maritime aviation

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Shipboard Heliport & Helicopter Services Brochure 2021/22

Our Industry Training Accreditations:

Maritime & Coastguard Agency

MCA accredited course provider

HCA Helideck Certification Agency

V1.1
(210816)

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To discuss your bespoke aviation requirements, please call us on:
+44 (0)239 2000 760

Email us at:
hello@maritimeaviation.com

Or visit us at:
www.maritimeaviation.com

@MaritimeAviation

Maritime & Coastguard Agency
MCA-approved training provider

HCA
Helideck Certification Agency

All information contained in this Helicopter & Heliport Services Brochure 2021/22 (V1.1) is correct at the time of publishing.

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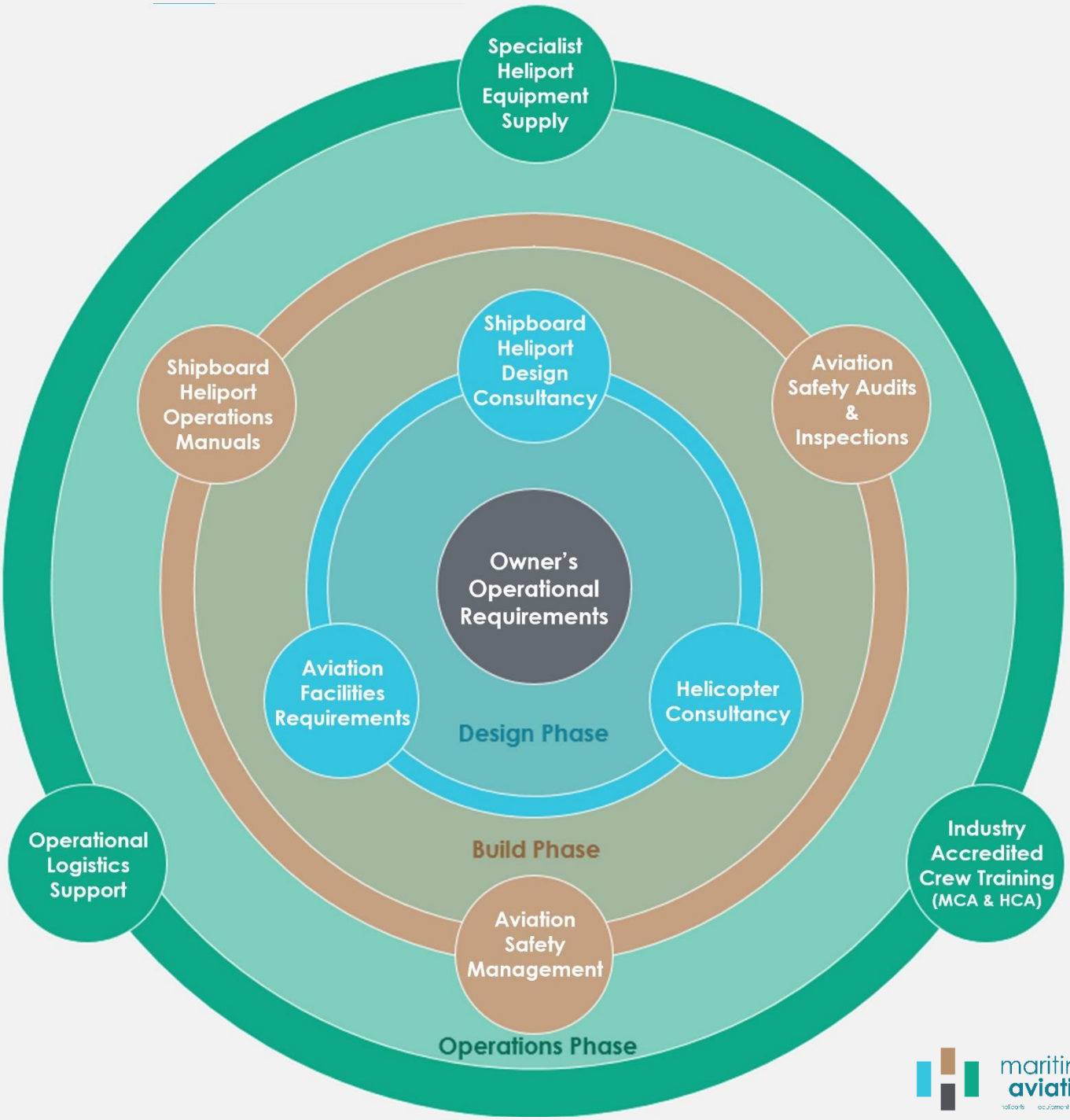
Welcome to
Maritime Aviation

Maritime Aviation uses its extensive experience of operating helicopters in the most challenging maritime environments to offer a full suite of helicopter support and training services to discerning ship owners, operators and crew who value safety and efficiency above all else. We support our clients from the first design stages of a project, right through to the build and subsequent helicopter operation.

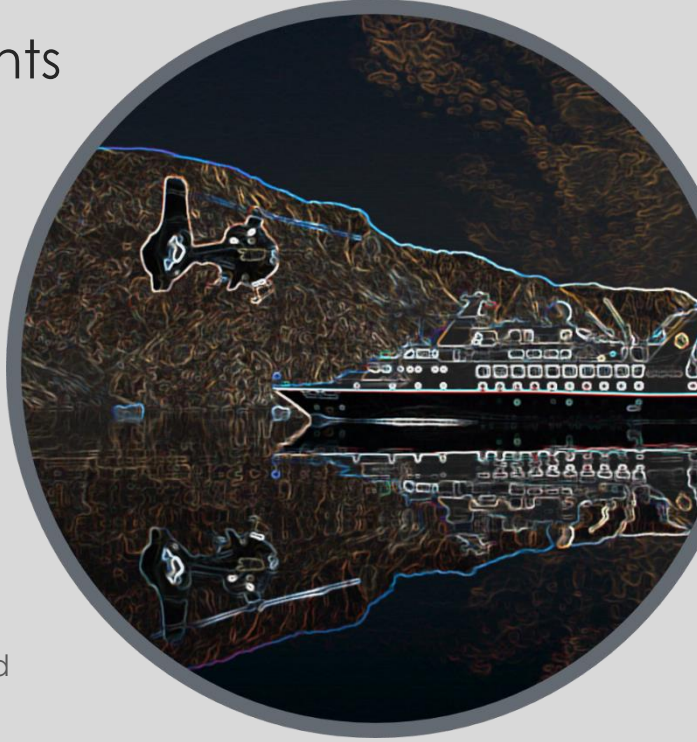
We adopt a considerate approach to the needs of our customers to ensure they get the right aviation products to meet their bespoke operational requirements, ultimately leading to the most efficient, effective and safe use of helicopters on board their vessels. Professional and discrete, our respected consultancy considers these values as crucial when engaging in business relationships.

Our services are divided into 3 main areas, as shown in the diagram below, and all of these are centred around the customer's requirements. The services detailed in the following pages are colour-coded to match the diagram, for ease of reading.

If you would like any further information or to arrange a face-to-face meeting to discuss your bespoke requirements, please contact us.



Owner's Operational Requirements



Understanding our Clients' Needs

Critical to all of our service provision is full engagement with our clients to ensure we understand fully their desired outcomes from a project.

Only by understanding these desires, can we work together to provide services tailored to achieving those aims.

Concept of Operations

Different clients have different needs for where they operate their ships and helicopters.

When we have listened to our clients, we are able to offer guidance on how they may exploit their assets to maximise their scope of operations, given the resources available and offer a flexible support solution to meet their objectives.

Shipboard Heliport Design

Heliport Design Consultancy (to ICAO Doc. 9261)

We provide a full heliport design service from the initial design stages of a new-build or refit project. Different types of vessel are required to meet a range of regulatory requirements and recognised industry standards, such as the REG-YC and ICAO Doc. 9261 – Heliport Manual.

We have the training and experience providing Subject Matter Expertise (SME) to a range of private & commercial superyacht clients in the provision and application of maritime aviation support facilities and operations.

In addition to advising on regulatory requirements, we also consult on the ship's helicopter facilities, aviation support services and the practical implications and operational impact of different heliport design configurations.

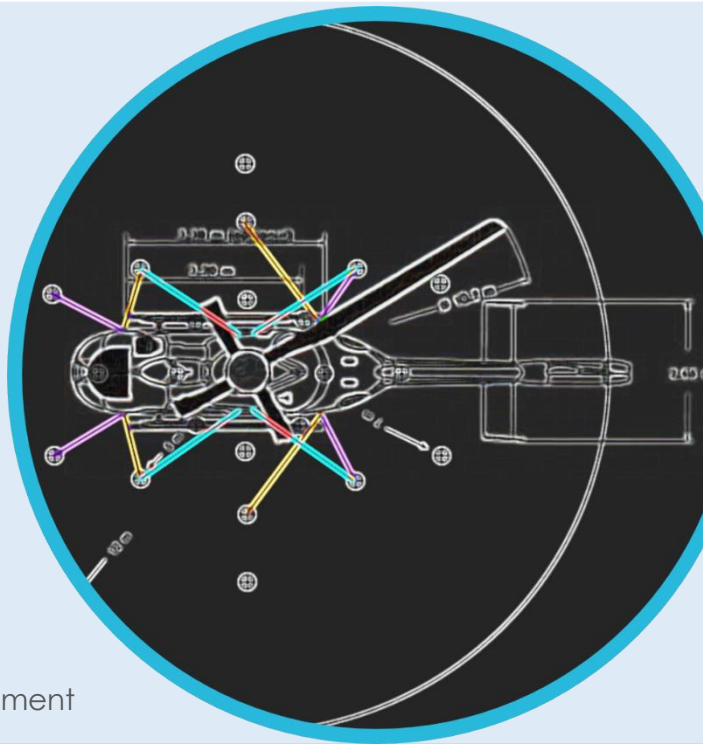
Aviation Facilities

On Board Operational Helicopter Support Facilities

Operating helicopters at sea requires a range of aviation support services to be provided onboard. If these are not considered at the design phase of a build or refit project, the effectiveness of the helicopter service is likely to be compromised and the efficiency of the helicopter operations conducted onboard will be reduced.

We have extensive experience of operating helicopters at sea in a range of environments, from guest pleasure flights to Polar expeditionary flights. We understand the facilities required to support helicopters, including:

- Helicopter refuelling/defuelling systems
- Helicopter security, protection & hangarage
- Routine helicopter engineering maintenance equipment



Helicopter Consultancy

Helicopter Type, Registration & Crew Selection

There are many considerations when selecting a suitable helicopter to be operated from a vessel at sea.

Selecting an inappropriate helicopter type, aircraft registry or helicopter crew for the intended flying operations, will limit the effectiveness of the helicopter service and ultimately compromise the clients' requirements.

We understand the capabilities and limitations of all current helicopter types when operated in the commercial maritime sector and we advise clients on the most appropriate helicopter type(s), registry and crewing requirements for their operational needs. We have good professional relationships with all helicopter manufacturers and we offer objective advice on clients' requirements.

Aviation Safety Audits & Inspections

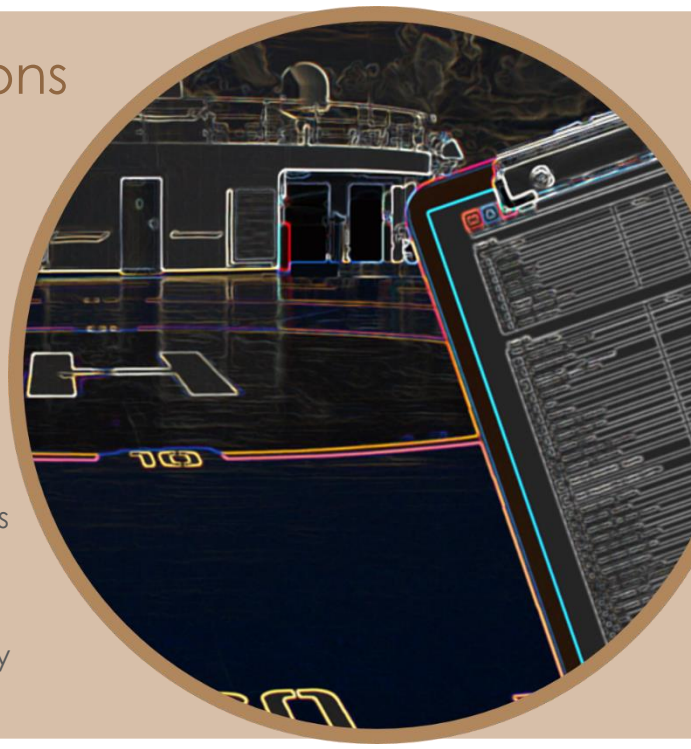
Independent Auditing to ISO 9001 & AS 9100 Standards

To ensure regulatory compliance, we provide full 1st, 2nd & 3rd party independent audits of clients' assets and facilities, including:

- Vessels
- Shipboard heliports, hangars & support facilities
- Aviation engineering facilities, including firefighting appliances & refuelling rigs

As ISO 9001 Lead Auditors, we are qualified to audit suppliers on your behalf or upon any defined international standard including ISO 9001 and the aviation standard AS 9100.

Our safety inspections and audits are designed to fit into any existing Safety Management System (SMS).



Aviation Safety Management

Managing Helicopter Risk Onboard

Helicopter operators are required to manage the risks associated with flying helicopter and this is further complicated when operating them at sea from ships. Just as the vessel will have its own Safety Management System (SMS), the aircraft will also have its own.

We are able to provide full aviation risk and safety management support to vessels, using our specialist knowledge and experience of operating helicopter at sea, to undertaking a range of tasks based on the vessel owner's operational requirements, including:

- Aviation Capability Reviews (ACRs)
- Aviation Safety Audits (ASA) inc. risk assessments
- Hazard identification & hazard log production

Heliport Operations Manuals

Helicopter Support & Maintenance Services

The ISM Code requires Operations Manuals to be provided for all tasks which are required to be performed by personnel onboard the vessel.

Our bespoke, dedicated Shipboard Heliport Operations Manuals are based on comprehensive Aviation Safety Audits (ASAs) and designed to augment the ship's Safety Management Systems (SMS). Our manuals cover the full scope of a ship's flying operations on board, including:

- Standard Operating Procedures (SOPs)
- Emergency Operating Procedures (EOPs)
- Helicopter guest transfers & other helicopter roles
- Helicopter refuelling/defuelling
- Environmental operations (e.g. Polar/Arctic regions)

Heliport Equipment Supply

Provision of Specialist Shipboard Heliport Equipment

To enable our clients to have true confidence in their heliport equipment, we have sourced the highest-quality products in all areas of helicopter and heliport operations:

- Personal Protective Equipment (PPE)
- Breathing Apparatus (BA) (inc. cylinders & masks)
- Heliport firefighting equipment (inc. DIFFS & media)
- Communications (we are an icom® Radios dealer)
- Heliport Crash, Fire & Rescue (CFR) Equipment
- Bespoke helicopter refuel systems (Jet A-1)
- Helicopter security (inc. tie-down points & lashings)
- Helicopter protection (inc. aircraft covers)
- Helicopter engineering support (inc. aircraft tools)
- Helicopter ground movements equipment (inc. tugs)

Operational Logistics Support

Helicopter & Crew Operational Support

We provide a full range of ground and air operations support services to your helicopters and crew, wherever they are operating around the world.

Our services are designed to increase the operational efficiency of the vessel and the helicopter, including:

- Specialist heliport safety equipment provision
- Helicopter emergency administration
- Aviation fuel management & procurement
- Helicopter crew resource management
- Helicopter position tracking & monitoring
- Worldwide helicopter geographical operating permits
- Selection of suitable helicopter engineering contracts
- Selection of helicopter insurance & liability mitigation

Maritime & Coastguard Agency

Crew Training & Competency

Industry-Approved Heliport Crew Training

Shipboard heliport crew play a vital role in ensuring safe flying operations onboard. We are approved by the MCA to provide all 4 MCA Helideck Safety Training courses: Helicopter Landing Officer (HLO), Helideck Procedures & Emergency Response (effectively 'Heliport Assistant', HDA), Helideck Fire Fighting and Helicopter Refuelling.

In addition, we are approved by the Helideck Certification Agency (HCA) to deliver Dangerous Goods by Air Awareness (DGAA) training for shipboard heliport crews.

We have also designed 2 Aviation Awareness courses: one for Captains and Fleet & Technical Managers and one for non-heliport crews to, provide practical advice on safety critical elements of helicopter operations.

Our Training Locations

We have built-in flexibility in the way we deliver our MCA-approved training to our clients. Most of our courses involve a mixture of theory-based learning, followed up by practical-based training, which we are able to deliver at any of the following locations to suit the client:

- Onboard the client's vessel, anywhere in the world, using onboard facilities to train the crews
- Ashore at suitable training venue at a place of convenience to the client
- At our UK offices at Solent Airport near Southampton or the Warsash Maritime & Superyacht Academy training facilities in Warsash, Southampton

We believe that the best way to really learn is by doing. To ensure we maximise the value we offer our valued clients and course delegates, we have designed and built a unique mobile Helicopter Firefighting & Rescue Training Unit (HFRTU) to allow our shipboard heliport course delegates to really experience 'hands on' what they will be required to do onboard. We also offer extra live helicopter training at our UK sites to add realism.

We have also designed and built a Refuel Training Simulator (RTS) for training delegates who require helicopter refuelling training. Again, this allows us to train crews practically, using a realistic, mobile simulator.

We deliver regular training courses throughout the year, at our training sites in the UK. If you would like to discuss any of your bespoke heliport crew training requirements, or to find out about when our regular courses are running, please contact us (see back page).

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