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BMT Group is an international design, engineering and risk management consultancy, working principally in the defence, energy and environment, marine risk and insurance, maritime transport and ports and logistics sectors.

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BMT Defence Services is the leading independent centre of naval design excellence and through-life support in Europe, with expertise in platform design for surface warships, submarines and auxiliaries. A wide range of government and industry customers engaged in the development of technically complex, highly integrated systems rely on BMT Defence Services for its systems engineering and information systems expertise.

The company is based in Bath and Weymouth in the United Kingdom. It employs over 200 naval architects, marine engineers, engineering consultants and support staff.

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Where truly outstanding people design and deliver engineering success

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Whole warship design and support

BMT Defence Services is Europe’s leading independent centre of excellence in whole warship design and engineering support across the full life cycle from concept to disposal.

 Acquisition and logistics organisations supporting navies in the United Kingdom, Australia, Canada, Chile, Europe and New Zealand have been benefiting from BMT’s impartial advice for more than twenty years.

New platform design

Defence acquisition organisations procuring new surface combatants have to balance many factors to deliver the warships their navies need. These must fulfil the roles defined for them while meeting timely delivery, whole life cost and availability targets. Governments depend on industry to deliver many of these variables. BMT is independent of industrial suppliers by virtue of its ownership structure and often acts as a customer friend and critical partner to government agencies to help them extract the maximum benefit from their suppliers. Defence prime contractors look to innovative specialist companies like BMT for design advice to help meet the needs of their government customers. BMT has a long track record of fulfilling these needs, introducing new technologies and other innovations into the design of the latest warships. In doing so, our designers use their long experience of undertaking in-service platform design change, as well as through life support and safety management, to assure these innovative designs are practicable.

BMT supports its design projects with investment in research and development and operates a technology watch programme identifying and assessing the applicability of emerging technologies. It has developed knowledge management software tools in-house to support its technology watch programme.

BMT combines its belief in the importance of applied research with its strength in practical naval architecture and engineering to contribute to all stages of the development of a new warship.

From concept studies, whole life costing, computational fluid dynamics calculations and other simulation and systems trades off, through systems engineering to more detailed design, to the maintenance of design intent during construction, BMT has been closely involved in many significant naval construction programmes since its foundation.

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Design support of in-service warships

Governments expect their warships’ capabilities to be maintained and enhanced during their lifetimes. As threats shift, so design changes must be made to adapt platforms to more suitable roles. As technologies evolve, equipment obsolescence has to be managed. Regular maintenance, safety and environmental regulatory assurance and risk management is required to ensure warships continue to operate safely and capably. Budget holders look to design innovation to optimise operating and maintenance costs of in-service platforms through life.

BMT has long been active in naval design and design change management; marine engineering, integrated logistics support; design assurance and other in-service support. As a Delegated Naval Authority, it has been entrusted with the assurance of design intent and regulatory compliance for several classes of UK surface naval vessels.

BMT has also contributed for many years to the work of the office of the chief naval architect within the UK Ministry of Defence, and similar offices in other navies.

Future aircraft carrier (CVF)

BMT has been involved since 1999 in the UK initiative to develop two large strike aircraft carriers, CVF, to replace the current Invincible Class CVS. The innovative, twin island platform design developed by BMT offers advantages including vulnerability reduction and improved aircraft sortie rates. In part, this is an outcome of work done with BMT’s proprietary vulnerability evaluation tool, BMT PREVENT.

Delivering a bid-winning platform design that remains the foundation for the Aircraft Carrier Alliance’s ongoing detailed design work, BMT’s platform design skills were complemented by its risk and reliability management expertise, understanding of regulatory compliance and its knowledge of hydrodynamics and tank testing. BMT remains a core participant with staff embedded within the three directorates of the Alliance, and the UK-French Interface Working Group providing design input to the French PA2 aircraft carrier.

BMT’s designers have been pivotal to the evolving design of the UK future aircraft carrier, their enthusiasm, innovative nature, knowledge, and can do attitude, have ensured that the design momentum of the Project has been maintained. CVF Platform Design Director, Aircraft Carrier Alliance

Daring Class Type 45 Anti-Air Destroyer

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F5 Pentamaran - fast surface combatant concept design

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