



Nicolet Plastics Highlights Precision Insert Molding Capabilities

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Nicolet Plastics LLC, a custom injection molding company based in Wisconsin, provides precision insert molding services designed to meet the demanding requirements of industries including medical devices, automotive, electronics, and industrial equipment. The company's insert molding capabilities allow manufacturers to combine metal components, electronic elements, and engineered plastics into single integrated assemblies, reducing secondary operations and improving part consistency.

Insert molding is a specialized injection molding process in which pre-formed components, typically metal pins, bushings, threaded fasteners, or electrical contacts, are placed into a mold cavity before thermoplastic material is injected around them. The result is a unified part that bonds plastic and non-plastic materials without the need for adhesives, mechanical fastening, or post-mold assembly. Nicolet Plastics utilizes this process across a range of resins and substrate materials to deliver components that meet tight dimensional tolerances and rigorous performance standards.

The company operates a facility equipped with injection molding presses ranging in tonnage to accommodate both small precision components and larger structural parts. Each insert molding project begins with a design

review in which engineers evaluate part geometry, material compatibility, insert placement, and gating strategy. This upfront collaboration helps identify potential issues before tooling begins, which reduces development timelines and minimizes costly revisions during production.

Brian Torres, Chief Commercial Officer of Nicolet Plastics, said the company's engineering-first approach distinguishes its insert molding work from competitors who treat the process as a commodity service. "Insert molding requires careful consideration of thermal expansion differentials between the metal insert and the surrounding polymer. Our team accounts for these variables during the design phase so that the finished part performs reliably across its intended operating conditions," Torres said.

Material selection plays a critical role in the success of insert molded parts. Nicolet Plastics works with a broad portfolio of engineering-grade thermoplastics, including nylon, polycarbonate, acetal, and glass-filled compounds. The choice of resin depends on factors such as chemical resistance, operating temperature range, mechanical load requirements, and regulatory compliance. For clients in the medical sector, the company processes biocompatible materials that meet applicable FDA and ISO standards.

Quality assurance is integrated throughout the insert molding process at Nicolet Plastics. Incoming inserts are inspected for dimensional accuracy before loading, and finished parts undergo verification using coordinate measuring machines, optical comparators, and functional testing fixtures. The company maintains documented quality procedures and provides full traceability for production lots, which is particularly important for customers in regulated industries where component failure carries significant consequences.

Torres noted that many customers approach Nicolet Plastics after experiencing challenges with insert molding at other facilities. "The process looks straightforward on paper, but achieving consistent bond strength and dimensional stability across thousands of cycles requires process discipline and experienced toolmakers. We have refined our methods over decades of production work," he said.

Those seeking to learn more about Nicolet Plastics insert molding capabilities can contact the company directly for technical consultations and project evaluations. The engineering team works with customers from initial concept through full-scale production, providing design-for-manufacturability feedback that optimizes parts for the insert molding process while maintaining functional requirements.

In addition to insert molding, Nicolet Plastics offers conventional injection molding, overmolding, and value-added assembly services. This range of capabilities allows the company to serve as a single-source provider for projects that involve multiple molding technologies or require secondary operations such as ultrasonic welding, pad printing, or mechanical assembly. Consolidating these processes under one roof reduces lead times and simplifies supply chain management for original equipment manufacturers.

The insert molding process delivers measurable advantages in applications where part consolidation, improved structural integrity, and reduced assembly labor are priorities. By encapsulating metal components within engineered plastic during the molding cycle, manufacturers eliminate separate fastening steps and reduce the risk of loose hardware in finished products. These benefits are particularly valued in automotive electrical connectors, medical device housings, and industrial sensor enclosures where reliability is essential.

Nicolet Plastics operates with a focus on repeatability, dimensional precision, and material performance across every insert molding program it undertakes. The company invites engineers and procurement professionals to discuss specific project requirements and explore how insert molding can improve part performance while reducing total manufactured cost.

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Nicolet Plastics

Nicolet Plastics is a supplier of choice for companies who require expertise in the molding of complex parts out of both commodity and engineered resins.

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