



Innovative and high-performance underwater weapons, delivering an essential edge

Underwater Weapons

Advantage where it counts

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A heritage of supplying underwater weapons to navies across the world



Proven time and again in extreme environments and harsh operational conditions

Our team delivers advanced underwater weapons systems that provide navies with a decisive advantage in the underwater battlespace. Our track record of innovation in guided, underwater weapon design and manufacturing means we are trusted by our customers around the world to deliver new weapons, upgrades and support.

Working with the UK Ministry of Defence and across industry, we are a leading part of the critical national capability to design and develop weapons that assure the credibility of submarine operations and protect our forces from the underwater threat.

Our rich underwater weapons heritage and vast experience, together with our constantly developing technology and expertise, enable us to provide a world-class service.

We provide and maintain cutting edge underwater capability, value for money solutions that have been proven time and again in extreme environments and harsh operational conditions.

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Investing in innovation and technology

Matching threat with effect in the underwater battlespace

Our track record of innovation, investment and expertise in guided, underwater weapon design and manufacturing means we are trusted by our customers around the world to deliver new weapons, upgrades and support, providing navies with a decisive advantage in the underwater battlespace.

With significant, continuous and on-going investment in the development of innovative undersea technologies and skills spanning sonar, energetics, systems, software and simulation, and mechanical disciplines, we push the boundaries of defence capability.

Some of our most experienced specialists, together with our early careers apprentices and graduates, are focusing on future layered anti-submarine warfare and the development of future underwater weapons systems to counter evolving threats.

Solutions include tailored electric propulsion, our Archerfish mine neutralisation, and anti-submarine warfare from very shallow water to seabed.

Matching threat with effect in the underwater battlespace.



Mine neutralisation

Accelerated speed of advance

Archerfish®

An expendable mine neutraliser or single shot mine disposal system, Archerfish is capable of overcoming the threat of modern mines which have become increasingly resistant to traditional methods of mine disposal.

Hand-portable, it's deployable from multiple platforms allowing agility in its deployment. Platforms include ships, helicopters, small boats and across the range of autonomous maritime vehicles. Through a standalone or integrated systems the neutraliser is deployed via a cradle maintaining real time feedback through fibre optic links.

Using high frequency sonar and low light video data, Archerfish identifies mine threats and then emits a shaped charge warhead, initiating a full order detonation of the target.

Its credentials are impressive. In service with the United States Navy as part of the MH60s helicopter Airborne Mine Neutralisation System (AMNS), and recently selected for the Republic of Korea.

Archerfish – accelerated speed of advance.

Torpedoes in-service support

Impeccable torpedo availability track record

We deliver effective and combined in-service support for our heavyweight Spearfish and lightweight Sting Ray torpedoes.

A decade of contracting for availability has transitioned into the Torpedo Repair and Maintenance contract, reinforcing our collaborative and long-term strategic relationships with the UK's Royal Navy, Ministry of Defence and Defence Munitions.

Spearfish features software-enabled future capability upgrades for rapid response to new and evolving threats. It forms a common architecture baseline for a family of underwater weapons.

Sting Ray Mod 1 is in-service with the UK and Norwegian Armed Forces. This lightweight torpedo is fully automated and deployable from surface ship and aircraft assets, it counters submarine threats in both open-ocean and littoral engagements.

All of our products are underpinned by our extensive training and support solutions which include obsolescence management and re-life programmes to reduce through-life costs and enhance operational performance.

We have an impeccable torpedo availability track record.



Future Underwater Weapons Systems (FUWS)

Matching threat with effect across the underwater battlespace, we're investing and innovating to define and shape the new era of layered anti-submarine warfare.



Sting Ray

The next generation of Sting Ray delivers anti-torpedo and anti-autonomous underwater vehicle capabilities. It features enhanced flexibility of platform integration and deployment methods.



Depth Charge

Small, lightweight depth charge delivering enhanced performance for addressing shallow water threats. Utilising the latest electronic and material technologies to improve operational effectiveness, the Next Generation Depth Charge integrates with crewed and uncrewed air platforms.



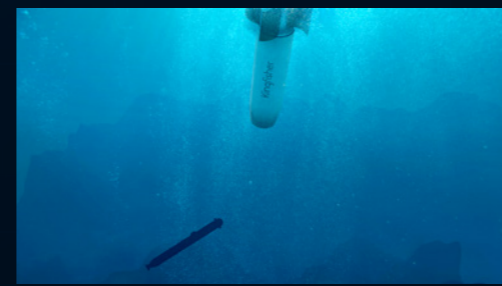
Archerfish*

Archerfish mine neutralisation, hand portable and deployable from ships, helicopters, small boats and UxVs.



Kingfisher*

Capable of delivering depth charges, sonar and other countermeasures from a naval gun on-board a warship to provide a persistent, rapid and cost-effective response as part of anti-access and area denial operations in the underwater battlespace.



Spearfish*

The latest evolution of NATO's most advanced, highest performance submarine-launched torpedo.



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Torpedoes



Capability where it counts

Spearfish®

In-service with the Royal Navy, the Spearfish heavyweight torpedo sets new standards in underwater weapon performance.

Its advanced design delivers high-speed, maximum warhead lethality. Operationally, Spearfish offers extended endurance with outstanding manoeuvrability, low radiated noise, discriminative homing and advanced tactical intelligence.

The result is an underwater weapon that provides decisive advantage against the full range of submarine and surface threats in all operational environments.

Spearfish heavyweight torpedo has a common architecture baseline for a family of underwater weapons. Spearfish is supportable, maintainable and reliable, and meets

the most demanding safety and environmental criteria. The weapon has demonstrated outstanding in-water reliability, affirming user confidence and minimising proofing and surveillance requirements. It is modular and software-intensive to facilitate future upgrades against new and emerging threats.

Capability where it counts.

Next generation technology

Sting Ray

Developed to meet UK Ministry of Defence (MOD) and international maritime forces' operational requirements for the next generation of lightweight torpedo, Sting Ray pulls across the very latest technologies from BAE Systems' Spearfish heavyweight torpedo and ongoing technology programmes.

The next generation of Sting Ray is a multi-purpose lightweight torpedo designed to counter the arduous operational and threat requirements of today and tomorrow.

Sting Ray sets new standards in torpedo development. The next generation on Sting Ray is designed to defeat the dual threats of fast, deep-diving double-hulled submarines operating in the oceanic environment and quiet, conventional submarines in coastal waters.

The new Sting Ray technology replaces the sonar electronics and homing system of the current in-service Sting Ray torpedo with systems common to the Spearfish torpedo which increases effectiveness in cluttered environments and in the presence of countermeasures.

Next generation technology.



Scalable electric propulsion

Tailored power and propulsion technology

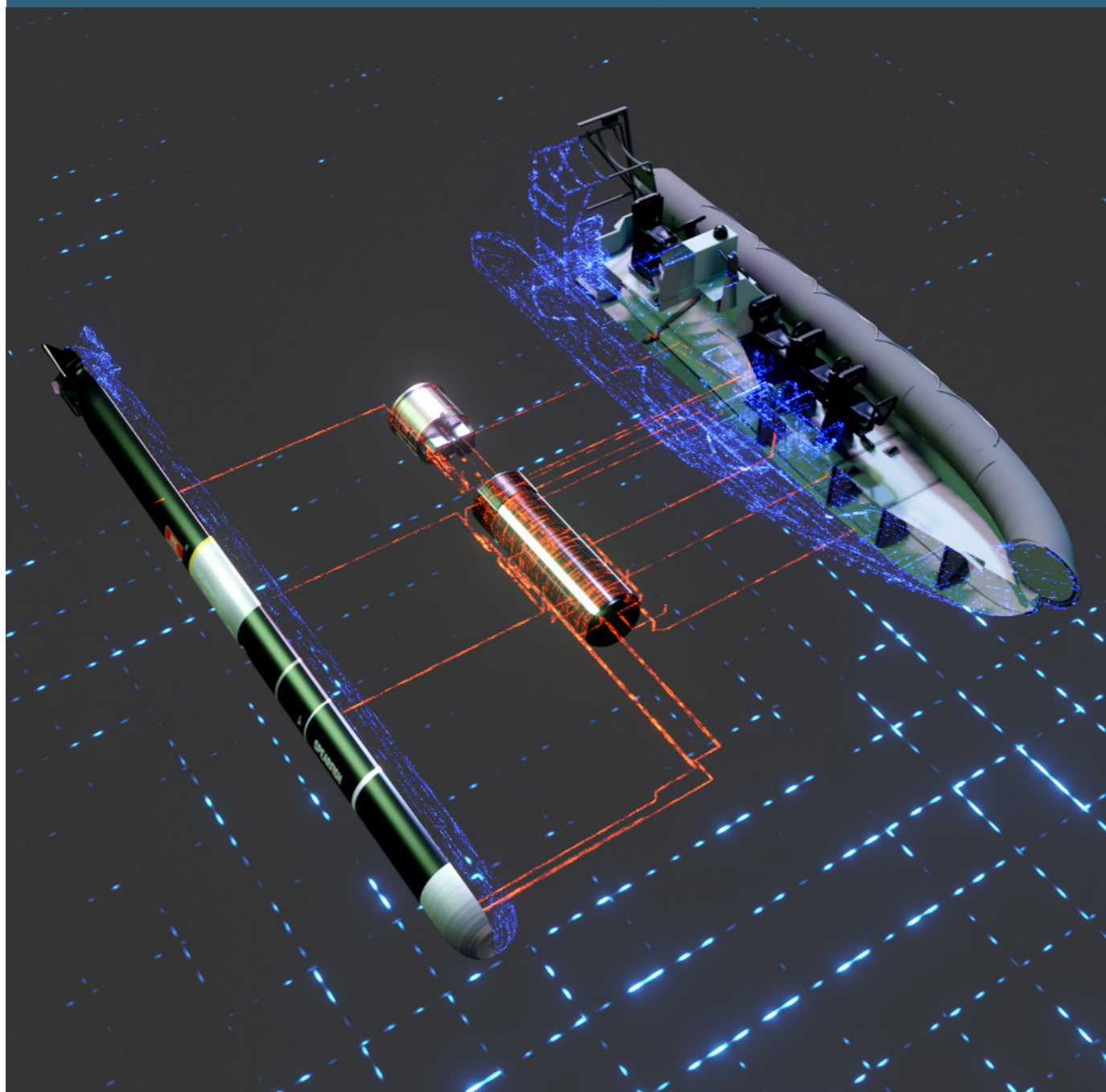
We are investing in and developing next generation electric propulsion to suit size and performance requirements across the underwater battlespace and beyond.

The innovative and sustainable advances leverage

cutting-edge technologies from the automotive and energy management sectors.

They will result in whole vehicle and sub-system applications across multiple domains.

Tailored power and propulsion technology.



All our products and capabilities are backed by expert training services

We exploit technology as an enabler across the full spectrum of need, extracting all of its value to help deliver comprehensive, integrated and optimised training solutions, as well as continuously improving and modernising those solutions to enhance their effectiveness.



Enhancing military capability, mitigating operational risk

BAE Systems has a rich heritage in the delivery of maritime training services to the Royal Navy and her international allies. Exploiting our comprehensive experience in the design, manufacture and support of complex platforms, torpedoes, radars and command and combat systems, we are uniquely positioned to offer training services that best complement these wider engineering services.

Through a collaborative approach with government, military, industry and the supply chain, we design, specify, deliver, integrate and maintain training solutions to ensure military personnel are capable and ready for maritime operations.

Our comprehensive approach embraces all of the Manpower, Equipment, Training and Support pillars. This enables us to realise and exploit the wider benefits across integrated programme schedules. These benefits include reduced programme risk, enhanced long-term value for money, coherency and support through-life.

Enhancing military capability, mitigating operational risk.

