

DMS All-in-One model 3

Maximum stabilisation for yachts at zero speed, cruising speed and high speed

Main features

- + All electric
- + Two dual axis patented stabiliser fins
- + Fully automatic operation, depending on vessel speed
- + Stabiliser operation modes:
 - Zero speed stabilisation
 - Low speed stabilisation
 - High speed stabilisation
 - Dynamic pitch and roll stabilisation
 - Static trim roll and/or pitch
- + Industry standard electrical components only
- + Aluminium housing and fins
- + Power supply:
 - 1P/N230 Vac 50/60 Hz (4 kW total)
 - 24 Vdc 5A
- + Gross weight approx. 250 kg per stabiliser unit
- + Simple installation
- + Very low maintenance
- + 5 year warranty



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Natheer Technical Services L.L.C

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Introduction to DMS All-in-One

DMS supplied 600 stabilisation systems in 10 years, successfully launched 3 products and is now ready for the DMS All-in-One. As the name suggests, DMS All-in-One is a stabilisation system that provides roll reduction at zero speed/anchor (by flapping the fins), when cruising at low and moderate speeds (like a traditional fin), but also assisting in longitudinal trim and roll reduction at much higher speeds.

This development is only possible due to our existing registered patent for a twin-axis fin stabiliser and by using a high aspect ratio fin design combined with our own advanced stability algorithms.

Application window

- Aluminium hull 45 ft -65 ft
- New build and Retrofit
- Installation at stern of vessel
- Stern of vessel must have cubic shaped corners to be able to weld the stabiliser unit to the hull (e.g. no canoe shaped stern)
- NMEA0183 or NMEA2000 speed signal
- Natural roll period minimal approx 3 s

Actuator unit(s)

Diameter	344 mm
Length hull bushing (excl. hydrodynamic tip)	850 mm
Length complete unit (excl. hydrodynamic tip and fin trailing edge)	1200 mm
Material	aluminium

Fin(s)

Area	0,20 m ²	0,30 m ²	0,40 m ²
Fin span	0,63 m	0,76 m	0,89 m
Aspect ratio	2	2	2
Material	aluminium	aluminium	aluminium

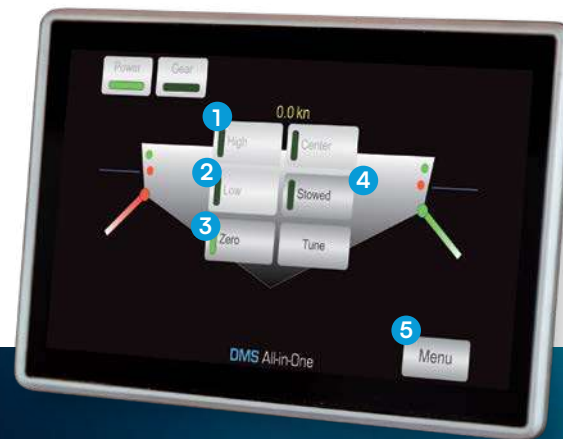
Electrical

- Dimensions electrical control cabinet: H x W x D = 600 x 500 x 300 mm
- Single phase power supply: 230 Vac 50/60 Hz
- 24 Vdc/5 A control power supply
- Maximum peak load 1 kW per fin (zerospeed)
- Maximum continuous load 2 kW per fin (cruising)

Scope of supply

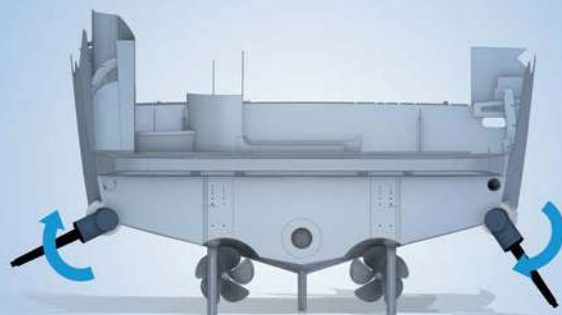
- 2 x fin actuator unit, fully in-house assembled and tested
- 2 x fin (aluminium)
- 1 x electrical control cabinet
- 1 x operator panel (high-brightness touchscreen 5")
- 1 x manual
- 1 x shipping crate

Control panel

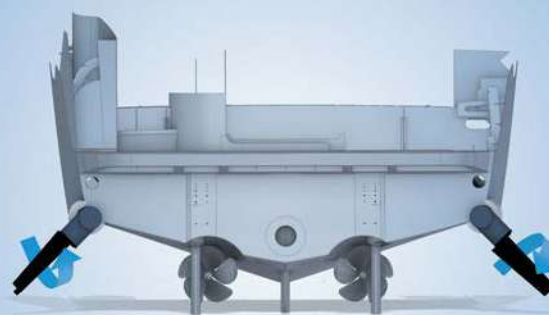


- 1 Stabilisation at High Speed
- 2 Stabilisation at Cruising Speed
- 3 Stabilisation at Zero Speed
- 4 Fins are in park mode
- 5 System settings

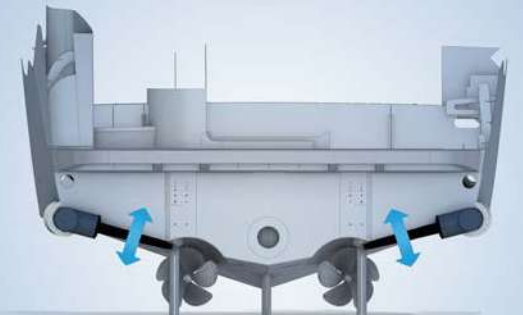
Delivery EXW DMS Holland Kerkdriel
Delivery time 3 months



Zero speed stabilisation



Cruising speed stabilisation



High speed stabilisation



NATHEER TECHNICAL SERVICES LLC

P.O. Box 85186, Al Qusais, Industrial Area 3, Dubai - UAE
Tel: +97142674450 Fax: +97142674451
E-mail: info@ntsuae.com Website: www.ntsuae.com