

Rapid Technology Demonstrator for Combat Aircraft Manufacturing

Designed and developed in a first-of-its-kind Factory, the representative fast jet fuselage demonstrates how manufacturing capability has been revolutionised in a digitally connected environment, developed in collaboration with more than 50 suppliers and partners.



Reconfigurable and product agnostic assembly

Robotic technology on a flexible floor creates a highly adaptable and affordable manufacturing solution.

- Design changes can be made in real time
- Reduced non-recurring costs
- Reduced need for long-lead tooling significantly reduces timescales
- Ability to produce different products through common area.



Testbed for new technology

- Focus on Net Zero industrial processes
- Exploitation of Artificial Intelligence
- Advanced Additive Manufacturing.

Exploitation of commercial technology

Commercial technologies including robots have been adapted and integrated for combat air manufacturing.

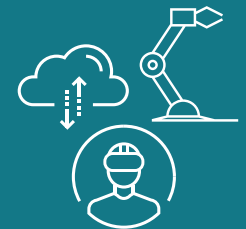
Advanced levels of automation

Over **65%** of the fuselage structure has been built using guided automation.

Digitally led approach

A number of technologies have been demonstrated including:

- Model Based Systems Engineering
- Intelligent Work Instructions
- Advanced Industrial Network through Internet of Things (IoT)
- Remote and collaborative working enabled by digital thread.



BAE SYSTEMS