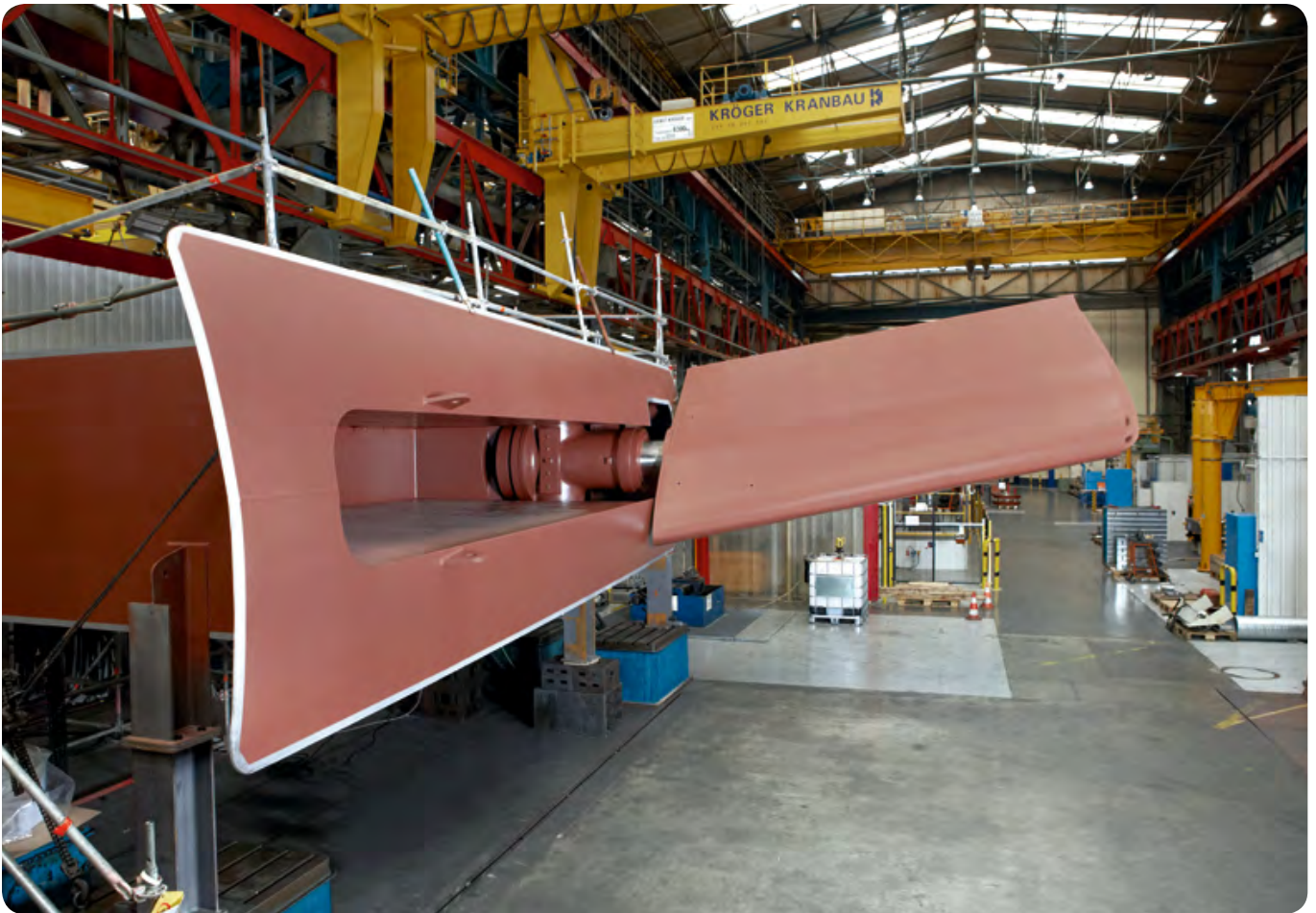
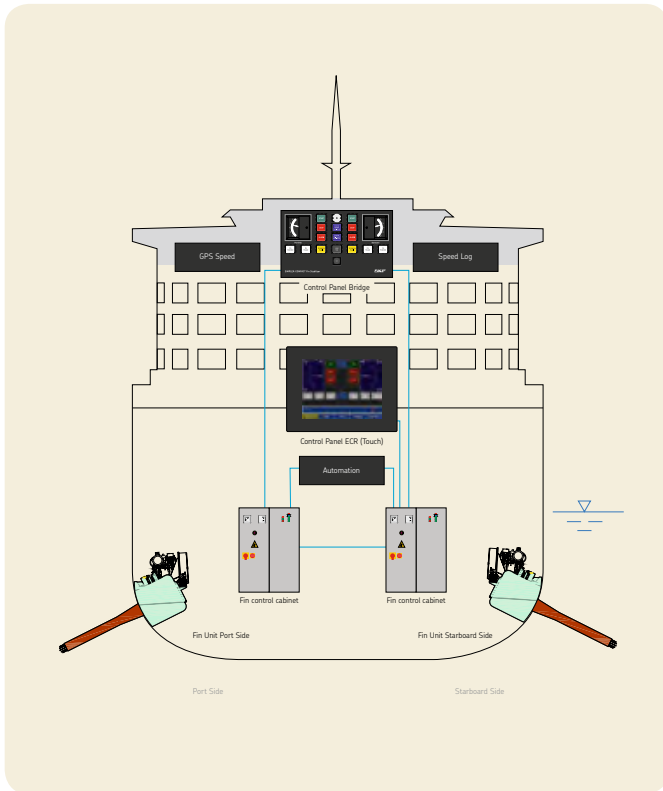


Retractable fin stabilizer type Z



General description

- Retractable fin stabilizer for both zero speed and under way stabilization for all kinds of vessels
- Rotary vane fin actuators
- $\pm 60^\circ$ working angle
- Fin can be housed completely inside without any hull protrusion
- Anti-Vortex-Tip fairings
- Fin area range up to 21 m²



Advantages

Design

- Rotary vane fin actuators: Extremely compact, powerful and highly reliable; torque transmission is free of unbalanced forces on the fin. This avoids additional loads on the bearings thus ensuring high fin movement precision and enabling $\pm 60^\circ$ working angle
- Benefits of $\pm 60^\circ$ working angle in zero speed mode:
 - Increased lift; better roll reduction
 - Smoother force transmission; reduced jerking effect, increased comfort
 - Smaller fin area; reduced resistance under way
- Due to patented, swept design, the fin can be housed completely inside without any protrusion of the ship hull
- Accumulator-supported hydraulic system: Reduced size of motors and pumps, lower demand on electrical current, lower peak load on power supply, decreased noise level, increased dynamic system response
- Concave fin profile with increased lift coefficient
- Patented Anti-Vortex-Tip fairings: Increased lift, smaller fin area required, low drag, fuel saving
- Compliance with classification societies' regulations, SOLAS and MARPOL 73/78 convention specifications
- Compliant with Vessel General Permit (VGP) 2013 regulations

Installation

- Integration into ship structure (fin box) designed in close collaboration with the shipyard
- Final manufactured unit, fully tested including operation and automation test
- Delivered ready-to-use to any shipyard worldwide
- Final installation to be done by shipyard; welding into the ship structure, installation with chocking fluid, wiring and cooler connection

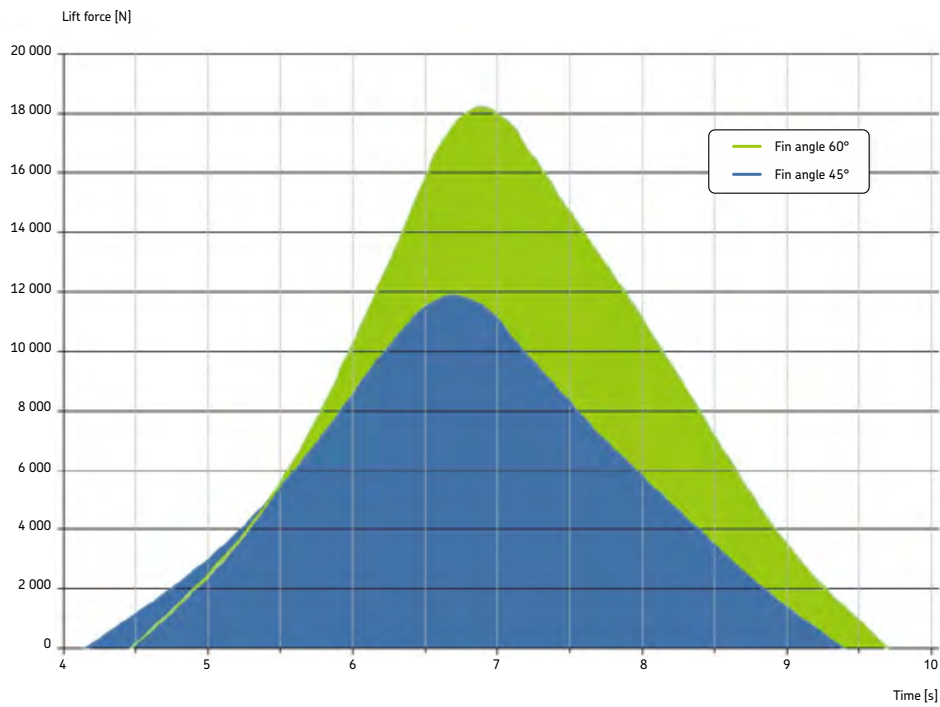
Operation

- Easy operation by simple start or stop commands
- Control system's operation is fully adaptive to the ship speed, sea state and roll motion behaviour of the vessel. Manual adjustments by the crew are possible when required
- For manual control during inspections or any intermediate maintenance, use operation and service switches which are located inside the fin control cabinet

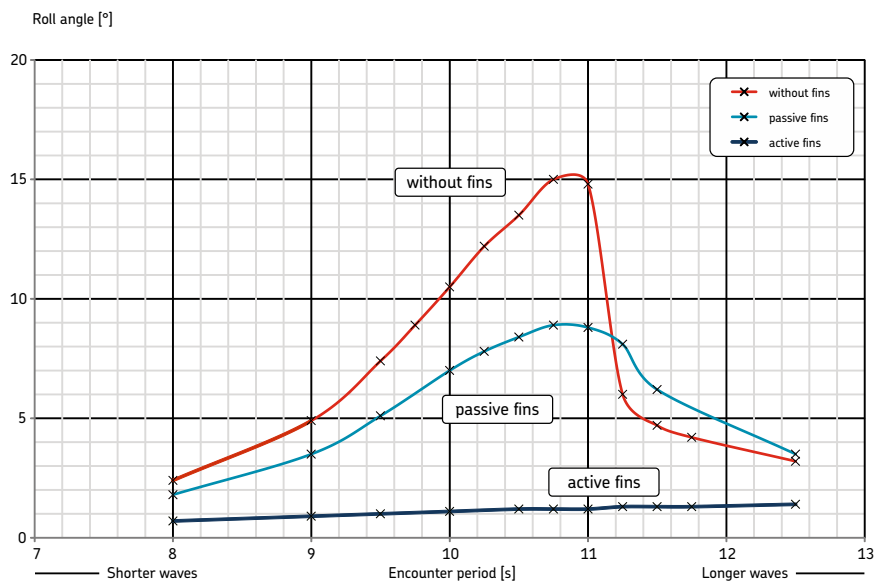
- Customized mode selection: Control system design enables single-fin or twin fin-operation
- Control system is fully integrated into the motor starter cabinets. No additional central control or sensor cabinets are required
- ECR Touch Control Panel provides identical control functions those at the bridge control panel, as well as additional status, alarm and service information for best operational comfort and control. It can be set to passive mode to prevent the stabilizers from being started unintentionally

Service

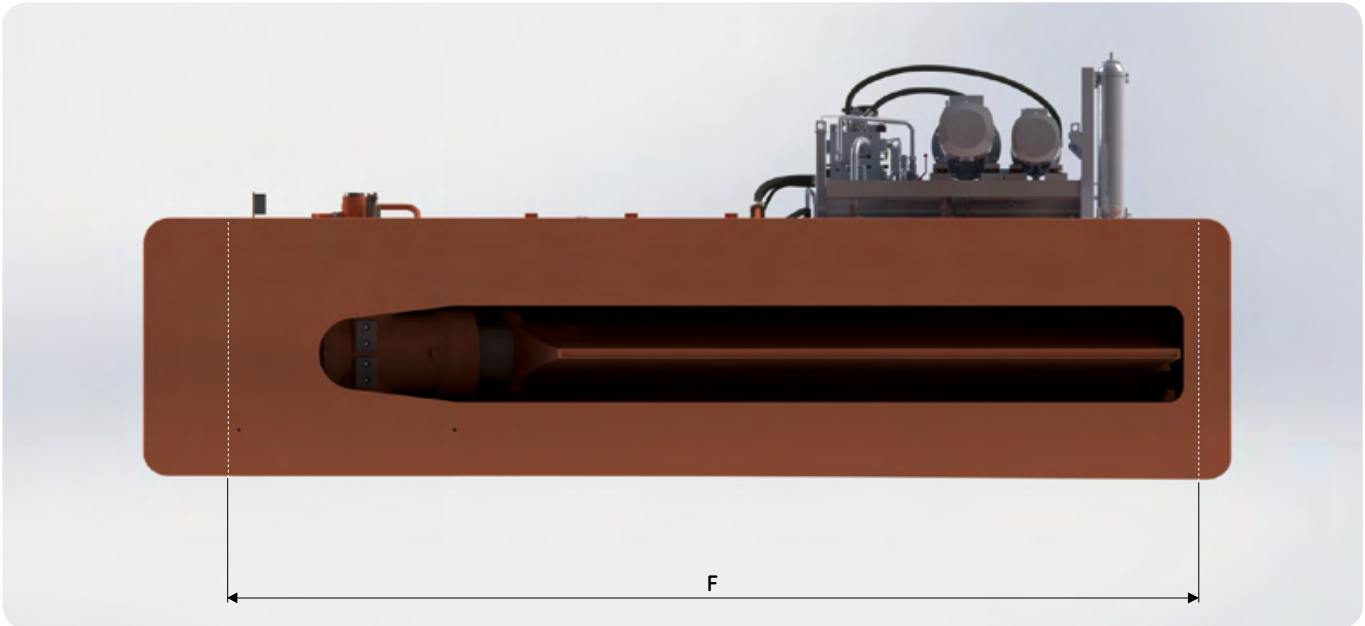
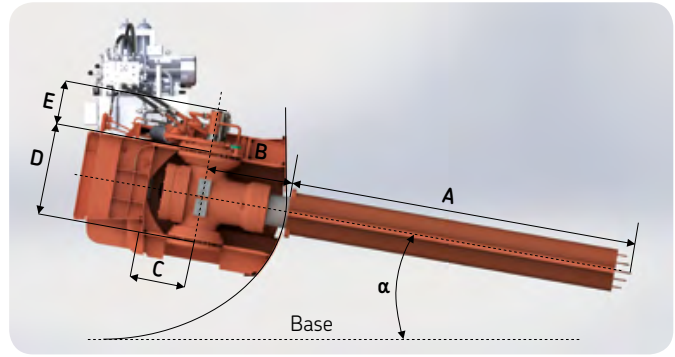
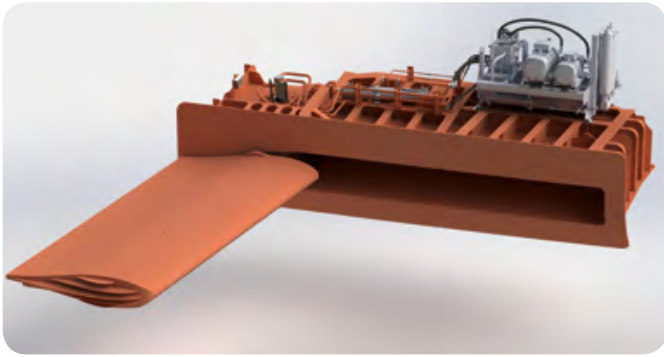
- 24/7 in-house service by highly trained personnel



Lift force gain for working angle of 60° compared with 45°



Type Z – typical performance – wave height 1 m




Dimensions/Type	Z 300	Z 400	Z 500	Z 600
Fin area [m ²] up to	9,00	13,00	17,00	21,00
A [m]	4,00	4,80	5,45	6,10
B [m]	0,95	0,99	1,40	1,65
C [m]	0,58	0,69	0,80	1,00
D [m]	0,95	1,22	1,40	1,54
E [m]	0,73	0,73	0,73	0,73
F _{min} [m]	6,20	7,20	8,50	9,60

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