



STATEMENT OF CAPABILITIES

Mincham Aviation supports the Civil Aerospace and Defence communities with specialist capabilities in:

Advanced Aerospace & Defence Fabrication Technologies and Related Services

Composite
Sheet Metal
Welding
Machining
Surface Treatment
Heat Treatment
Engineering RDT&E
Project Management
IPT Co-Ordination/Participant

Our focus is the ‘total solution’, whether prototyping or production tasks. Mincham Aviation prides itself on high quality work and providing rapid turn-around times, with competitive, personalised services.

Sheet Metal

Machinery

2 x 3m NC Press Brakes
 NC 1270 Press Brake
 CNC router 2.4m x1.2m
 CNC Punch
 2.4mx10mmNC Guillotine
 3 x Manual Guillotines
 2.4m & 1.2m Rollers
 2 x 160 t Press

Punches
 Notchers
 Folders
 Plus General Sheet Metal tooling

Materials

Aircraft Grade Al Alloys
 Aircraft Grade Steel Alloys
 Marine Grade Materials
 Commercial Grade Materials

Composite

Materials

Carbon Fibre
 Kevlar
 E & S Glass
 Honeycomb
 Epoxy
 Phenolic
 Vinyl Ester
 Prepreg

Processes

Wet Lay-Up
 Autoclave
 Vacuum Bagging
 Pressure Moulding
 Resin Transfer
 Oven cure
 Resin Infusion

3-D Component Printing

High Strength ABS Plastic
 Proof of Concept
 Functional Testing
 Product Cost Reduction
 Vacuum Forming
 Marketing Tools
 Product Mockups



3m Press brake



Sheet metal Component



Composite oven



Autoclave



3-D Component Printing

Welding

Processes

MIG
 TIG
 Oxy
 Brazing
 Arc
 Soldering

Materials/Weldments

Aluminium
 Carbon Steel
 Inconel
 Stainless Steel
 Copper
 Brass

Machining

Machinery

CNC Milling
 CNC Turning
 Cylinder Grinding
 General Milling
 General Turning
 Profiling/Routing

Heat Treatment

Materials

Aircraft Grade Al Alloys
 Aircraft Grade Steel Alloys
 Marine Grade Materials
 Commercial Grade Materials

Provision of design and design approval services

Design Advice
 Innovative Design
 Detailed Design
 Development/Prototyping
 Manufacture
 Integration and Installation
 Design Approval
 T&E – IV&V, OT&E
 Flight Test; UAV & Delivery
 System design and manufacture, and
 Project Management.

Testing

Co-ordinate Measuring
 Machine



Tig Welding



Machined Components



Heat treated components



CNC 3D Router



UAV & Delivery Systems



NOTE; Refer to 'Network Capability Statement' for total capability listing.

Approvals

- **AS9100C**
- **ISO 9001:2000**
- **CASA Design Approval**
- **CASA CAR30 Approval (1-179Z5) (FAA Equivalent)**
- **Authorised Maintenance Organisation (AMO) RAAF P3 Orion (AMO)**

CASA approvals (1-1179Z5 Issue01) (EASA Part 145)

- Maintenance of Aircraft airframe components, engines and engine components
- Composites/fibre reinforced plastic and plastic components
- Cabin & Cockpit furnishings. Limited to Sheet metal and Composite/fibre reinforced plastics.
- Metal and Tubular metal components
- Piston engine components. Engine Cylinders, Engine Crankcases & Engine Exhaust Systems.
- Sheet Metal components
- Turbine engine components. Exhaust Systems.
- Design Approval





Project Examples

Composite-

P3- Orion Pannier systems, Internal Racking systems for RAAF and Civil Aircraft, Military Pods, Military Pylons, Ducting, Consoles, Radomes, UAV's, Airborne Geo research components, Air intakes, General Aviation parts & Non Aviation Engineering Products.



Composite Consoles



UAV's



P3 Pannier System

Sheet metal/machining-

Internal racking systems, Aero-medical loaders, Aero-medical stretchers, Restraints, Cabinets, Equipment racks, Operational Consoles, most aircraft structural / non-structural components & Non Aviation Engineering Products.



Geo Research



Radomes/Ducting



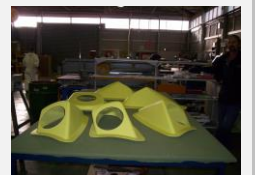
Aero-medical Fit-outs



Pods



Intakes



P3 Orion EWSP

List of Clients.

Aeronautical Engineers Australia
 Australian Aerospace (EADS)
 Babcock
 BAE Systems Australia
 Boeing IDS
 CEA Technologies
 Cobham
 Defence Material Organisation (DMO)
 Defence Science and Technology Organisation DSTO
 FTA
 GDLS
 General Aviation & Regional airlines
 Hawker Pacific

L3 Communications
 Non Aviation Engineering Companies.
 Pearl Aviation
 Raytheon Australia
 Resonance Technologies
 Royal Australian Air Force (RAAF)
 Royal Australian Navy (RAN)
 Royal Flying Doctors (NSW, VIC, SA, WA & NT)
 Sydac
 TAE Aviation
 Uni SA
 Ultra

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