



© Mangusta Yachts

# ADVANCING YACHT CLASS, SUSTAINABILITY AND INNOVATION

## A PARTNER YOU CAN TRUST

Through close collaboration with builders, naval architects, and representatives of commercial and private yacht owners, ABS provides services that drive innovation, efficiency and compliance with safety regulations. ABS keeps clients up to date in today's rapidly evolving landscape with world-class classification, sustainability and technology services and solutions for yachts.

## ADDING VALUE TO YOUR PROJECT

ABS engineers and survey staff are positioned globally to support yacht builders, naval architects and yacht managers during all phases of a yacht's life cycle. As technology advances and the industry demands more efficient and environmentally conscious solutions, our team of experts offers support in advancing the latest designs and innovations, with a New Technology

Qualification process to prove the feasibility of new technology or concepts at the earliest point of project development.

ABS can also carry out plan approval, surveys during and after construction, statutory certifications, training and performance compliance services.

ABS has also established a Yacht Focus Group comprised of select engineers and surveyors who engage with industry stakeholders during the plan review process and route feedback into the development of future Rules, Guides and Guidance Notes. The ABS Yacht Engineering Center in Italy, together with offices in London, Istanbul and Athens, provides clients of major shipbuilding nations with a dedicated team of experienced engineers to advance yacht projects from concept to construction.

ABS has also received delegated authority for the application of the respective codes: Red Ensign Group, Bahamas, Marshall Islands, Transport Malta, Madeira and others that form the basis of yacht registration.

ABS is one of the leading classification societies with a classed yacht fleet of over 500 yachts with a length above 24m, constructed with steel, aluminum or fiber-reinforced plastics, either sailing or motor yachts.



**As a Recognized Organization for over 120 States, ABS is authorized by the leading Flag Administrations involved in the registration of yachts:**

- The Bahamas, Barbados, Bermuda, British Virgin Islands, Cayman Islands, Cook Islands, Falkland Islands, Gibraltar, Isle of Man, Luxembourg, Madeira, Malta, Marshall Islands, United Kingdom and the United States

## A SUSTAINABLE FUTURE WITH ABS

In addition to offering specialized Rules and Guides for yachts, ABS is helping the industry advance sustainable technologies to support decarbonization and a more sustainable future. The ABS sustainability team works closely with customers, industry associations and organizations to advance key areas of research such as vessel design, future fuels, digital technologies and decarbonization pathways.

As the yachting industry moves towards a cleaner future, ABS offers support with finding the best commercially viable solutions and helping owners achieve compliance for air emissions, ballast water management, underwater noise, ship recycling, solid waste and more.

Hybrid electric and fuel cell power systems will play a key role in meeting environmental regulations and decarbonization initiatives in the yacht industry. ABS has published industry-leading guidance and offers optional notations to support the operation and use of these technologies:

ABS Publication	ABS Optional Notation
<i>Guide for Hybrid Electric Power Systems</i>	HYBRID IEPS
<i>Guide for Use of Lithium-ion Batteries</i>	ESS-LiBATTERY
<i>Guide for Fuel Cell Power Systems</i>	FC-E or FC-NE

## NOISE AND VIBRATION

ABS can apply noise and vibration prediction and measurement tools for retrofits or at the earliest design and build stage of a new yacht project. These tools help designers and shipyards make more informed design decisions for modifications to reduce or improve the noise and vibration characteristics for a vessel and enhance the comfort and experience on yachts.

ABS Publication	ABS Optional Notation
<i>Guide for Comfort on Yachts</i>	COMF(Y)

ABS has the experience and solutions that can help you at any stage of a yacht's life cycle. Contact us today at [yachts@eagle.org](mailto:yachts@eagle.org) to learn how ABS can help you.

## EXPLORING THE HIGHER LATITUDES OF THE WORLD

The fast growth of the expedition yacht segment reflects a growing interest in yacht navigation to higher latitudes of the world. In these regions, polar environmental conditions vary dramatically and pose unique hazards. The tightening regulatory landscape also presents additional challenges that require thorough preparations for operations in polar waters. ABS can support navigation in the polar basins with the ABS Harsh Environment Technology Center (HETC) and with the expertise on the requirements from various Flag Administrations.

## ADVANCING INNOVATION AND TECHNOLOGY

ABS continues to lead the industry by leveraging innovations and experience in data, digital, research and development projects to transform its services and offer innovative solutions.

## ABS CYBERSAFETY® PROGRAM

With the rise in cyber threats and the possible vulnerabilities in operational technology on board, a comprehensive cybersecurity plan is critical for today's yachts. The ABS CyberSafety® program offers a stepwise approach to understanding the risks, establishing a cybersecurity plan and effectively managing future threats.

## 3D INNOVATION IN THE CLASS PROCESS

ABS has the capability and experience to fully support 3D model-based engineering plan review and survey in place of 2D drawings, leveraging data and digital technologies to deliver operational efficiencies and enhanced safety for the industry.

## ADDITIVE MANUFACTURING

Additive manufacturing, also known as 3D printing, has grown rapidly and offers a time and cost-efficient solution to producing parts. The ABS Guide for Additive Manufacturing (AM) defines the ABS approval and certification process for AM facilities and parts by providing standards for AM design, feedstock material, building processes, inspection and testing.



### WORLD HEADQUARTERS

1701 City Plaza Dr. | Spring, TX 77389 USA

P 1-281-877-6000 | F 1-281-877-5976

[ABS-WorldHQ@eagle.org](mailto:ABS-WorldHQ@eagle.org) | [www.eagle.org](http://www.eagle.org)

© 2022 American Bureau of Shipping. All rights reserved.