

# teg



# AVIATION SPECIALISTS



EASA Part 21(J) Design

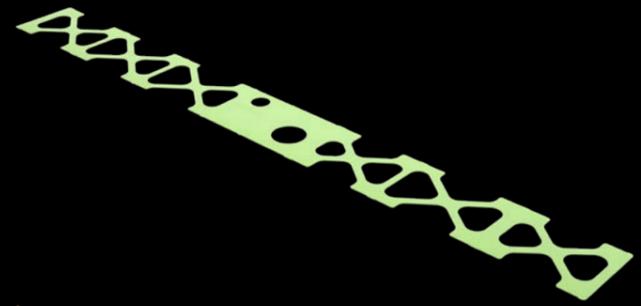
EASA Part 21(G) Production

Part 145 Maintenance



Aviation

**WE ARE INTEGRAL.**



# Aviation Certification

## Certification

- Design Organisation Approval EASA.21J.634

- Production Organisation Approval IIE.21G.0001

- Part 145 Repair IE.145.078

## Scope

Minor Changes & Minor Repairs – Avionics, Cabin & Structures

Structural metallic/non-metallic aircraft parts and assemblies

C6 Equipment

# Engineering Capabilities & Processes

## Software

NX Unigraphics, DelCAM, Solidworks, Imageware, SAP Business One

## Material Preparation

Large stock of aerospace materials

## Milling

3, 4 & 5-axis milling

## Electro Discharge Machining (EDM)

EDM Cutting & Forming.

## Grinding

Flatness, Knurling

## Turning

Twin spindle turning machines

## Fabrication

Press Brake, Router, Rolling, Bending, Assembly

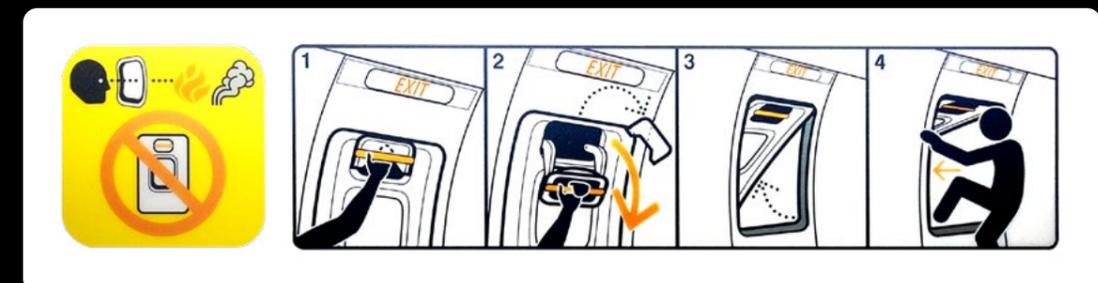
## Surface Treatments

Anodizing, Nickel plating, E-polishing, Teflon coating, Passivation, Bead Blasting

# Aircraft Lessors

A comprehensive **Aircraft Transition Package** allows aircraft lessors to pick and choose from the menu of options.

- Data Ownership Plates
- Livery, Registrations and Mandatory Markings
- Interior Placards
- Emergency Equipment Installations
- Carpet, NTF and EEPMS Changes
- Dado Panel and Tedlar Changes
- Galley Equipment Changes
- DOA-POA kitting



# MRO's

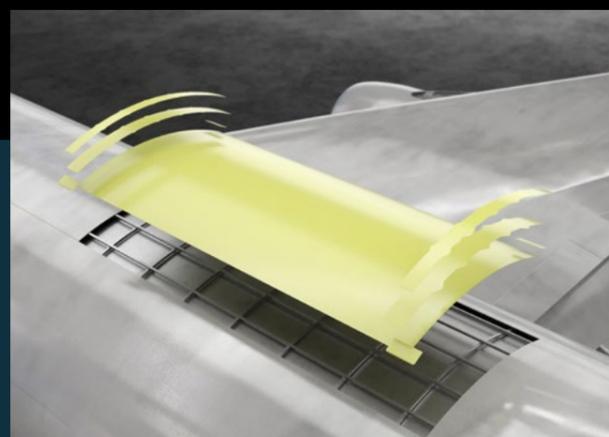
The TEG team understands **time is of the essence.**

Delays are not acceptable especially during busy periods when aircraft are going through the hangar nose to tail. TEG offers the following support to MRO's:

- Passenger and Cabin Attendant Seats
- Galleys and Lavatory compartment repairs
- Passenger cabin furnishings
- Cargo equipment
- Structural fabrications
- Aircraft kits
- Galley worktops and latches
- Aircraft skins
- Seat tracks
- Row 44 Antenna Removal Kit using Boeing SB
- GOGO Antenna Removal Kit using Boeing SB
- ATR Roller Conveyor for Freight Aircraft
- Emergency light lenses for A320
- Titanium seat tracks
- Process Support
- Precision measuring
- Anodizing
- Extended Workbench Capability

TEG is approved as an extended workbench of several MRO's, which involves listing TEG on the Maintenance Organisation Exposition of the MRO.

This allows the MRO to take advantage of the extensive engineering capabilities within TEG, for any project. When the capabilities are not needed, the tap is turned off.



Row 44 Antenna De-modification Kit using Boeing Service Bulletin

# AOG

AOG situations generally arise because a part is not available from the OEM in the timeframe required by the operator/MRO to return the aircraft to service.

TEG has a well-earned reputation for delivering AOG parts certified with EASA Form 1. We have a strong relationship with all the major OEM's. The AOG team in TEG is always available. The customer can contact us on the Friday evening of a bank holiday weekend and expect an immediate answer.



**When an AOG situation arises, the following topics are discussed with the customer:**

Part Number	What is the function of part on the aircraft? This is needed to assess whether the P/N is within the scope of TEG's approvals.	TEG is approved for issuing EASA Form 1 on structural metallic, non-metallic aircraft parts and assemblies. All aircraft types are approved. Hot engine parts, moving engine parts and welded parts are excluded.
Local manufacturing approval	The operator or MRO must obtain local manufacturing approval from the OEM and ensure all engineering data is presented to TEG.	TEG will review the data for <ul style="list-style-type: none"> <li>• Materials</li> <li>• Critical dimensions</li> <li>• Special processes</li> </ul>
Teamwork	The best outcomes come from close collaboration with the material suppliers, aircraft operator, MRO and OEM.	TEG has a dedicated project management team to support AOG situations. They are experienced and have the resources available to deliver the part within the fastest possible timeframe.
Timeframe	When and where is the part needed?	This is discussed thoroughly, and good teamwork can achieve very fast results. Careful planning, prompt communications reduce delay. The best outcomes are where the customer treats TEG as an extension of their engineering department for the duration of the project.

# Airlines

Cost, reliability, and achieving maintenance completion dates are important for aircraft operators. Achieving the fleet schedules can be challenging. Having a competent engineering partner that can certify aircraft parts, and respond quickly with a broad range of capabilities is invaluable. TEG is such a partner. As an extension of your engineering team, this resource can be turned on and off when necessary. It is the best of both worlds.

The TEG team is comfortable dealing with small quantities of parts, designed and produced quickly, certified with EASA form 1.

## TEG helps the airlines with a range of services which includes:

Fabrication of structural and non-structural components to OEM and STC specifications.

Some parts can be difficult to fabricate. Most airlines do not have this capability in-house. Our customers frequently use TEG as the fastest option available.

Reverse Engineered Parts - 3D modelling and fabrication of secondary structure and cabin parts to equivalent or greater standard with EASA Form 1.

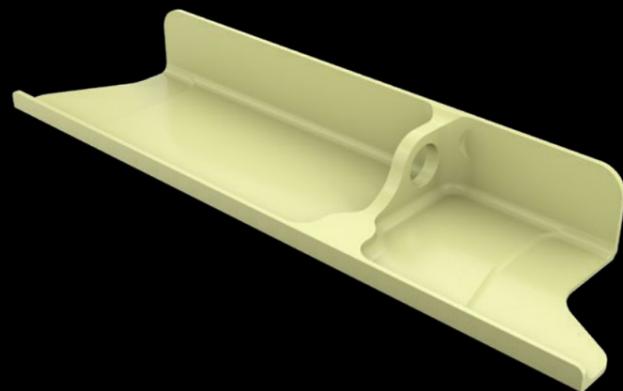
If a P/N is out of production and no longer available from the OEM, or if it would benefit from redesign to improve reliability: TEG has the skills to design, manufacture and certify an alternative P/N with EASA Form 1 and Service Bulletin.

Repair of galley latches, tabletops, scuff plates with EASA Form 1.

Returning an aircraft to a lessor can involve a lot of work, possibly sourcing P/N's which are no longer available. Why not let TEG repair them using our DOA and Part 145 approvals.

## TEG can assist the transitioning of new aircraft into the fleet using our DOA, POA and Part 145 Approvals.

- Literature pockets
- Galleys
- Dado sidewalls
- Overhead storage compartments
- Emergency equipment shadow board
- Bin partitions
- Decals
- Livery



# Freighter Aircraft

Passenger to freight conversions is a growing business, particularly since the covid epidemic. TEG can supply full or partial conversion kits certified with EASA Form 1.

TEG designed a roller conveyor system for all variants of ATR 42/72 aircraft. This system is very popular with logistic companies such as Fedex and Amazon which ship packages using a hub and spoke system.



# Logistics

TEG ships to over 36 countries. Every week oversize deliveries are leaving the premises.

We have a dedicated logistics team managing shipping and customs. It is an area that is often ignored by customers, until some delay occurs, maybe because of incorrect paperwork. TEG can take care of the entire process for the customer, removing this headache. Leave it to us, as we are familiar with it and will take responsibility for getting it to the destination on time.

# WE ARE INTEGRAL



TEG employs **120 people** in a state-of-the-art facility of **66,000 sq. ft.** in Mullingar, Ireland. Our team takes great pride in servicing the engineering needs of our aviation customers in over **36 countries** with **EASA Form 1 certified aircraft parts.**

## Head Office (Ireland)

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**teg**



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Discuss your Project  
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