AUTOMATION WITHIN REACH

DIMENSION MACHINE LLC

Increases Daily Production by 40% - 60%

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Dimension Machine LLC is a specialized job shop serving the Cincinnati tri-state area, focusing on low-volume production with hundreds of repeatable parts. With a service—first philosophy that puts machine shop second, Dimension Machine has established itself as a trusted manufacturing partner across multiple industries, including food, forestry, packaging, conveyor systems, and everything in between.

Manufacturing leaders must balance optimizing production efficiency and resource utilization while staying flexible to beat competitors in a constantly evolving industry. Like many others, introducing automation for Dimension Machine began with a question—"How can we do more with less?"

While researching automated CNC machine tending integrators, Dimension focused on selecting a trustworthy vendor. Initially, Dimension was nervous about potential delays and the financial costs. Since DM previously purchased all of its machine tools from Gosiger, Dimension Machine felt that Automation Within Reach would be no different in terms of service.



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Once AWR completed installing the Flex Series DC-2, Dimension Machined experienced a few challenges, such as chip control, alignment, programming issues, and general “how do I do this” questions. The AWR team assisted them in clearing up all issues and helped Dimension evaluate bigger-picture challenges to prevent them from arising in the future.



After integrating a CNC lathe tending robot, Dimension Machine experienced a fundamental shift in its changeover operations and manufacturing capacity. The AWR Flex Series DC-2 automation system eliminated this constraint—requiring minimal changeover time while enabling more frequent part transitions. This operational transformation delivered measurable results: setup frequency increased alongside parts completion rates, while continuous 24-hour operations boosted overall production by 40-60%.

“For example, one guy running two machines is about 85% efficient on one machine and 40% efficient on another without any setup. The L&G (without any setups) allows one machine to be 95% efficient and the other to be 70% efficient,”

- KEVIN & RUTHIE, OWNERS OF DIMENSION MACHINE LLC

Machine shops must be able to adapt to the rapidly changing manufacturing industry. Dimension understood that customers no longer hold inventory, creating a shift in meeting customers’ deadlines and demands. With AWR’s Flex Series DC-2, Dimension Machine can expand without increasing its workforce and equipment. The new automated lathe tending cell helps create higher-paying jobs due to the demand for skilled labor. It also allows skilled workers to attend to another machine more efficiently.



By leveraging their existing relationship with Gosiger to select Automation Within Reach, Dimension found the trustworthy automation partner they needed to overcome their initial concerns about delays and costs. This experience highlights how effective support, paired with proven technology, delivers the competitive advantage that manufacturing leaders seek.