



Mine Hunter

Bridge Console



▶ “The customer’s project was fully supported by a Captec Group company, providing design assistance from prototype and qualification stages through to manufacture and supply of complete units to be used on Royal Navy Mine Hunter vessels.”

Mike Lea, Director

The customer is a leading aerospace and defence integrator across several key markets across the globe. The solution was for a technology refresh of an existing console within the fleet of Royal Navy Mine Hunters, to replace obsolete technology and designs.

Requirements & Issues

- ▶ To outsource the complete metalwork manufacture and assembly
- ▶ Update to CAD models from paper drawings and sample console set, as original CAD models were unavailable
- ▶ Materials used must have a low magnetic signature due to being used on a Sandown class Mine Hunter vessel
- ▶ The revised design must retain the same look and feel for the crew
- ▶ The solution must retain the same footprint to be retrofit
- ▶ Ensure integrated VMEbus equipment is accessible to service

The Solution

- ▼ Reverse engineer CAD models from existing paper drawings
- ▼ Provide on-site customer support for prototype build
- ▼ Act as an interface between multiple defence primes providing technical support between parties
- ▼ Project manage mechanical build including all subcontractors, to manufacture a complex BOM
- ▼ Design and manufacture various fixtures for assembly
- ▼ Design manufactured in stainless steel to reduce the magnetic profile
- ▼ Bespoke VME subtract to provide required serviceability



The Outcome

- ▼ Streamlined the supply chain; entire metalwork assembly supplied by a Captec Group company
- ▼ Single supplier to manage for a complex assembly
- ▼ Customer able to focus core business on final electronic assembly design rather than the overall system
- ▼ CAD data now available for future orders and up-to-issue design changes
- ▼ Consoles retrofit across multiple Mine Hunters



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