

CAPABILITIES BROCHURE

Kelco Industries

Custom-Engineered Components & Assemblies for Mission-Critical Systems

A single U.S.-based manufacturing partner delivering precision electromechanical, metal fabrication, sealing, and plastic solutions—fully integrated, engineered-to-spec, and built to perform where failure is not an option.

AS9100 / ISO Certified

ITAR Registered

100% American Made

OUR FOUR DIVISIONS

Guardian Electric

Electromechanical
Components

Flex-Weld

Metal Hose & Bellows

WCT

Precision Sealing Solutions

AMT

Engineered Plastic
Components

Four American Manufacturing Leaders.

One Unified Solution.

Kelco Industries brings together Guardian Electric, Flex-Weld, Western Consolidated Technologies (WCT), and Advanced Molding Technologies (AMT) to deliver fully integrated, custom-engineered solutions. By combining expertise in electromechanical systems, metal fabrication, sealing technologies, and precision molding, Kelco provides a single-source partner for complex, multi-component assemblies across aerospace, defense, medical, energy, and industrial markets.

The Result: Fewer suppliers. Faster timelines. Better performance.

AS9100 / ISO Certified

ITAR Registered

Why Kelco Industries



Reduce 3-4 Suppliers to One

Electromechanical, metal, sealing, and plastics under one roof — one purchase order, one point of accountability



Engineered-to-Spec, Not Catalog Parts

Every component is designed around your exact operating environment, tolerances, and certification requirements



Proven Where Failure Isn't an Option

Qualified for aerospace, defense, medical, and energy applications where off-the-shelf simply won't do



U.S.-Based Manufacturing

Reliable production with ITAR compliance and quality systems required by your most demanding programs

Comprehensive Capabilities

- Control grips, switches, relays, solenoids & coils
- Flexible metal hose & bellows
- PTFE and rubber seals & gaskets
- Injection, insert and over-molded plastics



100%

American Manufactured

End-to-End Capabilities

A proven workflow that transforms complex requirements into mission-critical realities, ensuring precision at every phase.



Engineering Depth That Delivers Results

- > Design for Manufacturability (DFM)
- > Material selection expertise (PTFE, elastomers, metals, engineered plastics)
- > Tight tolerance manufacturing
- > Cross-division engineering collaboration
- > Prototype-to-production program support
- > In-house environmental, mechanical & functional testing

Manufacturing Advantages

- **Advanced Automation:** Smart manufacturing and robotics for consistent, high-quality output at scale
- **Reliable Supply Chain:** Vetted suppliers and on-time delivery commitments across all product lines
- **Multi-Discipline Materials Expertise:** PTFE, elastomers, metals, and engineered plastics — all under one roof
- **Vertical Integration:** In-house design, prototyping, manufacturing, and testing reduces risk and lead time



Specialized Expertise. Unified Products.

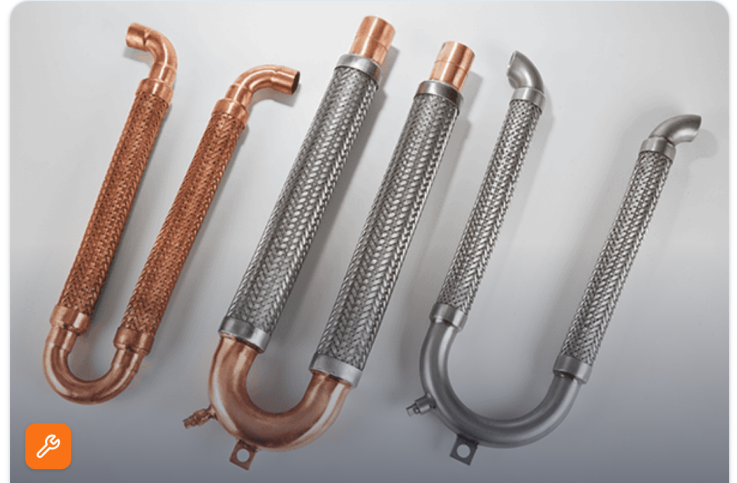
Each division is a precision specialist — together they deliver a complete portfolio of electromechanical, metal, sealing, and plastic components from a single U.S.-based partner.



Guardian Electric

Products: Solenoids, relays, switches, control grips

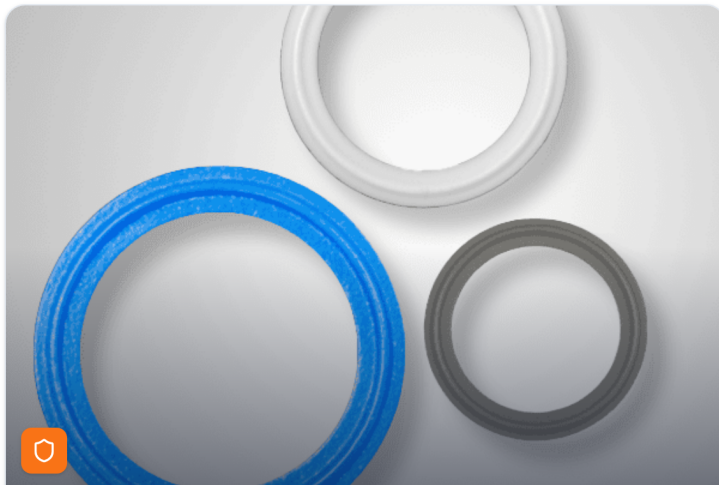
- Reliable actuation & precision control
- Mission-critical switching
- Hermetic sealing options
- AS9100 / ITAR certified



Flex-Weld

Products: Flexible metal hose, bellows, expansion joints

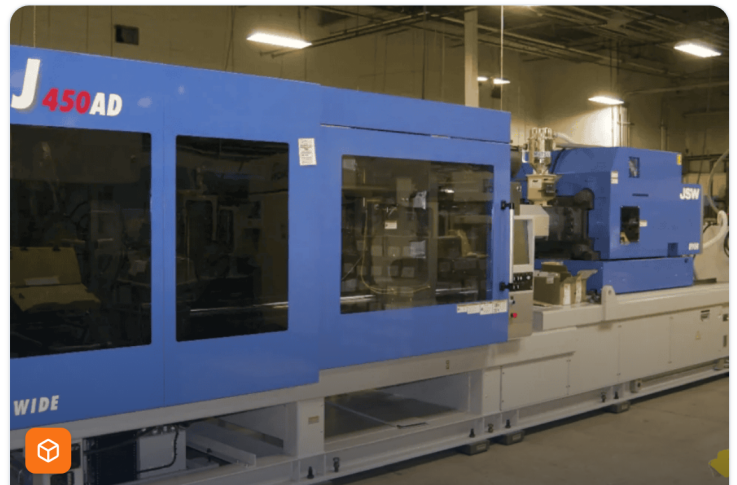
- High-pressure & high-temperature rated
- Vibration & thermal expansion compensation
- Custom lengths and end fittings
- Cleanroom-compatible options



Western Consolidated Technologies (WCT)

Products: PTFE seals, rubber seals, gaskets, custom profiles

- Chemical & solvent resistance
- Cryogenic to high-temp performance
- Tight tolerances & custom geometries
- FDA / USP Class VI compliant grades



Advanced Molding Technologies (AMT)

Products: Injection molded & over-molded parts

- Lightweight, durable engineered plastics
- FDA-grade materials available
- Complex geometry capability
- Multi-material assemblies

Mission-Critical Markets

Kelco components are trusted where failure is not an option — across the most demanding industries in the world.



ITAR / AS9100



Aerospace & Defense

Sealing, control, and actuation solutions for aircraft and defense systems. AS9100 certified, ITAR registered.

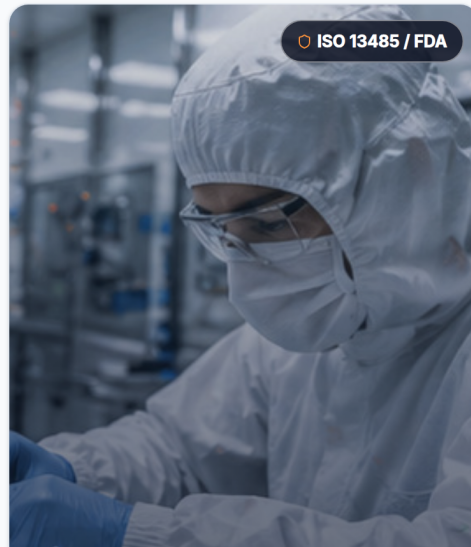


ISO 9001



Energy & Power Generation

Components for turbines, boilers, and energy infrastructure requiring extreme durability and ISO 9001 compliance.



ISO 13485 / FDA



Medical & Pharmaceutical

Precision sealing and molded components for clean and regulated environments. ISO 13485 and FDA compliant.



ISO 9001



Transportation & Industrial

Durable components for automation, heavy vehicles, and industrial equipment under demanding cycles.

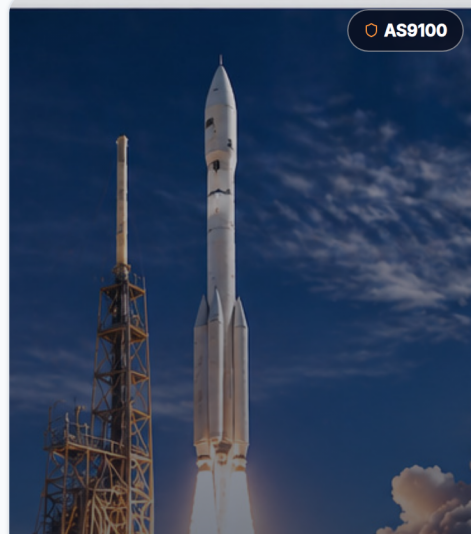


FDA Compliant



Food & Beverage

Sanitary sealing and FDA-compliant molded solutions designed for hygienic process and fill-and-seal applications.



AS9100



Space & Rocketry

Precision solenoids, seals, and flex assemblies for propulsion, flight control, and cryogenic system requirements.

INTEGRATED SOLUTIONS — ONE PARTNER FOR COMPLETE ASSEMBLIES

Guardian Electric



Flex-Weld



WCT



AMT



Complete Integrated Assembly

Engineered for Real-World Applications

Kelco solutions are designed for specific system-level challenges that demand precision, durability, and compliance.



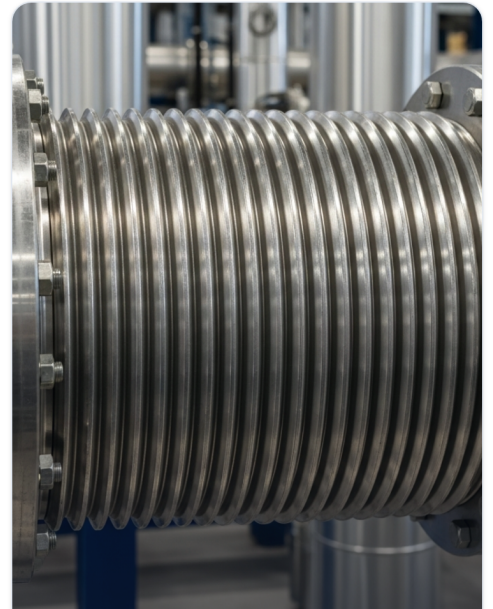
Fluid Sealing in High-Pressure Environments

Sealing solutions for high-pressure fuel systems, hydraulic systems, and aggressive chemical environments—including PTFE and rubber compounds rated for extreme media



Motion Control & Actuation Systems

Solenoids, relays, and control grips for precise, responsive actuation—used in aircraft flight controls, industrial automation, and defense systems



Thermal Expansion Management

Bellows and expansion joints for turbine exhaust systems, steam lines, and aerospace structures where temperature-driven movement must be absorbed reliably



Vibration Isolation & Durability

Flex assemblies and molded components for rotorcraft, ground vehicles, and heavy industrial equipment where shock and vibration degrade standard components



Precision Control Interfaces

Cockpit grips, joysticks, and operator panels built to MIL-SPEC requirements for fixed-wing aircraft, helicopters, and mission-critical ground systems



Fluid Transfer & Containment

Flexible metal hose and sealing assemblies for cryogenic lines, hydraulic circuits, and fuel transfer in aerospace and energy infrastructure

Certified Excellence

Kelco operates rigorous quality management systems aligned with the most demanding international standards. Our continuous-improvement culture, lean manufacturing principles, and advanced in-house testing labs ensure consistent, reliable performance — from prototype to full-scale production. Every component ships with full traceability and documentation.

- Advanced In-House Testing Labs**
Environmental, mechanical, electrical, and functional validation capabilities at every manufacturing stage
- Continuous Improvement & Lean Manufacturing**
Systematic defect reduction, waste elimination, and process optimization across all divisions
- Strict Inspection & Validation Protocols**
Dedicated QA teams applying rigorous inspection standards at each manufacturing phase

OFFICIAL REGISTRATIONS

- AS9100
- ISO 9001
- ISO 13485
- ITAR Registered

Full quality documentation, certifications, and material traceability reports available upon request.

WHY CUSTOM

Why Custom-Engineered Solutions Matter

Off-the-shelf components often fall short in mission-critical applications. Standard parts are designed for the average case — not for your specific operating environment, tolerance requirements, or certification standards.

- Improved Performance & Reliability**
Components designed for your exact conditions outperform generic alternatives across every lifecycle metric
- Reduced System Complexity**
Purpose-built parts integrate cleanly, reducing assembly steps, failure points, and long-term maintenance burden
- Optimized Material Selection**
The right material for your temperature, chemical, pressure, and mechanical requirements — selected by engineers, not catalogs
- Longer Product Lifecycle**
Engineered to last in your environment, reducing replacement frequency, warranty exposure, and lifecycle cost

CONTACT US

Partner with Kelco Industries

From concept to production, Kelco is your single-source partner for solving complex engineering challenges.

Fewer Suppliers

Electromechanical, metal, sealing, and plastics under one roof — one PO, one point of accountability

Proven in the Field

AS9100, ISO 9001, ITAR — qualified for aerospace, defense, medical, and energy programs

U.S.-Based Manufacturing

Reliable ITAR-compliant production backed by quality systems built for your most demanding programs



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