a relentless focus on excellence, innovation, and customer success, DesignTech is not just a solutions provider—it is a strategic partner, a thought leader, and a true manufacturing icon of modern India.