



The service

UMC International has proven capabilities to provide underwater stern seal replacement and repair services via the One Ocean™ network. This network has been formed between UMC International, All-Sea Enterprises and Phoenix International to offer a global single common standard of service delivery.

The One Ocean™ network are strategically situated at key global sites to allow teams to be available at short notice to provide a fast and effective service anywhere in the world, reducing the need to dry dock for this type of repair or maintenance.

The technology

Both traditional external lip seals and internal face type seals can be repaired afloat. For the external seals found on most commercial ships, UMC employ a man-entry inflatable habitat that fits around the stern shaft to ensure a dry environment is created for the seal replacement or repair.

The system is both lightweight and robust and can fit a variety of vessel sizes and stern configurations from conventional shafts to pod propulsion systems. The habitat can be transported worldwide and assembled within a few hours while your vessel is at dockside.

For internal face seals found on naval vessels and some commercial vessels, UMC provide a bespoke external sealing system fitted against the stern tube, this allows dry repairs/replacement of the internal face seals as would be carried out in dry dock.

Underwater stern seal replacement and repair services include:

- Lip seals, dry repair and replacement of complete systems including seal bonding
- Face seal wet repairs and replacement
- Stern tube sealing to facilitate inboard repacking of water lubricated stern seals

Above: Diver working inside inflatable habitat (top). The inflatable habitat is fitted around the stern seal area creating a water tight fit (second). A blanking system for repair/ replacement of internal face seals (third).

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