

# REQUEST FOR INFORMATION (RFI)

Please provide the below information, which Quantum will use for stabilizer selection purposes.  
For assistance in completing the form, please contact a Quantum sales representative.



Date:	<input type="text"/>	Sales Enquiry Number: <i>(Quantum Use Only)</i>	<input type="text"/>
Ship Type:	<input type="text"/>	Application:	<input type="text"/>

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Original Shipyard:	<input type="text"/>	Single Ship Group of Ships	Series/Class Name:	<input type="text"/>
Hull Number:	<input type="text"/>		Quantity of Ships in Series/Class:	<input type="text"/>
Ship Name:	<input type="text"/>		Quantity of Ships needing Stabilizers:	<input type="text"/>
IMO Number:	<input type="text"/>		End User:	<input type="text"/>

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Prepared by:	<input type="text"/>	Email:	<input type="text"/>
Company:	<input type="text"/>	Mobile Number:	<input type="text"/>

## Ship Characteristics

Length (Overall, m):	<input type="text"/>	Speed (Cruise, kts):	<input type="text"/>
Length (Waterline, m):	<input type="text"/>	Speed (Service, kts): †	<input type="text"/>
Beam (Overall, m):	<input type="text"/>	Speed (Max Ahead, kts):	<input type="text"/>
Beam (Waterline, m):	<input type="text"/>	Speed (Max Astern, kts):	<input type="text"/>
Beam (at Rub-rail, m):	<input type="text"/>	Survey Authority:	<input type="text"/> Ice Class: <input type="text"/>
Hull Material:	<input type="text"/>	Power Supply:	<input type="text"/>
Hull Type:	<input type="text"/>	Hull Lines Plan Available?	<input type="text"/>
Chine Type:	<input type="text"/>	Stability Booklet Available?	<input type="text"/>

## Ship Load Conditions

Load Condition	Displacement (tonnes)	GM (m)	KG (m) or KM (m)	Draft (m)	Roll Period (sec)
Full Load	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Half Load†	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lightship†	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## Stabilizer System Requests

Technology:	<input type="checkbox"/> Fixed Fin	<input type="checkbox"/> XT™	Ambient Temperature (°C): †	<input type="text"/>
	<input type="checkbox"/> Maglift™	<input type="checkbox"/> DynaFoil™	Cooling Water Temperature (°C): †	<input type="text"/>
Number of Units:	<input type="text"/>		Will model tests be performed with active stabilizers?	<input type="text"/>
Operation Modes:	<input type="text"/>			
Notes:	<input style="width: 100%; height: 40px;" type="text"/>			

† This information is optional. If not provided, Quantum will provide estimate based on company norms.

**For military applications, please also complete the next page.**

The information provided in this document is the basis for the system sizing and will be held in confidence.

Any inaccuracies or changes to this information are to be reported to Quantum as they may affect the system specifications and projected performance.

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## Mission Requirements

Maximum Time at Sea/Year (Days):  Time between Dockings (Years):

## Stabilizer Loading Requirements <sup>◆ †</sup>

Sea State: <input type="text"/>	Speed (kts): <input type="text"/>	Time (%): <input type="text"/>
Sea State: <input type="text"/>	Speed (kts): <input type="text"/>	Time (%): <input type="text"/>
Sea State: <input type="text"/>	Speed (kts): <input type="text"/>	Time (%): <input type="text"/>

## Stabilizer Performance Requirements <sup>†</sup>

Max Sea State for Ship Operations: <input type="text"/>	Requested Roll Reduction (%)*: <input type="text"/>
Max Sea State for Stabilizer Operations: <input type="text"/>	Requested Roll Reduction (%)*: <input type="text"/>
Sea State of Primary Concern: <input type="text"/>	Requested Roll Reduction (%)*: <input type="text"/>
Required Wave Slope Capacity (°): <input type="text"/>	Requested Roll Reduction at Zero Speed (%)*: <input type="text"/>
At Speed (kts): <input type="text"/>	

Notes:

<sup>◆</sup> To estimate the sustained load on the stabilizers, the time the vessel will operate in a sea state and at a specific speed is requested. Please provide the time as a percentage per 12-month period.

\* Roll reduction is typically analyzed for the 1m beam sea condition at resonant frequency.

<sup>†</sup> This information is optional. If not provided, Quantum will provide estimate based on company norms.

## International Traffic in Arms Regulations (ITAR)

For some ships, Quantum is required by the US International Traffic in Arms Regulations to obtain a license before sharing ship-specific information. To determine if ITAR applies, please indicate if the ship meets any of the below criteria.

### Is the ship a:

- Combatant vessel, specifically: battleship, aircraft carrier, destroyer, frigate, cruiser, corvette, littoral combat ship, mine sweeper, mine hunter, mine countermeasure ship, dock landing ship, amphibious assault ship
- Coast guard cutter, equivalent to US designation WHEC, WMEC, WMSL, or WPB
- High-speed air cushion vessel for transporting cargo and personnel, ship-to-shore and across a beach, with a payload over 25 tons

### Does the ship:

- Have a nuclear propulsion plant, or is it specially design to support naval nuclear propulsion plants
- Perform specific military functions such as: providing military communication, electronic warfare, target designation, surveillance, target detection, or sensor capabilities

### Is the ship:

- Armed or specially designed to be used as a platform to deliver munitions or destroy or incapacitate targets, such as: firing lasers, launching torpedoes, rockets, or missiles, or firing munitions greater than .50 caliber
- Funded by the US Department of Defense via funding authorization dated July 8, 2014 or later

If any of the above applies, please provide a 2-3 sentence summary of the ship's intended purpose and functions:

If any of the above applies, Quantum will follow-up with an additional questionnaire to begin the licensing process.

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