



First Aviation Services Inc.®



Actuators | Advanced Composite Repair | Batteries | Electro-Mechanical | Electronics | Engineering Services | Gearboxes & Motors | Hydraulics | Hydrostatic Services  
Landing Gear | Lighting | Metal Bond | Propellers | Prop Governors | Regulators & Valves | Sheet Metal Structures | Stratoflex Hoses | Wheels & Brakes

## COMPANY OVERVIEW & PRODUCT LINE





## LETTER FROM OUR VP & GENERAL MANAGER

**Dear Aerospace Colleagues,**

For nearly 50 years, Aerospace Turbine Rotables, Inc. has been serving corporate, military, and general aviation operators with a continuously expanding portfolio of the highest quality component repair services. I want to share this brochure that summarizes some of our extensive product offerings with the hope that we can explore new business opportunities together.

AeTR's product offerings include landing gear overhaul for some of the most popular corporate and military aircraft including the **Phenom, Challenger, Global Express, Lear 45, Gulfstream, Pilatus PC-12, Beech T-6, and King Air**. Our safety equipment line includes crew oxygen masks as well as extensive lines of hydrostatic services. The structures group performs repairs on composite and sheet metal components while our actuators group has added flutter dampers to our expanding capabilities for civilian and military aircraft. Our Addison, TX facility services and repairs a broad range of Lead-Acid and Ni-Cad batteries as well as Emergency Power Supplies for the general aviation as well as business jet markets.

AeTR recognizes that the **people, processes, and ethical standards of an organization are key** to the quality of the MRO cycle. AeTR embodies the resources, values, and attributes of our organization into every component we process.

We utilize key performance indicators to aid in managing each article in accordance with quoted schedule and price, ensuring every task is performed with **proper discipline and diligence, while communicating effectively with our customers**. Our goal is to simplify your choice of MRO partner by providing an excellent cost-effective range of products.

**As a proud member of the First Aviation Services family of companies**, AeTR is complemented by our sister companies **Piedmont Propulsion Systems, LLC, Aviation Blade Services, Inc.** and **Evolution Aerospace, Inc.** which enjoy their own rich legacy, an exciting future, and the same unwavering commitment to customer satisfaction. Our parent company, **First Aviation Services Inc.** is committed to investing in the future of its companies and enabling the development of solutions which bring positive impact to this incredible industry.

**Shad Newbury**

Vice President & General Manager  
Aerospace Turbine Rotables, Inc.



**EXPERIENCE**  
**YOU CAN RELY ON**



**First Aviation** Services Inc.®

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First Aviation Services Inc.

## **AeTR PRODUCT LINES**

- 8** ..... Landing Gear
- 12** ..... Hydraulics
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- 17** ..... Safety Equipment
- 22** ..... Electronics
- 24** ..... Structures
- 26** ..... Stratoflex Hoses
- 27** ..... Engineering
- 29** ..... Program Management
- 30** ..... Specialized Services
- 32** ..... FAA-PMA Parts by Evölution Aerospace, Inc.



# First Aviation Services Inc.®



## First Aviation Services Inc.®

15 Riverside Avenue  
Westport, CT 06880 | USA  
+1 203.291.3300  
[firstaviation.com](http://firstaviation.com)



## Evolution AEROSPACE, INC.®

1919 East Northern Street  
Wichita, KS 67216 | USA  
+1 316.529.7878  
[turbinerotables.com](http://turbinerotables.com)  
[evolutionpma.com](http://evolutionpma.com)



4400 Lansing Drive  
Winston-Salem, NC 27105  
USA | +1 336.776.6260  
[piedmontpropulsion.com](http://piedmontpropulsion.com)



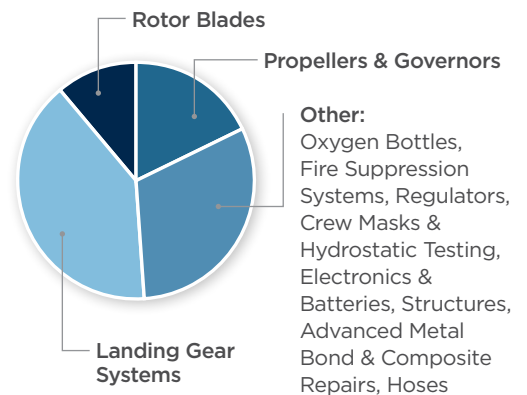
## MASTER SUPPORT, INC.®

3969 Merlin Drive  
Kissimmee, FL 34741 | USA  
+1 407.846.6780  
[absblade.com](http://absblade.com)

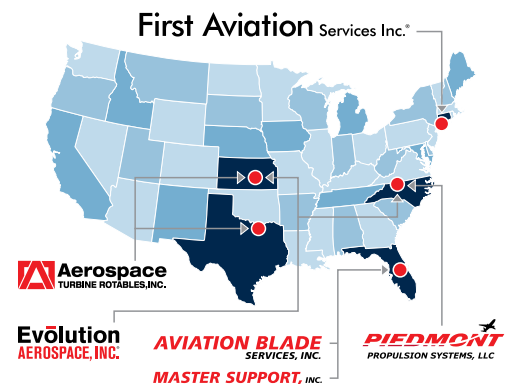
## Summary

- Aircraft Component MRO Specialist
- FAA, EASA & other foreign Civil Aviation Authorities
- Four Part 145 Repair Station Facilities —
  1. Winston-Salem, NC
  2. Wichita, KS
  3. Dallas/Addison, TX
  4. Kissimmee, FL
- Three Facilities with FAA Production Approval —
  1. Winston-Salem, NC
  2. Wichita, KS
  3. Kissimmee, FL
- AS9110C Certification
- 200 Employees — Qualifies as a Small Business for Government Contracts
- U.S. Army & U.S. Navy Repair Source Approvals
- Engineering Services —
  - » Parts Manufacturing Approval (PMA)
  - » Designated Engineering Representative (DER) repairs
  - » Supplemental Type Certificates (STC)
  - » Department of Defense Source Approvals (SAR)
  - » Diminishing Manufacturing Sources & Materiel Shortages (DMSMS) solutions

## Repair & Overhaul Services



## Four Locations





## AIRLINE:

AIR CANADA



American Airlines



BOMBARDIER

FedEx

LATAM  
AIRLINES

Lionair



Lufthansa Technik

Pacific Coastal  
AIRLINESSilver  
AIRWAYS

SkyBahamas

swiftair

TRANS MALDIVIAN AIRWAYS  
Sun, Sand, Sea & Seaplane

WESTJET

## MILITARY &amp; GOVERNMENT:

DynCorp  
INTERNATIONAL

communications

PAE



MAXIMIZE YOUR AIRTIME

SNC SIERRA  
NEVADA CORPORATION

## CORPORATE &amp; GENERAL AVIATION:

Beechcraft

CANADIAN  
HELICOPTERSDUNCAN  
AVIATIONELLIOTT  
AVIATION

EMBRAER

FLEXJET  
BY BOMBARDIERLANDMARK  
AVIATION

TEXTRON AVIATION



## First Aviation Services Inc.®

## PRODUCT LINES

Advanced Metal Repairs/Arc Spray

Batteries

Beacons



Blow Down Bottles

Brakes

Composite Bottles

Composite Repair

Electro-mechanical Actuators



Electronics

Fire Bottles

Fire Extinguishers

Flight Control Actuators

Flight Control Surfaces

Gearboxes



Hydraulic Actuators

Hydrostatic Testing

Prestolite Power Packs

Landing Gear

PMA Parts

Landing Lights

Lighting Units

Motors

Shimmy Dampers

Navigation Lights

Oxygen Bottles

Oxygen Masks

Oxygen Regulators &amp; Valves



Pneumatic Reservoirs

Power Supplies

Propellers

Rotor Blades

Propeller Blades

Overspeed Governors



Rotor Hubs

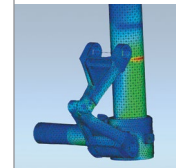
Propeller Hubs

Strobe Lights

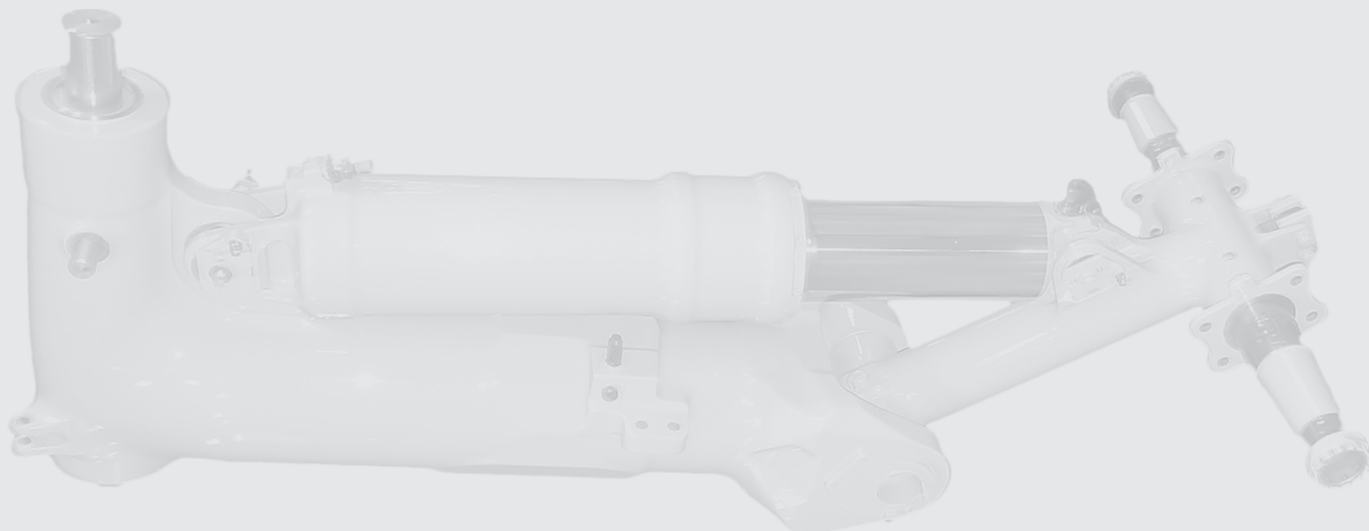
Tach Generators

Voltage Regulators

Wheels







## **Product Line by Aerospace Turbine Rotables, Inc.**



# Landing Gear

When an operator turns to **AEROSPACE TURBINE ROTABLES, INC.** for their landing gear maintenance, they not only save on the cost of the landing gear component, but avail themselves of an exponentially larger number of competent airframe MRO facilities — saving money, time and convenience.

**AeTR understands the urgency associated with returning aircraft to service.**

We recognize that even when requirements are associated with scheduled maintenance, timely delivery of high quality components is the only acceptable solution. AeTR has a robust portfolio of capabilities and cost effective solutions to support landing gear system requirements.

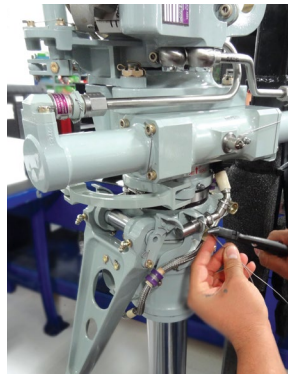
- **FAA Certified** to overhaul landing gear systems and related components for more than 30 years
- Capabilities include **mechanical, electromechanical, and hydraulic components**
- Has a history of providing overhaul services for **more than 51,000 articles**
- Annually provides MRO services for **more than 1,200 landing gear assemblies and associated system components**







AeTR has an unwavering focus on high quality customer solutions.



AeTR has committed significant investment to solutions which increase MRO velocity and customer options.

- **Pool Stock programs** bring options and high velocity solutions to the MRO cycle
- **Exchange component inventory** brings immediate solutions to urgent requirements
- **Embedded engineering support** enables rapid development of tooling, specialized repairs, and replacement parts



AeTR has an unwavering focus on high quality customer solutions.

- **MRO cycle velocity**
- **Improvement in product reliability**
- **Development of solutions** which provide customers with expanding options
- **Reduction in customer cost** of operations/total cost of ownership



## Landing Gear (continued)



### DRAG LEGS / SIDE STAYS

**AeTR maintains a robust pool of drag stays/side stays** which complements our customer overhaul activity. We manage complete assemblies which are sold through our exchange programs, as well as the individual castings, links, arms, and braces which have undergone the reconditioning process and are available for immediate use.

The sub-assembly components which are not uniquely serialized can be ingested immediately into overhauls which enables AeTR to move into the assembly process immediately upon completion of the fits, tolerance check, and NDI. This strategy cuts days from the typical MRO cycle on this family of components.



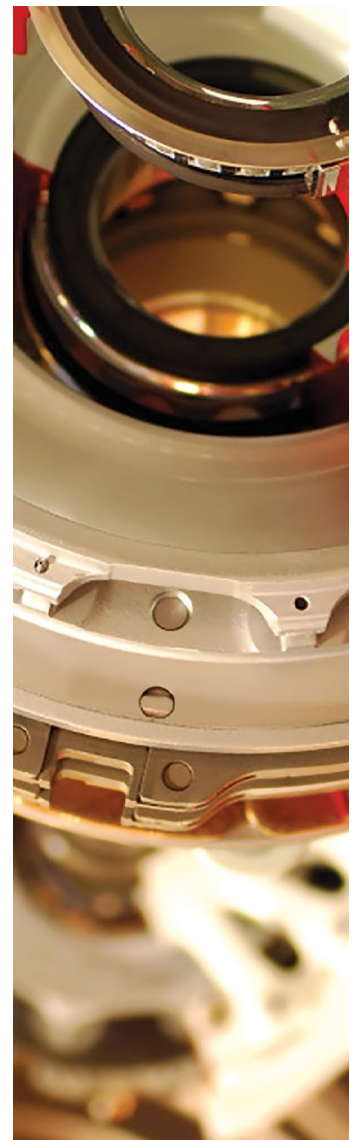
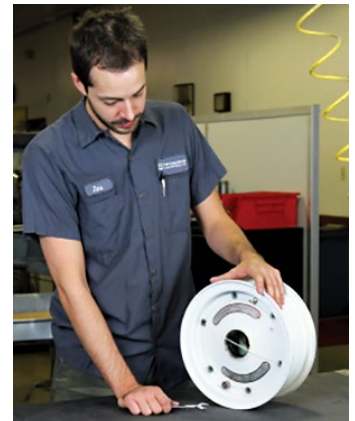




## WHEELS & BRAKES

**AeTR has extensive experience in providing MRO services for aircraft wheels and brakes.** Our wheel shop can provide many levels of MRO service:

- **Tire Change Inspection**
- **Wheel Repair**
- **Wheel Overhaul**
- **Non-destructive Inspection** (Mag Particle, Fluid Penetrant, & EddyCurrent)



## BRAKE OVERHAUL

The range of our wheel and brake programs extends across almost all airframes.

### WHEELS:

- Cleveland
- Honeywell (Bendix)
- MABS (ABS & Dunlop)
- Goodrich
- Jay Em
- Messier

### BRAKES:

- Cleveland
- Honeywell (Bendix)
- MABS (ABS & Dunlop)
- Goodrich
- Jay Em

### AIRFRAMES:

- |                  |                   |                     |
|------------------|-------------------|---------------------|
| • Aero Commander | • ATR             | • Beechcraft        |
| • Boeing         | • Bombardier      | • British Aerospace |
| • Cessna         | • Dassault Falcon | • DeHavilland       |
| • Embraer        | • Fairchild       | • Gulfstream        |
| • Lockheed       | • Mitsubishi      | • Piaggio           |
| • Pilatus        | • Piper           | • Saab              |
| • Sabreliner     | • Short           | • Sikorsky          |





# Hydraulics



## HYDRAULIC ACTUATORS



**AeTR currently repairs and overhauls a wide range of hydraulic actuators.**

Retract actuators, door actuators, uplock/downlock actuators, all fit well into our capabilities. AeTR has test stands for both red fluid and Skydrol actuator types and has engineered many solutions relevant to this product line.

## FLUTTER DAMPER

**AeTR provides detail inspection, repair, and overhaul services for many hydraulic dampers,** including the flutter dampers used on Bombardier's Challenger family. Our specialized test equipment enables us to service, troubleshoot, repair, test, and overhaul flutter dampers in accordance with the published maintenance requirements.







## MASTER CYLINDERS

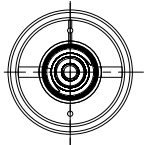
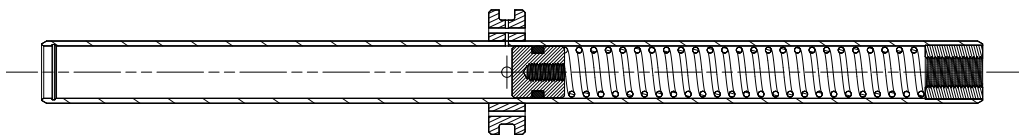
**AeTR overhauls many types of master cylinders.**

Our services provide high value solutions to the requirements of both scheduled and unscheduled maintenance events involving brake systems.



## SHIMMY DAMPERS

**AeTR has overhaul capabilities on a number of aircraft shimmy dampers.** Our shop has provided MRO services on thousands of shimmy dampers of many types. We have developed replacement part solutions for common high cost replacement items, and have active engineering projects focused on this product line.





# Mechanical & Electro-Mechanical



## FLAP ACTUATORS

**AeTR's flap actuator shop specializes in the Beechcraft family of mechanical actuators,** but also works on a variety of others. AeTR's robust engineering capabilities have developed a product line which is very efficient and cost effective for the operator to maintain.



## TRIM TAB ACTUATORS

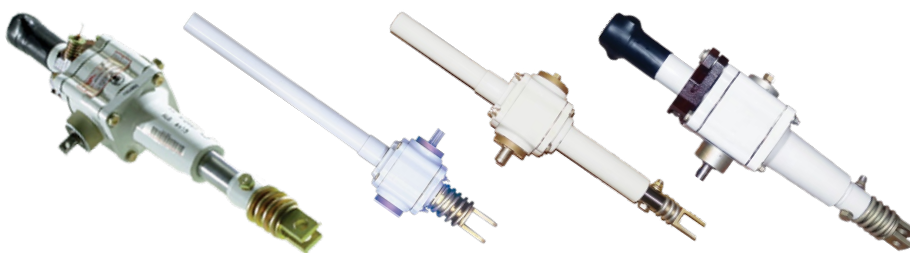


**AeTR works on control surface trim actuators of many types and origins.** Our trim actuator shop specializes in mechanical actuators which are gear, chain, or cable driven. Many repairs and repair parts have been developed by AeTR in order to mitigate the cost and delays commonly associated with new part replacement on the mechanical trim actuators used on aging airframes.



## LANDING GEAR RETRACT ACTUATORS

**AeTR has worked diligently to develop MRO programs for Mechanical Landing Gear Actuators.** Currently, AeTR holds more than 25 replacement part approvals associated with the Beechcraft retract actuator line. AeTR's efforts on this product line have resulted in increased reliability and reduced cost for this actuator, and have transformed customer expectations in the marketplace. This program embodies solutions which are easily transferrable to other similar component programs.



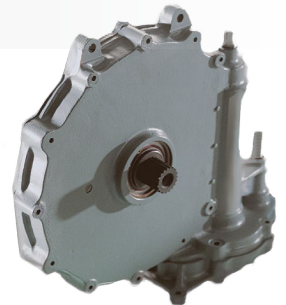




## LANDING GEAR MOTORS & GEARBOXES

**AeTR holds impressive market share on the products for which we provide MRO services** and performs as sub-contractor to many shops with whom we previously competed for this product line.

Our overhauls embody a level of craftsmanship unchallenged in the industry. We have engineered and gained FAA approval on a host of solutions for this product line to enhance product quality/longevity, while reducing/containing costs.



## FLAP MOTORS & GEARBOXES

**AeTR's Flap Motor and Gearbox shop has a wide range of capabilities.** Our products are recognized as industry leading quality by operators world wide. As with our other product lines, the Flap Motor and Gearbox shop has developed specialized solutions which enhance the product quality and longevity while enabling operators to manage their maintenance costs more effectively.



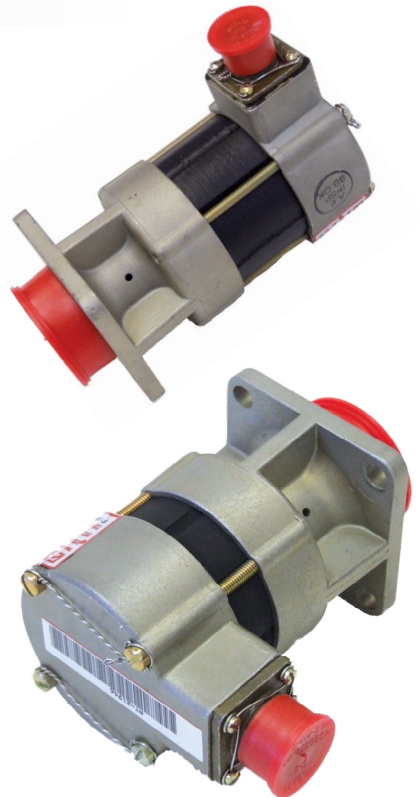


# Mechanical & Electro-Mechanical (continued)

## TACH GENERATORS

**AeTR provides overhaul services for most types of tach generators.** Our services include repair capabilities for several internal high failure rate items in this product type. Some of the common types of tach generators we overhaul are:

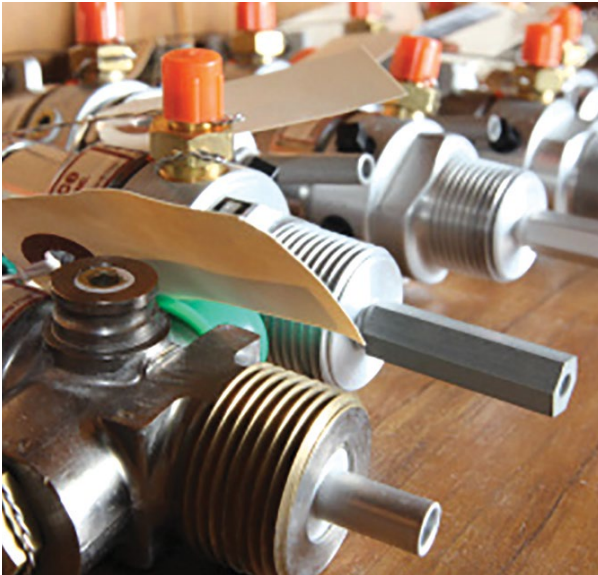
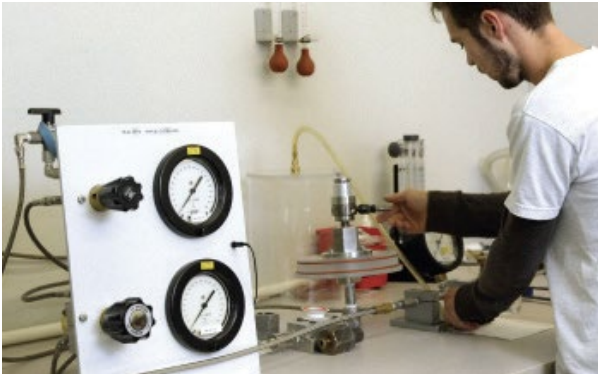
- **Electro-Mech** - AN5547 Series
- **Globe** - AN5531 Series
- **Kollsman** - GEU7A
- **Lear-Siegler/AAE** - MS25038 Series
- **Task-Donallco** - MS28054 Series







# Safety Equipment



**At AeTR, our safety equipment shop sets the industry standard for turnaround time.** Because our hydrostatic services are embedded into our FAA/EASA approved repair station, AeTR provides a complete documentation package inclusive of DOT/FAA/EASA certification. Our range of products is robust with capabilities for Oxygen Cylinders, Nitrogen Cylinders, Fire Extinguisher Cylinders, Regulators, Valves, Shut-off Valves, and Crew Oxygen Masks. AeTR has provided MRO services on more than 102,000 safety equipment articles over the past 20 years.





## Safety Equipment (continued)



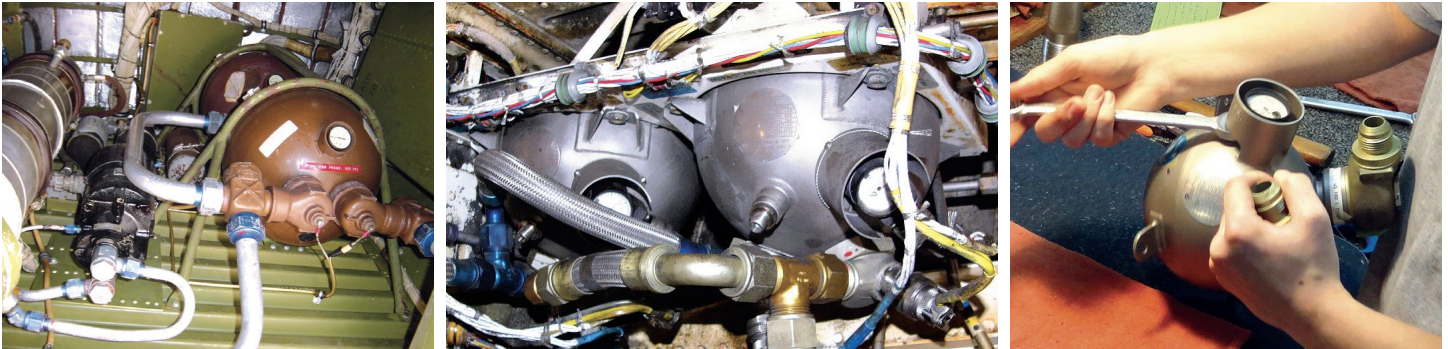
### OXYGEN CYLINDERS



**AeTR has held DOT certification for the requalification of pressure cylinders for more than 25 years.** Our shop is well positioned for high volume throughput with three test jackets, three test stands, multiple bottle dryers, a bottle tumbler, and numerous fixtures to support a high volume of work. Collaborative partnerships allow us to provide replacement bottles when required, enabling our customers to turn to us with confidence; knowing we will provide effective and expedient solutions.







## FIRE EXTINGUISHERS

**AeTR is a prominent provider of aerospace engine/apu fire bottle overhaul.** AeTR has invested in

the necessary equipment and has

developed the qualified staff, product knowledge, and experience to provide excellent service supporting this product line. AeTR provides overhaul services for both screw-thread and hermetically sealed engine fire extinguishers. Halon recovery and recycling equipment is included in our tools and fixtures, allowing us to provide regulatory compliant, environmentally friendly, and cost effective service in support of halon fire extinguishing systems. Our solutions are constantly focused on customer requirements and customer expectations. Through that focus, AeTR has become one of the most versatile and capable independent engine fire extinguisher shops in the world.



## BLOW-DOWN BOTTLES

**AeTR provides requalification services** for cylinders and overhaul services for valves on a wide range of emergency reservoirs. Our technical data library is extensive, as are our capabilities. Our ever-expanding capabilities include reservoirs manufactured by:

- HTL
- Tavco
- Sota
- Globe
- Pacific-Scientific
- Futurecraft
- Southbend Controls



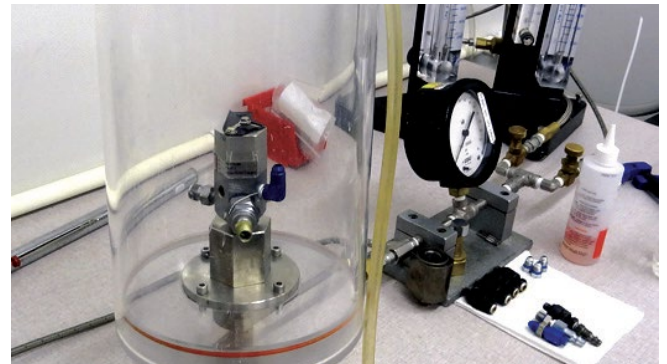
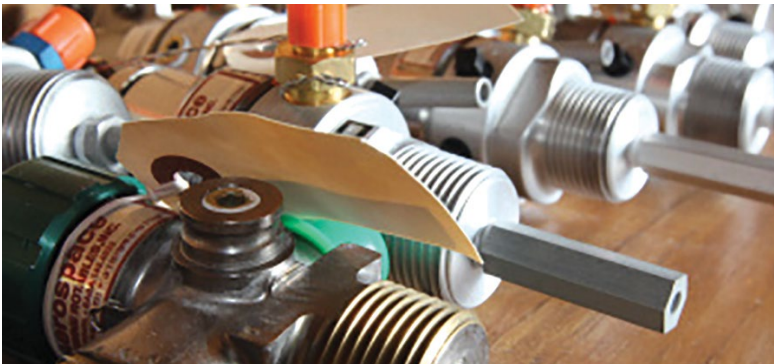
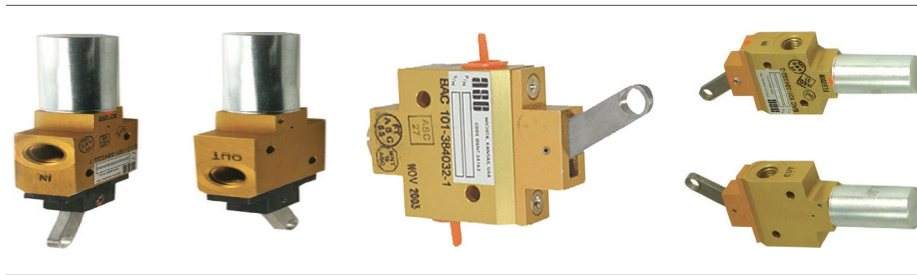


# Safety Equipment (continued)

## OXYGEN SHUT-OFF VALVES

**AeTR can provide overhaul of most mechanical oxygen shut off valves.**

These valves are overhauled in accordance with approved data and returned to service with FAA/EASA airworthiness forms.



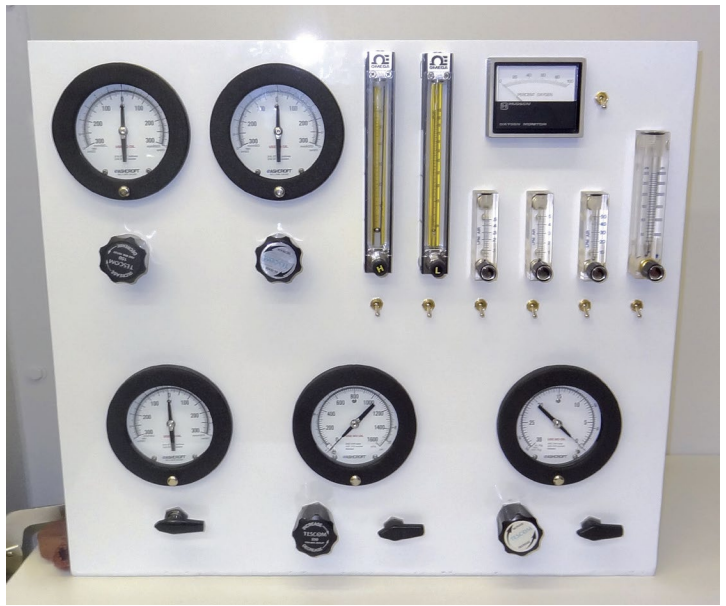
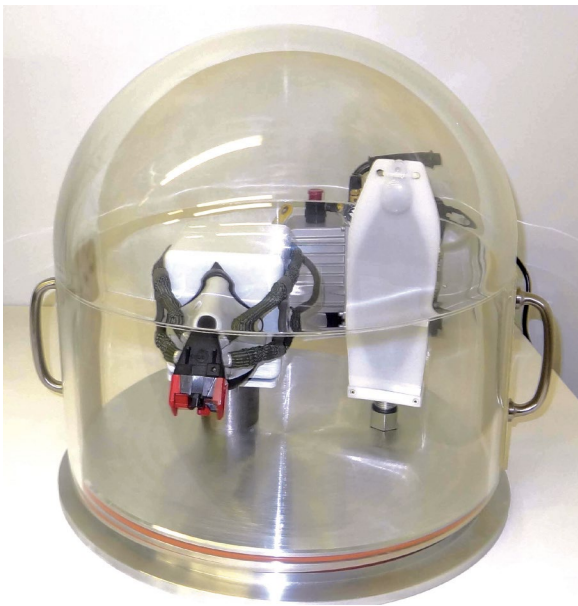
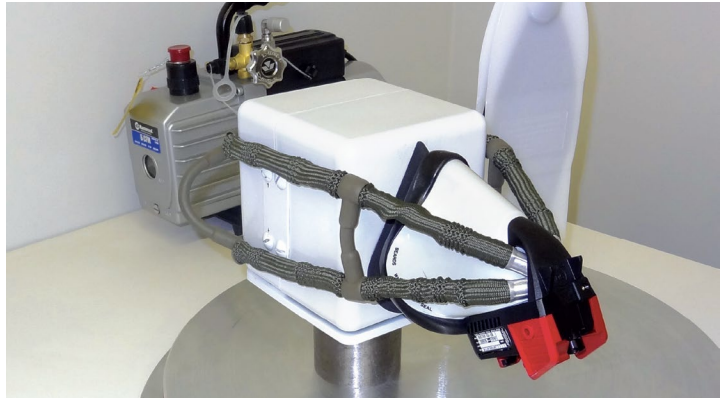
## OXYGEN VALVES / REGULATORS

**AeTR has developed in-house overhaul capabilities for oxygen valves and regulators sent to us for requalification.**

Our in-house valve overhaul solution enables AeTR to consistently meet and exceed demanding customer expectations consistently. AeTR is constantly developing new capabilities, new test equipment, and new solutions for this product line.







## OXYGEN MASKS

**AeTR has recently launched an oxygen mask overhaul program.** We have developed our own tooling and test fixtures with the versatility to expand our capabilities quickly without significant investments or the lengthy lead times associated with OEM uniquely specialized equipment. Our efforts are now focused on bringing velocity and cost relief to another product line which has proven to be difficult for our customers.

Our current capabilities include quick-donning crew masks manufactured by:

- **BE Aerospace**
- **Scott/Avox**
- **Intertechniques**

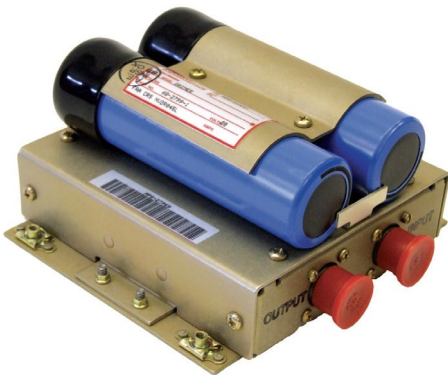


# Electronics



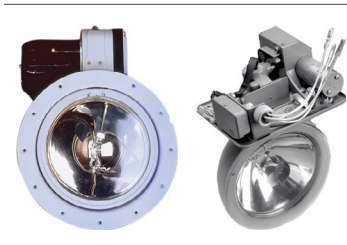
## STROBE POWER SUPPLIES

- Grimes
- Whelan
- SDI



## RETRACTABLE LANDING LIGHTS

**AeTR has a special niche in this market.** Our repair parts developmental efforts have returned great dividends to this product line. AeTR has specialized in retractable landing lights and helicopter search lights for more than two decades. Our solutions for replacement gears, actuators, switches, and motors has resulted in impressive reliability improvements and reduced cost of operations for many operators of these aged electromechanical lights.



## STROBE LIGHTS

- Grimes
- Whelan
- SDI







## ROTATING BEACONS

**AeTR has developed a specialized expertise in the repair of rotating/oscillating beacons.**

These mechanical lighting products have a number of internal wear components for which AeTR has developed cost effective solutions. The cost of replacement/repair parts associated with this family of products escalated significantly as new technologies began to displace the mechanical rotating/oscillating beacon. Our solutions have enabled these products to continue in service, and perform years beyond their expected design life.



## EMERGENCY POWER SUPPLIES & BATTERIES

**AeTR has been repairing and servicing emergency power supplies and batteries for many years.**

As we expand our selection of specialized harnesses, test boxes, and troubleshooting equipment; we continue to grow our market share in this product line. Unlike many shops which do an initial functional test and then replace the battery pack, AeTR does a full evaluation and replaces batteries and/or controllers only when necessary. Our repair to reconditioning ratio remains well below comparable shop averages. At AeTR we understand the balance of time and money and recognize that troubleshooting by replacing parts can be an expensive solution for our customers.



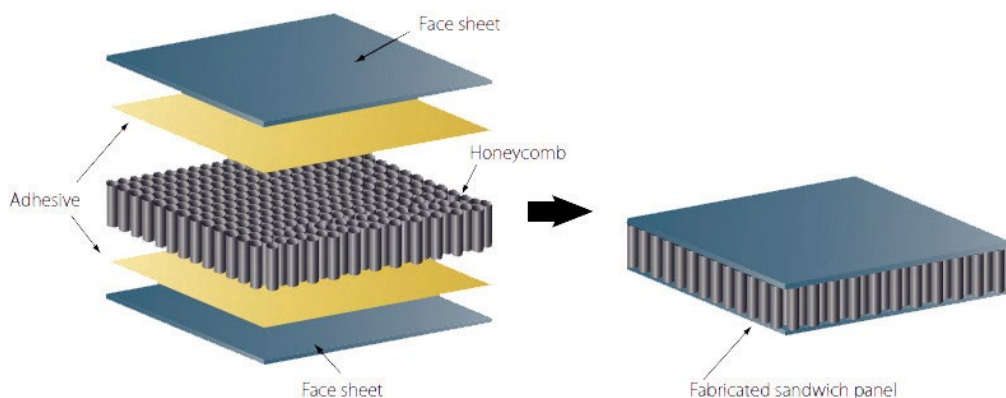


# Structures



## METAL BOND

**AeTR's Metal Bond Department focuses on the repair of metallic bonded honeycomb structures.** Control surfaces, cowlings, engine inlets, thrust reversers, exhaust nozzles, landing gear doors, and nacelle doors are products which are processed by our Metal Bond Repair Team. Our shop provides metal bond solutions for aluminum, titanium, and stainless steel. When articles require repair which is beyond what is authorized in the airframe maintenance or structural repair manual, AeTR's Structures Team works with the AeTR Engineering Department to develop and approve the required repair specification. Our structures group is well equipped with experienced technicians, robust technical data libraries, and processing/finishing equipment which enables us to produce high velocity, high quality results.







## ADVANCED COMPOSITE REPAIR

**AeTR's Advanced Composite Repair Department is focused on the repair of composite bonded honey-comb structures.** Control surfaces, engine inlets, thrust reversers, landing gear doors, radomes, fairings, various airframe panels, and nacelle doors are products which are processed by our Advanced Composites Repair Team. Our shop provides advanced composite repair solutions for fiberglass, kevlar, carbon fiber, and aramid articles. The AeTR team has extensive experience with composite defects such as punctures, cracks and disbond, and is well equipped with the knowledge and experience required to transform damaged articles to airworthy. When articles require repairs which are not approved in the airframe maintenance or structural repair manual, AeTR's Structures Team works directly with the AeTR Engineering Department to develop and approve the required repair specification. Our structures group is well equipped with experienced technicians, robust technical data libraries, and processing/finishing equipment which enables us to produce high velocity, high quality results.





# Stratoflex Hoses

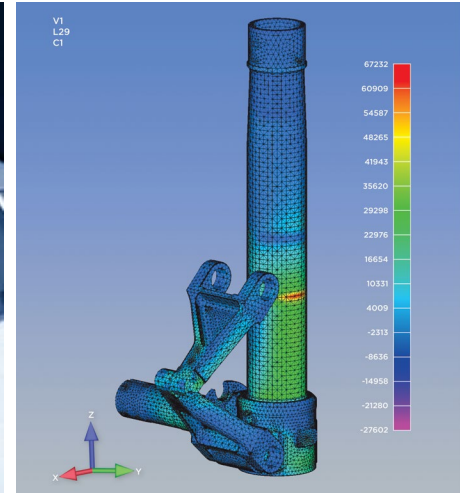
**AeTR is one of a small number of companies who operate a Stratoflex Authorized Distributor Hose Shop.** Our Stratoflex distributorship allows us direct access to the Stratoflex technical library and the drawings, blueprints, and specifications therein; as well as providing us with distributor level pricing for hose manufacturing materials and couplings. Our hose shop, much like our other product lines, is recognized for fast delivery and exceptional quality. Our hose shop team can typically manufacture hoses and ship them the day after receipt of order. We also manufacture a number of hose kits, many to customer specification. The hose kitting process allows our customers to manage standard replacement hoses under a single part number, thus reducing the administrative cost and burden associated with long lists of hoses which are frequently ordered. We have the ability to cross reference most OEM part numbers and are able to mark the hose identification tag with both the OEM and Stratoflex part numbers when requested.



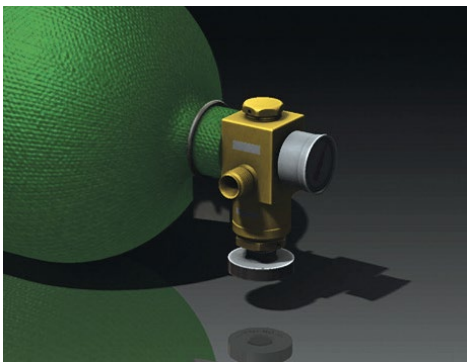
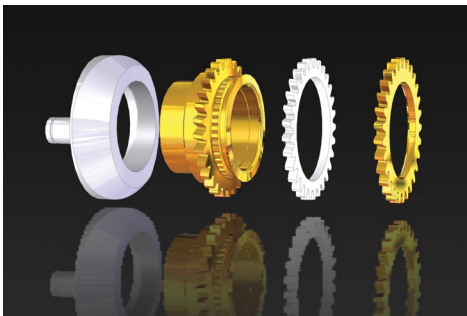




# Engineering



**AeTR holds all of the required delegations, certifications, and approvals from the FAA** to design, develop, certify, and manufacture engineered solutions. First Aviation employs a RS-DER capable of reviewing and approving major repairs, alterations, and repair processes in conjunction with the local FAA. The RS-DER delegation is extremely rare, allowing FAoS to write and approve Component Overhaul Manuals on behalf of the FAA / FSDO Flight Standards District Office (FSDO).



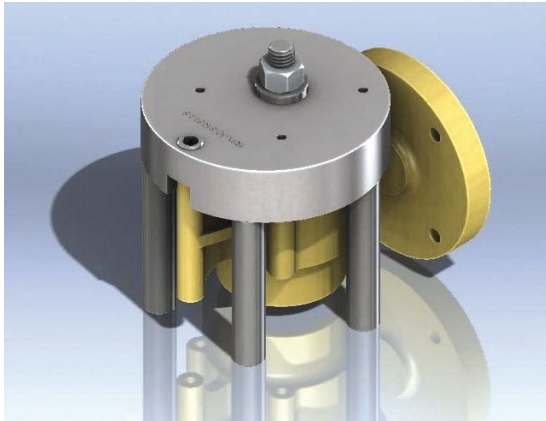
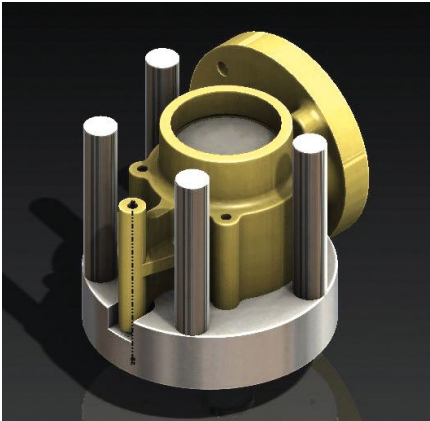
AeTR is an FAA-certified Production Approval Holder (PAH). As such, AeTR can control the design, manufacture, supply chain, and quality of parts produced using Parts Manufacturing Authority (PMA) authorization from the FAA. AeTR, acting under the authority of its PAH certification, certifies, audits, and manages a large pool of qualified vendors in order to ensure high quality, short lead times, and competitive costs.

AeTR also employs FAA Designated Manufacturing Inspection Representatives (DMIR) who, on behalf of the FAA, inspect and certify that the products AeTR uses are produced in accordance with an appropriate FAA certification. First Aviation has identified, designed, developed, certified, and produced the following DMSMS engineered solutions:

- **Over 150 Parts Manufacturing Approvals (PMA)**
- **Over 20 FAA-approved Repair Processes**
- **Supplemental Type Certificates (STC)**
- **Service Life Extension Program (SLEP)**
- **FAA-approved Component Overhaul Manuals**



## Engineering (continued)



**AeTR's understanding of corporate aircraft landing gear systems also results in several options** to minimize the system's total life cycle cost. AeTR can both extend service life and prevent common Beyond Economical Repair (BER) situations that would otherwise result in an expensive replacement. AeTR holds several proprietary FAA-approved repair processes that can not only extend the life of a component but save money by eliminating the need to purchase new parts for BER replacement.

**AeTR engineers have developed the following types of value-added engineered solutions:**

### Alternative / Replacement Parts

Design and produce a part to directly replace a material due to reliability issues, DMSMS issues, high cost, or lead time

### Repair Scheme

Develop and certify a repair scheme, including the required technical data and/or maintenance manuals, to repair serviceable material in order to avoid scrap / replacement or to extend time on wing

### Service Life Extension Program (SLEP)

Develop and certify a modification to extend the life limit of an aircraft component; these engineered solutions are then certificated through the US Federal Aviation Administration (FAA)

### Parts Manufacturing Authority (PMA)

PMA is a FAA approval for the combined design and production of a replacement / alternate part

### Supplemental Type Certificate (STC)

STC is a certification document issued by the FAA approving a modification to an aircraft, engine, or propeller

### FAA-approved Major Repairs or Alterations via a Designated Engineering Representative (DER & RS-DER)

- A DER is a delegate of the FAA administrator, who can review and recommend approval of major repairs or alterations to aircraft and components
- A RS-DER is a DER who can also approve Repair Processes (including Maintenance Manuals) to allow multiple uses of a developed repair scheme or alteration





# Program Management



## SUPPLY CHAIN AND INVENTORY MANAGEMENT

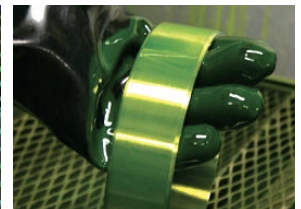
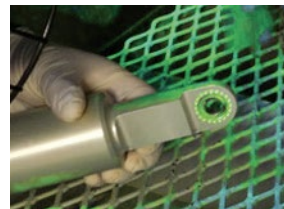
**AeTR utilizes its depth of engineering and MRO experience to provide creative solutions to Supply Chain Management.** Whether you're transitioning to a new commercial fleet or managing a legacy military platform, AeTR has the resources to work with you to control and reduce direct operating costs. **In addition to performing MRO tasks, AeTR invests in a large inventory of repaired parts, consumables, expendables, pool stock, and exchange stock to support your program.** We focus on optimal product availability at either the customer's site or designated distribution centers. Our customers report that our strategic solutions reduce the complexity and administrative burden of the purchase order cycle, as well as the length of the stock replenishment cycle.



# Specialized Services

## NON-DESTRUCTIVE TESTING

**In the MRO environment, robust NDI capabilities are critical to the longevity of our products.** AeTR performs Magnetic Particle Inspection (ASTME 1444), Liquid Penetrant Inspection (ASTME 1417), and Eddycurrent inspection in-house. We have more than 15 employees qualified to standard AC65-31A for non-destructive inspection. In addition to our in-house capabilities, we are fortunate to have robust relationships with a host of NDI service providers located in the Wichita area.



## TREATMENTS & TOPCOATS

**After undergoing NDI, all metal parts receive the necessary and appropriate treatments and topcoats.** Many metal treatment processes such as chrome and cad plating, chemfilm, anodize, and alodyne are performed by specialized sub contractors who are located in the Wichita area. Our incoming quality inspection ensures that all parts plated by sub contractors meet the return to service specifications in dimension and finish. AeTR performs all priming and paint in-house and ensures the final finish meets even the most demanding quality standards prior to release to service.

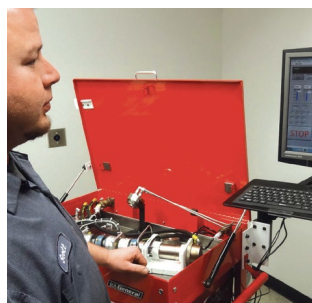


## TOOLING

**AeTR manufactures most of its specialized tooling and test equipment.** From drawings to finished product, our engineering and manufacturing resources work together to ensure that tooling meets the required specifications and designs it to provide precision performance and optimum service life.



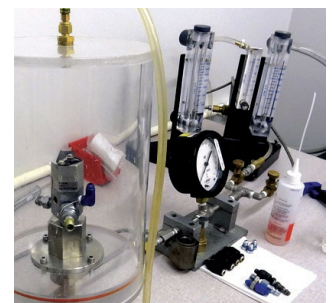
Hawker 400A Gland  
Nut Removal Tool



Maxaret Test Stand



Landing Gear  
Test Stand



Oxygen Regulator  
Test Dome





## THERMAL / ARC SPRAY



### **AeTR has added Thermal Arc Spray to our in-house specialized services.**

Thermal Arc Spray is an excellent fit to our MRO operational requirements. Arc spray technology provides many important advantages that we rank high: Arc spray enables us to apply a variety of alloy coatings to wear surfaces resulting in additional protection from wear generated by friction, abrasion, and erosion. Arc spray coatings also provide additional resistance to corrosion, heat, and oxidization. Arc spray technology does not alter the metallurgic properties of the substrate to which it is applied and it provides impressive one step bonding characteristics. This technology also provides controlled density and oxide dispersion, resulting in minimum coating shrinkage in application. Arc Spray technology, coupled with our MRO and engineering expertise, will lead to the development of a significant number of repairs which will benefit our customers.

## DOT CYLINDER REQUALIFIER

**Pressure cylinder requalification is performed under the authority of a DOT certificate** issued by the PHMSA division and governed under 49CFR. Our DOT certificate enables us to test and requalify pressure cylinders used on aviation products. This process is commonly referred to as Hydrostatic Testing. AeTR has invested in a significant amount of specialized equipment to perform cylinder requalification. We have duplicity in every machine required in the process to ensure that we do not experience work stoppage due to equipment failure. Our Hydro Shop assets include multiple devices for each of the following: test jackets, test stands, cylinder dryers, cylinder vices, and the associated material handling equipment.





# FAA-PMA Parts by Evolution Aerospace

**Evolution**  
**AEROSPACE, INC.®**



**Evolution Aerospace, Inc.** understands the prohibitively high cost of maintaining legacy airframe systems. We've developed an extensive, high quality line of alternative parts for your requirements: from motors to capacitors, bearings to bushings — we have dozens of cost effective, high quality, FAA approved replacement components.

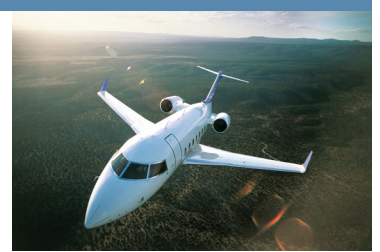






## EXPERIENCE YOU CAN RELY ON.

**With over 40 years of experience**, Aerospace Turbine Rotables has earned a reputation across the industry for “Excellence of Products” and “Excellence of Service.” Our values have remained consistently focused on the quality of our components, our ability to deliver in accordance with customer commitments, and our prevailing attitude of customer satisfaction. Today our company and its employees are more committed than ever to the pursuit of excellence in the products and services we provide.



Experience why thousands of our customers from all over the world have made us their supplier of choice. **Contact Sales at 316.943.6100 or [sales@turbinerotables.com](mailto:sales@turbinerotables.com) today!**

### Repair Station Certifications

CAGE CODE: 4PEE3

FAA Repair Station NV2R045L (Wichita, KS)

FAA Repair Station IGTR154L (Addison, TX)

EASA 145.4033