

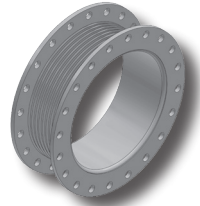
***Expansion Joints, Hose Assemblies,  
Manifolds & Piping***





**All Four Metal Technologies:**

- ◆ Bellows Joints
- ◆ Braided Connectors
- ◆ Packed Slip Joints
- ◆ Ball Joints



**Bellows Joints**  
Ø3/4" to Ø20"



**Braided Connectors**  
Ø1/8" to Ø34"



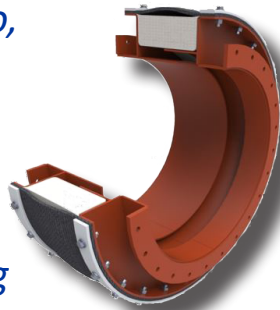
**Hyspan-Barco Ball Joints**  
Ø1/2" to Ø48"



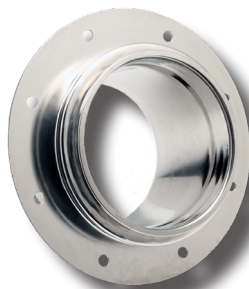
**Perma-Pax Slip Joint**  
Ø1-1/4" to Ø48+"


**Expansion Joints & Connectors:**

- ◆ Exhaust: Turbine, Reciprocating, Turbo, Chemical Laser
- ◆ Fuel
- ◆ Bleed Air
- ◆ Steam & Fire
- ◆ Sea Water & Cooling
- ◆ Gasses: Nitrogen, LOX
- ◆ Nuclear Effluent
- ◆ Pump Connector
- ◆ Air Conditioning
- ◆ Loading/Unloading
- ◆ Transfer Lines
- ◆ Hull Flex
- ◆ Shaft Seals
- ◆ Manifolds
- ◆ Engine Drains
- ◆ Overboard Adapters



**Fabric Joints**



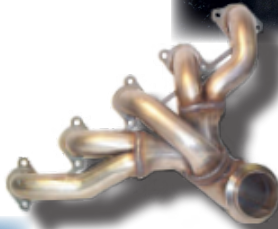


# Performance, Reliability, Safety

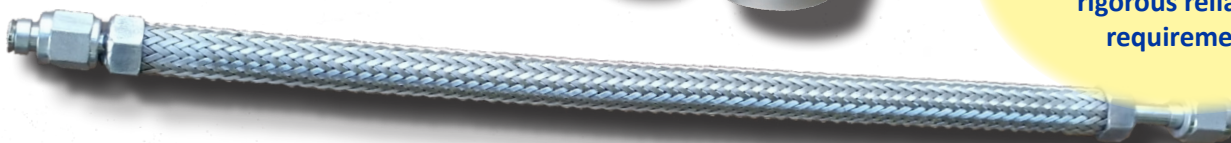
Hyspan has supported Defense Industries for 45+ years.

Our design, manufacturing capabilities, and emergency services have earned a distinguished reputation and various worldwide awards.

Hyspan has extensive research and development capabilities.



Hyspan manufactures hundreds of flexible metal hose configurations to meet rigorous reliability requirements

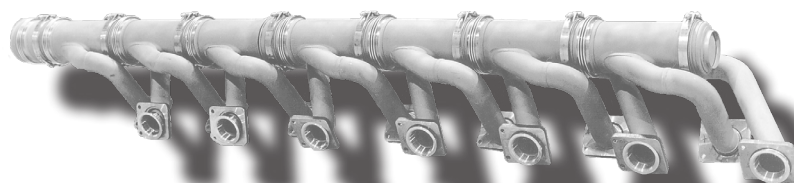
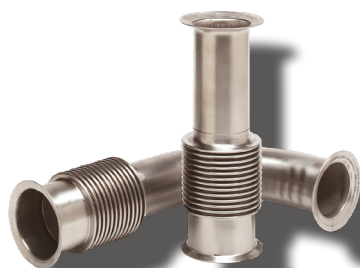


 **Hyspan.**  
EXPANSION JOINTS

**Flexider**  
INDUSTRIAL

# Advanced Defense Solutions

Performance, Reliability, Safety



**THE HYSpan GROUP includes:**



## **Specifications:**

EJMA REGISTERED  
ISO 9001:2015  
MIL STANDARDS (MIL-STD)  
ASME - ASNT - ASTM

## **Testing:**

MIL-DTL-901E Shock  
MIL-STD-167-1 Vibration  
Pressure ♦ Liquid Penetrant  
MAS Spectrometer Vacuum  
Radiography ♦ Magnetic Particle  
Cryogenic ♦ Cycle Fatigue  
Burst ♦ Thermal

## **Capabilities:**

Research & Development  
Pipe Stress Analysis  
Finite Element Analysis  
Comp. Fluid Dynamics  
Holistic System Evaluation  
Design, Repair, & Manufacture  
Ship Check Inspection & Witness  
Emergency Services



www.hyspan.com  
websales@hyspan.com  
+1 619-421-1355