

Boeing Blended Wing Body X-48B

...from Cranfield Aerospace



Developed for Boeing Research & Technology to explore the flight characteristics and control aspects of the BWB configuration, the X-48B has recently completed its 80th successful flight test at NASA Dryden, USA and is now under consideration for the NASA Environmentally Responsible Aviation Programme.

The 8.5% scale model of the BWB, with a wingspan of 6.4m, provides accurate scaling of geometry, mass and moment of inertia characteristics. Consequently, the dynamic flight characteristics of the model can be extrapolated to give accurate estimates of the corresponding full-scale dynamic behaviour. CAe have demonstrated true rapid prototyping technology in support of the Boeing Blended Wing Body programme:

- Turn-key design / build / flight of world-leading aircraft concept
- 'Extreme' innovation
- Carbon Composite structures
- Flight Control technology
- Complete aircraft integration, build and ship
- Support to full scale wind tunnel trials
- Short timescales and rapid development
- Integral part of the Boeing Research & Technology flight test team
- Current programme of conversion to X-48C
- 8.5% scale model with 6.4m wingspan
- MTOW 180kgs
- Accurate scaling of mass and inertia characteristics
- 80 successful flights to date



A demonstration of true rapid **prototyping** technology