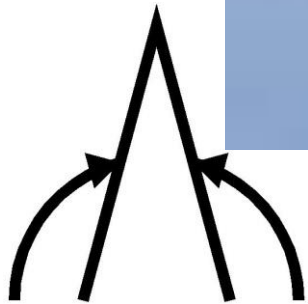


A



ARC Systems, Inc.

ARC Systems, Inc. is a leading supplier of AC and BLDC Motors and motion control components to the Aerospace Industry.

ARC Systems, Inc. has been producing quality motion control products for over 40+ years. At ARC, our engineers interact continuously with customers from concept through manufacturing solving technical issues. We support our capabilities with state-of-the-art computer aided design (CAD) system and proprietary magnetic design programs specifically developed at ARC. All of our employees are ambitious by taking on challenges and solving them through innovative ideas.

We have a vast library of proven designs along with a broad base of frame sizes and configurations of each product line. This along with our engineering and manufacturing experience enables us to respond quickly and reliably to any design specification. We have a strong reputation for nourishing relationships with our customers and their engineers.

ARC Systems, Inc. has an excellent reputation for quality, reliability, and service. All of our products are designed and manufactured in the USA. We are ISO 9001:2015/AS9100D certified. Basically, we match our component knowledge to our customers needs allowing a quality solution at a reasonable price.



ARC's Systematic Design Process

CUSTOMER'S
REQUIREMENTS



ENGINEERING
DESIGN



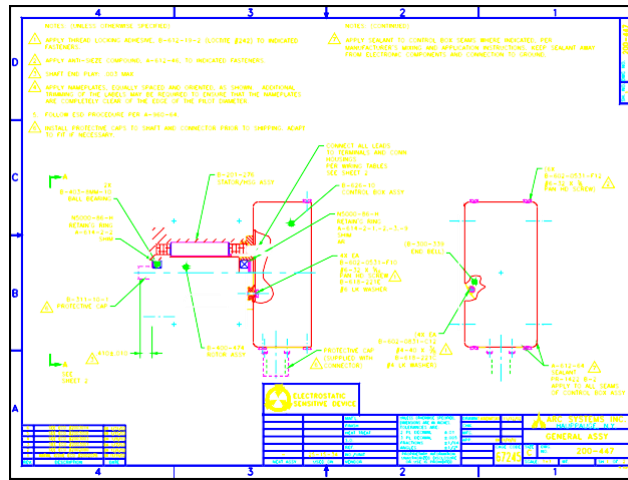
DESIGN
VERIFICATION



- Concept Definition
- Requirements Established

- Magnetics Design
- CAD Design Layout

- Proto-type testing
- Qualification Testing



ARC's Systematic Design Process continued

PRODUCTION

FINAL INSPECTION

SHIP



Products and There Application

ARC is proud to be a supplier of AC and BLDC motion control products for all the Aerospace Primes such as GE, Triumph Aerospace, Zodiac, Crane Aerospace, Parker, and many more.

Our company is responsible for hundreds of motor designs that operate critical systems on many different planes.

We have the capability to design, package, and incorporate these components to meet all harsh environments.



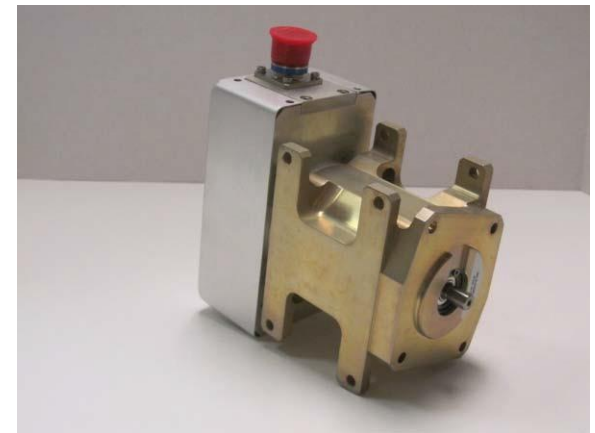
ARC Systems manufactures a key component used on the **Boeing 700 Series** Planes.
Our product plays a critical role and failure is not an option.



Our Induction Motor is part of compressor unit that pressurizes the water tank so that water can be delivered to the galley and lavatories.



ARC manufactures a BLDC Motor used on private jets to help with fluid management.



ARC Systems, Inc. manufactures the stator assembly used in the Trim Tab Actuator For the **Boeing 777**



Trim tabs are small movable portions of the trailing edge of the control surface. This movable trim tab, which is controlled by the flight deck, reduce control pressure. Proper trim also increases efficiency by reducing drag.



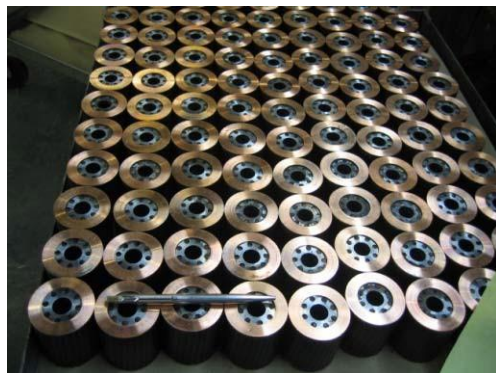
One of BLDC Motor designs are used in the alternate landing gear extension power pack pump actuation system for the **A350 Aircraft**



Many of ARC Systems, Inc. components are used on the **Boeing 737**

The use of these Kit Components will eliminate the need for Housing and End Bells, thereby becoming an integral part of any assembly which will not only save valuable space but will also reduce overall weight.

Designed with High Energy Magnetic Laminations and Class H Insulation, these components exceed the most rigid performance requirements.



Three Phase 400 Hz AC Induction Motors are often used in Private Jets



ARC has designed and manufactured a 3-Phase induction motor to be used on the waste actuation systems for private jets.



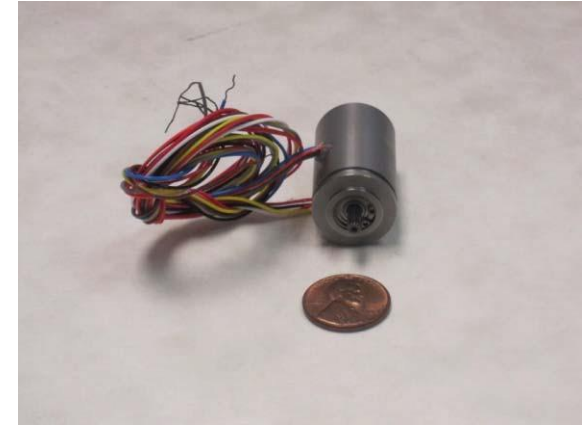
ARC Systems High Performance Squirrel Cage Induction Motors are designed with High Energy Magnetic Laminations which exceed the most rigid performance requirements. Our unique casting technique allows custom fabricated rotor castings to be manufactured tailoring to specific requirements. We use class H insulation system to meet extreme environmental conditions. Other features that are offered include a high-efficiency cooling fan, high temperature grease, and built-in Thermistors for temperature monitoring. We also offer rustproof stators and rotors. Permanently greased bearings can also be supplied when required. Different lamination material can also be used for high power density and high efficiency.

Motor Tachometer Generators are used in Flight Simulation Systems for training pilots.



AC Servo motors are used to convert electrical energy into rotational motion. Tachometer generators convert rotation into an electrical signal related to speed and direction. The design enables fast response times to changing systems demands.

Tachometer generators completes the servo loop.



ARC Systems, Inc. has designed and manufactured hundreds of motors and components for the aerospace industry. Our products play a critical role in many systems. ARC's assortment of thousands of designs allow rapid design and proto-typing. Our technical capability has resulted in market leadership.

Over the past 40+ years, ARC Systems, Inc. has developed a reputation as a manufacturer whose people and products are at the forefront of the motion control industry.

PROVEN PRODUCT IN:

- WATER ACTUATION SYSTEMS
- ELECTROMECHANICAL ACTUATION
 - WASTE ACTUATION SYSTEMS
 - LANDING ACTUATION SYSTEMS
 - TRIM TAB ACTUATION SYSTEMS
 - THRUST REVERSAL SYSTEMS
 - FLIGHT SIMULATION



ARC Systems, Inc. provides the complete support you need in today's competitive environment, from initial engineering development through after market. Contact ARC to assist you in your electromechanical motion control evolution.

WHEN IT'S GOT TO BE RIGHT THE FIRST TIME....

CALL ARC SYSTEMS, INC.



We are ISO 9001:2015/AS9100D certified, and our ISO 9001:2015/AS9100D procedures apply to all aspects of our organization. These procedures ensure that complete control is retained.

We are committed to providing our customers with Reliable, High-Quality Products, and service. We would be happy to discuss your needs at your convenience.

For more information and application assistance contact D. Kirk in our Engineering Department at: dkirk@arcsystemsinc.com

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