



Parts specialists for rotary wing aircraft



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FOR MORE THAN FOUR DECADES, THE PERFORMANCE OF ROTAIR INDUSTRIES IN THE SUPPLY AND MANUFACTURE OF QUALITY HELICOPTER PARTS HAS MADE IT AN INDUSTRY LEADER.

It is a reputation earned through the achievement of excellence in every facet of the business.



Rotair is expert in the manufacture of complex replacement helicopter avionics, hydraulic and mechanical parts and systems such as flight controls, bifilar assemblies, and rotor components.

◀ Precise measurement of a Bifilar Support.

Our success is the sum of all parts.

PARTS PROVIDED BY ROTAIR—AT A MINIMUM—MEET THE DESIGN AND PERFORMANCE REQUIREMENTS OF THE ORIGINAL COMPONENT.

Testing to specification and inspecting all critical characteristics of a component is standard procedure. It helps guarantee that only conforming, reliable parts are shipped to our customers—contributing to safer operations. The same standard of excellence extends into all departments including production planning, assembly, inventory control, record keeping, packaging, shipping, and technical support.



A technician tests a damper on a Rotair Hydraulic Test Stand for Army H-60 and Coast Guard HH-60 helicopters.



A Rotor Damper must absorb the stress generated by rotor blades in full flight. Operators around the globe rely on Rotair to supply this and thousands of other critical components for their helicopters.

Just for the record.

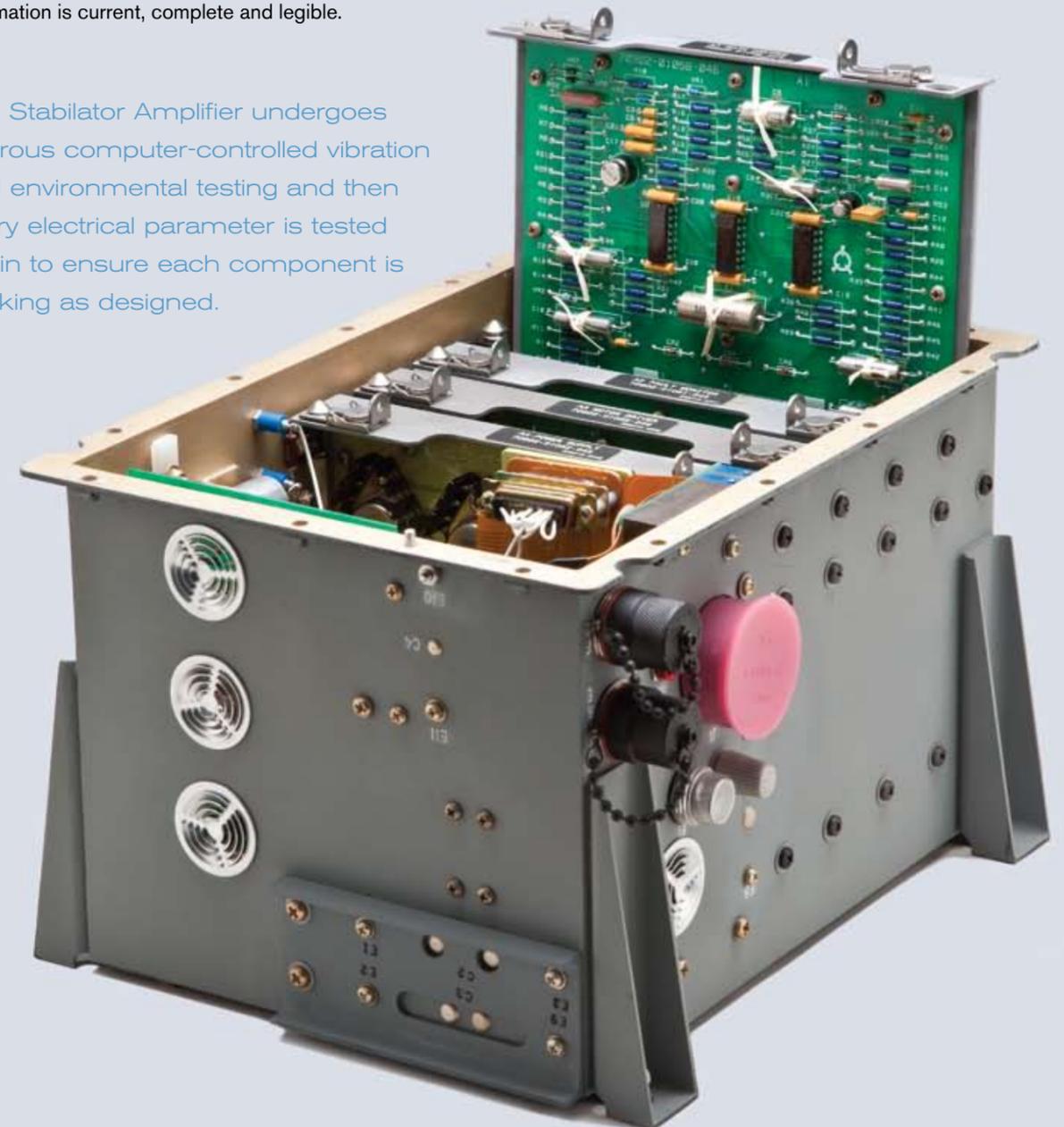
QUALITY IS OUR FOUNDATION.

Rotair's commitment to quality is reflected in everything we do, from the purchase and inspection of the simplest standard hardware, through carefully documented processes, to the production of our most complex components. This commitment to quality extends to final inspection, packaging, and shipment to the customer.

Our stringent quality procedures require that we maintain complete records on the manufacturing, testing and inspection of all components and we employ digital bar-coding with computerized manufacturing and inventory control to help manage the process. Significantly, our Quality Assurance department reports directly to the President.

The quality process includes on-site surveys of our subcontractors—reaching down to the lowest tier vendors—before orders are placed. We thoroughly check parts and components arriving at our plant against drawings and specifications before acceptance. Subcontractor product is subject to continuing inspection during the entire production cycle. Our Technical Data Department maintains up-to-date drawings and specifications to ensure that all information is current, complete and legible.

The Stabilator Amplifier undergoes rigorous computer-controlled vibration and environmental testing and then every electrical parameter is tested again to ensure each component is working as designed.





Rotair is the most comprehensive source anywhere for FAA-PMA approved parts with over 3000 PMAs currently held.

Held to the highest standards.

THE ROTAIR AEROSPACE QUALITY MANAGEMENT SYSTEM (AQMS) MEETS THE HIGHEST STANDARDS OF COMPLIANCE IN THE AEROSPACE INDUSTRY.

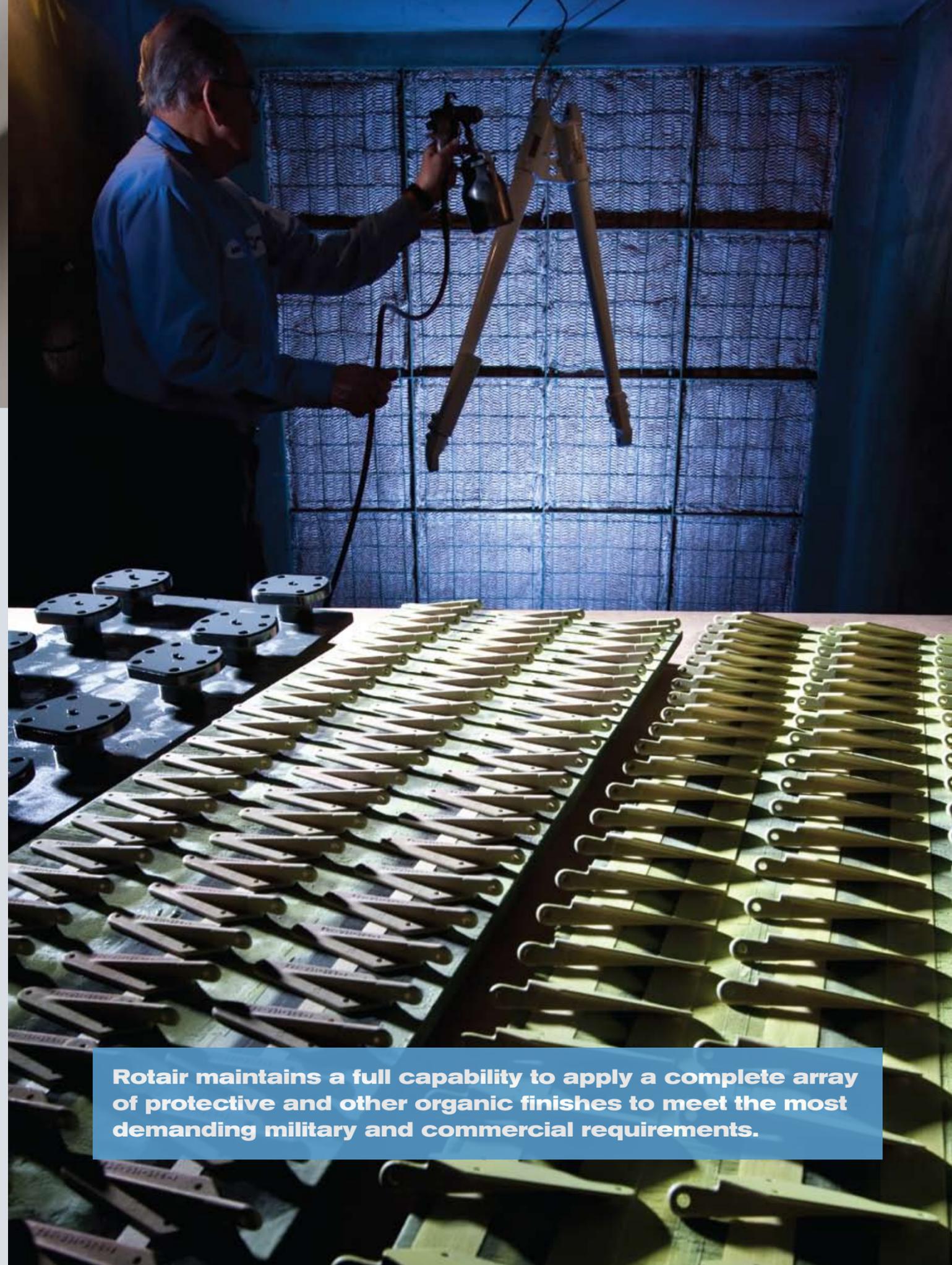
Our AQMS is registered with the International Organization for Standards under current **ISO 9001** and **AS9100** certifications. The system also conforms to U.S. Federal Aviation Administration (FAA) Part 21 requirements for Parts Manufacturer Approval (PMA).

As an **FAA Repair Station**, Rotair has the capability to overhaul and repair all makes and models of Sikorsky and Bell commercial helicopter components under *FAA Certificate # OHBR591K*.



Precision Machined Tungsten Weight for Black Hawk Bifilar Assembly.

Applying the final finish to an S-61's left hand Upper Tube Assembly, while legions of other primed parts await their turn. ▶



Rotair maintains a full capability to apply a complete array of protective and other organic finishes to meet the most demanding military and commercial requirements.

The right tools.

ROTAIR EMPLOYS THE LATEST IN HIGH TECHNOLOGY INSPECTION AND TESTING EQUIPMENT.

Typical of this advanced equipment is a coordinate measuring machine offering the fastest and most accurate checking of parts against specifications, and a Bendix 6040 Formax™, to measure and record the geometry of round parts with extreme precision.

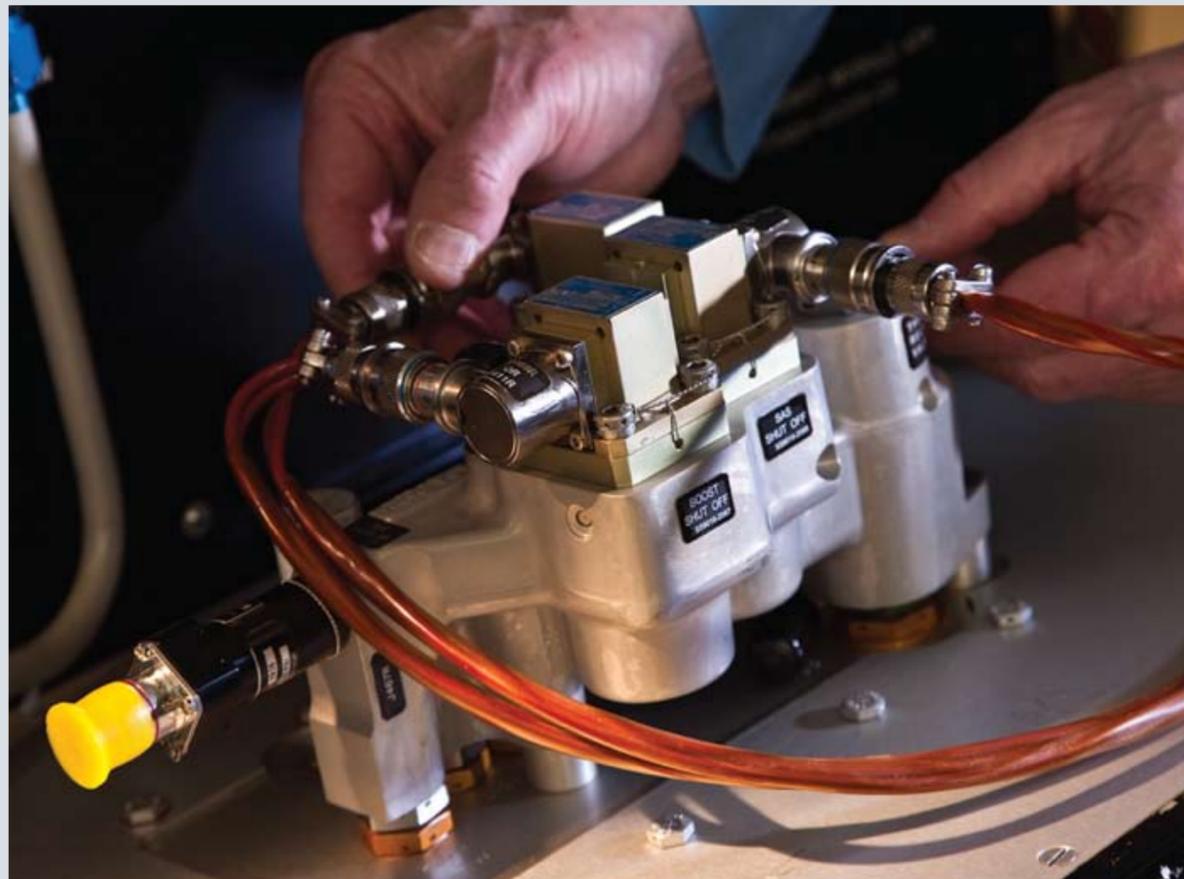
Rotair has invested millions of dollars in inspection and production testing equipment.

The specialized equipment in our environmentally controlled inspection area includes a complete selection of hardness testers, optical comparators, an electronic surface finish instrument, film and plating thickness testers, as well as a complete array of gauges and measuring instruments.

Our production department employs sophisticated testing equipment including a test vibration system, a computer-controlled environmental chamber capable of cycling from -87° to +191° Celsius, electrical, hydraulic, and pneumatic test stands, and sophisticated avionics test equipment.

Complementing these capabilities is a Class 100,000 "Clean Room" capable of exceeding Class 10,000, if required.

UH-60 Pilot Assist Module undergoing hydraulic testing in Rotair's "Clean Room."



The right stuff.

OUR PEOPLE ARE THE KEY TO ROTAIR PRODUCTS AND SERVICES.

We proudly attract and retain top personnel. They have years of experience in the design, engineering and production of complex helicopter parts. Because of our specialization in rotary wing components we understand the importance of strict attention to detail in every phase of manufacturing, assembly and testing.



A Rotair artisan "safety-wires" a Blackhawk Damper nearing final assembly.

Our creative engineers have innovated proprietary systems, tools, and fixtures which ensure that the fabrication of components results in the highest quality items.

Symbolic of our regional heritage and spirit, our Bridgeport facility is located in an historic, refurbished nineteenth century factory housing two of Connecticut's oldest elevators. Rooted in the tradition of Yankee ingenuity and coupled with Information Age vision, the innovators of Rotair possess an unparalleled pride in their craft.



Landing gear and switch assemblies must repeatedly react exactly at the moment of touchdown. For every Rotair component, exacting records are kept for years after each part is shipped so the details of its manufacture and inspection are fully tracked.

The pursuit of perfection.

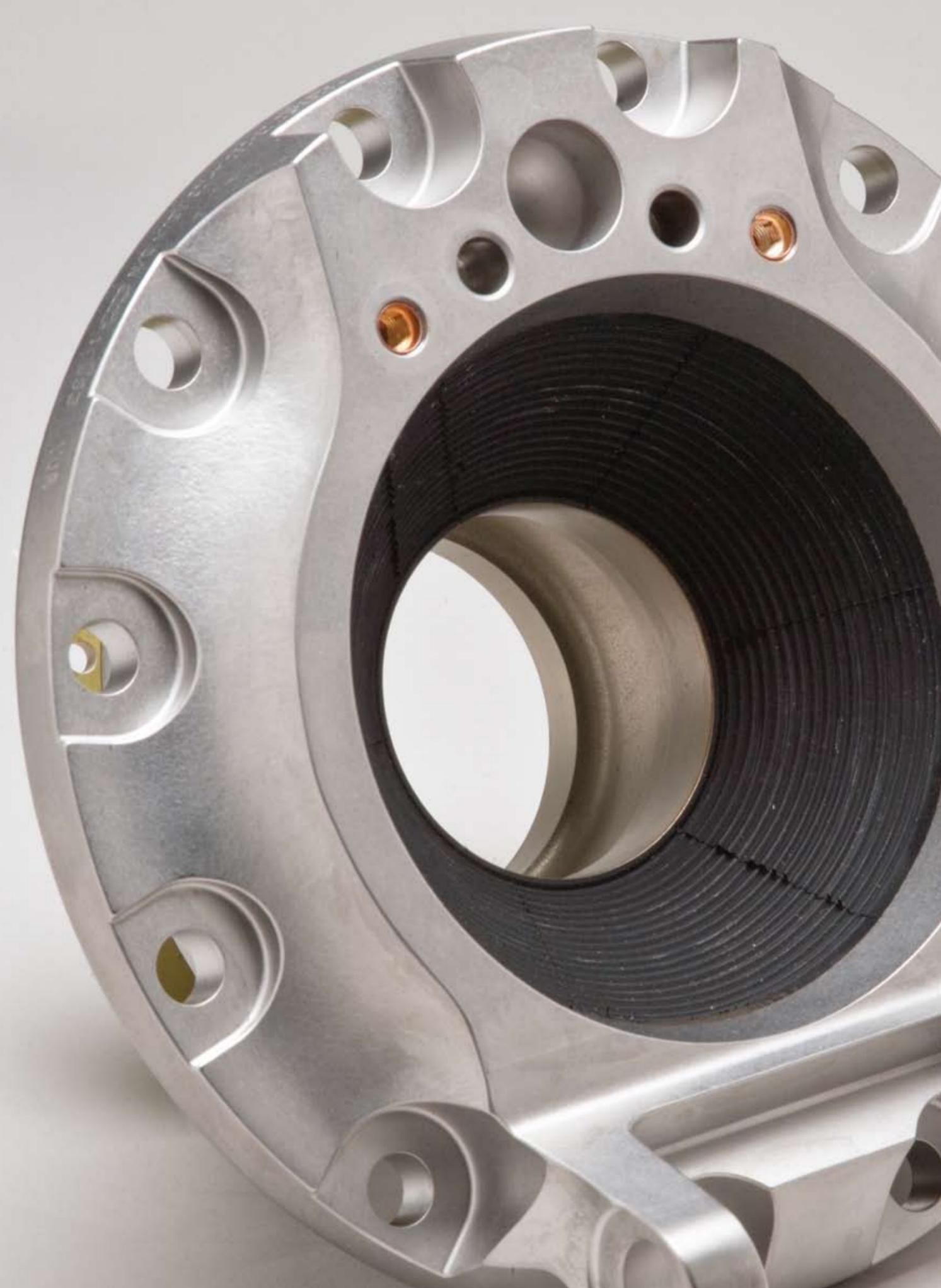
WE STRIVE FOR EXCELLENCE IN EVERY ASPECT OF THE SERVICES, PARTS AND PRODUCTS WE PROVIDE.

The result of this attention to quality in our organization and our procedures is a proven record of excellence. Our parts are as reliable as those of the original manufacturer and often preferred by our customers. Rotair maintains a vast inventory of parts, many not available from any other supplier.

Allow us to show you how our team of perfectionists can provide you with the safest and most reliable parts and services available anywhere.



Plate Assembly for the Blackhawk's Tail Rotor.



“If a man is in need of rescue, an airplane can come in and throw flowers on him, and that’s just about all. But a direct lift aircraft could come in and save his life.”

– Igor I. Sikorsky



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