

NAVY AND COAST GUARD SEGMENT

SHIPBOARD USV & BOAT HANDLING SYSTEM FOR OFFSHORE LARS-OPERATIONS



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PALFINGER's new Mission Bay Handling Solution is designed to meet the growing demand for multi crafts LARS and handling solutions on naval vessels. This system is particularly suited to modern naval operations that require the efficient deployment and recovery of various marine assets, including unmanned surface vehicles (USV's), fast interceptor crafts (FIC's) and other manned mission crafts or work boats. The new Mission Bay Handling Solution is 100% compatible with the well proven Slipway System technology from PALFINGER MARINE.

REMOTELY OPERATED SYSTEM

All functions and movements of individual units, stations, cradles, and trolleys in the Mission Bay Handling Solution can be controlled remotely, either from a portable radio remote control unit or from a control stand located in the mission bay area. System status can be monitored remotely on a bridge-panel or on a separate screen in the mission control room. Output to vessel management system can be made available from the Mission Bay Handling Solution's PLC-based electric control system.

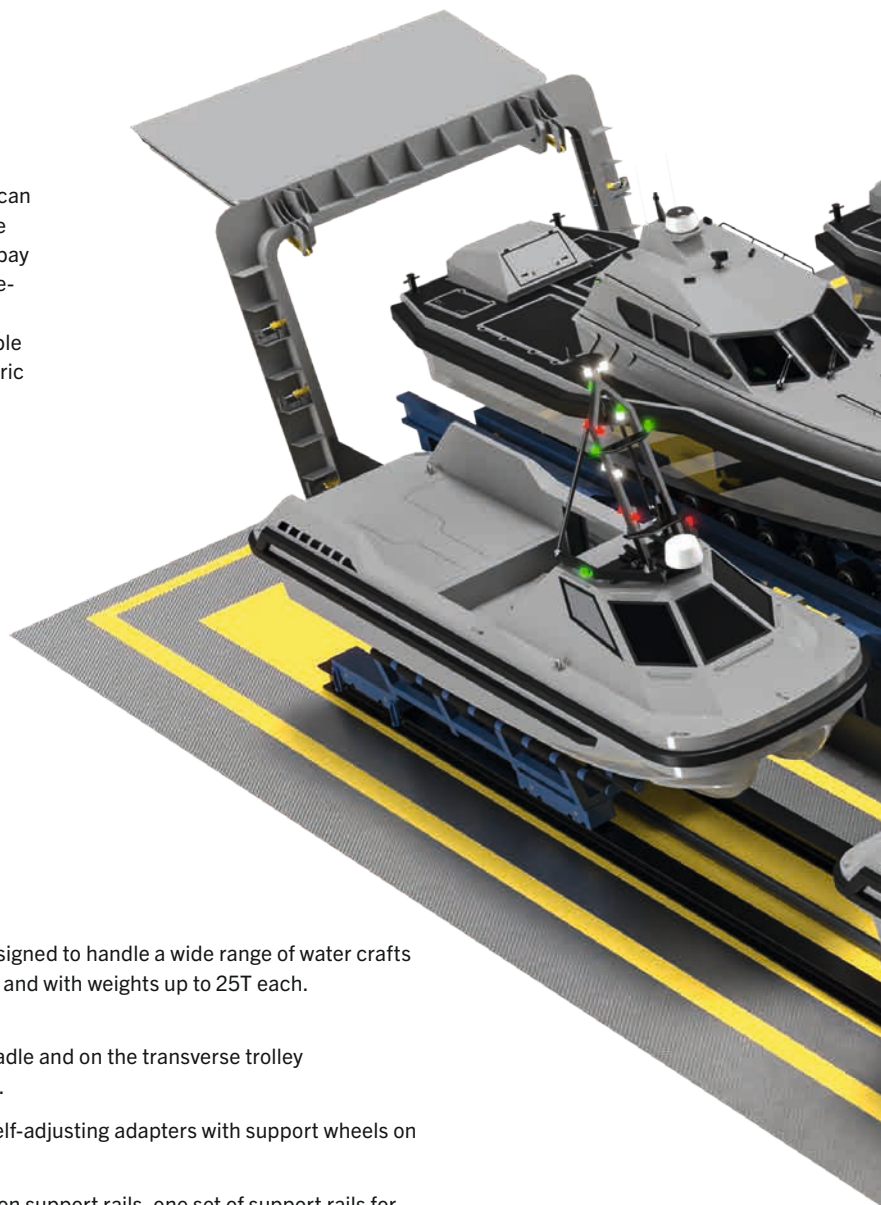
HANDLING UP TO SIX USV'S OR BOATS

The Mission Bay Handling Solution is built from an interchangeable suite of flexible handling units. It can be adapted to hangars with different dimensions, shapes and parking layout.

HANDLING AND STOWING MULTIPLE USV'S AND BOATS

The Mission Bay Handling Solution is a flexible system, designed to handle a wide range of water crafts with different hull shape, propulsion system, length, beam and with weights up to 25T each. Key to this versatility is:

- Self-adjusting quad wheel drive units on the slipway cradle and on the transverse trolley automatically adapt to the hull shape of the water craft.
- Hydraulic operated tilt and telescope arms including self-adjusting adapters with support wheels on the FWD PS/SBS transit/parking cradles.
- AFT PS/SBS parking cradles with two sets of high friction support rails, one set of support rails for wide beam crafts and one set for narrow beam crafts.



SAFE AND EFFICIENT LAUNCH AND RECOVERY

The use of fast interceptor crafts (FIC's), unmanned surface vehicles (USVs) and other mission crafts deployed from coast guard and naval vessels is a rapidly growing global trend.

Safe, efficient, and reliable launch and recovery of various water-crafts in harsh offshore conditions can be essential to operations, but difficult to achieve. PALFINGER's comprehensive and flexible system addresses the current needs of naval vessels for multi-craft operations, enhancing both safety and operational efficiency.

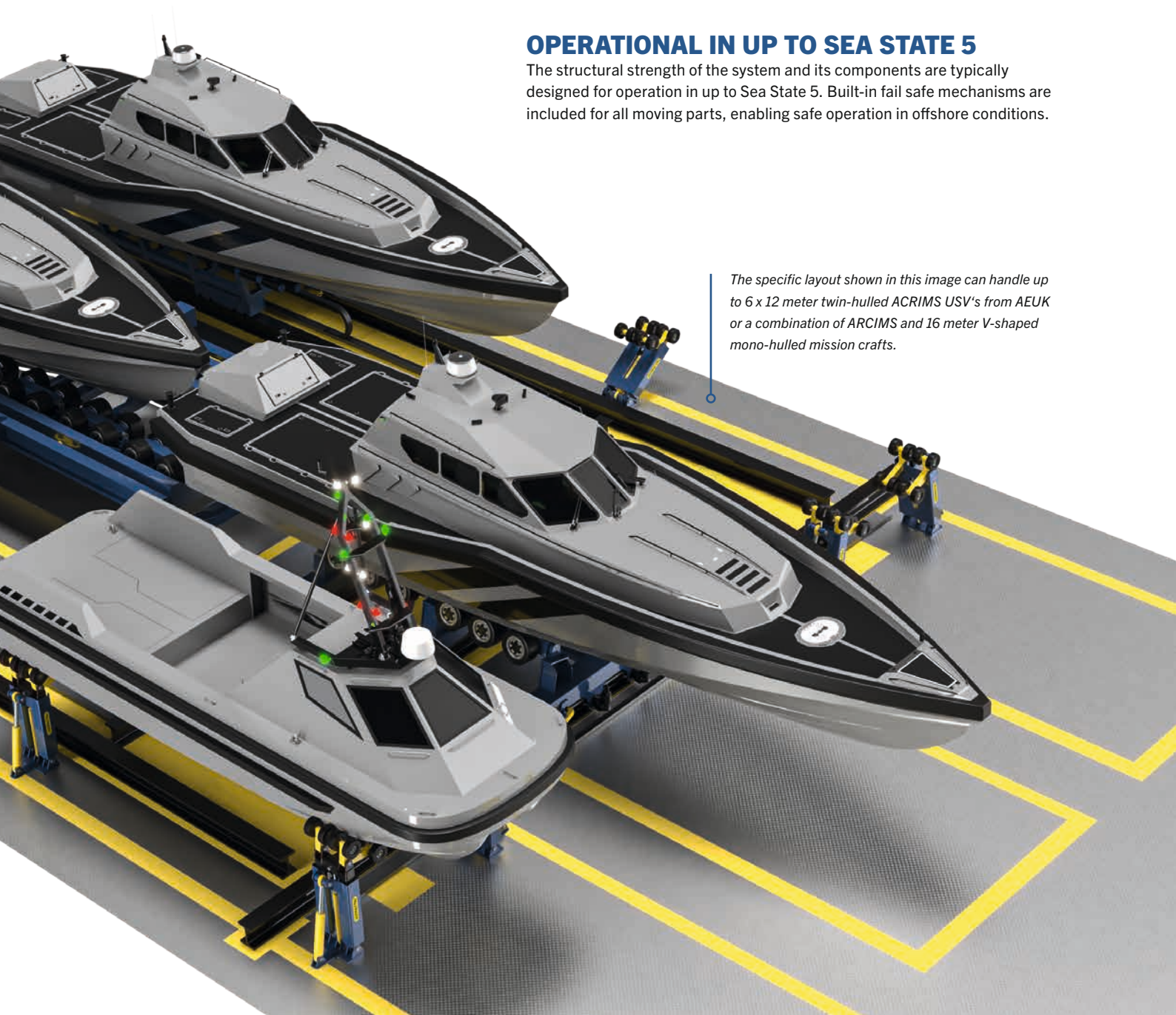
NO NEED FOR MANUAL SUPPORT

The single-operator system eliminates the need for personnel to manually assist in the hangar area during handling operations. This is achieved through the remote-controlled and hydraulic powered Slipway System in combination with the hydraulic powered transverse trolley and transit/parking cradles.

The remote-controlled and hydraulic powered systems reduce the time and effort required for deployment and recovery of mission-crafts. Minimizing manual support increases the safety of crew members and ensures faster and more reliable operations.

OPERATIONAL IN UP TO SEA STATE 5

The structural strength of the system and its components are typically designed for operation in up to Sea State 5. Built-in fail safe mechanisms are included for all moving parts, enabling safe operation in offshore conditions.

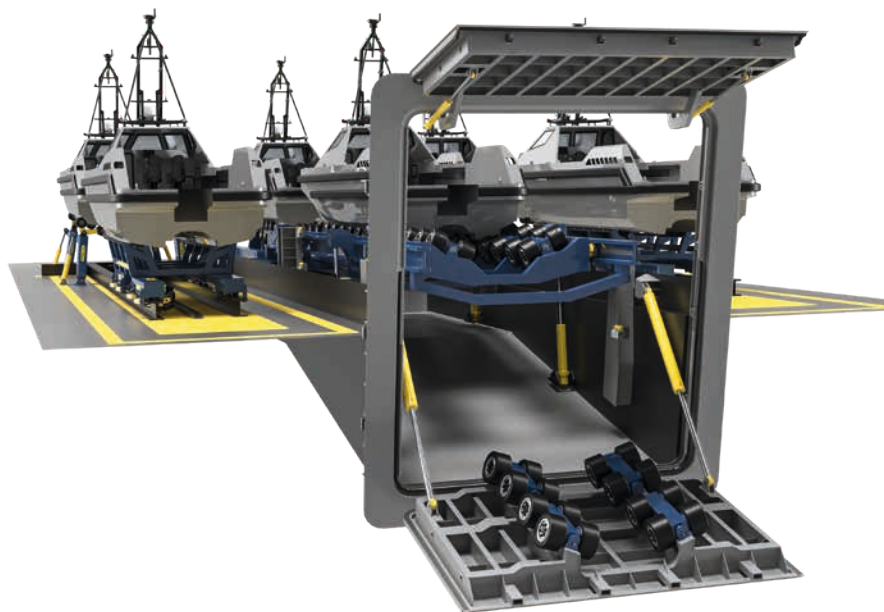


The specific layout shown in this image can handle up to 6 x 12 meter twin-hulled ACRIMS USV's from AEUK or a combination of ARCIMS and 16 meter V-shaped mono-hulled mission crafts.

SPECIFICATIONS

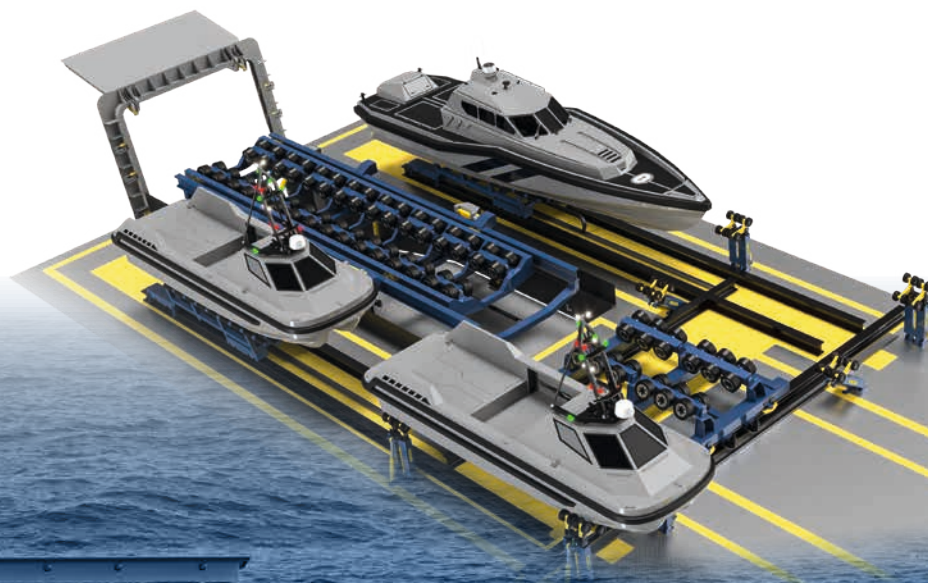
Scope of supply for a 6 x USV/Boat solution:

- One PQBS-SR-E-D Slipway System.
- One powered transversal trolley for transfer of craft to/from parking/transfer cradles, one on PS and one on SBS.
- Two powered parking/transfer cradles, one on PS and one on SBS, for parking of crafts and for transfer of crafts to AFT PS and SBS parking cradles.
- Two powered parking cradles for parking of crafts in AFT PS and AFT SBS positions.



PRELIMINARY SPECIFICATIONS

System capacity	Up to 6 USV's or Boats
System layout	Acc. to customer requirements
Drive system	Electrohydraulic
Max. SWL	Up to 25T, each boat
Max. boat length	Up to 16 meters
Max. Sea State	Up to Sea State 5
Operation	Single operator
Primary controller	Portable radio remote



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