



Components Repair Services

StandardAero Repair Components is dedicated to providing customers with the best possible maintenance and repair services to help them achieve their operating missions. We are committed to making every customer transaction as smooth as possible by providing excellent customer support, competitive pricing, reliable on-time delivery, superior quality and industry-leading repair development.

Our Track Record

- Productive partnerships with leading suppliers
- Preferred supplier to all the major OEM's
- Proven new-repair development capabilities – 16,000 unique repairs
- Capable of over 9,000 part numbers for overhaul
- Over 5,000 part numbers overhauled
- Committed to Continuous Improvement, Six Sigma, and Lean Manufacturing

Key Benefits:

- With six repair stations located within the United States, Europe, and Asia, StandardAero has over one million sq. ft. of floor space
- Experience machining exotic materials
- Expertise in complicated, close tolerance work
- ~500,000 sq. ft. (45,000 sq. m.) climate-controlled facility (Cincinnati)
- Clean room, offering controlled environment for composites

Repair Development:

- ESM repair industrialization
- OEM departure record repairs
- Source controlled repairs
- Dedicated RD cell and support staff
- Custom repair development
- In-house tool design and fabrication

Certifications:

- FAA (United States)
- EASA (Europe)
- ANAC (Brazil)
- CAAC (China)
- CARC (Jordan)
- DCA (Thailand)
- DGCA (Indonesia)
- CAA (United Kingdom)
- Transport Canada
- ISO 14001
- ISO 9001
- Nadcap

TO FIND OUT MORE about StandardAero Repair Component Services, contact your area representative or visit: standardaero.com/components

ENGINE PROGRAMS

CFM International

CFM56-2, -3, -5 & -7, LEAP 1A/1B

Engine Alliance

GP7000

General Electric

CF6-50, CF6-80A, CF6-80C2, CF6-80E1, CF34-3, CF34-8, CF34-10, GE90, GENx, F110, LM1600, LM2500, LM5000, LM6000, LMS100

Honeywell

T55, 36-150, 85 series, 131-9 series, TPE331, TFE731, ALF502/207, RE220

IAE

V2500-A1/A5 & D5

Pratt & Whitney

F100, PT6A, PW100, PW2000, PW4000, (94", 100", 112"), GTF, F117, F119, F135

Rolls-Royce

RB211, Trent, T56, AE1107, AE2100, M250, RR300, 501K

AIRFRAME PROGRAMS

BOEING

737NG, 767, 777, B717/MD80, DC10

Contact Information:

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Components Capabilities

Composite Capabilities:

- Composite laminates
- Cold bonding process:
 - Epoxy adhesives
 - Wet lay-up repairs
 - Application of abradable materials, rubber type and epoxy type
 - Applying coatings: epoxy, polyurethane, sermetel, and dry film lubricants
- Autoclave: 10' long x 6' wide
- Climate-controlled bonding and clean rooms

Inspection Equipment:

- Extensive measurement equipment
 - CMM (4) largest 120" x 70" x 59"
 - Jones Comparator with QC control
- Non-Destructive Test (NDT), certified level III
- FPI, MPI 144" length, x-ray, eddy current
- Pressure testing
- Metallurgical lab facilities
- Air flow testing

Types of Parts Overhauls:

- Acoustical liners
- Actuation levers
- Bearing housings
- Bellcranks
- Blade retainers and spacers
- Carbon seals
- Clips and retainers (all types)
- Composite repairs
- Compressor blades and vanes
- Compressor shrouds

- Cooling plates
- CRF assy and components
- Engine mounts
- Fan blades
- Fan frame assy and components
- Fan shrouds
- Gearshafts and gear adapters
- Hangers
- HPT and LPT hot section airfoils
- HPT shroud support assemblies
- Knife edge seals (dabber weld)
- Large diameter (GE90) fan case modules
- LPT cases
- Oil tubes
- Power turbine components
- Seals (rotating and non-rotating)
- Shafts (Fan, LPT, HPTR, PT)
- Spacers and covers
- Spanner nuts
- Spinner cones
- Thermal shields
- Turbine rear frame assemblies
- Vent and air seals

Special Processes:

- Light, heavy, and multi-step alkaline cleaning
- Steam cleaning
- FPI and MPI
- Radiographic (X-ray)
- Ultrasonic
- Eddy current (hand-held and robotic)
- Flow testing
- Coordinate measuring machine

- On-machine inspecting using faro arms
- Powder, wire, and HVOF thermal spraying (four robotic booths)
- Heat resistant enamel paint
- AEP diffusion aluminide
- Conversion coatings (Al and Mg)
- Dry film lubricant
- Metallurgical lab
- Alodine
- Plating (Nickel, Copper, Tin, Silver, Cadmium, and Chrome)
- GTAW (all materials, including titanium)
- Dabber welding (knife edge seals)
- Electron beam welding
- Spot resistance welding
- Laser welding and cladding
- Torch brazing
- High temperature furnace brazing
- Inert atmosphere chambers
- Furnace heat treating (local and full)
- Induction heating (braze/heat treat)
- Surface protection, lubricants, bonding agents
- Wet and dry abrasive blasting
- Glass bead blasting
- Plastic media
- Automated and manual shot peening
- High-pressure water jet stripping
- Lathes, mills, VTLs, HBMs, grinders
- Die sink EDM/graphite
- Spark erosion grinding
- Laser/plasma cutting
- Balancing
- Autoclave

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