Maritime Business Applications

Complete Solutions for the Maritime Industry

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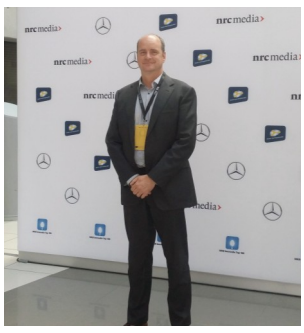
EcoTrim in the "SME (MKB) Innovation top 100"

On June 12th 2014, the Top 100 most innovative companies in the Netherlands were revealed. We are proud with our 35th place in the "MKB (SME) Innovation Top 100" award in The Netherlands. HMC is honored for the development of our product EcoTrim.

EcoTrim is an intelligent software tool that calculates the optimal trim for a vessel aimed at reducing fuel consumption. The tool consists of a trim optimization module for all types of vessels. Fuel costs have a large impact on the economics of a ship and shipping companies. Savings of 2% - 5% are possible, which will result in significant cost savings. HMC's EcoTrim has the attention of International shipping companies, who are interested in obtaining the program to realize cost savings without any technical changes to the vessel. At the moment we are working on the integration of EcoTrim in our loading instrument CPC. Environmental aspects and fuel costs have a large impact on the economics of a ship and shipping company and we think CPC and EcoTrim could be an ideal combination to reduce costs. The presentation of the SME Innovation Top 100 took place at the headquarters of Mercedes-Benz in the Netherlands. The list with the most innovative companies was published on Friday, June 13th 2014 in the NRC Handelsblad and was sponsored by Mercedes, NRC Media and the Dutch Chamber of Commerce. The SME Innovation Top 100 is considered the largest and most important award for SMEs in The Netherlands. We are very proud on our ranking and HMC's recognition in the prestigious Innovation top 100 and look forward to the next edition in 2015. If you have any questions please contact us at info@hmc.nl

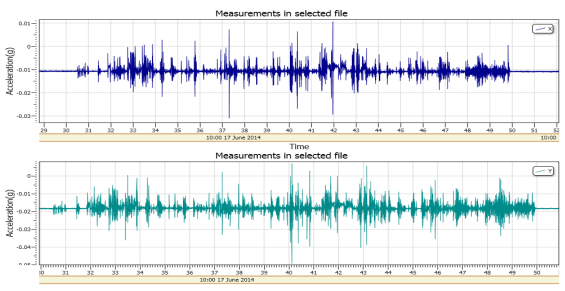
"EcoTrim has attention of International shipping companies"



HMC keeps innovating her Marine Quality Kit (MQK)

The MQK measures accelerations and strain and in the combination with FAMON fatigue measuring and monitoring software it provides crew, owners or contractors with fatigue and motion data.

The MQK can be installed on objects in rugged environments outdoors and indoors. The system can be used either as a measuring device for post hoc readout and analysis or as a real time monitoring device. Raw data will be processed and analyzed by HMC and delivered via a wireless connection. The MQK can be used for post hoc analyses of strain and motions, comparison to maximum strain and the real time monitoring of strain and motions. In this way ship owners can make real time adjustments to heading and speed to reduce fatigue damage. The MQK is a useful tool for ship owners, marine surveyors, insurance industry, contractors and their respective clients. The hardware consist of one accelerometer and a data acquisition board. Furthermore an embedded pc to process the data. For more information please contact our office at info@hmc.nl.



"MQK: monitoring of strain and motion on behavior of floating objects and assess fatigue"

HMC presented at the RINA in London

On May 22nd 2014, HMC presented a paper at the Royal Institution of Naval Architects (RINA) in London on the Design and Construction of Container Ships. The RINA wants to further investigate this aspect of the maritime Industry.

The recent period of increase in the size of container ships presents unique challenges for owners, designers, operators and classification societies. This has been coupled with persistent economic uncertainties and new legislation which has created an emerging need for more energy efficient vessels. These, almost opposing trends, are driving innovation within the industry. With the increase in size, the geographical constraints placed on draft and beam, and the calculation of the vessels dynamic structural response, including whipping and spring, become ever more important. Cost efficiency, flexibility, optimum speed, stability, and energy efficiency, must all be addressed in the new generation of container ships. Recent innovative technologies have been the result of environmental issues and the need to reduce energy consumption and atmospheric emissions. To further investigate this aspect of the industry, RINA invited papers from naval architects, class societies, operators, researchers, and builders on all related topics. HMC was proud to present our view on this topic and hopes the industry will share our thoughts. For a copy of HMC's paper or more information please contact our office.

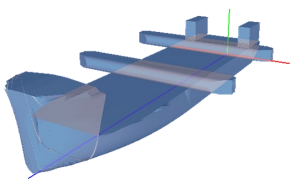
"RINA London invited HMC to present a paper about the reduce of energy consumption"

HMC's Marine Services Tool

Risk based transport design will provide better guidelines and criteria for the transportation of special deck cargoes as well as floating objects. Use of this tool as decision support system will increase the safety of transports.

To ensure better implementation of guidelines and criteria, the on board tool will be developed to simulate the consequences of actions such as route changes and the effects of speed reductions and course changes under harsh conditions. The office system is a suite of computer programs, presented with a graphical user interface, which computes the design values for a transport and evaluates the risks. The MS Tool calculates the full motion climate for the long term statistics and related probability of failure of e.g. sea fastenings. For calculations of the Bollard Pull, HMC has developed the BP MS-Tool. The tool calculates forces resulting from wind, waves, current and resistance of the towed objects. HMC uses two calculation methods. The first method is the Holtrop Mennen. This method is embedded in a fairing program. Calculations are made after modeling the tow into the fairing program. The sensitivity for LCG variations can be assessed for calm water resistance. The second method encompasses calculations that are validated with data from actual towages. The system will also monitor what actually happens during the voyage. For more information please contact our office at info@hmc.nl.

"Use of MS-Tool will increase the safety of transports"



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