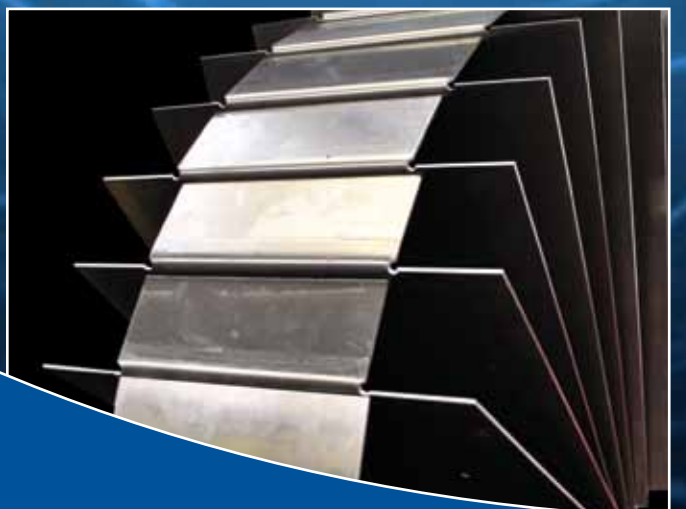


Machining, Fabrication and Welding

With over 80 years experience in Mechanical Engineering, Portsmouth Aviation offers a complete engineering solution to AS 9100 Rev. B and ISO 9001 : 2008 standards from Design through Development, Qualification, Trials, Certification to Manufacture of the finished product. The Company's comprehensive conventional and CNC machining and fabrication facilities extend to almost 10,000 square meters of manufacturing space.



Machining

Modern CNC machinery with offline Mastercam, supported by a large conventional machine shop and first class CNC measurement machines, enables us to specialise in small and medium batch production.

Machine capabilities include:

- 5 Axis Machining 400 x 400 x 400mm
- CNC Turning Centres to 500mm diameter
- CNC Machining Centres to a machining envelope of 1800 x 500 x 500mm
- Conventional Turning and Milling
- Grinding
- Routing

Our customers for machining work include:

- The Ministry of Defence
- The Offshore Industry
- British Aerospace
- Raytheon
- GKN-WHL

Supported by Design Staff and with a total manufacturing capability which includes Metal Treatment, Finishing and Packaging, PA is able to offer a Machining and Fabrication service with the advantage of comprehensive back-up.

Fabrication

PA has spacious fabrication and assembly facilities incorporating Turret Press, bending machines, rolling machines and power presses.

Welding

All welders are approved to British Standard EN 288 and submit test pieces on a regular basis. Procedures include MIG and TIG, MMA, Resistance/Spot Welding and Induction Brazing/Soldering. PA also offers a comprehensive NDT facility including Dye Penetrant and Magnetic Particle examination.

Presses

Machinery in the Fabrication section includes:

- CNC Turret Punch Press
- Power Presses to 100 tonnes
- Brake Press to 100 tonnes

Measurement

A comprehensive suite of measuring and testing facilities is headed by a modern CNC Co-ordinate Measuring Machine. This IMS Merlin has a capacity of 1100 x 1500 x 750mm.

Testing

- Proof Load testing
- Destructive testing
- Tensile testing
- Functional testing
- Vacuum testing
- Fully equipped in-house laboratory
- Salt Spray
- Non-Destructive Testing (NDT)
 - Dye Penetrant
 - Magnetic Particle
 - Hardness and conductivity testing

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