

Innovation, Efficiency & Crew Boats



Flex-42X Crewboat

BMT Nigel Gee has always applied an innovative approach to problem solving, so when the opportunity arose to develop a new monohull crew boat together with Penguin Shipyard International, it was a natural and easy decision.



The two year design process plunged into BMT's track record of accomplishment in designing high-speed specialised vessels. Innovation in hull design is something for which BMT Nigel Gee is particularly well known, be it designs for improved fuel economy as in the case of the crew boat, for improved seakeeping or improved vessel speed.

The new 42m crew boat design developed with extensive operational and practical experience from Penguin, was tested side by side with a more conventional crewboat. The key requirement for the new vessel was to improve operational efficiency. Thereby providing the vessel with either increased

speed, reduced fuel consumption or increased deadweight at the same comparable design point to the conventional vessels.

The design denoted Flex-42X forms a new model in Penguin's highly successful 'Flex' brand and has demonstrated the improved operational efficiencies through extensive sea trials conducted in Singapore, delivering:

- 60% more deadweight capacity at the same speed and power
- A 16% reduction in power at 26 knots with 50t deadweight
- A 22% reduction in power at 26 knots with 80t deadweight

The Flex-42X crewboat is capable of 30 knots with 35 tonnes of deadweight, and a service speed of 28 knots. The first of Class Pelican Calm is configured with 70 business class reclining seats and two VIP cabins on the main deck, it provides 100,000 litres of fuel capacity and 20,000 litres of fresh water capacity, plus a 110-square metre cargo

deck and two external firefighting monitors providing FiFi ½.

The vessel is not only efficient while working under load, but also while transiting partially loaded, being designed with an eco-mode capability running on two out of three engines, doing 23 knots, consuming much less fuel.

The Flex-42X scores several industry firsts for a midsized crewboat:

- **World's fastest triple-screw midsized crewboat powered by three conventional Caterpillar C32 ACERT main engines.**
- **MLC-certified (Maritime Labour Convention) single and double crew cabins with natural lighting, generous living spaces and in-room conveniences.**
- **Largest fuel capacity of 100,000 litres.**
- **Largest seat pitch of 1,100 mm, comparable to business class recliners on major airlines.**
- **Forward windows on the main passenger deck – a feature not found in midsized crewboats but common in European passenger ferries.**

Ed Dudson, Technical Director, BMT Nigel Gee comments “Pelican Calm represents the completion of another successful project with Penguin Shipyard International, a yard we have been collaborating with for over of 12 years. The collaboration continues with a further four vessels currently being designed and built.”

Pelican Calm was recently delivered to Pelican, which owns and operates crewboats designed and built by Penguin. She will shortly head for a charter in Southeast Asia.





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