



***Military - Defense  
Electronic and Electromechanical  
Support Sustainment Services***

REPAIR ~ OVERHAUL ~ NEW BUILD  
REVERSE ENGINEERING ~ SYSTEM INTEGRATION ~ ENVIRONMENTAL SCREENING

[www.USDynamicscorp.com](http://www.USDynamicscorp.com)



U.S. Dynamics Corporation provides military and defense sustainment services for electronic and electromechanical systems and subsystems. With cost effective solutions to extend the life of legacy and mature systems, our extensive documentation library has over 4,000 technical orders which enables U.S. Dynamics to support a wide range of repair, overhauls and form, fit, function new builds.

Numerous mergers and acquisitions over the past 30 years resulted in many systems which were designed and manufactured in the 70's, 80's and 90's now requiring repair, overhaul or replacement. U.S. Dynamics has a talented technical staff that has the capability of providing innovative solutions for many of the systems and sub-systems that are still operating as well as to support new product builds.

Please contact U.S. Dynamics to discuss your requirements beyond those platforms and systems listed below.

### Sample of Supported Platforms

Aegis A-6 A-7 A-10 B-52 C-130 C-141 CH-46 E-2C E-3 F-4 F-5  
F-14 F-15 F-16 F-18 M60A3 Phalanx P-3 T-37 T-38 Tow Cobra

### Sample of Supported Systems

AAQ-9	APQ-109,120,122, 153, 157, 159	GPQ-T8	TPS-43, 63,70, 75
ALQ-20A 119,131,135,153, 184	APX-103	GRC-103	FPS-117
ALR-56,62, 69	ARC-164	MPS-T1	ARN-108
APG-63, 66, 68	FRC-178	MSQ-118	TPN-19, 24
APM-349, 427	FXQ-4	TPQ-36/37	ASQ-153
APN-171, 194, 224	MPQ-T3	SPN-41,41A	GKC-1

**Airborne and Ground Based Radar Systems, Avionics, Communication Systems, Indicators, Range Threat and Warning Receivers, Simulators, Electronic Counter Measures, Fire Control Radars, Identify Friend or Foe Transponders, Multi-Threat Emitter Simulator (MUTES)**

### Sample of Supported Subsystems

Power Supplies, RF and Microwave Transmitters and Receivers, Frequency Synthesizers and Multipliers, Pulse Forming Networks, RBDT's, TWT's, Transformers, Rectifiers, Low Noise and Power Amplifiers, Pulse Shaping and Trigger Amplifiers, Demodulators, YIG Oscillators, Waveguides, Scanners, Discriminators, Converters



Rantec Power Supply ALQ-184



Frequency Generator



Rate Sensor Unit F-16 Heads Up Display



TPQ-36/37



APG-66/68



FPS-117



# Core Competencies

**Repair, Overhaul and New Builds of Electronic and Electromechanical Modules, Assemblies, Systems and Subsystems**  
**Form, Fit and Function New Build Replacements**

**Reverse Engineering**

**Technology Insertion**

**Obsolescence Management**

**Environmental Screening**

**System Integration**

**Technical Documentation**

**Build-To-Print**

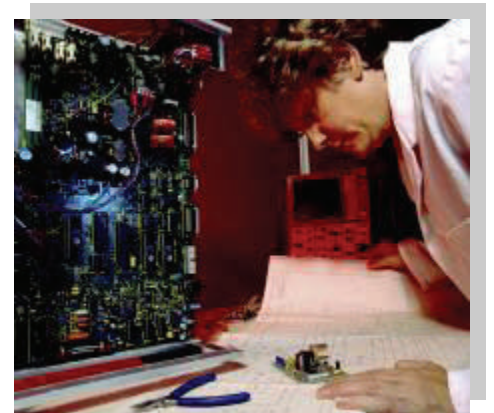
**Value Added Engineering**



*Technology Insertion*



*Reverse Engineering and New Build (e.g. Flight Directional Indicator)*



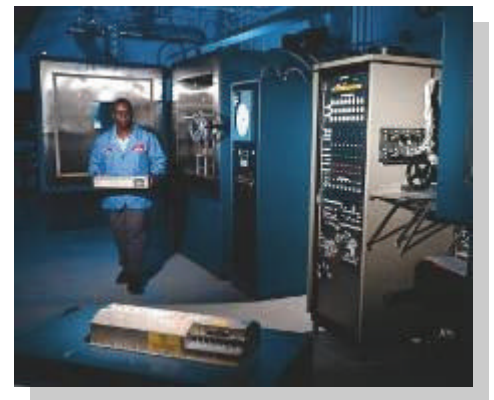
*Technical Documentation Services*



*Test, Teardown and Evaluation*



*Clean Room Assembly*



*In-House Environmental Screening Facility*  
Altitude, Shock, Vibration, Temperature, Humidity

- Cleared Secret Employees
- 24 Hour Security Patrolled Facility
- Secure Rooms for Classified Project Control

- Access To JEDMICS
- Extensive Documentation Library
- Resident QAR (Gov't. Appointed Quality Assurance Representative)

# Military and Defense Support Sustainment Services

## High Complexity Electronic and Electromechanical Repair, Overhaul, and New Build

*Value-Added Engineering*  
*Build-To-Print Assembly*

*Reverse Engineering*  
*System Integration*

Complex Electromechanical System Integration and Cabinets



US Dynamics provided value-added design and engineering resulting in product manufacturability **not possible** from original design.

Turnkey Project Support

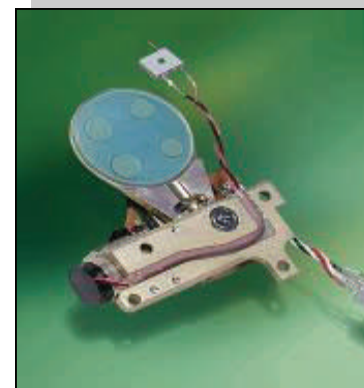
- Drawing Package Review
- Bill Of Materials Review
- Component Procurement
- Product Optimization



Large Work Bays



Electromechanical Shutter Assembly AT/FLIR F-18



US Dynamics provided value-added design and engineering resulting in product manufacturability **not possible** from original design.

Turnkey Project Support

- First Article Approval
- Environmental Screening
  - Test Procedures
  - Final Packaging

Standard Missile Seeker Head



New Build and Repair of spinning mass rate and rate integrating gyroscopes for inertial guidance and target stabilization.



Phalanx Gun Stabilization



A Privately Held Small Business  
425 Bayview Avenue, Amityville, N.Y., 11701  
Founded : 1962 3 Buildings 85,000 sq. ft. Employees: 130  
Management : 14 Engineers : 14  
Technicians : 19 Operative : 56  
Administration : 14 Service : 13

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To speak with a representative, request additional information or to receive a quotation please call (631) 842-5600, fax to (631) 842-5247 or email your request to [sales@USDynamicscorp.com](mailto:sales@USDynamicscorp.com)