

***Providing Sustainment Services for Military and  
Aerospace Avionics and Electronics***

***Repair, Overhaul and New Builds***

**[www.usdynamicscorp.com](http://www.usdynamicscorp.com)**



U.S. Dynamics Corporation's goal is to provide cost effective solutions to extend the life of legacy and mature systems. Our extensive technical library has over 1,000 technical orders which enables U.S. Dynamics to support a wide range of repair, overhauls and form, fit , function new builds. With many mergers and acquisitions over the past 30 years there are many systems still in operation designed and manufactured in the 70's, 80's and 90's which require cost-effective 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. If your system is not listed below please contact U.S. Dynamics, we will research the item and determine if we are capable of providing repair, overhaul or new build support.

### **Some of the Platforms and Systems supported include:**

#### **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 and Tow Cobra.

#### **Systems:**

Fire control, Radar Systems, Inertial Navigation, Power Supplies, Gyroscopes, RF and Microwave, Electronic Warfare. AN/AAQ-9, AN/ALQ-20A, 119,131,135,153, 184, AN/ALR-56,62, 69, AN/APG-63, 66, 68, AN/APM-349, 427, AN/APN-171, 194, 224, AN/APQ-109,120,122, 153, 157, 159, AN/APX-103, AN/ARC-164, AN/FRC-178, AN/MPQ-T3, AN/GPQ-T8, AN/MPS-T1, AN/MSQ-118, AN/TPQ-36/37, AN/SPN-41, AN/TPS-43, 63,70, 75 and FPS-117.



Visit our website [www.usdynamicscorp.com](http://www.usdynamicscorp.com) for additional information



## Company Profile

U.S. Dynamics is a small business located in Long Island, New York which has a talented technical staff. Our electrical and mechanical engineers along with technicians and craftsmen support a wide range of repair services. With over 40 years of repair service supporting the DOD, FMS, Raytheon, Lockheed Martin, Northrop Grumman, General Dynamics, U.S. Dynamics is able to provide cost-effective, innovation solutions to meet your challenging requirements.

Founded:	1962
Number of Employees:	140
Square Feet:	85,000



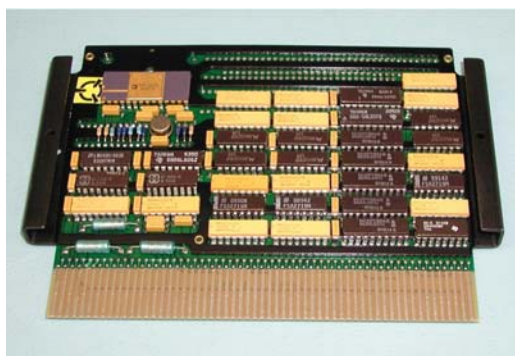
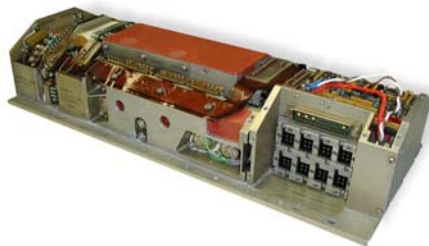


## **Products and Services**

### **Repair, Overhaul and New Builds of Modules, Assemblies, Sub-systems and Systems**

Reverse Engineering  
Technology Insertion  
Obsolescence Management  
Environmental Screening  
Form, Fit and Function New Build Replacements  
Increased MTBF  
Lower Power

Specialize in RF, Microwave, Power Supplies and Gyroscopes

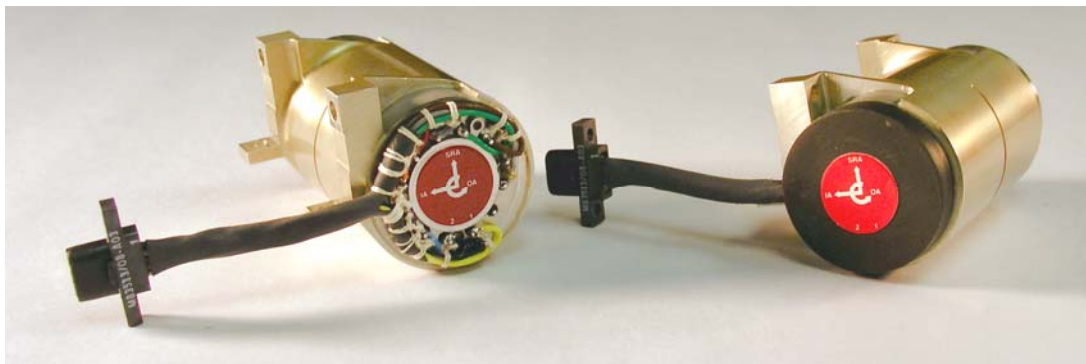






## Rate and Rate Integrating Gyroscopes

U.S. Dynamics Corporation designs and manufactures cost effective solutions which are form, fit, function gyroscopes to replace Honeywell, BAE, Condor, Northrop, Humphries and B.F. Goodrich products. U.S. Dynamics also provides repair and overhaul services.





## **In-House Environmental Test Facility**

U.S. Dynamics Corporation has extensive in-house environmental testing capabilities to insure that the products we repair meet the temperature, altitude, vibration and humidity requirements for the military and aerospace operating environment. These facilities are also available to outside companies to support your environmental testing requirements.

### **Equipment**

Russels RBH-35-10-10-A/C, 27 CU FT, Temperature/Altitude Chamber

Altitude - 0 - 150,000 ft

Tenney 12ST100/350, 12.5 CU FT, Temperature/Altitude Chamber

Altitude 0 - 60,000 ft

Thermotron F-62-CHV-25-25/ECA, 61 CU FT, Temperature Chamber

Thermotron S16 MiniMax, 15.5 CU FT, Temperature Chamber

Associated HK-5108, 8 CU FT, Temperature/Humidity Chamber

LDS Model V810 Vibration Table

Contraves Angular Vibration Table

Assorted High Precision Rate Tables

USD can design and fabricate any fixtures that would be required for testing. We can also build test equipment to run operating tests during environmental testing.

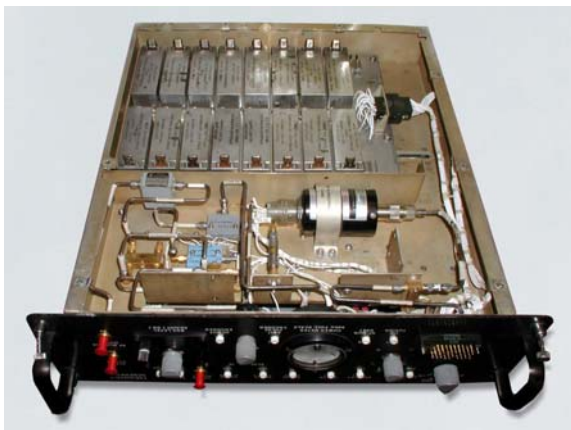
All Chambers can achieve -55 to +125 deg C temperature range





## **New Builds**

There are many instances where the OEM is no longer in business or the OEM does not support assets designed in the 70's and 80's. U. S. Dynamics has developed form, fit and function replacements. Many times with technology insertion the units have higher MTBF and lower power consumption.



**Frequency Generators**



**Indicators**



**Receiver Matrix**

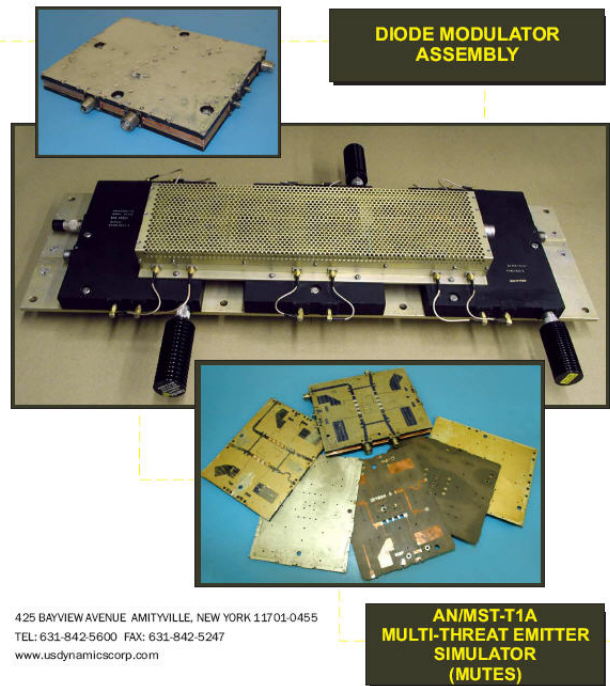
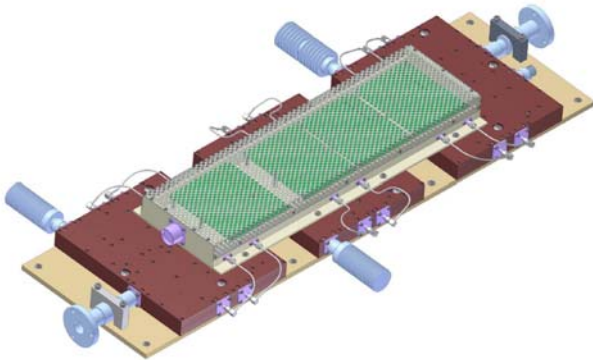
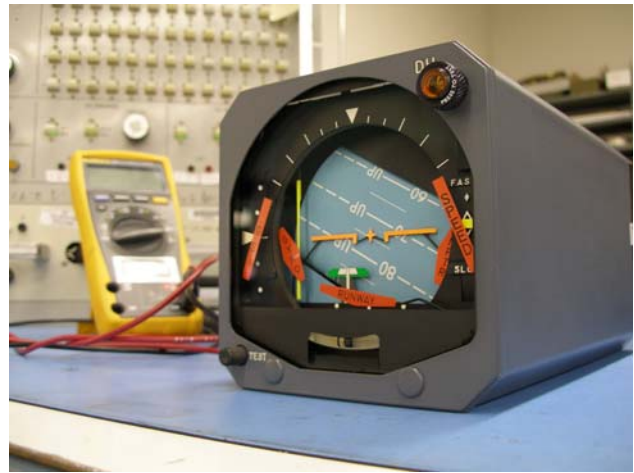


**Rate Sensor Unit**





**Design Drafting supports news builds this includes Power Supplies, Indicators, Complex RF and Microwave assemblies supporting a wide range of applications.**



425 BAYVIEW AVENUE AMITYVILLE, NEW YORK 11701-0455  
 TEL: 631-842-5600 FAX: 631-842-5247  
[www.usdynamicscorp.com](http://www.usdynamicscorp.com)





**Extensive Technical Library**



**Test sets developed to emulate system loading and extreme operating conditions**



**U.S. Dynamics ISO 9001:2000  
3-Star supplier award from Raytheon**