HMC - Marine Services
Dutch leading heavy transport engineering company

HMC worked in 2014 on more projects than ever before

Planning projects require detailed analysis, sequencing for all phases and the completion of every project. The planning begins with the project objectives and elaborating them with physical requirements, budget, schedule, and material considerations.

At the moment HMC has worked on more than 100 Projects in 2014. Each client benefits from our many years of experience. Our project management professionals take responsibility for designing the complex projects. We always begin with a detailed proposal that captures the most efficient and effective strategies to increase the overall economy. We monitor critical paths, and plan all phases of engineering procurement and construction. HMC focuses on all aspects of marine transportation and marine services. We offer our world-wide clients services as planning, design and the execution of high risk complex maritime operations. We are proud to have worked on more projects this year than ever before. More information can be obtained via our website www.hmc.nl or contact our office at info@hmc.nl

_"HMC is proud to work on more projects than ever before"_

Emphasis on transport engineering is necessary to improve safety

The complexity of detailed voyage planning and preparation is growing faster than ever. Due the economy of scale the dimensions of module carriers and motions responses in extreme environmental conditions increase. Transport engineering encompasses the full scope of assessing the environmental conditions, optimal loading condition, ballast plans, motions response calculations and fatigue damage calculations.

Nowadays, the design of sea-fastening and skid shoes are hot topics in the offshore industry. All companies want to lower their costs and are experimenting with of building opportunities of modules and applying new materials. Sea-fastening prevents cargo from movement while the ship is in transit and subjected to motions. HMC is capable to provide all kind of services regarding proper sea-fastening to assure that the transport of your cargo/vessel will be safe. We design lashing and sea-fastening procedures and do all secure calculations. We developed a preactical methodology for fatigue damage calculations**.** Our services include FEED engineering design work on offshore platforms and pipelines, decommissioning studies, feasibility studies for vessel choices and mobilizations, transportation engineering and sea-fastening design. As an engineering firm we are always looking for better designs which fulfill the needs of our clients. The type of cargo indicates the way of sea-fastening. We are capable to provide all kind of services regarding proper transport engineering and sea-fastening and assure that your transport will be safe and will guarantee the most reliable sea-fastening. Our services will improve the industry. For more information please contact our office at info@hmc.nl.

_"The complexity of detailed design grows"_
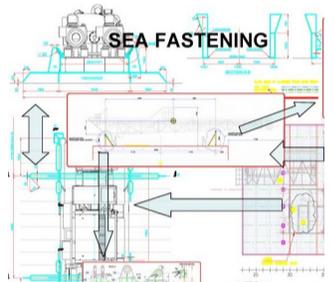
HMC's Finite Element Studies (FEMAP)

HMC has a special department for Finite Element Method studies. The implementation of Finite Element Methods into fatigue design of structures has enabled the development of local stress concepts and consequently determining the stess concentration factors.

Finite Elements Studies have been performed for a broad range of purposes. As an example, HMC did strength studies for sea fastening of offshore structures, barges and hulls. Nowadays design of ultra large container vessel show fatigue damage which presently being studied.. Another example are the strength calculations for several mat supported rigs self elevating platforms (JU rigs) to be converted into Mobile Offshore Productions Units (MOPU) for which we execute lifetime extension plans. The main purpose of utilizing refined and local stress concepts are to compute the load effects (stresses) in a complex detail with larger accuracy, by taken into account the effects of various stress which might have a decisive role on fatigue strength. In our **picture book** you can find more examples of our works with these studies in combination with FEMAP. For more information please click on this **link** or contact our office at info@hmc.nl.
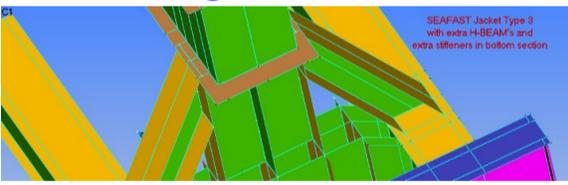
"HMC's Specialized strength studies and calculations"

HMC delivers solutions for heavy transport engineering also in FEED studies

Being a capable engineering company with roots in the offshore and shipping industry, HMC presents itself as an independent engineering firm. We supply clients with technical answers, calculations and designs to handle their problems.

Safety is always an important factor of maritime transports and therefore an important part of our products, services and education. HMC has the expertise and equipment to provide reliable marine transportations. We can deliver logistics services for project cargo movements and calculations for transport of offshore construction and offshore module components. For towing operations, HMC provides transport companies with bollard pull calculations. Via our own developed software we are able to efficiently revert a question for a bollard pull with a minimum of required information of the towed object. This enables HMC to quickly react to technical feasibility questions of towage companies in the tender phase of a project. Besides pre- towage calculations, we can offer warranty survey services. These services consist of pre- and post towage inspections, supervisions during inclining tests and the representation of owners and insurance companies during towage, transport and salvage operations. HMC has a lot of experience on offshore installation support, transport of modules, topsides and design of sea-fastening. If you require more information about our services, please contact our office at info@hmc.nl.

"HMC provides safe and reliable marine operations"

"HMC: Passion for Engineering"

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