

DEFENCE ENGINEERING *SOLUTIONS*



Total Service Concept

Our Total Service Concept involves a working relationship from day one: a team effort enabling the full utilisation of the advanced technologies at our disposal to meet all the customer's needs - on-time and to-spec.

Taken in combination with our range of know-how and skills, this means that BDS is well-suited to answering the needs of the modern defence community.



4.5" MK.8 Naval Gun Magazine Hoists

A highly complex electro-mechanical precision machined fabrication totalling 8.08 m in height. Beyond manufacture, assembly and a rigorous test programme before leaving the factory, Bassett Defence Services was also extensively involved with the hoist's shipboard installation and associated sea trials

- 12 hoists delivered over a period of 8 years
- subject to rigorous gas and water tightness requirements
- approximately 1500 line item parts, ~80 metres of welding, several kilometres of wiring
- installed by our own engineers on Type 23 frigates including HMS Montrose, HMS Sheffield and HMS Westminster
- contracted for subsequent two year service programme

commitment to quality

Our capabilities/skills:

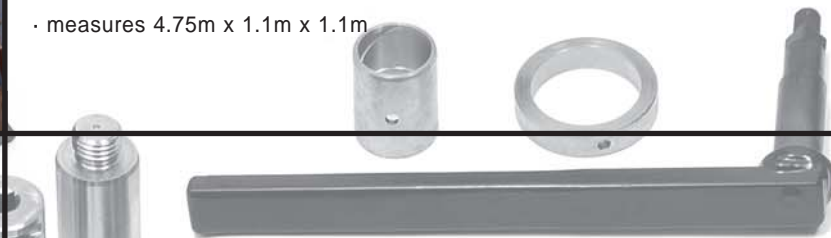
- powerful CAD/CAM resources
- precision CNC machining
- welded fabrications
- extensive test and assembly facilities
- procurement services
- bespoke design
- reverse engineering
- upgrading of legacy designs
- efficient re-manufacturing resources
- refurbishment of in-service components/systems



Sea Wolf Transit Frame

A bulky structure that facilitates the transfer of Sea Wolf point-defence surface-to-air missiles onboard Royal Navy vessels:

- frame consists of a large, complex, tubular fabrication
- involved precision machining and special components
- subject to exacting test requirements
- mounted on 4 special anti-vibration mounts and fully electrically earthed
- measures 4.75m x 1.1m x 1.1m

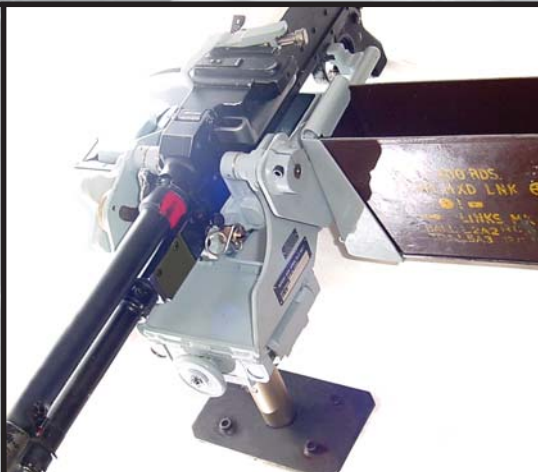


design know-how

Designing solutions...

When realities on the ground shift quickly a truly broad-spectrum response requires a concurrent willingness to change and adapt in line with new operational considerations.

Our rapid re-engineering and design services tackle equipment obsolescence and supply chain challenges by helping the end-user maximise the effectiveness of already existing resources.



7.62 mm GPMG naval mount

In response to an urgent requirement by the Royal Navy to re-engineer their existing shipboard GPMG mounts to better cope with close-in threats, Bassett Defence Services launched a rapid development process in order to design and validate an improved design. This involved intense dialogue with real-world operators and an exhaustive engineering effort.

The result: a precision-machined mechanical assembly that fully met the end-user's design requirements whilst maintaining all the good points of the old design and eliminating its flaws.

*meeting tomorrow's
challenges...*

...for the future

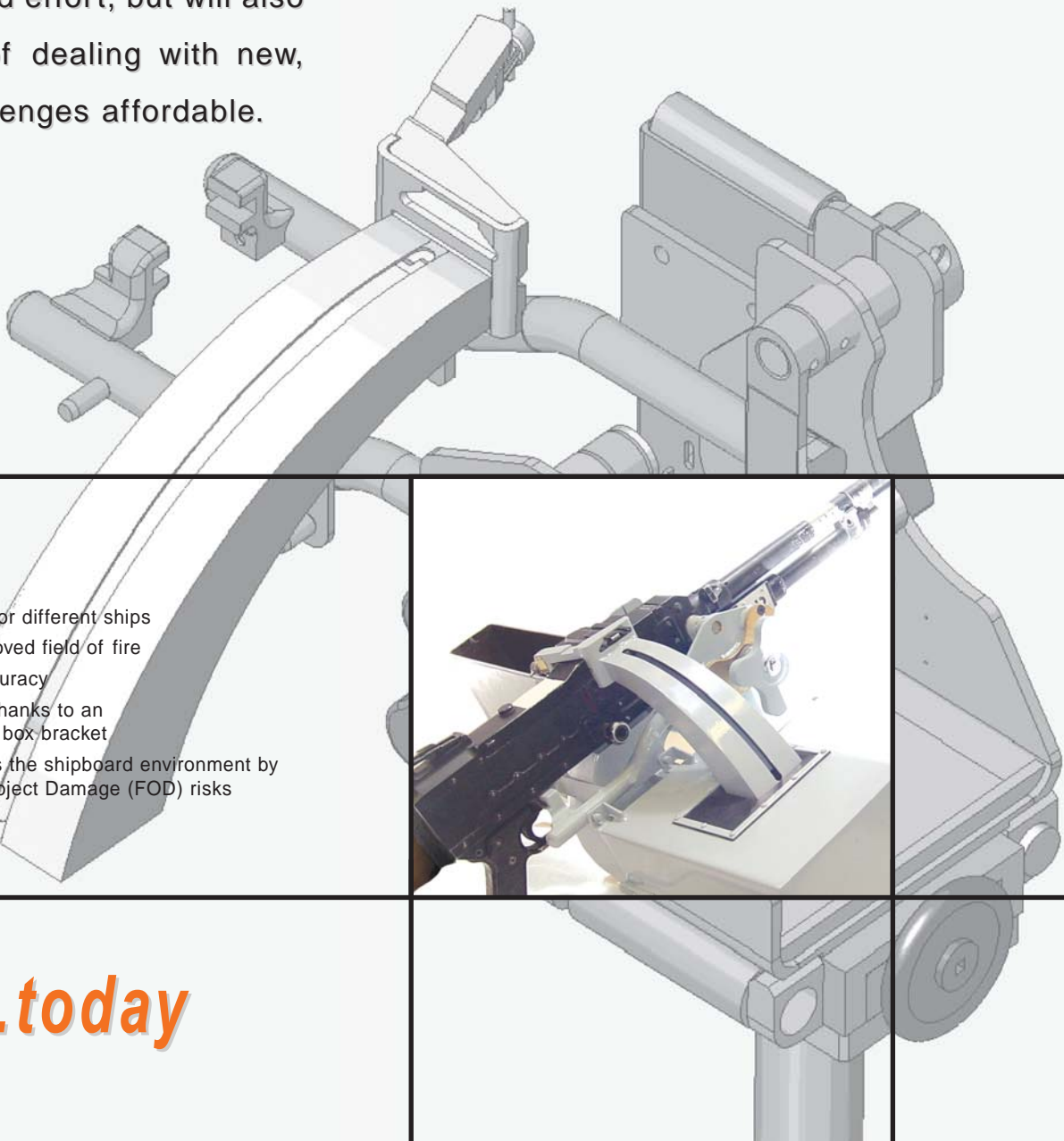
Whether the necessary solution requires optimisation or re-design of existing legacy materiel - or an entirely new design - we can be relied upon to meet your requirements, both now and in the future. This means that we not only save you time and effort, but will also make the task of dealing with new, asymmetric challenges affordable.

Building on proven strengths, removing old known design flaws, and adding improvements based on comments and feedback from real-world operators means that defence organisations benefit from a process of *evolution*, rather than *revolution*.

The new design:

- is easily customised for different ships
- enables a much improved field of fire
- allows for greater accuracy
- handles more easily thanks to an improved ammunition box-bracket
- significantly enhances the shipboard environment by minimising Foreign Object Damage (FOD) risks

...today



Quality, reliability and integrity...

In an uncertain world where conditions in the field evolve rapidly, a fast and flexible response is essential to maintaining optimal combat efficiency and meeting increasingly challenging demands.

Bassett Defence Services provides comprehensive Defence Engineering Solutions to a variety of tri-service requirements. Our extensive manufacturing, re-engineering and refurbishment facilities allow us to supply anything from small machined parts to major fighting vehicle spares.



Aluminium Wheel Hubs

Fulfilling an Army requirement for additional parts to fit their Infantry Fighting Vehicles, these sand cast wheel hubs are illustrative of our high-tolerance aluminium manufacturing capability. After casting and prior to machining, they undergo Class 2 X-ray testing with a level 2 acceptance standard

- approximately 12" in diameter
- machined to a general tolerance of $\pm 0.010"$
- specific parts machined to a tolerance of $\pm 0.0008"$ to allow for later insertion of precision bearings

35-year track record

...in manufacturing and service

Because our engineering effort is always run in parallel with a process of extensive dialogue with the customer, long-term value is assured. Feedback from the end-user is, we find, one of the most important parameters that we can take into account when designing and delivering a new solution onto the marketplace.

Combined with our considerable CAD/CAM design resources - and proven manufacturing track record - this means that Bassett Defence Services is your perfect partner for meeting the challenges of the future - quickly, accurately and in accordance with all your design specifications/requirements.



Gun sight wiper drive unit

An example of a highly complex assembly containing approximately 53 separate parts, the sight is assembled to MoD specifications and requires extensive know-how of specialist manufacturing/assembly techniques:

- includes bevel gears, spindles, crank arms, clamps and springs produced to third-party manufacturing drawings
- multiple specialist materials used and parts subjected to an extensive range of heat treatments, electronic plating and coating processes
- twin wiper blades 95 mm long - largest component
- No 10-24 thread clamp screw 10 mm long - smallest component

engineering excellence

Founded in 1969 as Bassett Engineering, Bassett Defence Services has evolved from the role of a sub-contract machining outfit to that of a complete service provider in the fields of specialised design, manufacture, re-engineering, and refurbishment for the defence sector.

Our comprehensive defence engineering solutions have resulted in an output that today includes a wide range of precision machined components, mechanical and electrical assemblies, weapons handling equipment and welded fabrications.

Through attention to detail, an ability to respond rapidly and with a great deal of flexibility, as well as dedication to efficiency and performance, Bassett Defence Services continues to build upon its proven 35-year track record of high quality and on-time delivery to major MoD contracts.



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