



One-stop shop for
**comprehensive
MRO solutions**

*Delivering reliable quality performance and
a differentiating customer experience with
competitive economics*

etihadengineering.com

الإتجاه
ETIHAD
ENGINEERING



Etihad Engineering offers industry leading aircraft maintenance and engineering solutions including airframe maintenance and overhaul services. We have vast experience on Airbus and Boeing aircraft, delivering an extensive range of services such as advanced composite repair, cabin refurbishment and component repair.

Our multinational team of over 2000 professionals is driven by a dynamic culture of excellence. Our differentiating strength is our passion and commitment to provide an outstanding experience to customers from all over the world from the inception of a project, throughout the duration to its on-time completion and beyond.

Cutting edge processes are used at our facility from centralised planning and control to live dashboards to monitor projects in real time. Our focus is on being a centre of excellence for the Airbus A380 and the Boeing 787 Dreamliner and expanding our capabilities on new generation aircraft like the A350 and innovative technologies.

Situated at the very heart of one of the world's most prolific aviation growth markets, Etihad Engineering is a part of Etihad Aviation Group. We are spearheading Abu Dhabi's vision of being a global aerospace hub of the future and playing a crucial role in supporting economic growth and diversification in the United Arab Emirates.



Aircraft Maintenance



Etihad Engineering is a preferred MRO solutions provider for airlines, OEMs and aviation operators from around the world due to best-in-class turnaround times, competitive pricing, and the provision of services customised to meet and exceed customer expectations.

While our extensive experience and strong expertise on all major Airbus and Boeing aircraft types enable us to manage complex projects efficiently and successfully, our dedicated customer support at all stages of the project helps us build lasting relationships with our customers from all corners of the globe.

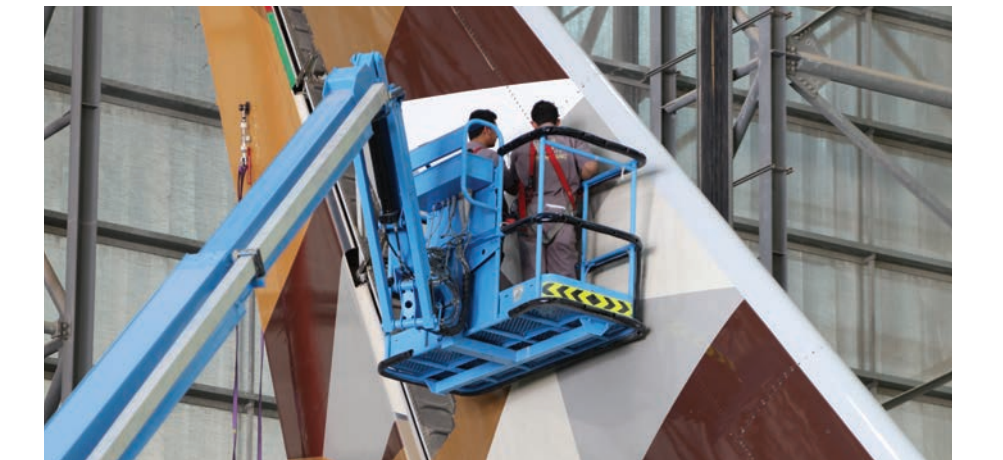
Our status as a world leading maintenance organisation is reflected in our membership of the Airbus MRO Alliance (AMA).

Our multinational team delivers critical support, ensuring every customer gets the highest quality of service. Our goal is to deliver the fastest possible aircraft turnaround leveraging decades of hands-on experience and expertise on a wide range of aircraft types.

Etihad Engineering has state of the art facilities and continues to invest in infrastructure to support the growing business. Aircraft hangars at the 500,000 sqm facility cover approximately 42,000 sqm including

10,000 sqm of aircraft painting facilities and a custom-designed hangar that can accommodate up to three A380 aircraft simultaneously. Around 140,000 sqm of aircraft parking area is also available for light checks and non-scheduled maintenance work.

To support our global customer base, we also have partner facilities operated by FAdEa in Cordoba, Argentina, bringing Etihad Engineering closer to our customers and offering additional scope on a range of aircraft types and services.





Aircraft Maintenance



Our customers benefit from our wide range of services from airframe services including but not limited to:

- ▶ Major structural repairs
- ▶ Cabin modifications/retrofits
- ▶ Connectivity embodiments
- ▶ Major OEM/vendor modifications
- ▶ Aircraft damage recovery services
- ▶ Component repair and overhaul

Our Customer Focus and Engineering teams will work with you to enhance the work package and reduce operating costs, thus improving the profitability of your operation. Our expertise in delivering a wide range of aircraft solutions is matched by our commitment to ensure a seamless and smooth customer experience from planning and execution to delivery and beyond.

Our comprehensive range of services, from parking to painting, ensure that Etihad Engineering can manage aircraft returns and deliveries from our facilities in Abu Dhabi, supporting the global leasing community as well as airline operators.





Painting Services



Our multinational team of professionals delivers remarkable results when it comes to aircraft painting. Etihad Engineering teams regularly deliver complex aircraft liveries and rebranding for customers on multiple aircraft types including new platforms.

The world's first full chemical stripping and painting of a Boeing 787 outside the Boeing network was successfully performed at Etihad Engineering for one of the largest airline groups globally.

We have two dedicated paint hangars capable of taking aircraft types up to A340-6 and B777-3, as well as an in-house large format decal production facility with the capability to design, approve and manufacture large scale decals for external fuselage applications.





Cabin Services



Our workshops are well-equipped to carry out a wide range of cabin services such as cabin maintenance, repair and overhaul, including refurbishment and configuration as per customer specifications, overhaul of cockpit seats, refurbishment of attendant and passenger seats, trim panel covering, seat cover and curtain fabrication, carpet cutting and edging, technical laundry, aircraft interior deep clean and much more.

Etihad Engineering is the first MRO in the Middle East to obtain an EASA and GCAA Part 21 Design Organisation and Production Organisation approval to undertake major cabin modifications (STCs) and produce cabin parts.

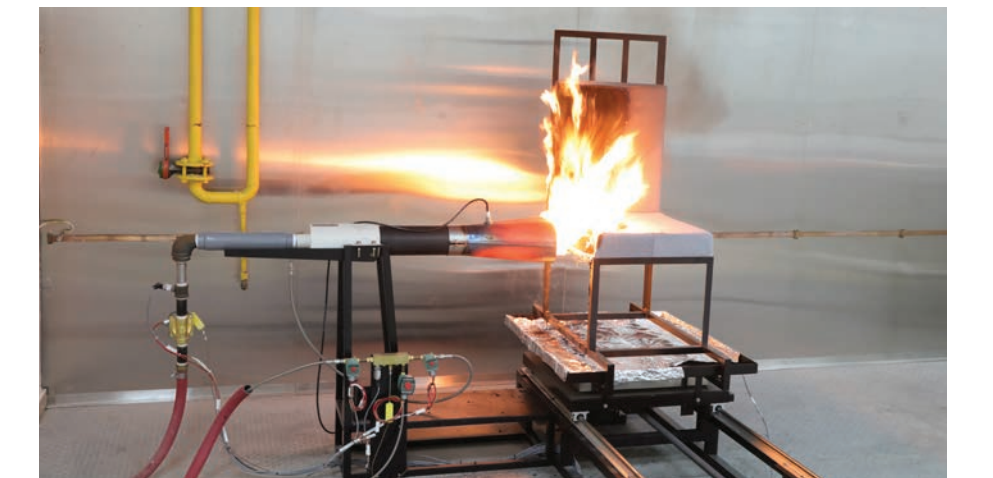
The Middle East's first flammability testing facility for aviation has been set up by Lantal Textiles AG (Switzerland) at Etihad Engineering, offering flammability testing to meet EASA and FAA requirements.

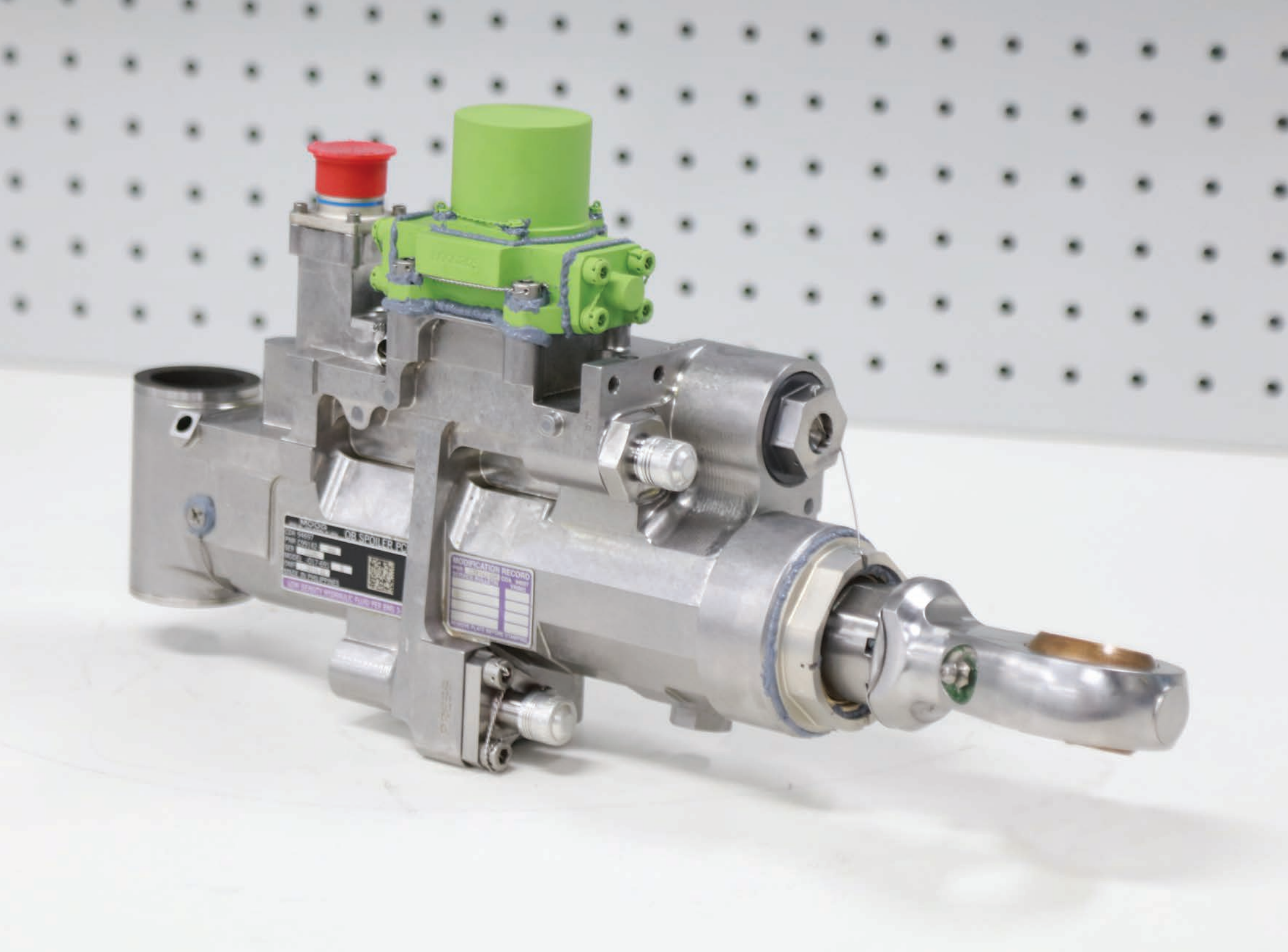
These capabilities are consistently helping our customers to deliver the highest levels of cabin standards to their passengers, while maximizing operational efficiencies through the most cost efficient cabin configurations.

We offer a vast array of cabin maintenance, modification and repair possibilities for galleys, toilets, sidewalls, monuments, IFE, and plastic repairs in addition to the

manufacture of all internal and external aircraft placards and decals, using the most advanced machinery and equipment.

We have a proven track record of delivering world class cabin standards on budget and on time to airlines around the world and we have proudly delivered complex multi-class cabin reconfiguration and overhaul projects on hundreds of narrow-body and wide-body aircraft, including the A380.





Component Services



We take pride in being a one-stop-shop for our customers with our airframe services complimented by our consistently expanding component capabilities. Etihad Engineering is steadily increasing its component capabilities on various platforms in close collaboration with key OEMs. We are focusing on the B787, A380 and new platforms like the A350 entering the market while maintaining and enhancing our capability on current platforms.

Our dedicated component shops located onsite are spread over 6,000 sq m, with test, repair and overhaul capability for more than 7,400 part numbers of Airbus and Boeing aircraft.

Mechanical shops

- ▶ Safety Equipment
- ▶ Fuel
- ▶ Pneumatic
- ▶ Hydraulic
- ▶ Mechanical
- ▶ Wheels and Brakes
- ▶ Bottle - Cylinder

Avionics shops

- ▶ Navigation/Communication/Radar
- ▶ Automatic Test Equipment
- ▶ Electrical
- ▶ Instrument
- ▶ Battery

Calibration Laboratory

- ▶ Pressure - Vacuum
- ▶ Force - Temperature
- ▶ Torque - Mass
- ▶ Dimension
- ▶ Electronics

Inflight Entertainment (IFE) Shop

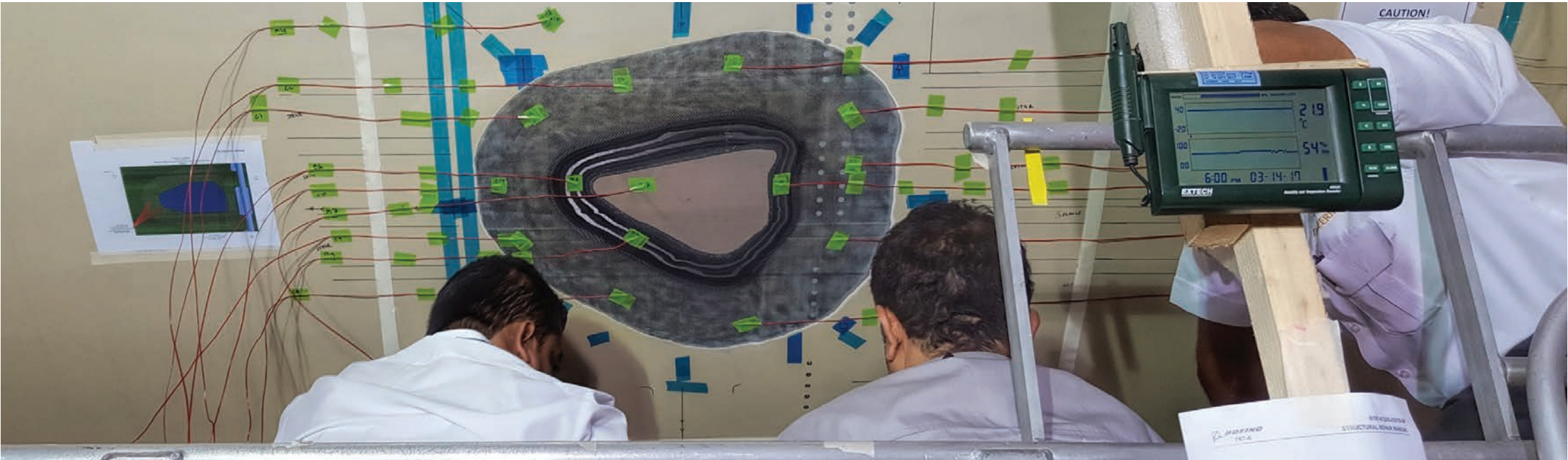
Structure and Advance Composite Shop

To view and download our complete component capability list, please visit www.etihadengineering.com





Additional Services



Casualty management

We understand the urgency of resolving an aircraft on the ground (AOG) situation. Our experienced service teams are rushed to the site of the aircraft to carry out the necessary maintenance and repair to get your aircraft back into the skies in the shortest possible time.

Complex structural repairs

We carry out major repairs for metallic and composite airframes, nacelle and thrust reverser systems and possess off-the-shelf repair schemes for more than 6,000 damage scenarios.

Spares trading

Our spares sales and rotables trading business is now available to serve an international customer base offering surplus consumable and expendable (C&E) spares as well as rotables from Etihad Airways and Etihad Engineering stocks.

Aircraft recovery

Etihad Engineering is fully equipped to recover multiple types of aircraft in various scenarios and is developing a centre of excellence for aircraft recovery training in Abu Dhabi, offering world leading training to airline staff, airport fire and rescue teams and military organisations.





Design, Engineering & Innovation



The Design, Engineering and Innovation team at Etihad Engineering provides industry leading design and certification solutions (EASA/GCAA 21J), part production (EASA/GCAA 21G) and engineering support solutions (Part M, Part 145) to Etihad Airways and customers from all over the world.

As a founding member of the Independent Aircraft Modifier Alliance (IAMA), we have the knowledge and the capability to manage and deliver all your modification requirements.

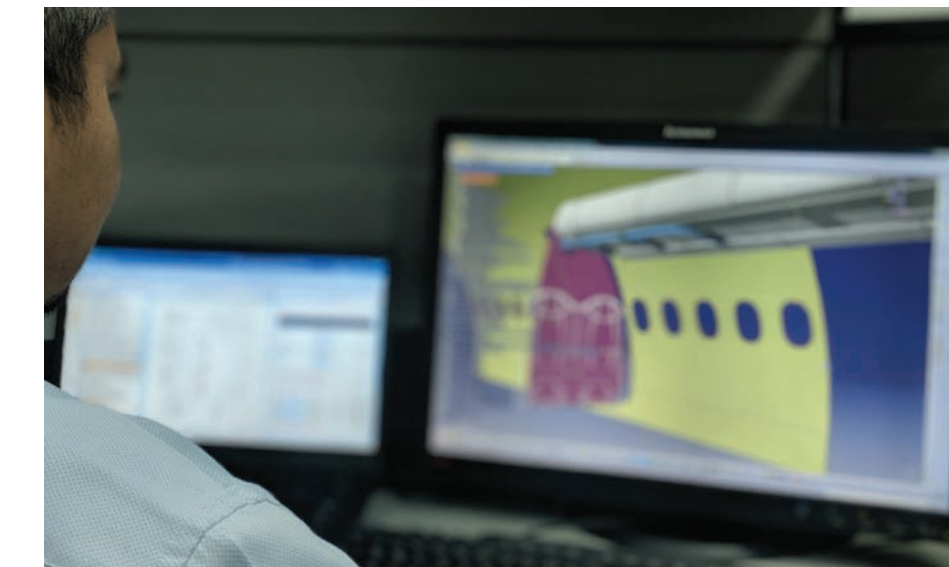
Design

Etihad Engineering is an EASA and GCAA Part 21J Design Organisation Approval (DOA) holder, and a one-stop-shop for all aircraft cabin modification needs. The Minor and Major (STC) scope of approval facilitates complete cabin conversions for all types of large aircraft, both commercial and VIP.

Production

Etihad Engineering holds an EASA Part 21G Production Organisation Approval (POA) and offers competitive solutions for cabin interior parts, modification kits, and trim and finish refurbishments. Our Production Organisation manufactures metallic, polymer and soft furnishing parts for the aircraft cabin and cargo compartment,

as well as exterior decals and cabin placards. Etihad Engineering is at the forefront of additive manufacturing and supports a number of regional operators with part production using Fused Deposition Modeling (FDM) and Selective Laser Sintering (SLS) additive manufacturing technologies.





Design, Engineering & Innovation



Engineering

Our engineers are available 24/7 for fleet management services and AOG support, offering CAMO services, repairs and troubleshooting for line maintenance, base maintenance and workshops.

We have robust hands-on experience in efficient airline and MRO operations for the following aircraft types: A320 family/A320neo/A330/A340/A380/A350/B737/B757/B767/B777/B787.

Innovation

Ethad Engineering develops highly innovative solutions in collaboration with suppliers, universities, researchers and OEMs, offering advisory, project management and development services. We currently support our partners in the development of novel solutions related to MRO efficiency, big data and predictive maintenance, intelligent cabin technologies, next generation inflight connectivity, additive manufacturing and airline operational efficiency.

We developed the world's first airline-operated flying testbed - an Etihad Airways aircraft reconfigured to work as a testbed to test and qualify innovations.



AIRCRAFT/ENGINE TYPES			STATIONS								
			AUH	AAN	DUB	JFK	LHE	LHR	MAN	MEL	SYD
A319 A320 A321		CFM56	€	€	€		€	€	€	€	€
		V2500	€	€	€		€	€	€	€	€
	Neo	CFM LEAP	€								
		PW1000G	€								
A330	-300 -200	PW4000	€		€	€	€	€	€	€	€
		Trent 700	€	€	€	€	€	€	€	€	€
		CF6-80	€		€	€	€	€	€		€
	-200F	Trent 700	€	€	€	€	€	€	€	€	€
A340	-300 -200	CFM56	€		€	€	€	€	€	€	€
	-600 -500	Trent 500	€			€	€	€		€	€
A350		Trent XWB	€			€		€	€	€	
A380		Trent 900	€			€		€		€	€
		GP7200	€		€	€		€		€	€
B737	Classic	CFM56	€		€			€			€
	NG	CFM56	€	€	€			€	€		
	Max	CFM LEAP	€								
B747	-400	CF6-80	€		€	€		€		€	€
		PW4000	€		€	€		€			€
		RB211	€					€			€
	-800	GE90	€								
B767		CF6-80	€		€			€	€	€	€
		PW4000	€		€			€	€	€	€
B777	-300 -200	PW4000	€					€			€
		Trent 800	€		€			€		€	€
		GE90	€		€	€	€	€	€	€	€
B787		GE90	€		€		€	€	€	€	€
		Trent 1000	€					€		€	
Embraer	ERJ-170/190	CF34	€								

Etihad Airways Line Maintenance



Etihad Airways Technical is a leading provider of aircraft line maintenance; offering 24/7 services to customers from our main bases in Abu Dhabi and other strategically located manned stations around the world.

In addition to EASA Maintenance Organisation Approval, we hold approvals from various other National Aviation Authorities, including UAE GCAA, India's DGCA, Bahrain BCAA, Seychelles CAA, Egyptian CAA, Oman PACA, Saudi Arabia GACA, Jordan CARC, SriLankan CAA, Philippines CAA, Pakistan CAA, Bermuda BCAA, Turkish CAA, Vietnam CAA.

Line maintenances solutions offered to customers include:

- ▶ Certification of Release to Service
- ▶ Minor line maintenance checks up to and including A-checks
- ▶ Minor and major component replacement and servicing (wheel change, MLG seal replacement, etc.)
- ▶ Engines, APU servicing and replacements (boroscope, vibration survey, etc.)
- ▶ AOG recovery
- ▶ Minor composite and structural assessments and repairs (fuselage dents, cargo hold damage, etc.)

- ▶ Cabin maintenance including advanced first and business class seating systems, galleys and IFE
- ▶ Fuel tank entry (fuel sensor replacement, etc.)
- ▶ Aircraft exterior washing (in Abu Dhabi)
- ▶ Aircraft special inspection (bird strike, hard landing, volcanic ash exposure, etc.)





Etihad Airways Technical Training



Etihad Airways Technical Training, part of Etihad Aviation Training, is a 147 Approved Maintenance Training Organisation within the UAE under the General Civil Aviation Authority (GCAA) and also holds European Aviation Safety Authority (EASA) 147 approval.

In a short span of time, the training facility has become a leading provider of hundreds of aviation maintenance courses annually to thousands of professionals from all over the world. The department also has a self-sustaining Graduate Engineer Training programme which nurtures national talent, and supports airlines and customers from across the globe.

Playing a key role in developing the global and regional pool of aviation professionals, Etihad Airways Technical Training is committed to be at the forefront of using the world's leading training systems onsite in Abu Dhabi. The facility in Abu Dhabi uses Boeing's state-of-the-art Desk Top Simulator (DTS) software for training on the B787, and A380 training is imparted using the latest Airbus A380 Competency Trainer (ACT) system.

The virtual classrooms enable highly impactful delivery of courses providing hands-on simulations, leading to better retention of in-depth technical instruction. This not only enhances the learning experience, but also reduces the total practical

hours required for on aircraft training, enabling trainees to return back to their organisation more experienced in applying their hands-on learning.

All training programmes at Etihad Airways Technical Training can be adapted to each customer's individual requirements. We also provide consultation services in establishing training programmes to meet the requirements of the customer and local authorities.

Our key strengths that differentiate Etihad Airways Technical Training are the delivery of a value added training experience by dedicated instructors, use of industry leading training systems, access to aircraft onsite through the Etihad Engineering Maintenance Repair and Overhaul (MRO) facility located next door to the training facility, and the most effective and efficient teaching pedagogy.

Etihad Airways Technical Training is committed to play a frontline role in nurturing human capital nationally and globally for building a promising future for the aviation industry.



The Future

Etihad Engineering puts at your service professionals from more than 60 nations, driven by a winning culture. We deliver industry leading aircraft maintenance and engineering solutions, on time and at competitive rates adhering to world class quality and safety standards.

Our key differentiators are our strong ability to think like an airline, design innovative solutions that enhance your profitability and aircraft standards. We are committed to go the extra mile, add outstanding value to your business, and to meet and exceed your expectations through our entire spectrum of MRO services.

Our investment in new technology, skills and MRO capability has enabled us to become a center of excellence for B787 and A380 aircraft services, and more recently, the A350. We continue to build our capability for new platforms to support the world's leading fleets.

Get in touch with us today to find out how Etihad Engineering's experience and expertise can help you increase the safety, reliability and availability of your fleet and maximise the efficiency of your operations.

It's all about commitment...

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