

BOTH WORLDS THE BEST OF



KONGSBERG

The KONGSBERG system is specifically designed to minimise the roll of motor yachts. (Image courtesy of Oceanco)

KONGSBERG STABILISERS

Stabilisation at rest for motor yachts, using retractable fins - The best of both worlds

- Fins retractable when not in use
- Less appendage drag
- Increased vessel range
- Uses proven, reliable range of Kongsberg Maritime retractable stabilisers (Aquarius & Neptune)
- Only one pair of fins required depending on size - lower installation costs
- 20-30% performance when fins are passive, in quiet mode
- Retrofit options available
- Low power consumption from quiet electro-hydraulic power unit

FIN UNIT

- Simplified crux design
- Vertical linkage for fin tilt
- Composite finshaft bearing
- Triple seal arrangement
- Small hull aperture

FIN

- One piece construction
- Tip fence

POWER UNIT

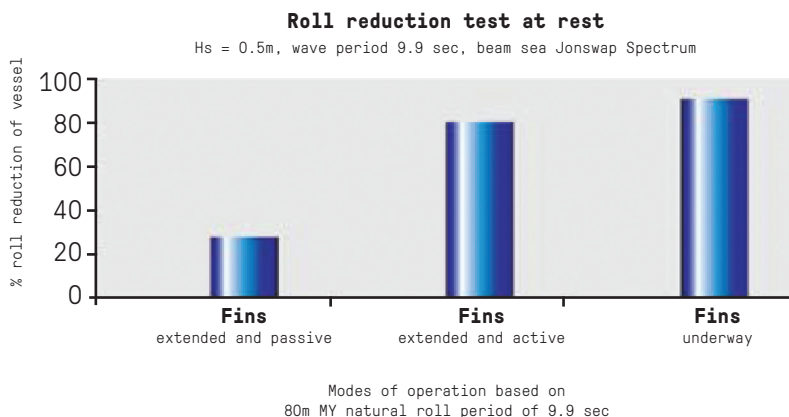
- Package unit including all components for ease of installation
- Low noise and vibration

Significant roll reduction when the vessel is stationary - continued high performance when underway

KONGSBERG has developed a new concept that significantly reduces the roll of a motor yacht when stationary by increasing the effectiveness of the retractable fin stabilisers normally used for underway stabilisation. The system uses a new fin profile and an advanced control system that keeps the fins 'active' when stationary, maximising their effect in reducing ship motions. Scale model tests carried out at the Maritime Research Institute Netherlands (MARIN) in Wageningen, December 2005 on a large motor yacht have proven the effectiveness of the design concept. The conclusion was proven in December 2006, when MY "AMEVI" underwent sea trials with the full scale installation.

The KONGSBERG system gives yacht owners the best of both worlds in terms of stabilisation performance with the advantages of a single system installation - providing optimum comfort at rest and at speed. Existing systems can be upgraded to improve performance at rest.

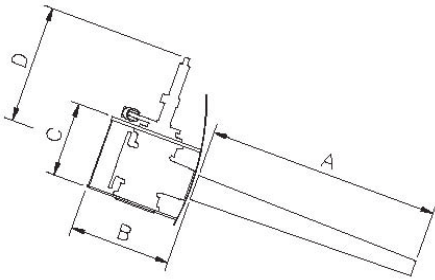
Roll reduction test results



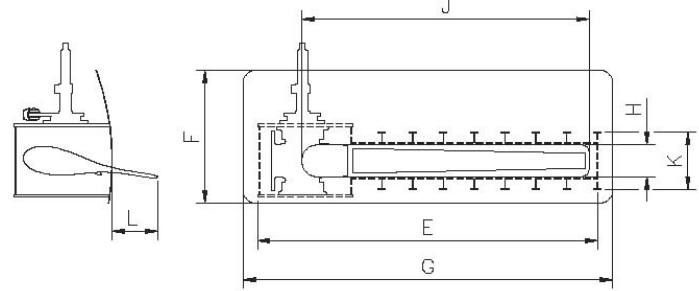
Note: Underway performance based on a separate simulation at higher sea-states and vessel speed

Neptune 200 SAR stabiliser

Extended



Housed

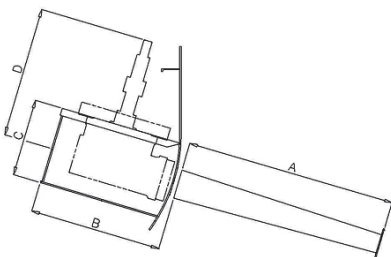


KEY SPECIFICATIONS

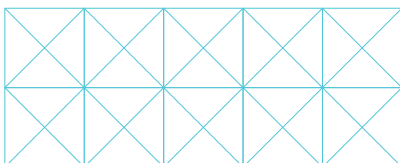
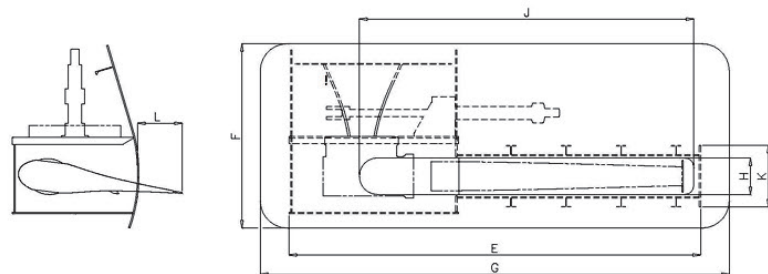
MODEL	FIN AREA (M2)	SIZES (METRES)											APPROX WEIGHT /SHIP SET (TONNES)
		A	B MIN	C	D	E MIN	F	G MIN	H	J	K	L	
25	Up to 4	2.44	1.08	0.64	1.42	3.77	1.85	4.37	0.3	3.14	0.53	0.7	13
50	Up to 6.1	3.19	1.41	0.845	1.69	4.94	2.2	5.54	0.4	4.66	0.68	Up to 0.66	24
100	Up to 9	3.99	1.77	1.2	2.1	6.18	2.7	6.78	0.56	5	0.85	Up to 0.7	42
200	Up to 12	4.54	1.98	1.43	2.28	6.64	2.4	7.2	0.62	5.6	1.03	0.905	50
300	Up to 15	5.14	2.2	1.62	2.575	7.5	2.8	7.8	0.7	6.35	1.18	0.915	75

Aquarius SAR stabiliser

Extended



Housed



Kongsberg Maritime
P.O.Box 483, NO-3601
Kongsberg, Norway

Switchboard: +47 815 73 700
Global support 24/7: +47 33 03 24 07
E-mail sales: km.sales@km.kongsberg.com
E-mail support: km.support@km.kongsberg.com