

Service

Ocean Yacht Systems Service Programme

Superyacht refits - repairs - maintenance

Release version: M



RIGGING • THRUSTERS • HYDRAULICS



**Operating the world's only dedicated
Superyacht Rigging Service Programme
for Yachts up to 300 feet LOA**

Pre-Inspections

Service Scheduling & Management

Rig Service & NDT

Replacement Rod Rigging

Retrofit PBO Standing Rigging

Mast Stepping

Rig Tuning

Bow Thruster Service & Sales

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Established Reputation

Ocean Yacht Systems

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Ocean Yacht Systems Limited (OYS) is a world leader in the design and manufacture of innovative Rod, Kevlar, PBO rigging, Hydraulics and Yacht Thruster solutions.



With a wealth of well known projects to its credit, OYS has established an enviable reputation for delivering superior quality solutions, on time and on budget for an increasingly wide range of boats, ranging from 100 metre Superyachts, high performance cruiser racers, Grand Prix and Maxi race boats, America's Cup and cruising boats down to 10 metres.

Distinguished projects such as Adele, Athena, BMW Oracle Racing, Ghost, Gliss, Mari-Cha IV, Mirabella V and Pink Gin are just a few examples of rigging systems delivered to meet the ever increasing demands of new yacht owners, offering unparalleled standards of quality, service and reliability.



Dedicated Service

The need to regularly maintain and service your rigging is paramount to improving your yacht's performance, longevity and the safety of its crew and guests.

To meet this demand OYS have developed a schedule of manufacturer's recommendations, the OYS Service Programme, to ensure performance and safety is maintained throughout your yacht's lifetime.

This active service and maintenance programme can be tailored to extend the life of your rigging and hydraulics, but more importantly to protect your personal safety.

Why Service my Rigging?



Your rigging is as important to maintain and service as your yacht's engine, especially rod rigging, as it consists of many critical highly tensioned moving parts, some of which are often never inspected due to their position on the rig. Failure to regularly inspect or service such hidden parts could result in you sailing with a potential problem. Therefore it is essential that all rigging components, subjected to loading and movement are correctly lubricated and maintained, hence the requirement for servicing.

Areas of rod rigging susceptible to fatigue include the cold heads on the ends of the rods, which often exhibit increased localised stress within the end fittings, a location which is hard to assess without professional service work being performed. We recommend the OYS Service Programme for all yachts, including those rigged without OYS equipment, to help prolong the life of your yacht's rigging.



Established Reputation (continued)

Ocean Yacht Systems

Worldwide Support

The key fundamentals of this programme ensure that from the moment OYS takes delivery of your rigging, to the time your inspection or service work is completed, you will be fully supported. This is achieved through a global network of Service Agents, with all the necessary equipment and skills required to ensure your service runs as smoothly as possible. Our team of highly trained and experienced riggers will ensure the high standards set by OYS are maintained throughout your service and will continually update you on all future service recommendations for your yacht.

Monitoring & Advice

Each yacht participating in the OYS Service Programme has its maintenance history recorded in a dedicated RigLog. This is continually updated with information recorded at each service and will be securely filed at Ocean Yacht System's headquarters. With this programme in place, you can be confident that your yacht is being maintained in accordance with OYS's strict performance recommendations. The flexibility of the OYS Service Programme also allows you to schedule your yacht's service or refit well in advance, to prevent costly downtime and lost charter revenues.

Saving Time & Money

A Service Agent can visit your yacht up to six months in advance, to assess the level of service required and to identify the necessary components for refit, thus making sure all parts needed can be assembled and fabricated prior to your yacht arriving in port. This system can save weeks of delay and significantly reduce the loss of charter revenues (easily many times the cost of repairs) or lost usage to the owner.

Strategic Management

Our strategic network of Service Agents is continually reviewed and updated allowing OYS to offer exceptional worldwide service and to ensure that you receive the highest standards of workmanship and professionalism during your yacht's service. If this programme is of interest and you have not yet signed up, please contact OYS with your yacht's name, manufacturer, size and contact information. We will send you our latest service recommendations and schedule your next annual inspection.



Basic Concept

The OYS Service Programme is a worldwide accessible service programme, designed to provide professional inspections and regular maintenance to your yacht's rigging and hydraulics. The service options available are flexible and can be tailored to suit individual requirements. The level of service received is consistent throughout our entire service network as all Service Agents are factory trained and work to OYS's strict guidelines.

Warranty

All OYS supplied new fittings and rods will be covered by Ocean Yacht Systems standard warranty. Specific details are available on request.

Future Support

With the availability of a RigLog, we can logically and efficiently calculate the most appropriate future service intervals for your yacht. This will allow us to undertake and complete service work with minimum disruption to your sailing or charter plans. This system also enables OYS to respond to your needs quickly and decisively, should any unexpected problems arise between routine service intervals.



Time Schedules & Service Recommendations

Ocean Yacht Systems

New Builds	Inspection (re-tune) 4-6 months after the mast is stepped	
Annual Service	Routine inspection every 12 months	
4 Year Service	Partial service 4 years from date of final sea trials	
8 Year Service	Full service 8 years from date of final sea trials	
12 Year Service	Repeat of 4 year service	
16 Year Service	End of lifespan - total replacement	

New Build (Optional)

Initial six month inspection (re-tune) after the mast is first stepped.

This inspection involves lowering the mast off the mast jacks, visually inspecting all rods and fittings, followed by re-tuning of the mast.

- Visual inspection of all fittings.
- Re-tune the mast if required.
- Update RigLog for the yacht.

NB: In cases where proper sea trials and a full rig inspection have been carried out by the yard, prior to final delivery of the vessel, then the six month inspection can be delayed until the first annual service.



Annual Service

Every twelve months after the mast is first stepped.

This involves lowering the mast off the mast jacks, inspecting, cleaning and lubricating all rods and fittings where possible. The service is carried out without removing the mast from the vessel and is followed by a final re-tune of the mast.

- Visual inspection of all fittings.
- Clean and lubricate all fittings and rod heads that can be accessed with the mast still in the yacht.
- Re-tune the mast.
- Update RigLog for the yacht.



4 Year Service

This service is carried every four to five years after the initial mast stepping.

This involves an initial pre-service evaluation of the rigging, based upon previous service history and a "mast in" rig check, up to six months prior to the service. The mast is then lifted from the yacht and the rigging stripped and cleaned. At this stage re-heading of all diagonals and fore

and aft rigging is recommended. All other rod heads and fittings will be cleaned, polished and have non destructive testing (NDT) performed. Further work or re-heading may be required subject to the results of NDT.



4 Year Service (Continued)

Service at this period includes:

- Pre-service rig check to evaluate what is required and how it might best be carried out whilst the mast is still stepped.
- Strip and clean all fittings and polish the rod heads once the mast is down.
- NDT of all rods and fittings.
- Re-heading of all diagonals and fore and aft rods and other rods if required.
- There is an option at this time to replace the diagonal rods with lightweight composite stays to reduce weight and increase performance.
- Manufacture of custom fittings to compensate for length loss of rods as necessary.
- Replace or refurbish all terminals to suit the new cold heads.
- Service all other fittings and replace where necessary.
- Visually inspect and proof test Kevlar cables. Refer to composite cable recommendations.
- Re-tune the mast once stepped.
- Update RigLog for the yacht.

8 Year Full Service

This service is carried out eight to nine years after the initial mast stepping.

This involves an initial pre-service evaluation of the rigging based on previous service history and a “mast in” rig check, up to six months prior to the service. The mast is then lifted from the yacht and the

rigging stripped and cleaned. In some cases existing rods can be re-used subject to results of full NDT testing.

Service at this period includes:

- Pre-service rig check to evaluate replacement requirements and how the service might best be conducted. The assessment is undertaken whilst the mast is still stepped.
- Strip and clean all fittings and polish the rod heads once the mast is down.
- NDT of all fittings.
- Replace diagonals, re-head fore, aft and verticals where possible or otherwise replace.
- There is an option at this time to replace the diagonals and vertical rods with lightweight composite stays to reduce weight and increase performance.
- Service all fittings and replace where necessary.
- Visually inspect and proof test Kevlar cables. Refer to composite cable recommendations.
- Re-tune the mast once stepped.
- Update RigLog for the yacht.

12 Year Service

This service is carried out twelve years after the initial mast stepping. Provided the OYS service programme has been followed this service is the same as the initial four year service. For yachts with no or limited service history and over twelve years old, we recommend a complete replacement of all standing rigging.

16 Year Service

After sixteen years of use, all parts of the rigging are expected to be replaced.

Yachts with No or Limited Service History

Ocean Yacht Systems

Initial inspection

This inspection is designed to determine what is required to bring the rigging up to its original standard, so that the yacht can undertake a “New Build” service schedule. To carry out the initial service the rigging will require a “mast in” visual inspection to evaluate the mast and rigging settings.

Initial inspection for any given period includes:

- Pre-service rig check to evaluate replacement requirements and the level of service required. The assessment is undertaken whilst the mast is still stepped.
- Recommendation of most appropriate service programme.
- OYS will recommend a future service schedule.

Yachts Fitted with other Manufacturers Rigging

Ocean Yacht Systems

Under normal operating conditions, OYS will recommend a complete rig inspection for all non OYS rigged yachts. Recommendations and future service schedules will be given subject to survey results.



OYS carry out thorough inspections to ensure your rigging is restored to its original condition



Composite Cable Recommendations

Composite cables will require visual inspection and proof testing during the recommended service intervals in the same manner as rod rigging. It is recommended that all Kevlar cables be replaced at five years, or earlier, if there are any indications that the cable has been damaged, or abused in any way. Cables with no known service history will be recommended for replacement. For other composite stays, such as PBO, please contact OYS for recommendations.

Wire Cable Recommendations

Wire cable will require visual inspection during the recommended service interval. At ten years service life, replacement of the wire is generally recommended.

Installation Recommendations

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Recommendations for fitting new OYS Rigging

- Lubricate rod heads, stemballs, seats and turnbuckles with lithium grease or Tef-Gel.
- Apply anti-seize to threads on tip cups, rod to rod links, insulators, marine eyes, marine eye noses, micro tangs and clamp tangs.
- Clean threads and apply a liquid stud lock – permanent (Loctite) to locking screws on rod to rod links, insulators, marine eye noses and locking cross pins.
- Fit all roll pins and split pins.
- Once the mast is set-up, apply a liquid stud lock - semi-permanent (Loctite) to locking screws on turnbuckle barrels.

Notes on Stainless Steel Maintenance

Staining

Stainless steel will not stain if properly maintained in clean conditions. Any staining that may occur can be attributed to impurities deposited on the surface of the stainless steel. A common cause of this phenomenon is airborne dust containing ferrous particles, mainly from shot blasting and construction treatments. Should staining occur, the surface can be easily cleaned with warm water and household detergents. If the staining has been left for some time, a mild polishing may be required. Once the stains have been removed, the item should be left to dry in a clean environment, to allow the passive oxide film to reform.





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