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# Composites for AEROSPACE

www.pct.ae

The aerospace industry is one of the largest users of composite materials. General aviation and space crafts all use a substantial amount of composites both inside and out.

Premier Composite Technology (PCT) have won a contract to manufacture honeycomb core kits for the prestigious Airbus A380 platform. Having gained entry into the exclusive suppliers list for Airbus we will now be able to use our expertise to produce honeycomb core work packages for other platforms and significantly grow this area of our aerospace business.







Manufacturing honeycomb cores is just the start for PCT's aerospace division. Long term plans are to work with customers to further develop the capabilities required to move into more complex areas of manufacture such as stabilized cores and composite layup.







Autoclave Technology



PCT have made significant investment into specialist equipment such as CMM measuring equipment, autoclaves, and Non-Destructive Test (NDT) equipment.

Coupled to this is an aggressive investment plan that is aligned to our growth strategy which will ultimately accumulate in a dedicated 10,000 square meter aerospace production facility.

# Aerospace Facility

- Controlled Environment
- Temperature 18°c to 24°c
- Humidity 45% to 60%
- **Contamination Free Zone** ullet
- Material Handling





## Architecture

Premier Composite Technologies architecture team has undertaken the construction of several projects covering a wide range of high profile complex composite structures Pre-fabrication or modularization are key elements to aid construction Our team of structural engineers, architects and designers work in close cooperation from conception to completion ensuring continuation the technical input to create complex structures using state of the art technology.



### Marine

Gaining experience in Germany during the late eighties and early nineties with the construction of specialised components like carbon fibre/titanium rudders, keels, spreaders and steering systems we now work for world renowned organisations like Whitbread, Volvo, Americas Cup and Maxi Yachts. Today our boats have been tried and tested in some of the harshest environments and amongst the toughest racing fleets in the world, finishing in top positions in Championships.



### Rail

Since establishing our rail division in 2011, the Premier Composite Technologies major growth. We have delivered products to, and continue to work with clients such as Alstom, Deutsche Bahn, and Downer EDI. (IRS certificate)



# Automotive

Premier Composite Technologies automotive unit consists of experienced engineers with a long working history at automotive OEMs or Tier 1 suppliers. Members of our team have worked on long term body engineering of series of cars as well as in development of carbon parts for racing or super sports cars Our in-house capabilities for design and structural analysis allow us to select and develop the best production processes, tooling and mould design, manufacturing of all tooling, prototypes, including prepreg materials, autoclave technology, sampling, pre-series and series production of large volumes utilizing press technologies through automation of many aspects of the process.



### Premier Composite Repairs (Oil & Gas)

Premier Composite Repairs (PCR) product range of ISO 24817:2015(E) and ASME PCC-2 compliant composite repair solutions are designed to restore the structural integrity for both internal and externally corroded critical pipelines, pipework and vessels of any given diameter and geometry.



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