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# MANUFACTURING

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**AXISCADES, Inc.**



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*The annual listing of 10 companies that are at the forefront of providing Prototype Engineering services and impacting the industry*

# AXISCADES, Inc. Quality, Speed, and Cost Benefits— Covered



Ajay Sarin

**A**XISCADES, Inc. is a holistic technology and engineering solutions provider catering to the entire product lifecycle management needs of global OEMs and core engineering firms. The company brings to bear its comprehensive understanding of the end-to-end processes, including planning, design, prototyping and experience, to help clients achieve operational excellence and improve time to market while keeping costs in check. Companies from different industries, including heavy machinery, off-highway vehicles, aerospace, automotive, and energy, have come to appreciate AXISCADES' advanced solutions and client-centric services. Over the years, AXISCADES has perfected the science and technology of delivering traditional, virtual and digital engineering solutions that enable clients with the key intelligence required to solve complex and multi-layered problems.

The biggest challenge for engineering-centric firms is the lack of visibility in the overall operational processes. The reason for this ailment is the absence of clear and timely communication between departments, even with all the PLM and ERP systems at OEM's disposal. Because of the convoluted change tracking paradigm, multi-level validation requirements and supplier process controls, in any engineering product development, last-minute changes are bound to happen and are sometimes missed, leading to unnecessary costs and project delays.

The departmental silos and non-existent communication channel shared between design, validation, purchasing, inventory, logistics, and shop floor teams further hurt the final outcomes. Moreover, operators hardly ever have access to real-time information on the operations. Adding to their woes is the COVID-19 pandemic that has changed the product-design perspective with a renewed focus on production throughput and time to market. “AXISCADES carefully understands all the clients’ predicaments and forms integral part of clients’ project teams to deliver fruitful long-term results,” says Ajay Sarin, CEO of the company.

AXISCADES offers clients a gamut of virtual manufacturing solutions such

of automation, digital technologies, design, and manufacturing tools that best suit their unique needs.

The company delivers such value through its 24/7 service delivery across geographical time zones. What’s more, the firm also offers traditional support in Design for Manufacturability & Assembly (DFMA), cost optimization, prototype development, and product

take important learnings, firsthand experiences, and our value additions to a client from a particular industry and share those ideas with our clients in different industries. This cross-pollination of sorts has worked wonders for our clients over the years,” he adds.

In a case study, a Fortune 500 OEM approached AXISCADES with



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as 3D factory design, assembly process planning, simulations, digital work instructions, shop floor automation, and IIoT. The team specializes in tailored solutions that are compatible with clients’ legacy/latest platforms. These solutions aid clients in eliminating inadvertent errors and make informed decisions. The clients also receive guidance on the type

packaging. During the COVID-19 pandemic, the firm helped clients with its quality engineering processes related to their supply chain, as well.

To maximize its value proposition, AXISCADES has established a Center of Excellence (COE) at its offshore development center in India that provides manufacturing engineering competency. “Through our COE, we

a challenge in its plants in the US. The client required a solution that could integrate with their existing platform to enable a harmonious change management initiative seamlessly. AXISCADES answered the call and developed a digital aid projected on a monitor in front of the operator. Using artificial intelligence and visual reality tools through a camera, the firm could project the product’s critical defects before sending it for assembly. The solution reduced iterations, communication gaps, time to market and product defects right from the early stages. The value assessment tool helped the client increase productivity, consistency and integrate product management with better ROI.

During the COVID-19 period, many companies heavily relied on AXISCADES for the timely delivery of manufacturing engineering solutions to keep their plants running. Having emerged as the trusted engineering services partner, the firm is looking to expand its operations in the US and other countries. 