



Aero Engine Component Repair Services

Repair Highlights

- + Accessories and Components (A&C) have comprehensive process and repair development capability, improving yield and minimizing replacement parts cost

Repair Overview

Modern aero engines are modular in design and use a variety of complex manufacturing techniques to produce critical rotating and static components including thin wall castings, fabricated assemblies as well as forged and machined parts. Each is designed to deal with both mechanical stress and to cope with sometimes hostile working environments including thermal cycling, contamination and foreign object damage.

In-service Degradation

These robust components provide many years of reliable service, however over time they can degrade, suffering from mechanical wear, corrosion and erosion, eventually becoming unsuitable for continued service on the engine.

Repair Solution

Once a part is declared unserviceable, operators face the choice of purchasing new high cost replacement parts or to seek an alternative remedy using a specialist aero engine component repair company. A&C offer tried and tested component repair solutions for a comprehensive range of parts including housings, vanes, seals, plenums and electric starter motors.

- + OEM approved repair schemes
- + Repair of brazed and welded assemblies
- + Dimensional restoration by welding and plasma spray
- + FAA-DER repair development
- + Testing & overhaul electric starter motors
- + Component exchange service/warehouse services

Repair Development Service

A&C Duncan, South Carolina supports the global aviation industry with repair services is backed by OEM and regulatory approval. Our experienced engineers are capable of fault diagnosis and full repair development, including reverse engineering and DER repairs.

| Process Capability | Component Type | | | | |
|-----------------------|----------------|-------|-------|---------|---------------|
| | Housings | Vanes | Seals | Plenums | Elec. Starter |
| Full Machine Services | • | • | • | | |
| Plasma/Thermal Spray | • | • | • | | |
| Heat Treatment | • | • | • | | |
| Composite Repair | | | | • | |
| Weld/Braze Repair | • | • | | • | |
| Repair and Overhaul | | | | | • |





SERVICE CENTRES

EthosEnergy Accessories and Components
Unit 26 Wellheads Industrial Estate
Wellheads Crescent
Aberdeen, AB21 7GA
United Kingdom
Tel: +44 (0) 1224 255810
accessories@ethosenergygroup.com

EthosEnergy Accessories and Components
66 Prospect Hill Road
East Windsor, CT, 06088
USA
Tel: +(1) 860 292 3115
accessories@ethosenergygroup.com

EthosEnergy Accessories and Components
240 Parkway East Suite 100
Duncan, SC, 29344
USA
Tel: +(1) 864 249 2000
accessories@ethosenergygroup.com



EthosEnergy (US Corporate Office)
Brookhollow Central I, 2800 North Loop West
Houston, TX 77092

EthosEnergy (UK Corporate Office)
Ethos House, Craigshaw Business Park,
Craigshaw Road, Aberdeen, AB12 3QH

EthosEnergy is a leading independent service provider of rotating equipment services and solutions to the power, oil & gas and industrial markets. Globally, these services include facility operations & maintenance; design, manufacture and application of engineered components, upgrades and re-rates; repair, overhaul and optimization of gas and steam turbines, generators, pumps, compressors and transformers; delivery of gas turbines and generators, and supply of overhauled and warranted equipment on a FAST TRACK basis.