海航町置导起

IGVSInlet Guided Vane with Shroud

设计流程

船型输入

输入船体尾部线型和螺旋器参数

导轮振动模态评估

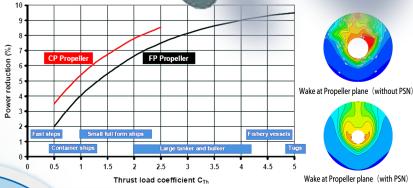
评估前置导轮干湿模态,避免引起,

尾流评估

评估前置导轮几何参数;根据输 入船体尾部线型和螺旋器计算 通过数值水池评估船舶安装导轮 后节能效果

节能导轮设计

在确定导轮方案上完成结构设 计和建模、有限元强度分析



海航前置导轮将采用先进的技术和尖 "的设备进行设计、生产和制造,使船东和 转商通过减少油耗和废气排放来减轻

环境的污染,从而达到船舶运行的各项国 际环保要求指标。适用于各类新造船型和 优化改造船舶。

Fixed duct on hull

我们的优势

岩道文品

- ◆ 一至二年内即可收回投资成本
- ◆ 预计节省5%到10%到燃料
 - ▼油船和散货船最大可达10%
 - ▼集装箱船, 节能效果4%
- ◆ 通过提升运营效率、追求环保卓越、

实现燃料灵活

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写W高颇

- ◆ 自主设计——生产制造——安装服务
- ◆ 超过二十年船用产品专业设计经验博士团队
- ◆ 高质量生产流程专业生产制造

Customised fins

Upper bracket

◆ 安装服务团队提供24/7全天候支持服务

IGVSInlet Guided Vane with Shroud

Process

Input the vessel info

Input the boat stern contour and the propeller parameters

Evaluation of vibration modes of IGVS

Evaluating the dry and wet modes of the PSN to avoid resonance

Wake Assessment

Assessing the geometric parameters of the PSN: Calculate according to the boat stern contour and the propeller pa-rameters. Assessing the energy-saving effects of installing PSN on ships using numerical tank simulations

Energy-saving IGVS Design

design, modeling, and finite element strength analysis are completed for the chosen PSN.

Power reduction (%) FP Propeller Thrust load coefficient C_{Th}

Wake at Propeller plane(with IGVS)

The IGVS will be

designed, produced, and manufactured using advanced technology and equipment.

This will enable shipowners and operators to reduce fuel consumption and emissions, thus alleviating all types of newly built ships

Fixed duct on hull

Upper bracket

Cost Saving & Benifits

- ◆ The investment cost can be recovered within one to two years
- ◆ Expected fuel savings range from 5% to
 - ▼ Tankers and bulk carriers can achieve fuel savings of up to 10%
 - ▼ For container ships, the energy-saving effect is expected to be around 4%
- Achieving fuel flexibility through improved operational efficiency and pursuing environmental excellence

Contact US

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Professional and Efficient

Customised fins

- ◆ In-house design, manufacturing, installation, and service
- Over twenty years of professional design experience PhD team in marine products
- Manufacturing with high-quality production processes
- 24/7 service support team