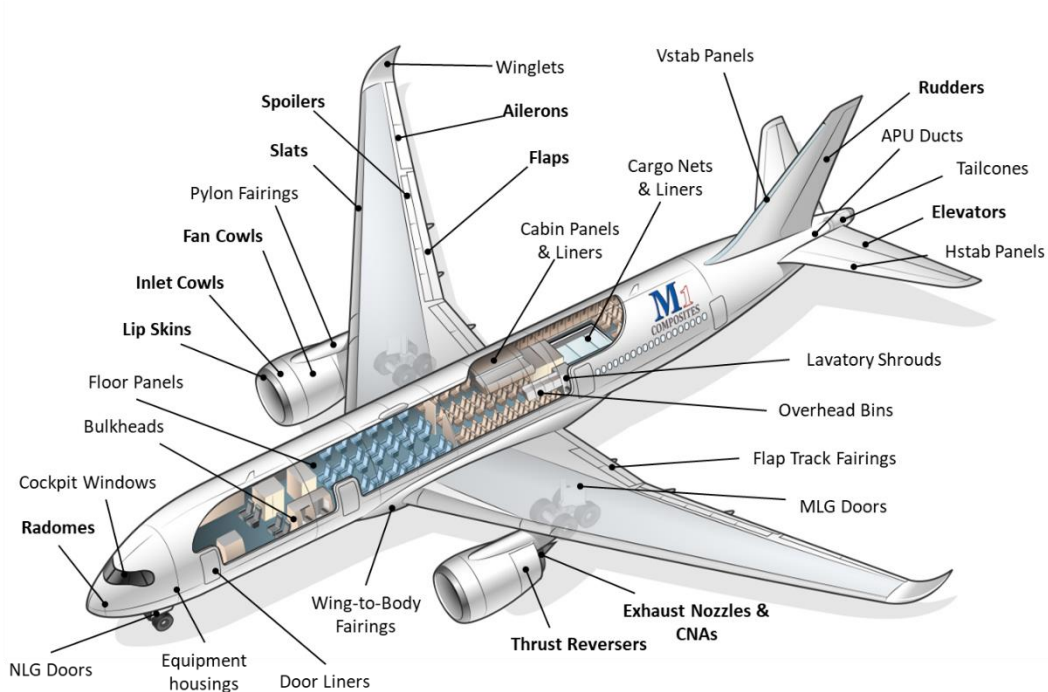




## Capability Overview

M1 Composites has the capability to maintain and repair composite, metallic, and industrial fabric materials. M1 Composites has developed a strong expertise and speciality in maintenance and repair of **FLIGHT CONTROL SURFACES, NACELLES, and RADOMES.**

The equipment, facilities, materials & processes, and technicians required to perform repairs on flight control surfaces, nacelles, and radomes, is the same as those required for a variety of **OTHER** structures and interiors of commercial fixed-wing aircraft.



*Figure 1: Capabilities at a glance*

Refer to Maintenance Policy Manual for the scope of work applicable to these components.

M1 Composites performs maintenance and repairs, including but not limited to: prepreg and wet layup carbon fiber, fiberglass, & Kevlar laminates. Honeycomb (Nomex® & metallic) core and foam core, sheet metal repairs (aluminum, titanium, steel), and industrial fabrics (cut & sew of textiles and tissues).

M1 Composites is also performing various painting repair/task on a variety of aircraft/components that may not be listed in the above list. Such activities are always performed in accordance with the customer requirements.

## 1.1. Flight Control Surfaces

Table 1: Repair Capability List for Flight Control Surfaces

Part Description	Platform
Rudders	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Elevators	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Ailerons	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Flaps	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Slats	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Stabilizers	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series, Piaggio P. 180 (Avanti)
Spoilers	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series

## 1.2.Nacelles

Table 2: Repair Capability List for Nacelles

Part Description	Platform
Inlet Cowls / Nose Cowls	CF6, CFM56, CFM LEAP, PW4000, CF34, RR Trent, GE90, V2500, PW1000G, PW1500G, GEnx
Fan Cowl Doors	CF6, CFM56, CFM LEAP, PW4000, CF34, RR Trent, GE90, V2500, PW1000G, PW1500G, GEnx
Thrust Reversers (Translating and Pivot Doors)	CF6, CFM56, CFM LEAP, PW4000, CF34, RR Trent, GE90, V2500, PW1000G, PW1500G, GEnx
Common Nozzle Assembly	RR Trent, V2500
Exhaust Nozzles and Centerbody	Douglas A4, CF6, CFM56, CFM LEAP, PW4000, CF34, RR Trent, GE90, V2500, PW1000G, PW1500G, GEnx
Pylon Fairings	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family,
Engine Cowls	DeHavilland Dash-8 & Q Series

## 1.3.Radomes

Table 3: Repair Capability List for Radomes

Part Description	Platform
Radomes	Douglas A4, A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, B747, Challenger & CRJ Family, DeHavilland Dash-8 & Q Series, Learjet, Bell 206/407/429, CH-47,

## 1.4.Other

Table 4: Repair Capability List for Other Components

Part Description	Platform
MLG Hinged Door Fairing Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
MLG Fixed Fairing Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
MLG Door Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
NLG Main Door Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
NLG AFT Door Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Fairings & Panels	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
AFT Moveable Fairing Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Cargo Floor Structure	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
AFT Moveable Tail Cone Fairing	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Pylon Lower Fairing Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Pylon Lower AFT Fairing Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Pylon Lower AFT Rear Fairing Assy	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
AFT Fixed Fairing Attach Fittings	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series

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Part Description	Platform
Pylon to Wing Center Fillets – Outer	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Pylon to Wing Center Fillets – Inner	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Pylon FWD Fairing Cover	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Floor Panels	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Toilet Shrouds	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Interior Panels	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Interior Doors	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Sidewalls	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
DADO Panels	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Lavatories	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Galleys	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Class Dividers	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Interior furnishing (closets, doghouses, monuments, bustles, packboards, etc....)	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series

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<b>Part Description</b>	<b>Platform</b>
Cargo Nets	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Cargo Liners	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series, CH-47
Cockpit Windows	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Doors and Access Panels	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Wing to Body Fairings	A220, A320 Family, A310, A330, A340, A350 EMB170/190, B787, B767, B757, B737, B777, CRJ Family, DeHavilland Dash-8 & Q Series
Ducts	A220, B737

## 1.5. Powerplant & Exhaust Components

Table 5: Repair Capability List for Powerplant & Exhaust Components

Part Description	Engine Type	Part Number(s)
Forward Engine Mount Assembly	CFM LEAP-1B	310A6500-1
Aft Engine Mount Assembly	CFM LEAP-1B	310A6600-1
Center Vent Extension Weldment	CFM LEAP-1B	314A6530-1
Center Vent Extension Mixer Weldment	CFM LEAP-1B	314A6530-102
Turbine Exhaust Primary Nozzle Assembly	CFM LEAP-1B	314A6510-1
Forward Plug Assy	CFM LEAP-1B	314A6520-102
Aft Plug Assy	CFM LEAP-1B	314A6520-103
Turbine Exhaust Primary Plug Assembly	CFM LEAP-1B	314A6520-100, -110
Thrust Link Assembly	CFM LEAP-1B	310A6700-1, -10, -2, -5, -6, -9
Fwd Labyrinth	CFM LEAP-1B	314A6510-20
LP Comp Rear Case Assembly	Trent-700	FK25182 and FW16295