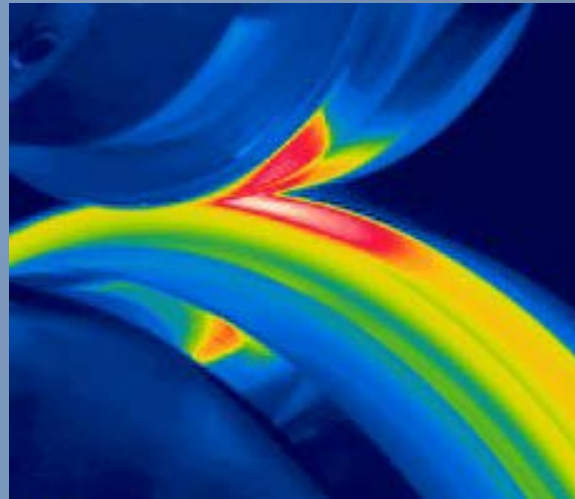
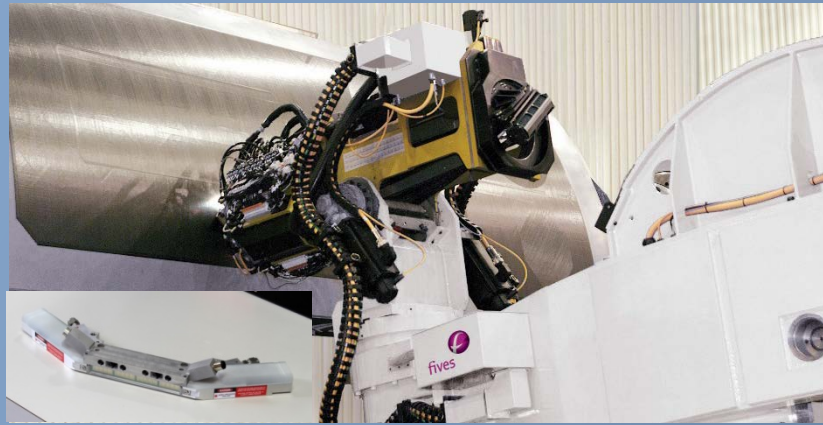




Engineering Research and Development  
Innovation and Product Development





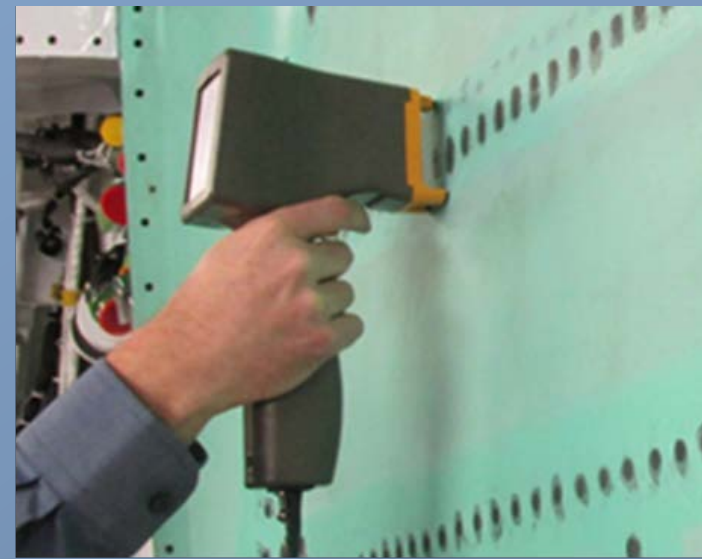
## Creare's Mission

### Creare *creates value* for clients by:

- **Solving** their most difficult problems
- **Innovating** to develop new technologies
- **Integrating** new technologies to products, systems, and processes
- **Transitioning** technologies to key systems, products, or programs

### Core Competencies in Advanced Manufacturing

- Extensive Facilities for Manufacturing R&D
- Process Modeling, Sub-Scale Testing, Full-Scale Demonstration
- Systems Development for Production Integration
- Technology Transition to Production



*The Fastener Measurement Tool (FMT) – Units Supplied to Lockheed for Filled and Unfilled Fastener Measurement on F-35*



*High-Speed, Additive Friction Stir Processing – Repair of Damage to Navy Ship Fuel System Piping and Navy Rotorcraft Components*



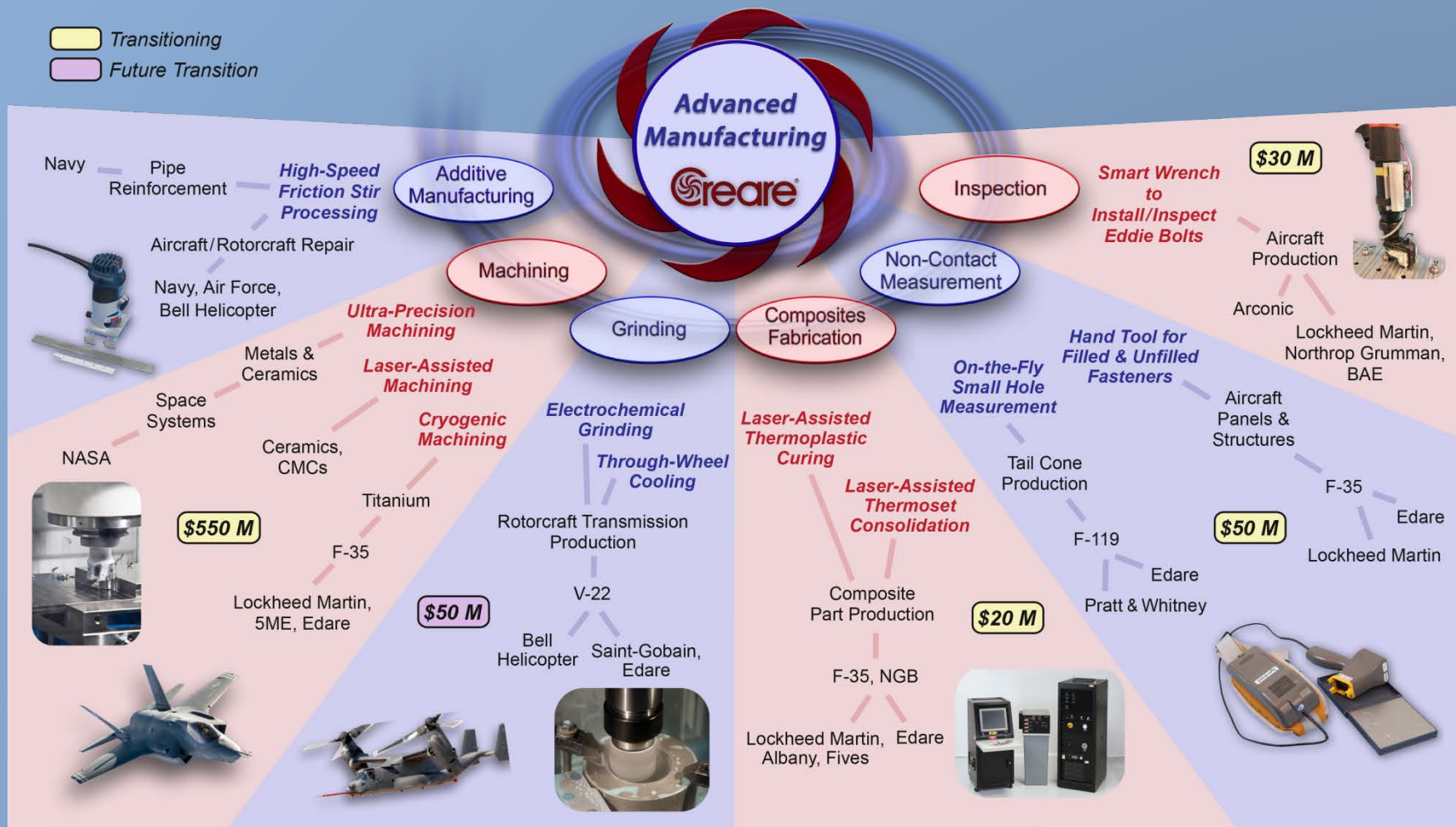
*Cryogenic Machining – Technology Developed at Creare Transitioned to F-35 Titanium Part Machining*

## Customers

Federal: Navy (NAVAIR, NAVSEA, MARCORSSCOM), Air Force, Army, NASA, F-35 JPO, V-22 PO

Commercial: Aerospace primes, other large and small businesses

Transitioning  
  Future Transition



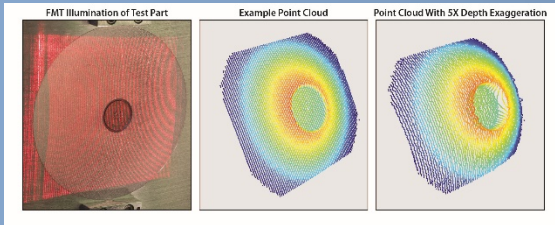
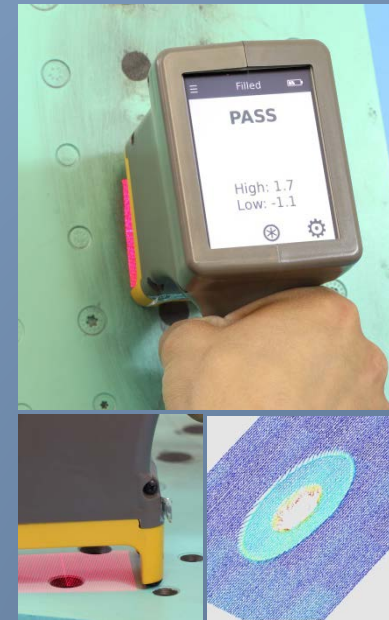
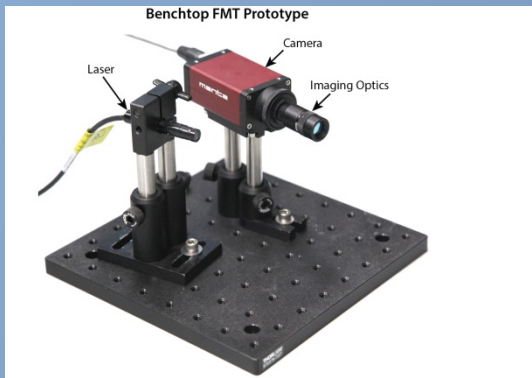
**Creare Advanced Manufacturing technology partnered with these companies will reduce manufacturing costs by nearly \$700 Million**



# End-to-End Solutions



*Product Innovation, Development, and Support  
(Creare Affiliate)*



*The Creare/Edare Team Uniquely Provides End-to-End Solutions  
From Initial Concept to Product*

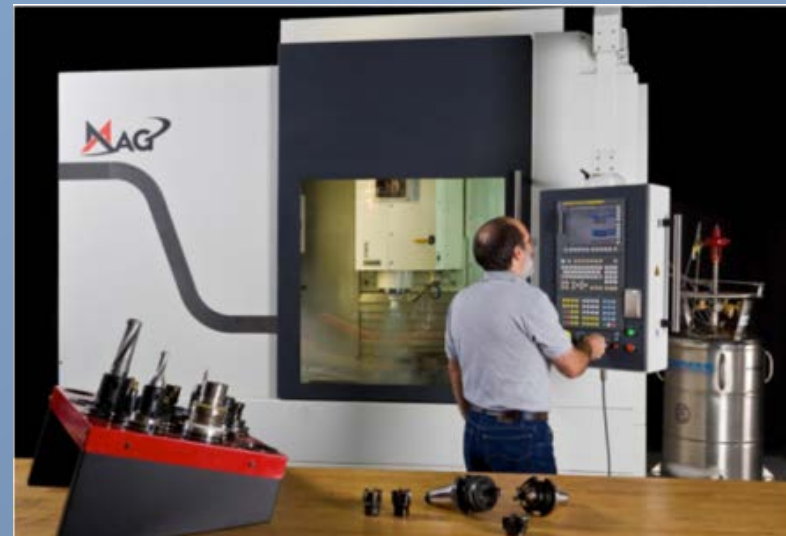


## Facilities

- 80,000 square feet of office, laboratory, and shop space
- Work ranges in scale from microscopic to large outdoor experiments
- Temperatures ranging from liquid helium to that of plasmas
- Multipurpose labs, chemistry lab, materials lab with SEM, cleanroom, electronics lab, cryogenic test facilities, and outdoor test pads
- Fabrication facilities support the full spectrum of Creare's work
- Emphasis on high precision and innovative fabrication techniques
- Machine shops equipped with CNC and manual lathes and mills
- Extensive welding, soldering, and brazing equipment
- Advanced Manufacturing Center: CNC machine tools, grinders, lasers, tool wear measurement systems, Kistler dynamometers, tool wear measurement systems, precision machine tools, and other hardware



*General Laboratory Space for a Wide Variety of Hardware Development*



*Vertical Machining Center:  
Lathe and Precision Machine Tool Equipped With  
Cryogenic Machining, On-Machine Measurement,  
Laser-Assist*



*Through-Wheel Coolant Systems for ID Grinding*