



# PRECISION METAL INDUSTRIES

## THE TRUSTED SUPPLIER OF ADVANCED MISSILE & MUNITION CONTAINERS



### A DEPARTMENT OF DEFENSE CHALLENGE

A Department of Defense supplier needed to improve their original containers for shipping highly sensitive, expensive military equipment. This group required assurance that their product would reach its destination without damage or malfunction, thereby providing the greatest possible impact to their intended recipients: American soldiers in critical situations overseas.

The design called for durability and necessitated the inclusion of environmental seals. These would ensure that the product remained unharmed by external factors – changes in moisture or temperature, even particles of dust. To guarantee effective protection, each assembly needed extensive testing. The redesign required increased durability, environmental soundness, and cost-effectiveness. PMI would need to assure zero-defect delivery on large quantities.



Automated Robotic Welding Process



### ENGINEERING THE SOLUTION

Precision Metal Industries' engineers redesigned the case and eliminated several initial design and process inefficiencies, including the **elimination of 160 inches of welds**. The changes served to simultaneously strengthen the case and reduce overall cost and manufacturing time.

**PMI's fully automated, lights-out manufacturing process** also allowed for the manufacture of large quantities much more rapidly.

Furthermore, PMI developed several tailored testing functions that have become an ongoing part of production. Each container is thoroughly inspected and tested via these functions prior to delivery.



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### THE OPTIMAL RESULT

The resulting product was a much stronger, safer and cost-effective design. By reducing the customer's costs, while ensuring their product made it to its final destination devoid of any type of defect, Precision Metal Industries achieved success.

PMI was recognized as a star supplier for their engineering prowess and ability to leverage a fully automated plant. The final result was the delivery of a large monthly quantity of required containers, each comprehensively inspected and tested to provide zero-defect delivery.



Missile Container Assemblies for Inspection

[Learn More About PMI's Engineering, Assembly and Supply Chain Management Programs](#) ▶



### PRECISION METAL INDUSTRIES

PMI has over 30 years of experience creating high quality shipping and safety solutions for sensitive equipment – from weapons and electronics to medical and aerospace applications.

#### Some of our qualifications and services include:

##### MILITARY STANDARDS & QUALIFICATIONS

- ITAR Registered
- ISO 9001:2008 (TUV Registration #05-1095)
- SAM: CCR & ORCA Registered (CAGE: KHJ5)
- Joint Certification JCO #0065616
- FDA Certified

##### PRECISION SHEET METAL FABRICATION SERVICES

- Design services- AutoCAD & SolidWorks
- Fully Automated Turnkey Services
- Robotic Press Brake Forming
- Turret Press Fabrication
- Automated Robotic Welding
- Automated Laser Cutting
- Tooling and Finishing Services
- Extensive Testing and Inspection Services
- Award Winning Supply Chain Management

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