

# Flexible Metal, Inc



A Dormont Manufacturing Company

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## Design-Engineered Solutions for Flexible Metal Applications

### OUR VISION

FMI is built on a tradition of  
integrity, trust, leadership,  
teamwork and passion.

We design and manufacture  
high quality bellows, expansion  
joints and fabricated assemblies  
for gas and fluid conveyance.

Our work results in:

- enthusiastic and loyal customers
- employee fulfillment
- success for our company and partners

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## Background

Flexible Metal, Inc. (FMI), located in Tucker (Atlanta), GA was founded in 1954. FMI manufactures metal bellows, expansion joints, corrugated tubing, braid and fabricated assemblies for a wide array of applications and industries. As an industry leader, FMI delivers design-engineered solutions for flexible metal applications that provide superior value in terms of reliability and performance.

FMI was acquired by Dormont Manufacturing Company in 2000. Dormont is the inventor and world's largest manufacturer of flexible stainless steel gas appliance connectors. Dormont's Supr-Safe® Gas Connectors are used in residential, foodservice and industrial applications. Dormont works closely with leading appliance manufacturers, foodservice chains and gas utilities to design and manufacture superior solutions for gas connection applications.

## Design and Technical Support

The FMI Design & Engineering Team is composed of talented, highly skilled individuals with extensive industry experience who are dedicated to helping provide value-added solutions for our customers. The FMI Team works directly with customer engineers to ensure that each design meets specific customer needs, quality and cost targets. As appropriate, each project is managed in accordance with Advanced Product Quality Planning (APQP) principles and a formal Production Part Approval Process (PPAP).

We take great pride in providing rapid, real-time technical support. Our goal is to become an extension of your engineering group as a respected "team member", delivering a unique set of skills, knowledge and experience to help your business. We want to provide solutions with superior value in terms of reliability, durability, performance and system cost.



## Application/Markets

FMI provides metal bellows, expansion joints, fabricated assemblies and design-engineered solutions for a wide array of applications in industries including Engine, Power Generation, Petrochemical, Aerospace, Cryogenic, Marine, and multiple process industries. Our products can solve problems in piping associated with thermal expansion, vibration, motion, cryogenics and high vacuums. Bellows and expansion joints can be designed to improve durability and life expectancy of piping systems that see high temperatures, handle corrosive media, or endure rugged environmental conditions.

## Quality Systems

FMI is committed to providing superior quality products that are manufactured in accordance with internationally recognized quality systems standards. FMI has been an ISO 9001 Registered Firm since 1993 and will earn QS9000 Registration in 2002. These internationally recognized quality standards help assure our customers of our commitment to continually upgrading and improving our processes.

As part of this commitment, FMI is implementing a long range plan to upgrade our operations to "world-class" status. We utilize Six Sigma and Lean Manufacturing principles to provide continuous improvement in all areas. We have hired a talented team of manufacturing engineers who bring a wealth of knowledge and experience from other top notch firms. We continue to invest in new, proprietary equipment in all work cells. In addition, our Supply Chain Optimization initiatives help ensure that we meet our customers' demanding requirements through flawless execution of the fundamentals.



## Manufacturing Capabilities

FMI manufactures a wide array of flexible piping products. Our bellows, expansion joints and flexible hose products are fabricated using a variety of corrosion resistant materials, such as 304L, 316L and 321 stainless. FMI also provides specialty metal alloys including Inconel 625 or 718, Hastalloy, Nickel 201 and Aluminum for applications that require higher corrosion resistance and/or oxidation protection at very high temperatures.

FMI manufactures welded tubing and corrugated metal hose in sizes ranging from 1/4" through 12" ID and wire braid up to 12". Using several specialized processes, we manufacture metal bellows from 1" ID through 144" ID. We also have the capability to bend tubing up to 4" OD.

Welding is a critical part of our business. We employ highly qualified professionals who perform a variety of welding processes; TIG, MIG, Plasma and Micro-plasma, resistance and induction welding and torch brazing, in both automatic and manual modes. FMI adheres to codes and specifications including:

- ASME Section IX of the Boiler & Pressure Vessel Code
- ASME Section VIII
- ANSI B31.1, Power Piping
- ANSI B31.3, Petroleum
- AWS D10.0, Pipes & Tubing
- MIL STD 278, Welding
- MIL STD 1261, Welding
- MIL STD 2219, Welding
- MIL STD 1595, Welder Qualification
- MIL-W-6858, Resistance Welding

