

Hyspan Family of Companies

Hyspan Group

Advanced flexible solutions





500+ employees globally



7 global factories



Inclusive & diverse culture



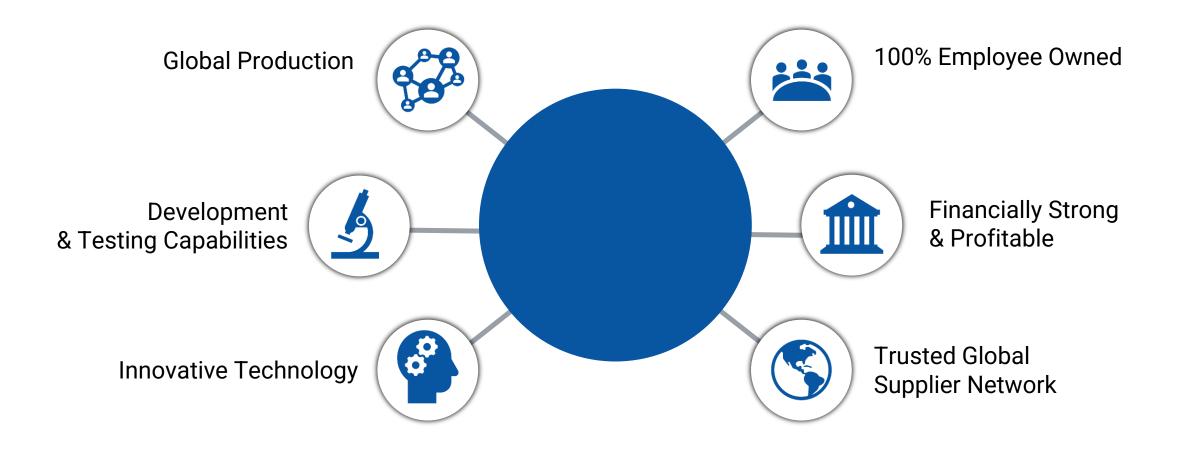
4 powerhouses of innovation & expertise in bellows, hoses & thermal management



Corporate Structure



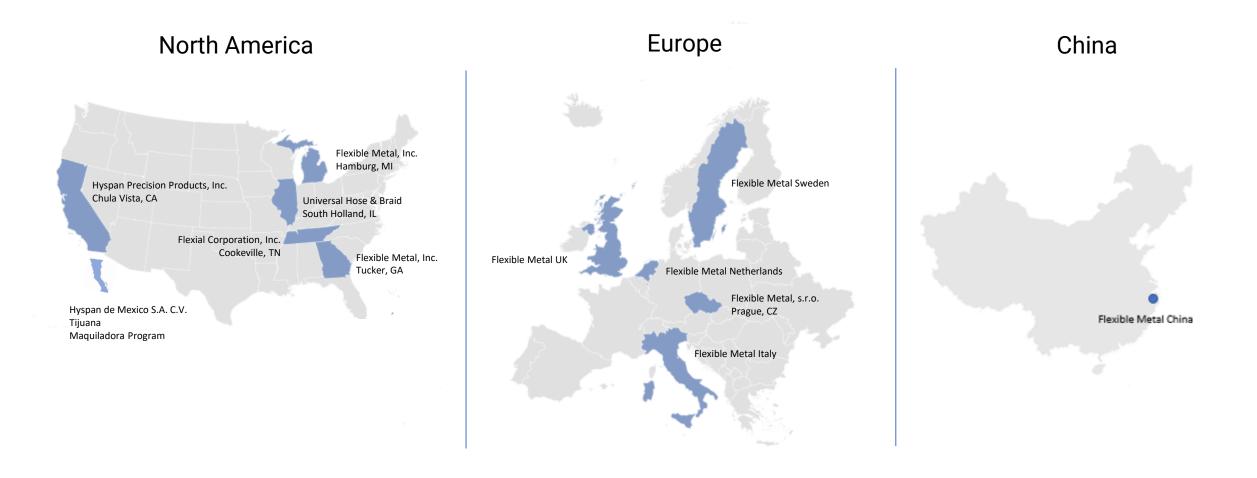
Overview of Hyspan Companies



Hyspan,



Global Footprint



Employee Stock Ownership Plan

In 2017, an ESOP was established as an employee benefit plan that gives workers ownership interest in the company.

Because our employees have stake in our company's success, quality & customer service are our #1 priorities. When our customers win, we win!

ESOP companies account for over half of Fortune Magazine's "100 Best Companies to Work for in America" *



EXPANSION JOINTS



Hyspan.

Hyspan Markets

Commercial & HVAC



Defense



Industrial Process



Scientific & Laboratory



Petrochemical

Power Generation





Shipbuilding & Marine



OEM

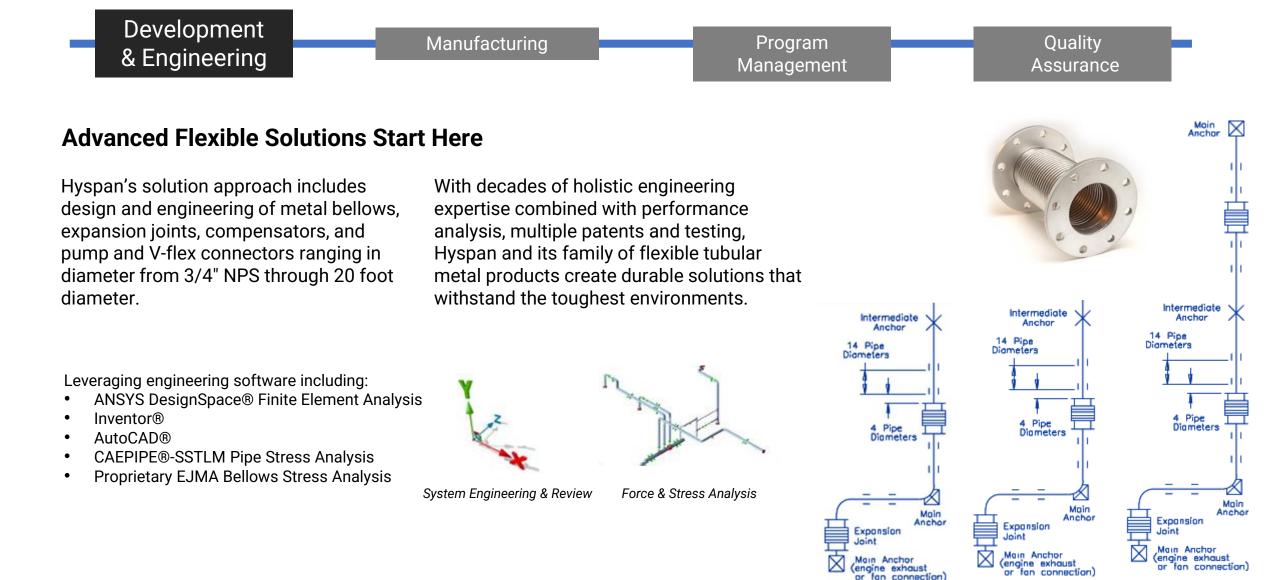




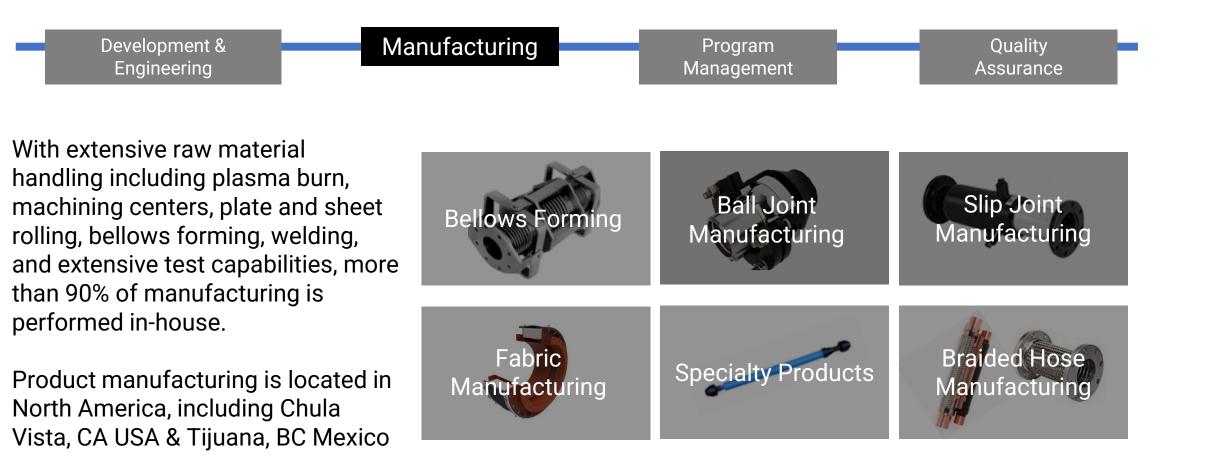
Customers



















Advanced Flexible Solutions. Advanced Customer Service.

With global engineering, manufacturing, and program management, resources are always available to assist and keep your projects on track.



Specialized products call for specialized support.

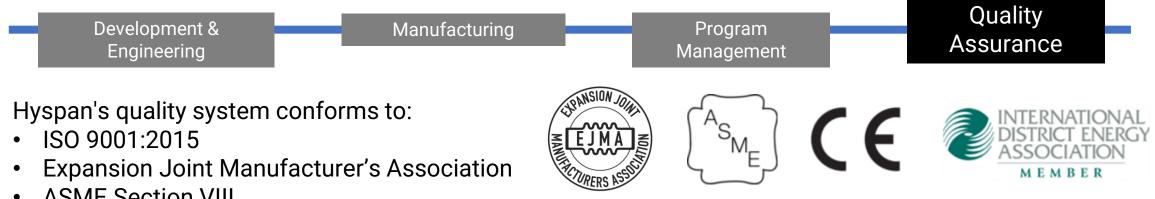
It is frequently necessary to design and fabricate the forming machines, tools and fixtures, and test apparatus to support product development. Our fabrication facilities include tool and die and machine tool fabrication capabilities to provide prototype and full production support.



Field services for better program management

High risk and critical systems can require "First Time Right" level expertise and schedule support. Our broad experiences with trained factory and representative personnel, supports site inspection and audits. Hyspan also provides, recommended solutions, reports, and field service installation for metal expansion joints, hose assemblies, and fabric expansion joints.





- **ASME Section VIII** ٠
- European Pressure Equipment Directive (PED) ٠



Cryogenic Liquid Nitrogen Testing



High Temperature **Endurance Testing**



Leak & Pressure Testing

Hyspan's quality assurance department is staffed with American Society of Non-**Destructive Testing (ASNT)** certified professionals qualified to perform liquid penetrant, air-jet, magnetic particle, ultrasonic, Helium leak detection, and radiography.

















Flexial Markets



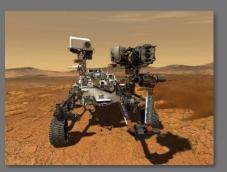
Commercial Aviation



Military Aircraft



Space Launch Systems



Space Vehicles



Missile Defense



Oil & Gas



Energy Distribution



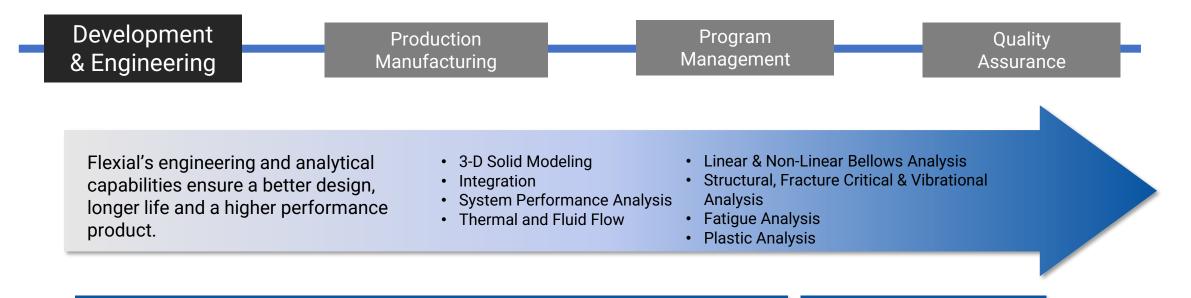
Medical Systems

FLEXIAL

Customers



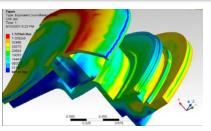
Capabilities



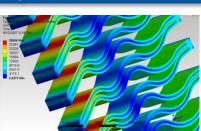
Comprehensive Fluid, Structural and Thermal Analysis Capabilities



Fluid Analysis Dynamic compensation and surge analysis



Structural Analysis Non-linear fatigue life and modal analysis



Thermal Analysis Steady-state, transient and heat transfer analysis

Engineering Testing Capabilities

Hydraulic cycle testing (2 systems) <5000psig at temperature Variable Fluid type Fully programmable Hydraulic cycle testing (1 systems) <3500psig at temperature Variable Fluid type Temperature Testing -67 to 275 F 2 Large chambers (4'x4'x4') 1 small (20"x20"x20")

Capabilities



Engineering or Qualification Testing

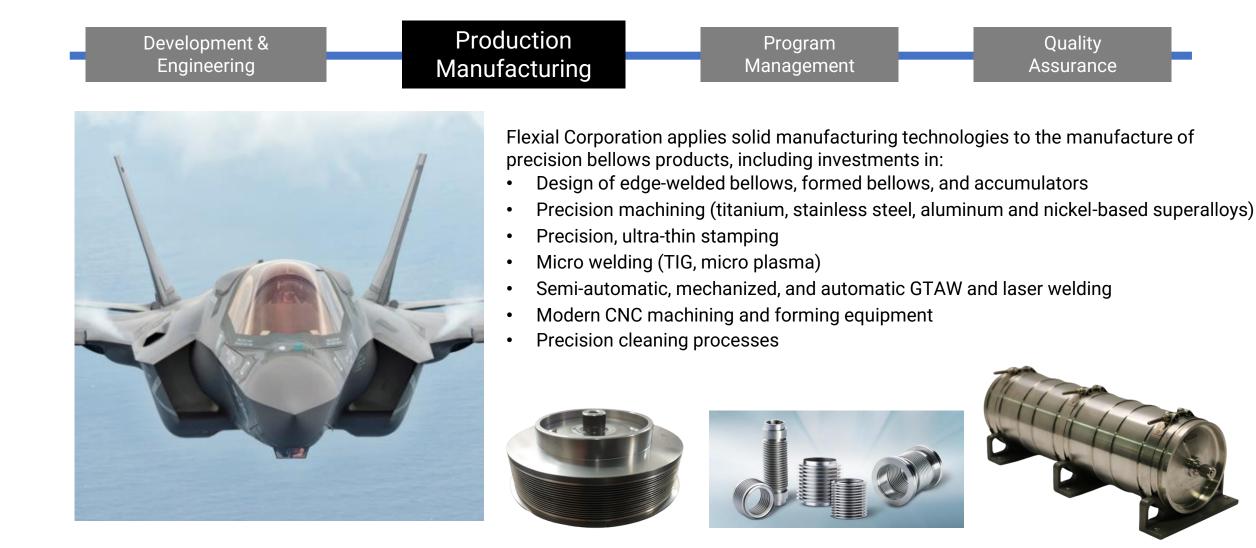
- Hydraulic Pressure Testing Static & Dynamic
- Pneumatic Pressure Testing Static & Dynamic
- Helium Leak Testing
- Data Collection

Production Testing

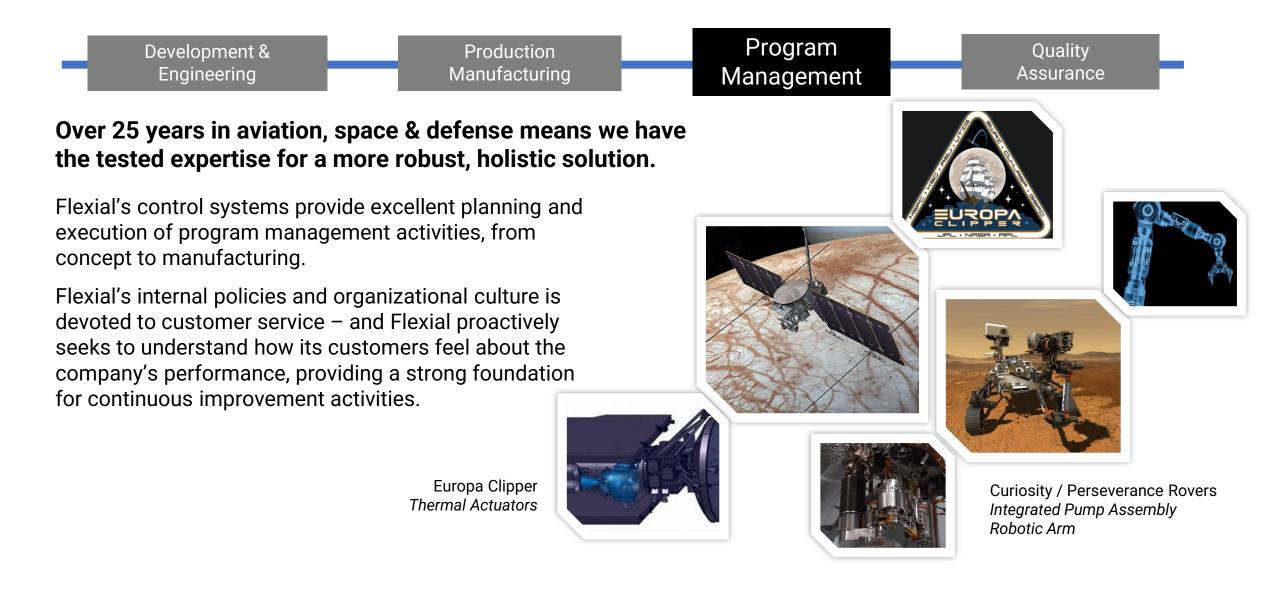
- Spring rate testing (3 systems)
- Pressure vs displacement testing
- Pneumatic cycling (2 systems)
- Helium MST
- Proof and burst testing
- Metallurgical sample preparation and evaluation



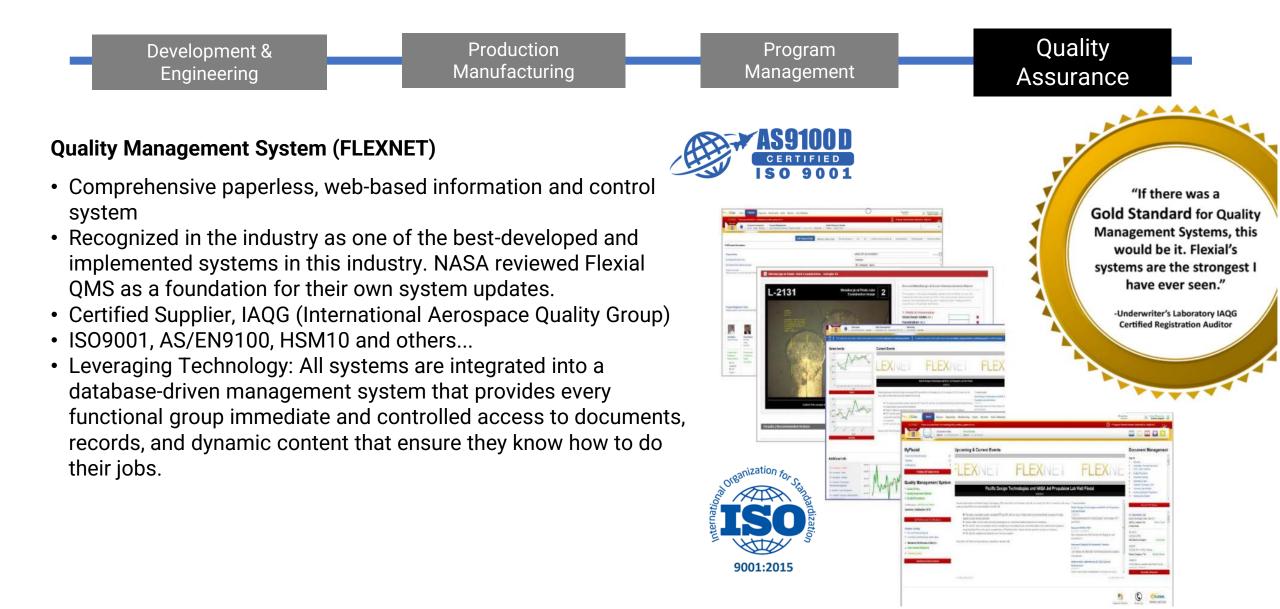
FLEXIAL













Creating flexible solutions that last.







Automotive



Power Generation



On-Highway



Off-Highway







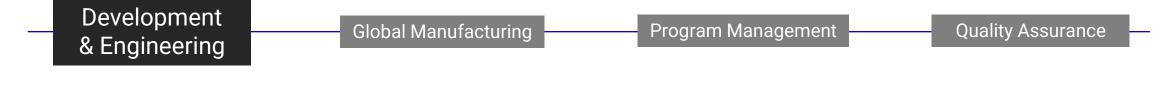
EV



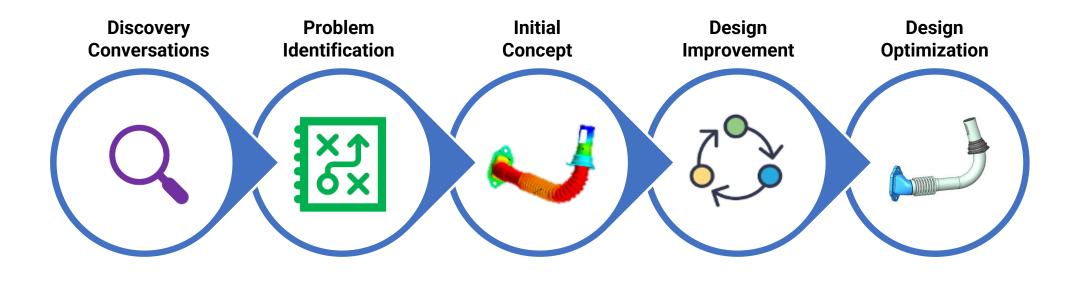




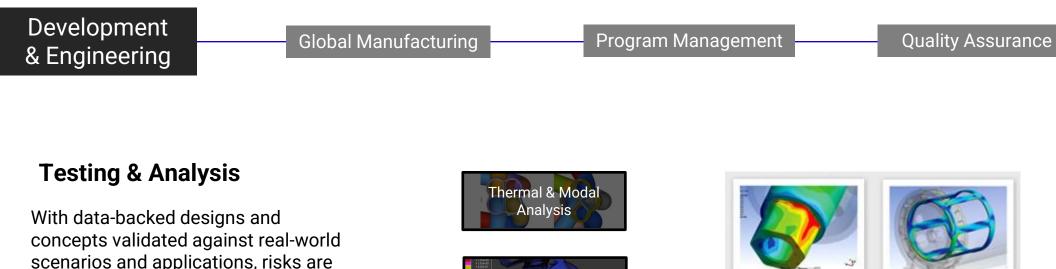




Flexible Metal's Design Process



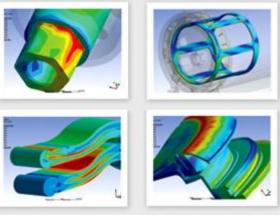




scenarios and applications, risks are minimized to protect against defects and other system failures.







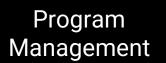






Development & Engineering

Global Manufacturing



Quality Assurance

From design concept to production, our engineering experts collaborate with you through the most stringent requirements to design a system that lasts.

What you can expect from Flexible Metal:

- Fast, knowledgeable communication
- Data-backed designs for real-world application
- World-class engineering & customer support
- Collaborative workspace for instant updates
- Global manufacturing capabilities



Development & Engineering

Global Manufacturing

Program Management



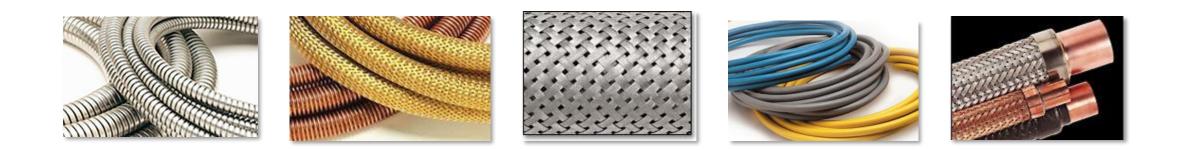
We adhere to the industry's most strict regulations to provide you with **quality solutions you can trust**.

- Design analysis & performance testing
- Engine test cells rated to 900 horsepower
- Pressure tests
- Flow testing
- Leak tests
- Quality inspections











UHB Markets

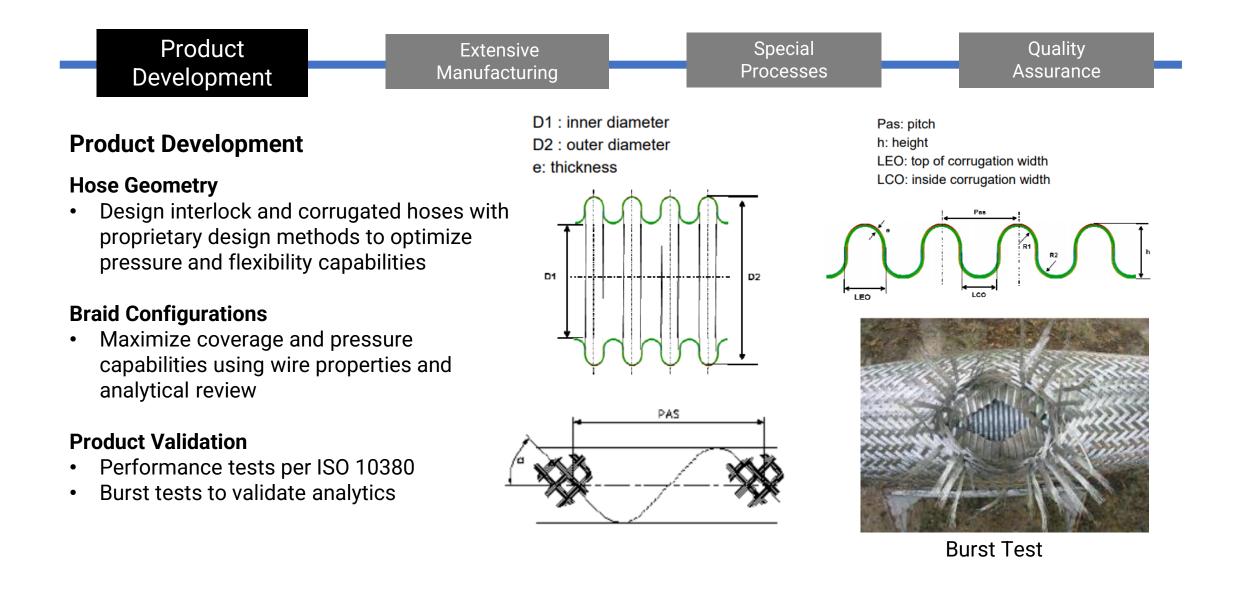




Customers











Extensive Product Range

Interlock

- Wide variety of styles and types
- Diameter range: 1/16" to 16"
- Materials: Hot dipped galvanized, tin plating, 304, 316, and 321 series stainless, and Inconel 625

Braid

- Carriers: 24, 36, 48 and 96
- Beamed, braided braid, and flat braid with basket and diamond weaver
- Materials: 304, 316, 321, nickel alloy, and copper

Tube Production

- Diameter range: 1/4" to 16"
- Materials: 316, 321 stainless, high nickel alloys, bronze

Corrugated Hoses

- Helical bronze: ¼" to 2 ½"
- Helical strip welded B1 Supra, B2 DUO: 3/16" to 6"
- Annular: ¼" to 16"
- Materials: 316, 321 stainless, high nickel alloys

Hose Assemblies

Wide range standard and custom assemblies

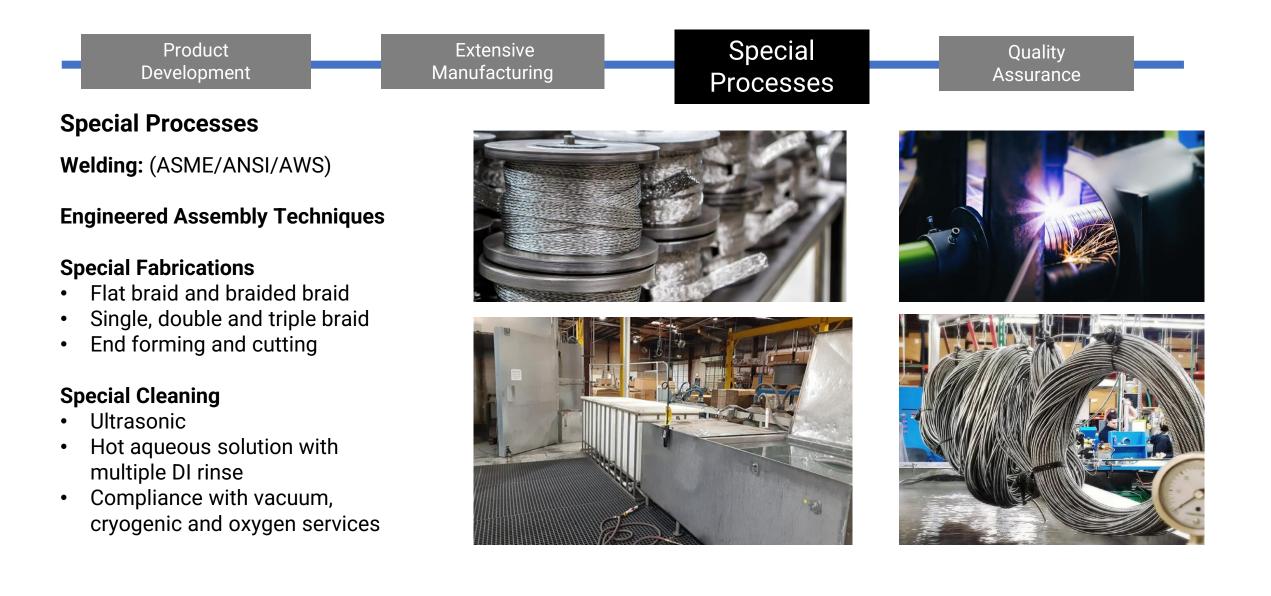




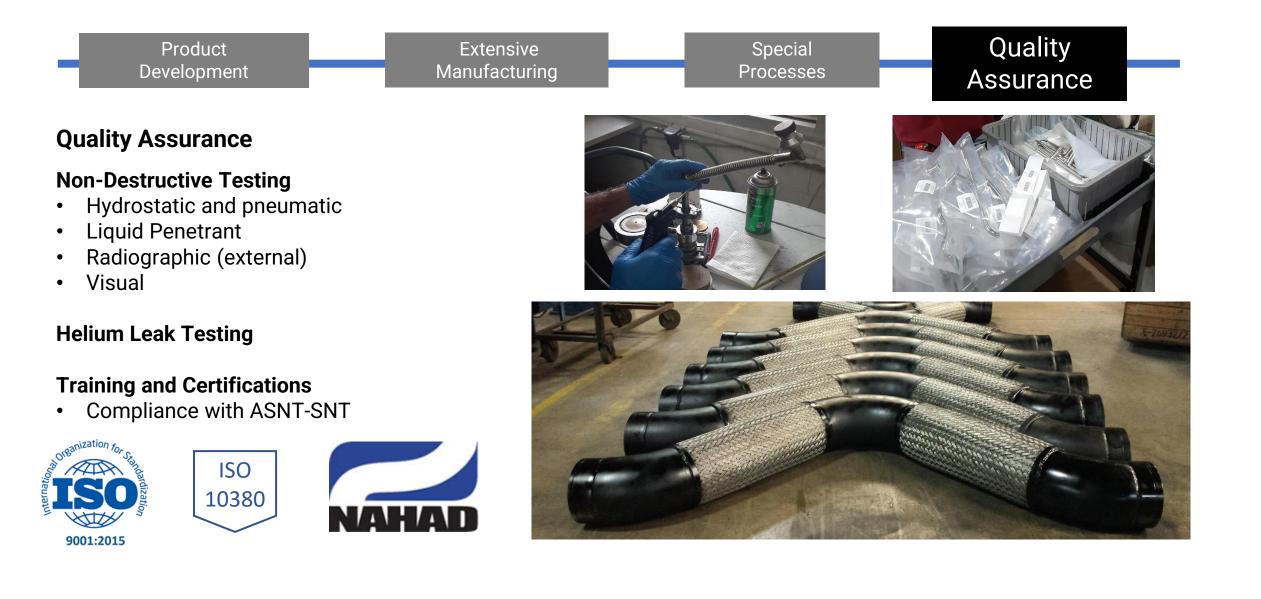














What our customers say about us...

"I've talked to other engineers at Lockheed who interface with many other companies, and I'll have to hand it to you: you guys are simply the best to work with. I have not seen a team like yours who performs to a high standard and at the same time continues to aggressively look for ways to improve every aspect of your business."	Lockheed Martin Corporation	LOCKHEED MARTIN
"We have no other supplier that can turn around data this fast, outstanding engineering support."	MAN, Bus & Truck	MAN
"We couldn't find anyone to match the quality you ship out to us."	CompuVac	
"Hyspan's Employees are truly the best, it makes our job easier knowing our needs are always met. Sometimes they even make the impossible, possible. Thank you!"	Associated Steam Specialty	



100% employee owned

"The Hyspan group prioritizes service and excellence above all to provide our customers with innovative, quality solutions and a world-class experience."

-Eric Barnes, Hyspan Group President & CEO

Questions? Contact: Phone Email:

