



senior Aerospace BWT

**SENIOR AEROSPACE BWT IS A GLOBAL LEADER
IN ULTRA LIGHTWEIGHT COMPOSITE LOW PRESSURE
DISTRIBUTION SYSTEMS FOR THE AEROSPACE INDUSTRY.**



About Senior Aerospace BWT

Senior Aerospace BWT is based in the UK, with circa 400 employees. A division of Senior plc, BWT specialises in the design and manufacture of proprietary rigid & semi-rigid ultra-lightweight ECS ducting systems with proven ability to reduce cost and weight on aircraft throughout the aerospace industry. BWT is a market leader providing ducting solutions to major OEMs such as Boeing, Bombardier, Embraer & Gulfstream.

BWT has two facilities based near Manchester in the UK - one manufacturing facility and one test facility. Turnover is approximately \$35m p.a. BWT is accredited to AS9100 Rev C & ISO9001. BWT is also a Beneficiary of the UK government's "Sharing in Growth" programme which has a focus on exploitation of new automated manufacturing techniques, lean production, removal of waste, increased efficiency and lower end cost to the customer.

PRODUCTS - Senior Aerospace BWT is able to provide a comprehensive range of products to meet customer requirements, including flexible and semi-rigid ducting, rigid ducting and acoustic silencers, all with thermal insulation if required.

ENGINEERING - Providing innovative solutions for complex design requirements, with engineering design capability, technical support, product qualification and in-house test rig facilities.

MANUFACTURING - Integrated business operating system providing information to support front end sales & operations planning, production scheduling, product tracking and business performance data.

QUALITY - Senior Aerospace BWT is accredited with BS EN ISO9001, AS9100 Rev C and EASA Part 21 Subpart G approvals. Customers can be confident in our ability to design & manufacture products to the highest standard of quality & reliability.

CUSTOMER SERVICE - Commitment to customer support is pivotal to Senior Aerospace BWT's success. On day-to-day issues such as order placement, inquiries, progress and change notification, each customer is allocated a dedicated member of the Customer Service Team.

senioraerospacebwt.co.uk

INNOVATION

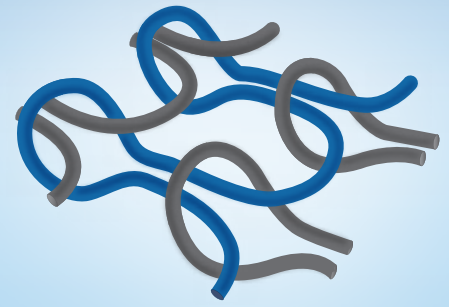
DISRUPTIVE DIGITAL TECHNOLOGIES

BWT has developed, in conjunction with a partner, a new thermoplastic composite product range. BWT have invested \$1.8m in a Composite Development Centre with dedicated engineering resource in support of the development process, to the extent that the Technology Readiness Level is now between TRL levels 7 to 8, with parts due to be manufactured for use on an aircraft platform later this year.

This technology and facility provides BWT with in house capability for the manufacture of 3D “near net-shape” preforms which can incorporate complex features such as beads, flanges and stubs integral to the structure whilst maintaining continuous fibre support throughout.

Matrix materials include PEI Ultem™ 9085 & 9011 and PC Lexan™ FST 9705 with reinforcement materials such as glass and Kevlar™. BWT’s current development focus is on low pressure ducting applications; however there is also the possibility of using this technology in other areas such as electrical housings, radomes and structural components.

BWT is also investing in new Fusion Deposition Modelling (“FDM”) technology in aerospace approved Ultem™ 9085 resins, and already has parts flying on regional aircraft in its Low Pressure ECS Ducting Systems.



KEY BENEFITS

- ▶ Quick and easily scaleable
- ▶ Capability to provide significant cost savings
- ▶ Greater product reliability in comparison with the current recognised thermoset methods
- ▶ NO costly prepreg
NO excessive material waste
NO autoclaves



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