

Better assembly solutions at lower cost

FisherTech's Injected Metal Assembly (IMA™) process reduces component assembly costs as it improves quality, performance and productivity. If you're using time-consuming joining operations such as welding and soldering, press fitting, drilling and pinning, crimping, stamping, bonding, gluing, brazing, swaging and staking, take a look at cutting your assembly production costs up to 70%.



Zinc alloy as glue?

Yes. Think of molten zinc alloy as precision, instant setting glue to bond just about any components imaginable. Zinc alloy has many of the same properties as adhesives without the peeling and thermal degradation issues of conventional products. It has excellent stress distribution properties and performs well in harsh environments. Zinc alloy joins dissimilar materials and those of different thicknesses, requiring only an industrially clean surface. The molten alloy cures (solidifies) in milliseconds, ensuring close tolerance, part-to-part consistency over large volume runs.



Running in tight circles!

The accuracy of True Position required on a cup and shaft assembly for industrial cooling fan motors is critical. The costly and time consuming processes of reaming and press fitting often cause quality problems relative to True Position and Circular Runout. An as-cast zinc alloy hub joins the components with repeatable accuracy—the shaft position relative to the cup face, and the circular runout between the shaft OD and the cup ID are held to very tight tolerances. The IMA process significantly reduces costs, with one operator producing the work of three.



Making it simple makes cents!

The IMA process reduces production steps and the cost of a suspension system stabilizer link assembly. Replacing two stamped steel rings, resistance welded to a specially tipped rod, with two cast zinc alloy rings eliminates tipping, secondary machining and plating. This allows same-day production. The rings are cast flash-free, net shape and ready-to-use in the next assembly operation. With custom-designed robotic loading and unloading systems, vision and shot monitoring programs, the IMA system fits the customer's production line requirements.



Improving a dip stick!

Fluid level indicators come in various sizes, styles and finishes for different vehicle platforms. Some have fine cross hatching details or complex shapes. Tightly controlled positioning of the level indicator configuration on the cable is critical. The IMA process provides close tolerancing, accurate positioning, part-to-part consistency, strength and economics not available with crimping or staking. The indicator is cast net shape with no secondary finishing needed. The cable's second end is upset to provide greater pulloff strength for the injection molded plastic handle.

FisherTech's joining and assembly solutions

- assembly costs cut by up to 70%
- multiple processes replaced with a one-step operation
- significant productivity gains
- ready-to-use assemblies
- high strength, mechanical lock
- part-to-part consistency
- engineering expertise to maximize process benefits.

The IMA™ Advantage

Reduces costs

- replaces pre-manufactured components
- produces functional features during assembling
- eliminates secondary operations
- cuts labor costs.

Improves quality

- no variation over long production runs
- tolerances of $\pm .002$ in. (± 0.05 mm) or less
- wire and cable terminations with high pulloff strength
- meets or exceeds automotive quality standards.

The IMA™ process assembles

- virtually any material
- materials of different thicknesses and widely varying thermal properties
- complex configurations.

Contact us today to arrange for your free, in-house value engineering workshop to evaluate how the IMA process can provide you with better, lower cost assembly solutions.

FisherTech's Injected Metal Assembly Systems are manufactured to CE, LL and CSA requirements.



The FisherTech Advantage

For over 60 years, Tier I and II suppliers, and other OEMs, have relied on FisherTech's Injected Metal Assembly (IMA) process to cut their joining and assembly costs, improve application quality and performance, and solve their assembly problems. FisherTech adds increased value to customer assemblies with Application Engineering, Finite Element Analysis (FEA), Prototyping and Modeling services.

We use our design techniques and tooling capabilities to eliminate components from an assembly by forming them in zinc alloy during the assembly process, to incorporate functional features which would normally be added in a secondary operation, and to offer solutions to enhance the assembly's functionality.

FisherTech's expertise in molten metal die casting technology provides our customers with high value assemblies ... and a competitive advantage.



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