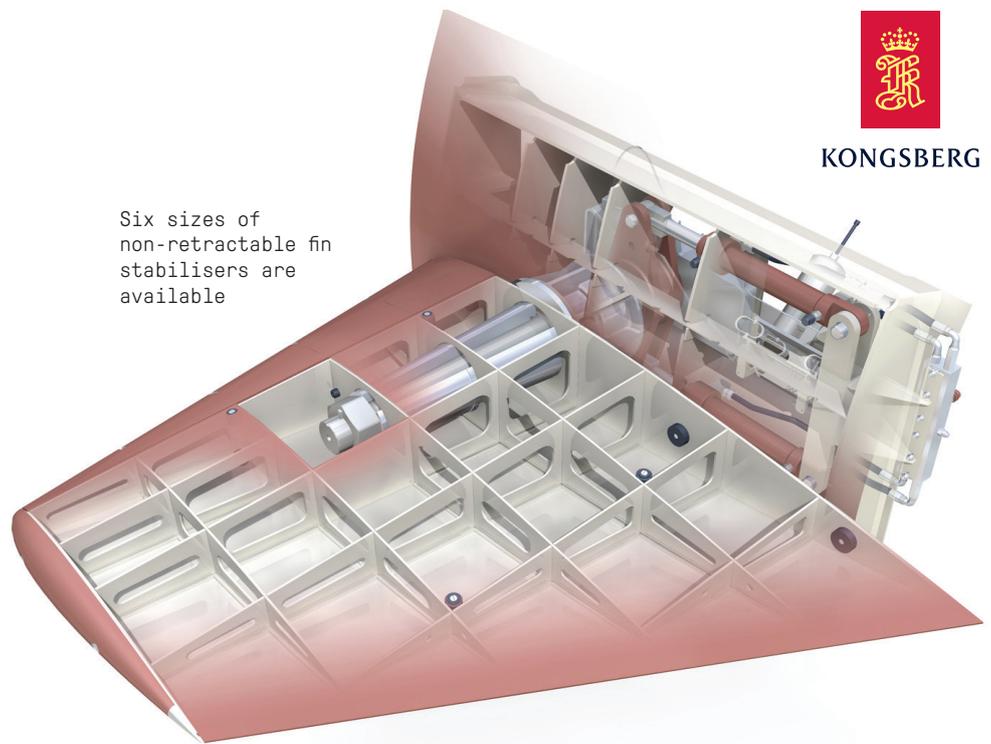


MODULAR NON-RETRACTABLE FIN STABILISER



Six sizes of non-retractable fin stabilisers are available

KONGSBERG STABILISERS

For naval applications

- Self aligning bearings
- Special finshaft coating
- Simple installation procedure
- Meets full military standards for noise, shock and vibration
- Manufactured to NES and MIL-Spec standards as required
- Fin size tailored for specific ship design and performance
- PLC based control system
- Fin unit
 - Compact design
 - Touch sensitive screen
 - Rugged and reliable design
 - EMC approved components
 - Simple to interface with ship's systems
- Baseplate tailored to suit particular ship configuration
- Control system tuned to ship parameters
- Fully analysed to approved safety case
- Compliant with fire resistant hydraulic fluids
- Complies with health and safety regulations
- Meets naval classification rules for stabilisers

Established naval pedigree

KONGSBERG modular stabilisers have been supplied to many of the world's navies including Brunei, Malaysia, India, USA, Australia and the UK Royal Navy, clearly demonstrating the commanding position the product holds in the naval field. In the United States, for example, sixty sets of modular stabilisers were specifically designed and supplied for the FFG7 Class Frigates. A further 16 were supplied for the same class of ship currently in service with the Spanish and Australian navies.

A complete unit

A standard feature of all KONGSBERG modular non-retractable fin stabilisers is the inclusion of the hull closing plate as an integral part of the fin unit. Accurately shaped to fit the hull lines, the installation procedure is simplified so that expensive seating structures and finishing work is avoided.

Reduced maintenance costs

Maintenance costs are also significantly reduced by the simplified construction.

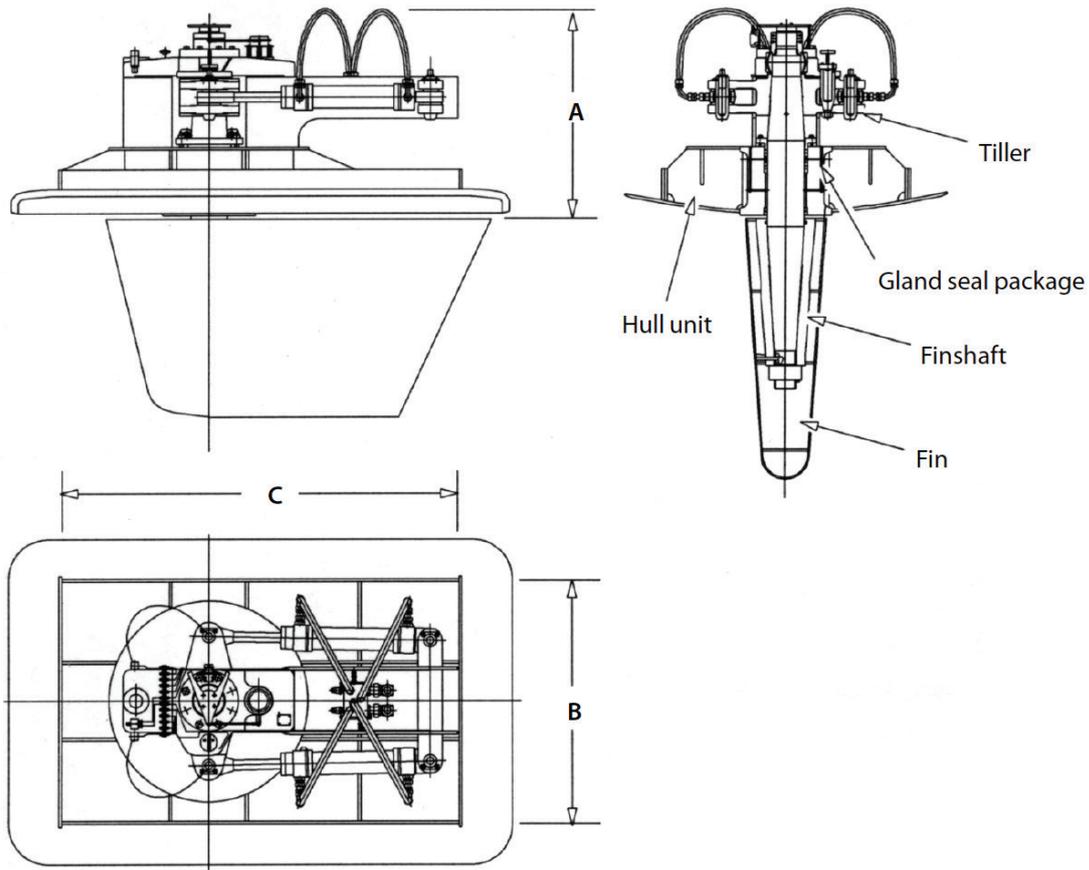
Special features

Use of the latest finshaft coatings and reduced friction, long-life bearings are special features of the system. An inflatable seal to enable the main sea gland packing to be replaced at sea is also offered.

Reduced cavitation

A keyless taper socket fin attachment allows the hydrodynamic profile of the fin blade to remain unbroken, thus reducing the potential for cavitation.

The range of KONGSBERG non-retractable fin stabilisers

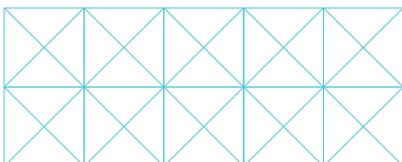


KEY SPECIFICATIONS

MODEL	FIN			SIZES (MM)			DESIGN SPEED (KNOTS)	APPROX WEIGHT (2 FIN UNITS) (TONNES)
	AREA (M ²)	ASPECT RATIO	CHORD (M)	A	B	C		
NR22	1.9	0.5	1.95	1100	1300	2050	30	6.80
	2.9	1.0	1.70	1100	1300	2050	19	8.40
	3.5	0.5	2.65	1300	1345	2260	27	9.04
	4.8	1.0	2.19	1300	1345	2260	19	12.20
NR26	5.0	0.5	3.16	1300	1700	2820	27	14.40
	6.5	1.0	2.55	1300	1700	2820	19	18.60
NR31	7.0	0.5	3.74	1500	1880	3000	26	21.10
	9.0	1.0	3.00	1500	1880	3000	19	26.60
NR35	9.5	0.5	4.36	1750	1950	3550	25	29.90
	12.0	1.0	3.46	1750	1950	3550	18	36.72
NR41	13.0	0.5	5.10	2000	2200	4100	25	42.40
	16.5	1.0	4.06	2000	2200	4100	18	52.10

NOTES:

1. Fin aspect ratio and chord can vary between the maximum and minimum ranges indicated for each model
2. Weights shown include the hull plates



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