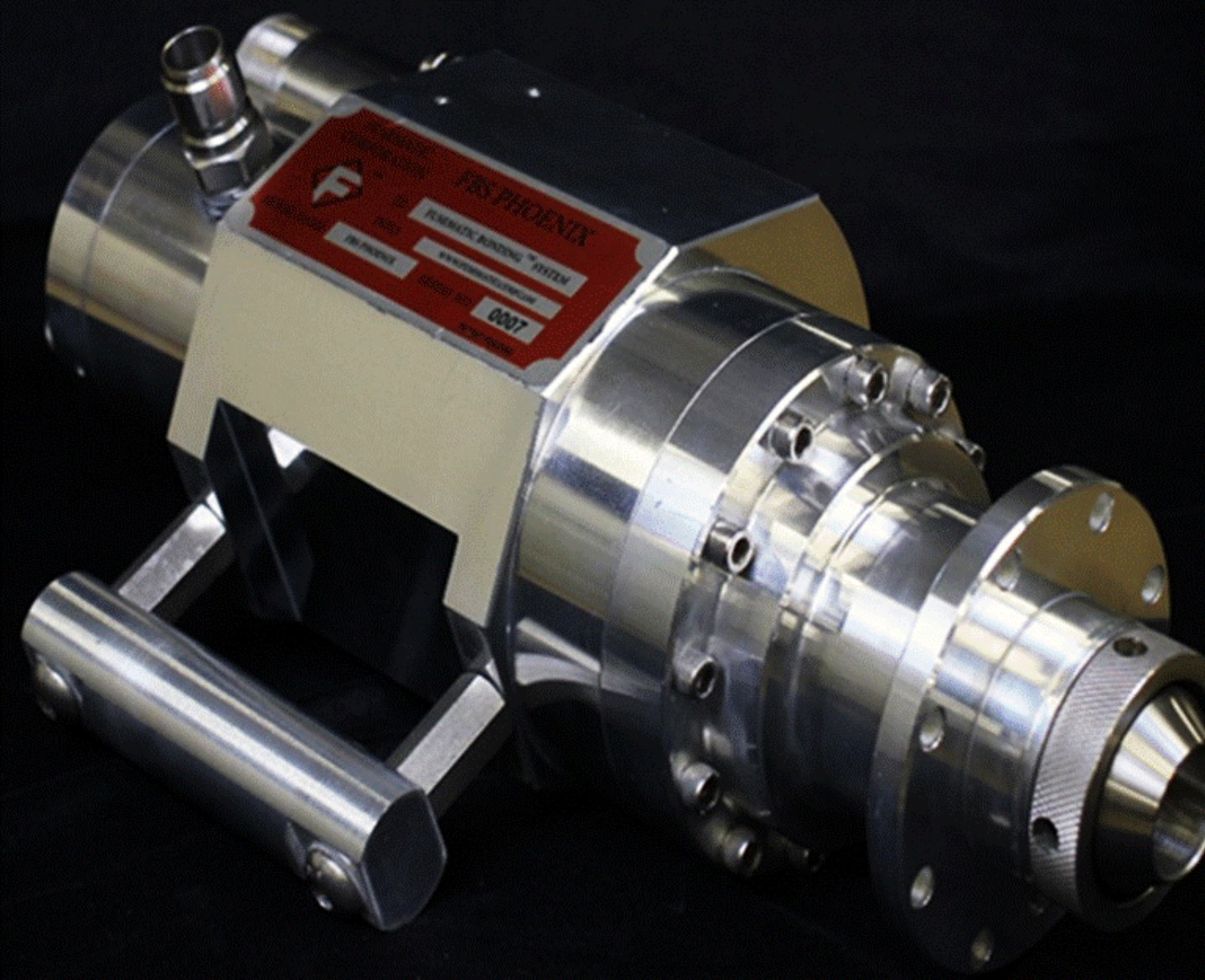




# FUSEMATIC™

*Empowering Ingenuity Through Better Bonding*



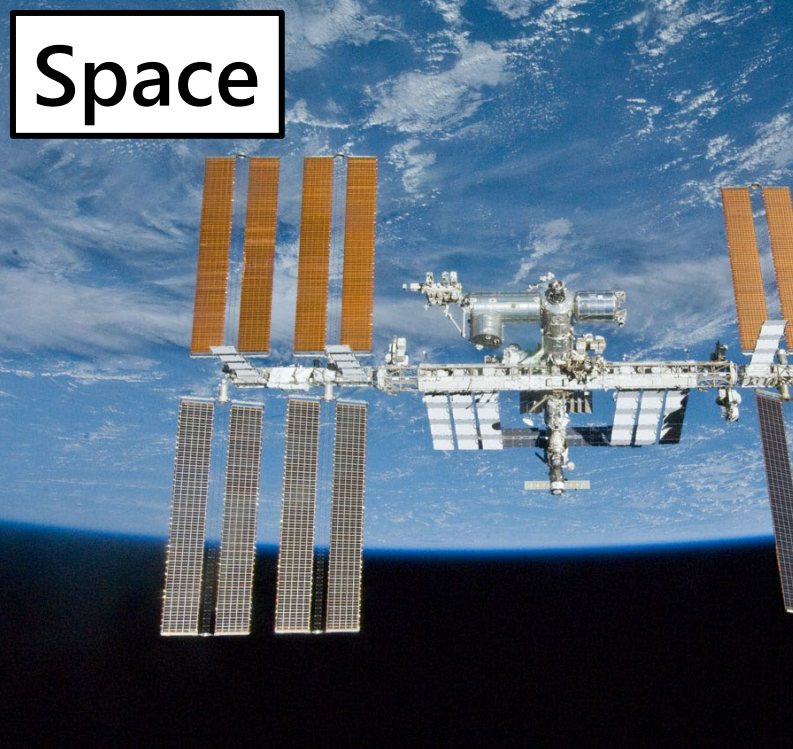
**Technical Overview**

**The FUTURE of Welding  
Engineered  
Fasteners...TODAY**



# TABLE OF CONTENTS

- A. Application
- B. Common Welding Problems Solved
- C. Cost Savings to Clients
- D. Flagship Product
- E. Product Accessories
- F. Certifications and Characteristics
- G. Our Team



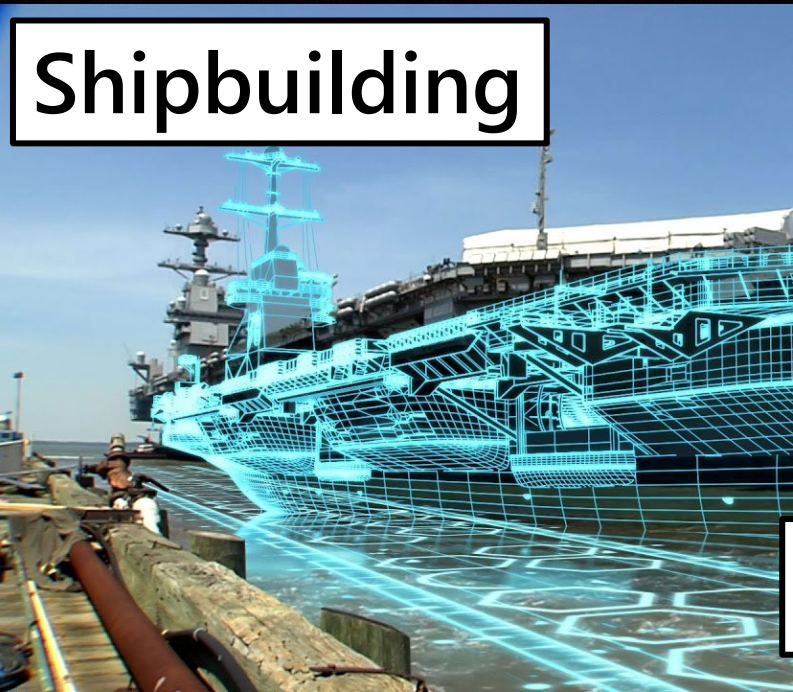
**Space**



**Manufacturing**



**Military**



**Shipbuilding**



**Energy**

**Wide Applications**



## Common Welding Problems Solved with Our Solution

Traditional, “arc” welding methods are:

**Dangerous:** 2013-2017, welding tools started 1,670 fires killing 10, injuring 75, causing \$132 million in damages

Problems

**Expensive:** The average age of welders in the U.S. is 55, causing a shortage of 400,000+ welders and increasing the length and cost of projects

**Damaging to the Environment:** Arc welding produces significant levels of dangerous air pollutants such as carbon monoxide and nitrogen dioxide

**Restrictive:** There are many situations when a sparkless, cold-work, permanent bonding process would be preferred over traditional hot-work stud and plug welding

Fusematic’s revolutionary portable friction welder is:

**Safer:** Releases & requires no gas, electricity, flame, spark, flux, rods

Solutions

**Less Costly:** No expertise required; anyone can learn to operate our technology within a few hours

**Greener:** Powered by clean air, an environmentally-friendly solution that significantly reduces pollution and advanced ESG and UN 2030 requirements

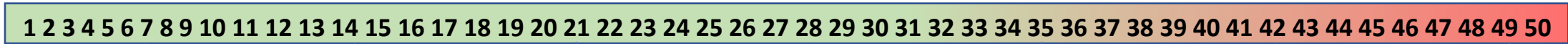
**Stronger:** Delivers stronger joint integrity than traditional welding and increases flexibility across a wide range of applications with a hand-held device that can be used by one person.



# Substantial Cost Savings: Energy Sector (\$2.45M)

A large, hydrocarbon storage tank roof/wall/floor repairs

Days Out of Service



## Traditional Welding

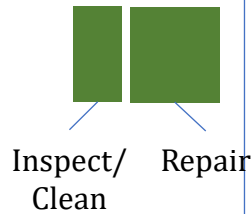
Cost: \$2.5 Million  
45 days down time



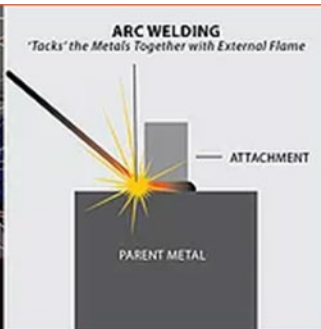
**Out of Service - 45 Days / Lost Margin Roughly \$1M**

## Fusematic Process

Cost: \$40,000  
Stronger Bond  
Safer  
No down time  
No lost margin

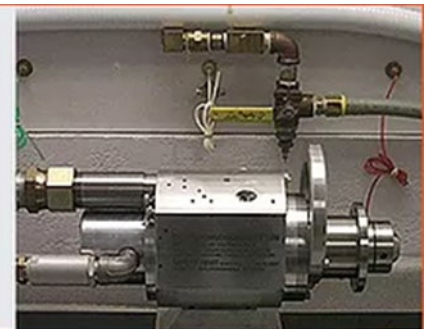
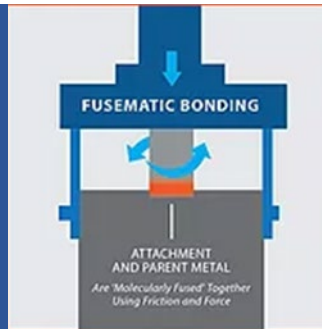


**Out of Service - 0 Days / Lost Margin Roughly \$ 0**



**Traditional**  
Significant time to prep for welding

**Fusematic**  
Minimal time needed

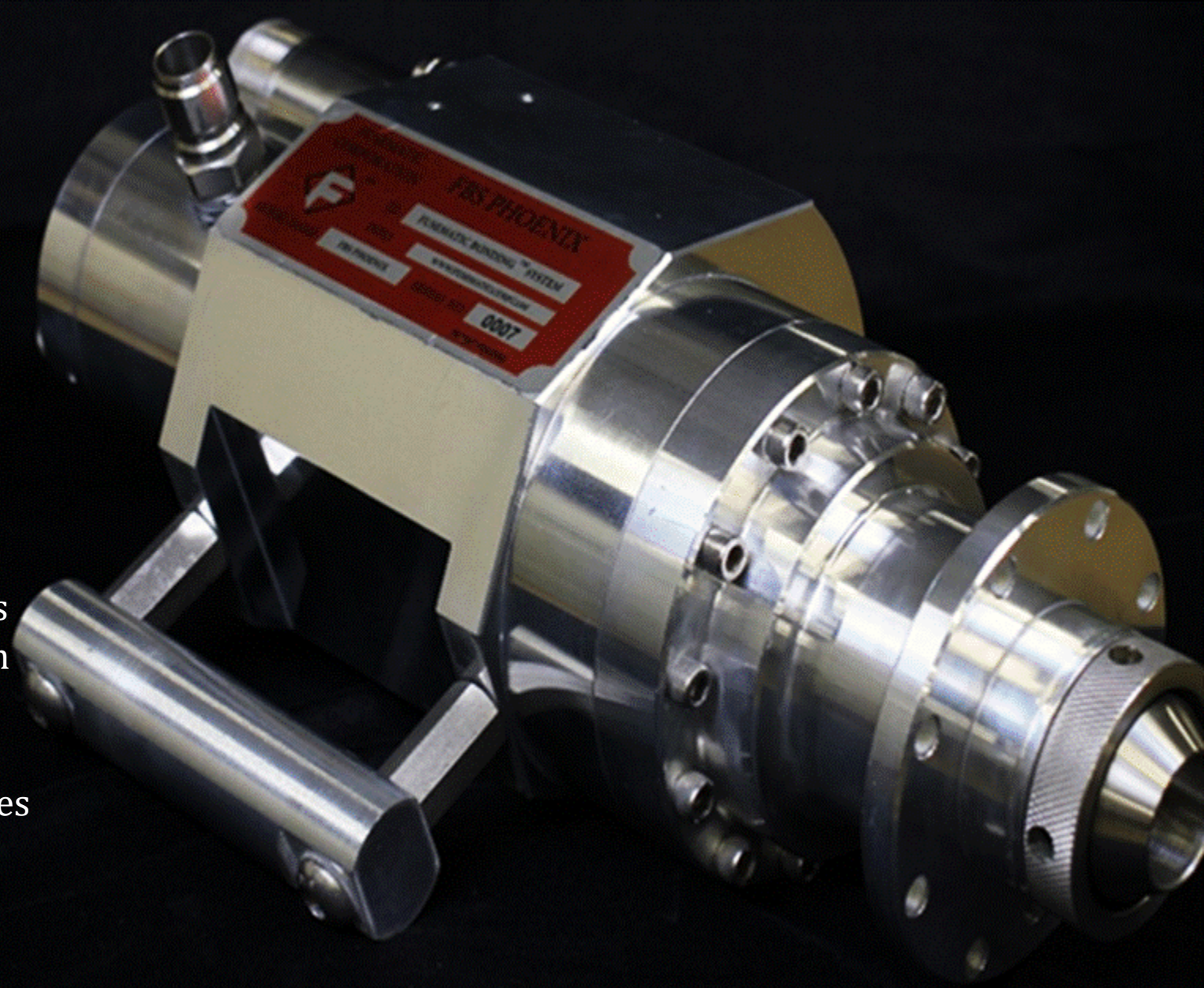


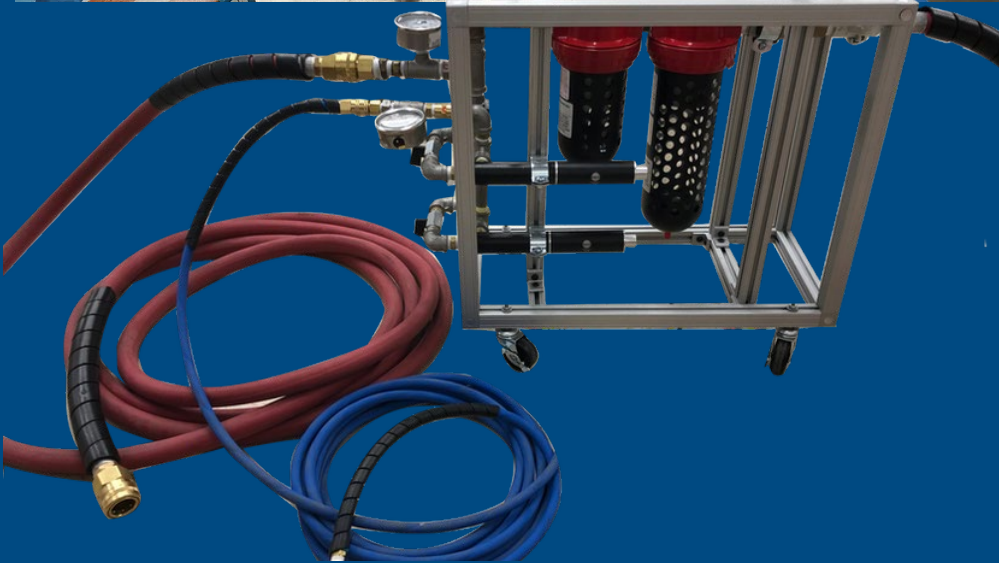


# Flagship Fusematic Bonding System Gen 3: FBS Phoenix™

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- API 653 Standard approved
- Bonds on a molecular level
- Welds in seconds, delivers a stronger bond
- No flame; mitigates risk of fires or explosions
- Pneumatically driven, environmentally clean
- Proprietary technology, patents pending
- Significantly reduces operator variability
- Works on dirty, rusted, painted or oily surfaces
- Easy to use, minimal training required
- Lease or Sale purchase, optionality
- R&D, training & education continuum
- FBS unit, peripherals, consumables





**A Line of Accessories and Replacement Parts is Available for Gen 3: FBS Phoenix™**



# Certifications and Characteristics

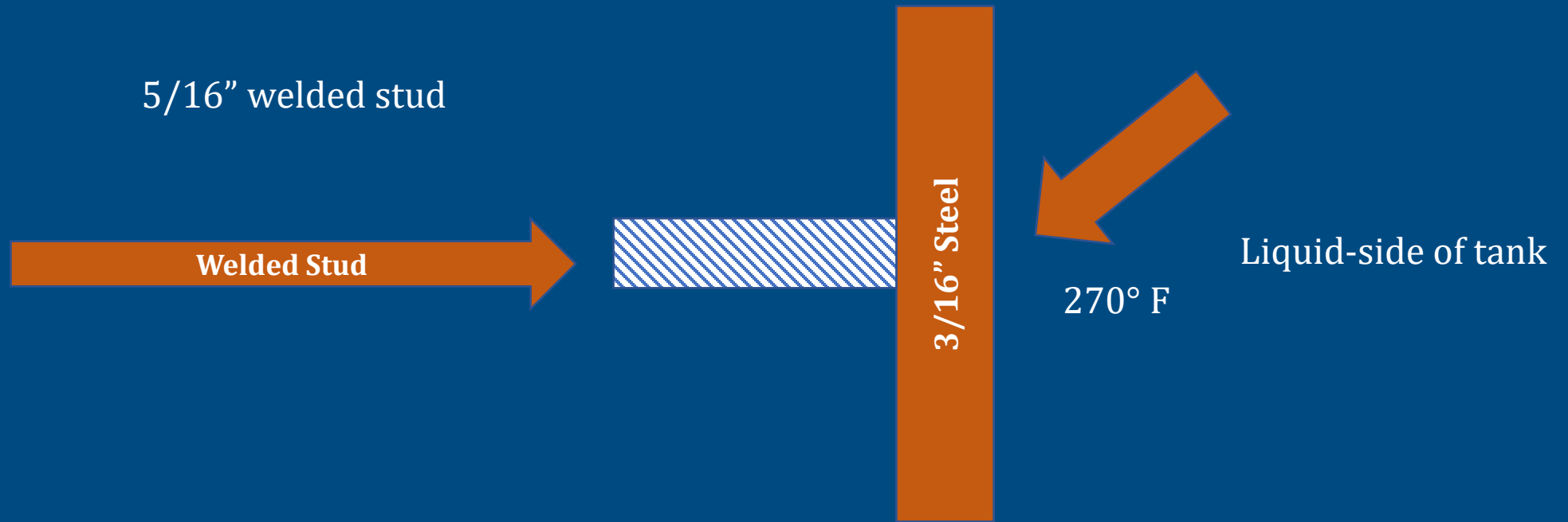
## *Gen 3: FBS Phoenix™*

- ASME IX Qualified, API Standard 653 compliant
- Torque achieved for 1/4"D, 5/16"D, 3/8"D, 1/2"D and 5/8"D Studs and Collets in various metallurgical materials
- OPERATING ENVIRONMENT: Below water line to 50' Fresh or Saltwater and deeper; can be used in Harsh Environments
- Welding Machine OPERATING TEMPERATURE: - 50°F through 120°F
- WEIGHT: 44 pounds // SIZE: 18" long, 7" high, 6" wide
- POWER SUPPLY: Compressed air 125 psi
- OPERATING HUMIDITY: 0 to 100% RH condensing (outdoor use)
- INTERFACES: Easy set-up with dial-in versatility to accommodate various applications. Easy to use start, stop and reset buttons for welding operations.





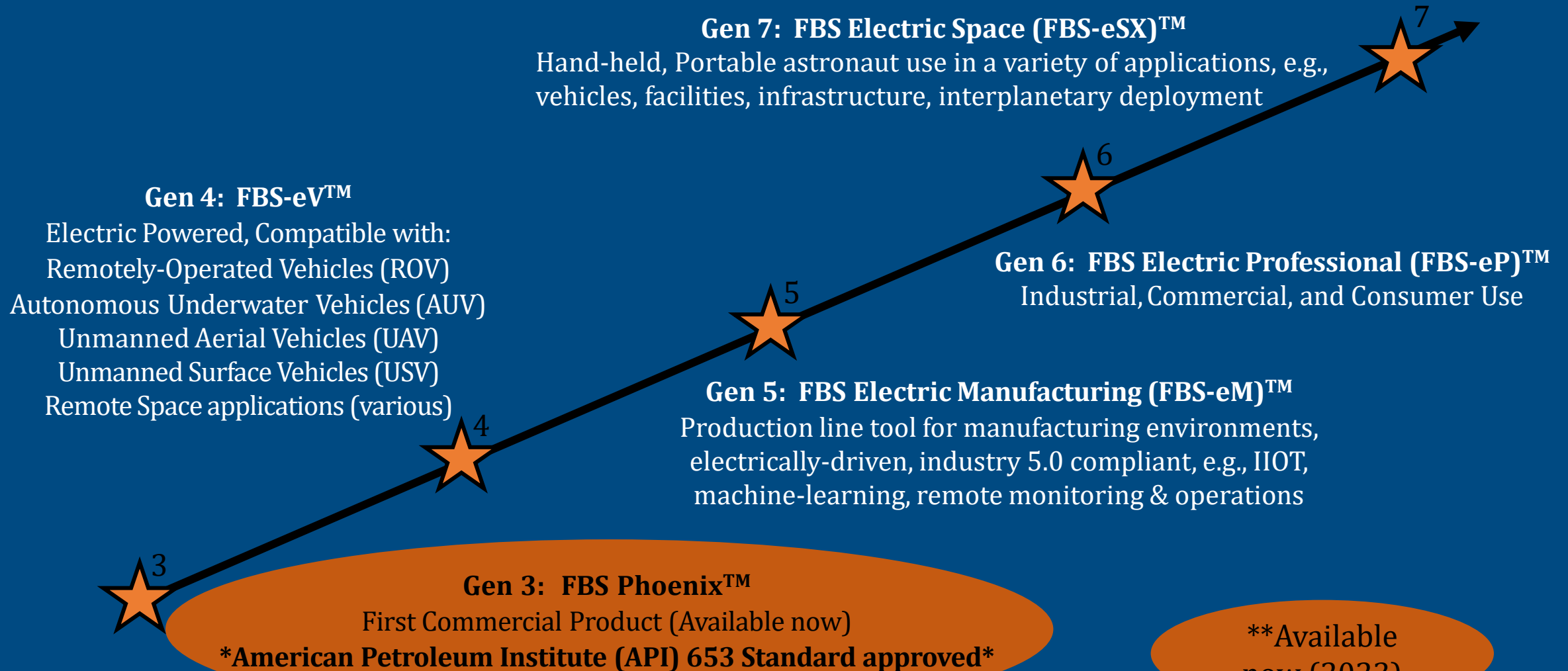
# Low Temperature Impact



Fusematic™ process does not require hot work permitting due to very low temperature impact during stud fusing process

# Technology Advancement

## *From the Ocean Depths to Outer Space*



# FBS Electric Professional (FBS-eP)<sup>TM</sup>

- FBS-eP<sup>TM</sup> is a portable, lightweight, electrically powered, rotary stud welder that will attach engineered fasteners using a precise balance of kinetic friction and pressure
- FBS-eP<sup>TM</sup> will deliver reliable, safe, and certified bonds that have been successfully implemented in our pneumatic FBS Phoenix using air pressure
- With FBS-eP<sup>TM</sup>, the ability to generate intrinsically safe bonds is made possible without the need for a constant air supply, as well as the gained maneuverability that comes with a smaller and untethered unit
- FBS-eP<sup>TM</sup> estimated production ready in October 2023

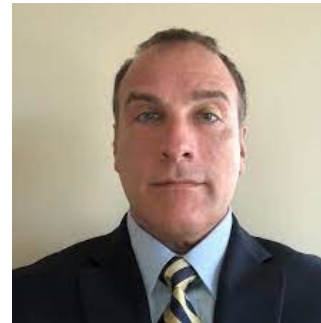


# Sponsors: Who Are You Investing With?



## President and CEO, John M. Griffin

- Co-Founder, Industrial Leak Sealers and The Safe Seal Company
- Co-Founder, Chairman, CEO, Forge Tech, Inc.
- Co-Founded and Co-Led \$47.5MM IPO in InVaTec



## EVP, Operations and COO, Joe Polanin

- Captain, U.S. Navy (retired) 30 years of service
- 20+ years successful CEO/COO, \$847M P&L
- Six global transformations, \$79.8B, 123K people



## VP, Welding Technology, Ernest D. Levert, Sr.

- 36 years Lockheed Martin Fellow
- Past President of the American Welding Society
- Past President of the Federation of Materials Societies