

The Company

ACUTEC Precision Inc., is a high-precision manufacturer that handles a wide range of customer requirements, from prototype to high volume parts.

ACUTEC is a One-Stop Shop for large manufacturers requiring a vertically integrated subassembly supplier. They invest in capacity and capability, are nationally recognized for employee engagement, and leverage data-driven information that leads to better decision making throughout their organization.



With three manufacturing locations, ACUTEC is ideally situated to handle customer JIT programs and complete product requirements.

Saegertown, PA



Meadville, PA



St. Stephen, SC



The Challenge

Find ways to analyze and improve productivity using actionable insights based on data collected from shop floor equipment to inform decision making.

- 1 Lack of real-time transparency across the manufacturing operation.
- 2 Optimize machine capacity planning and scheduling.
- 3 Improve device utilization to drive improved efficiency.
- 4 Improve employee productivity via employee engagement and motivation vs. being intrusive and raising operator concerns.

The Solution

ACUTEC selected VIMANA's Smart Manufacturing Analytics software for data collection and shop floor analytics.

ACUTEC selected VIMANA's Smart Manufacturing Analytics software for data collection and shop floor analytics. ACUTEC wanted to ensure that the machinists were fully engaged in using the product. Machine data collection systems usually get a bad rap for creating distrust on the shop floor, a scenario ACUTEC's management wanted to avoid. They started with town hall meetings where they spoke to the operators both as a group as well as individually to explain why they selected VIMANA's software and why it was important that they brought software in to find ways of becoming more efficient.

ACUTEC empowers their machinists to make decisions and VIMANA Elevate Manufacturing Analytics Software gives them the information to make informed decisions.

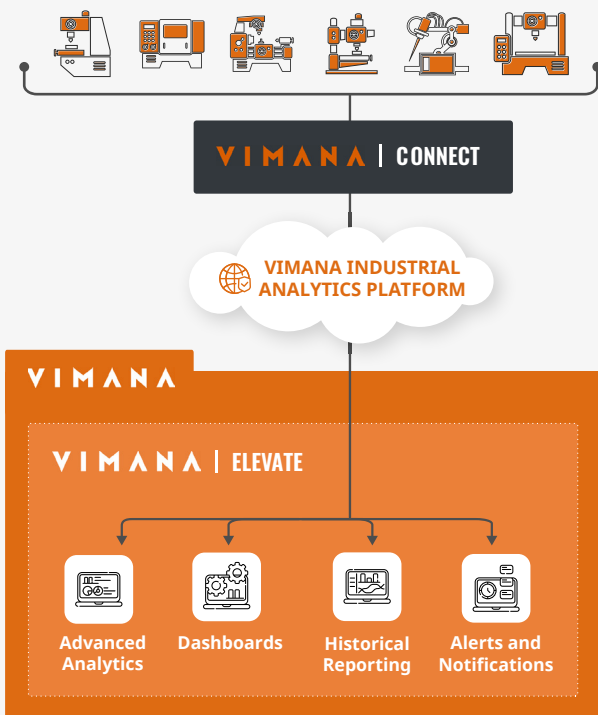
The response was overwhelmingly positive. Not only did the operators agree with the management’s approach, they also fully embraced it, and welcomed the exposure of their day-to-day issues that the data would bring, so that they could rally management support to solve those problems. **VIMANA Elevate’s capability to accurately detect producing periods and automatically classify downtimes provided highly accurate analysis of the manufacturing equipment.** The operators welcomed the peer pressure that the data would bring in creating positive motivation to improve productivity.

VIMANA Elevate was pervasive throughout the entire facility, with large monitors displaying real-time status at individual cells and with some machine tools having their own real-time displays. This pervasiveness helped establish the transparency in both the data collection and the analysis.

The real-time capabilities of VIMANA Elevate also meant that the Dashboards accurately tracked device


performance - performing complex pattern matching to keep-up with the activities of the high-speed machine tools.


VIMANA’s technology enables you to monitor and manage manufacturing productivity. VIMANA’s software identifies periods of production losses using a sophisticated classification engine and provides users with the information and insight needed to improve utilization.




Improving Device Utilization With Enhanced Employee Engagement

ACUTEC used VIMANA’s software in deciding what types of parts they had to load on different machines. They were able to quickly assess the impact of machining electrodes instead of production parts on machine tools. While the machine tools were capable, the additional cost of setting up the machine to produce the graphite electrodes, and then cleaning the machine after, greatly inflated the total cost of the machining process. With VIMANA Elevate they were able to see precisely how much of an impact this had on their overall productivity which in turn led to quickly shifting this capacity to a new machining center exclusively for graphite electrodes machining.

 The improved visibility lead to a **significant improvement in device and improve manufacturing flexibility organization.**

 The secure SaaS deployment enabled ACUTEC to **rapidly and efficiently** scale VIMANA’s software across the facilities they operate.

 **Operator productivity improved with real-time insight into part production performance.**
Employee satisfaction grew with the empowerment to make decisions and see impact to the entire organizations.

“We are using VIMANA Elevate to make decisions and improve awareness across the facility. Our operators have welcomed the objective data that VIMANA Elevate has brought, and we are being fully transparent with the analysis.”

~ Elisabeth Smith,
President & CEO

**IMPROVE YOUR MANUFACTURING
OPERATIONS TODAY**

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