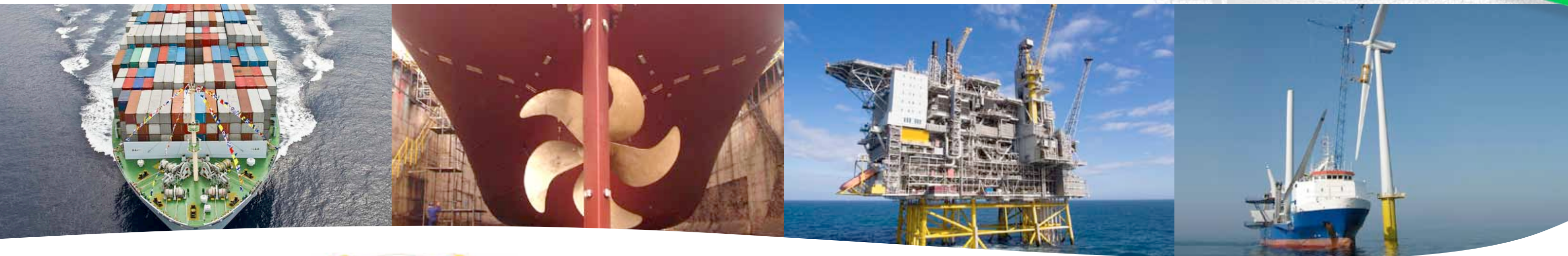
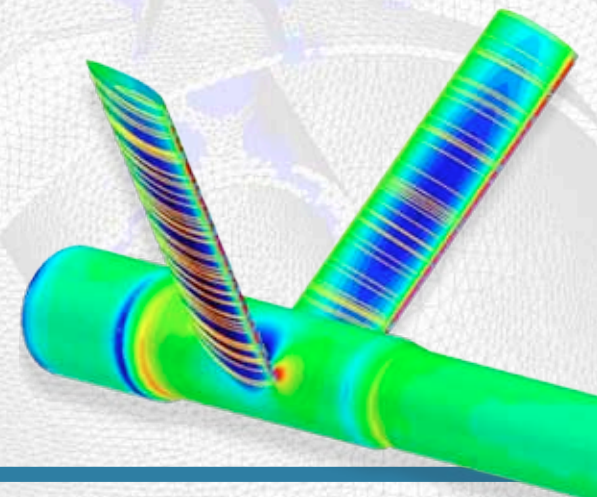


We offer different services to make you more competitive

We are VICUSdt

VICUSdt is an engineering design and analysis service company that allows our clients easy access to a highly skilled engineering resources within shipbuilding, shipping, offshore and energy industries.

Our breadth of experience coupled with an adaptive and flexible approach means that we can react to time sensitive challenges, working with you when you need us. Our engineers, naval architects and project managers are highly qualified full-time employees offering a diverse range of technical skills.



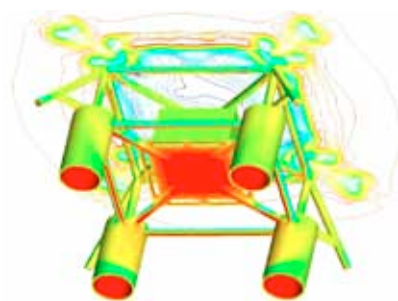
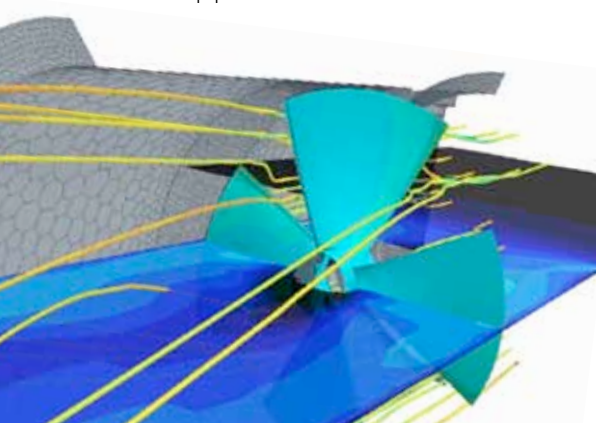
Services

CFD Simulation ships

- Ship resistance & powering prediction
- Hull form optimization
- Wake calculations & appendage alignment
- Self propulsion & bollard pull analysis
- Seakeeping
- Maneuvering & dynamic position analysis
- Trim optimization analysis
- Added resistance due to waves

Ship performance

- Energy audits
- EEDI and EEOI verification
- Ship performance simulator



CFD Simulation offshore

- Added mass
- Slamming
- Green water
- Vortex induced motion/vibration
- Moonpool analysis & optimization
- Thruster interaction simulation
- Drag analysis for submerged devices
- Aerodynamic forces and moments
- Scour

Measurements

- Power measurement on shafts
- Flow measurement on pipes
- Exhaust gases (NOx, SOx...)
- Electrical power analysis

FEM Simulation

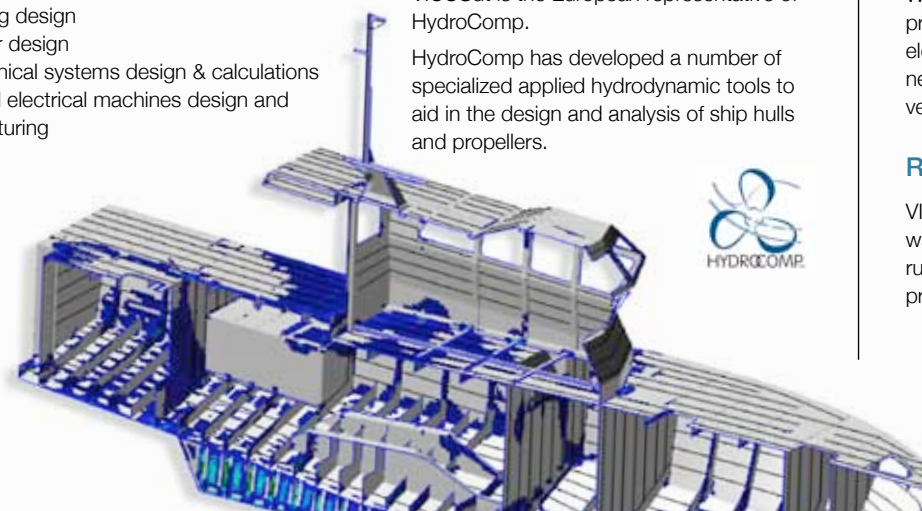
- FEM calculations
- Axial, whirling and vibration analysis on shafts

CFD Simulation industry

- Turbine systems optimization by CFD
- Industrial systems

Design

- Propeller design
- Shafting design
- Rudder design
- Mechanical systems design & calculations
- Special electrical machines design and manufacturing



Products

Torquemeters

Continuous torque and power data from a rotating shaft.

Designed for applications that require ongoing measurement of torque and/or horsepower on existing shafting up to 1m in diameter



HydroComp

VICUSdt is the European representative of HydroComp.

HydroComp has developed a number of specialized applied hydrodynamic tools to aid in the design and analysis of ship hulls and propellers.



Propellers

VICUSdt offers custom designed FPP and new optimized blades for CPP. Our propellers are cast in our sister foundry up to a maximum of 10 tons in weight



Electrical machines

We are the best partner for innovation projects for developing custom rotational electrical machines. VICUSdt have designed, built and tested custom machines for very demanding conditions.

Rudders

VICUSdt has experience in the design of wake adapted rudders combining a twisted rudder with a Costa bulb, improving the propulsive efficiency of the ship.

The Doctor

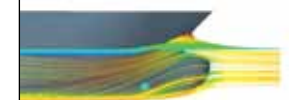
Tool for integrating automatic engine report and diagnostic by means of in-cylinder pressure analysis in diesel engines.

Shymgen

Shymgen is a variable speed generator system able to adapt a variable voltage and frequency electrical power source to a constant reference level on the ship's network allowing a more efficient performance.

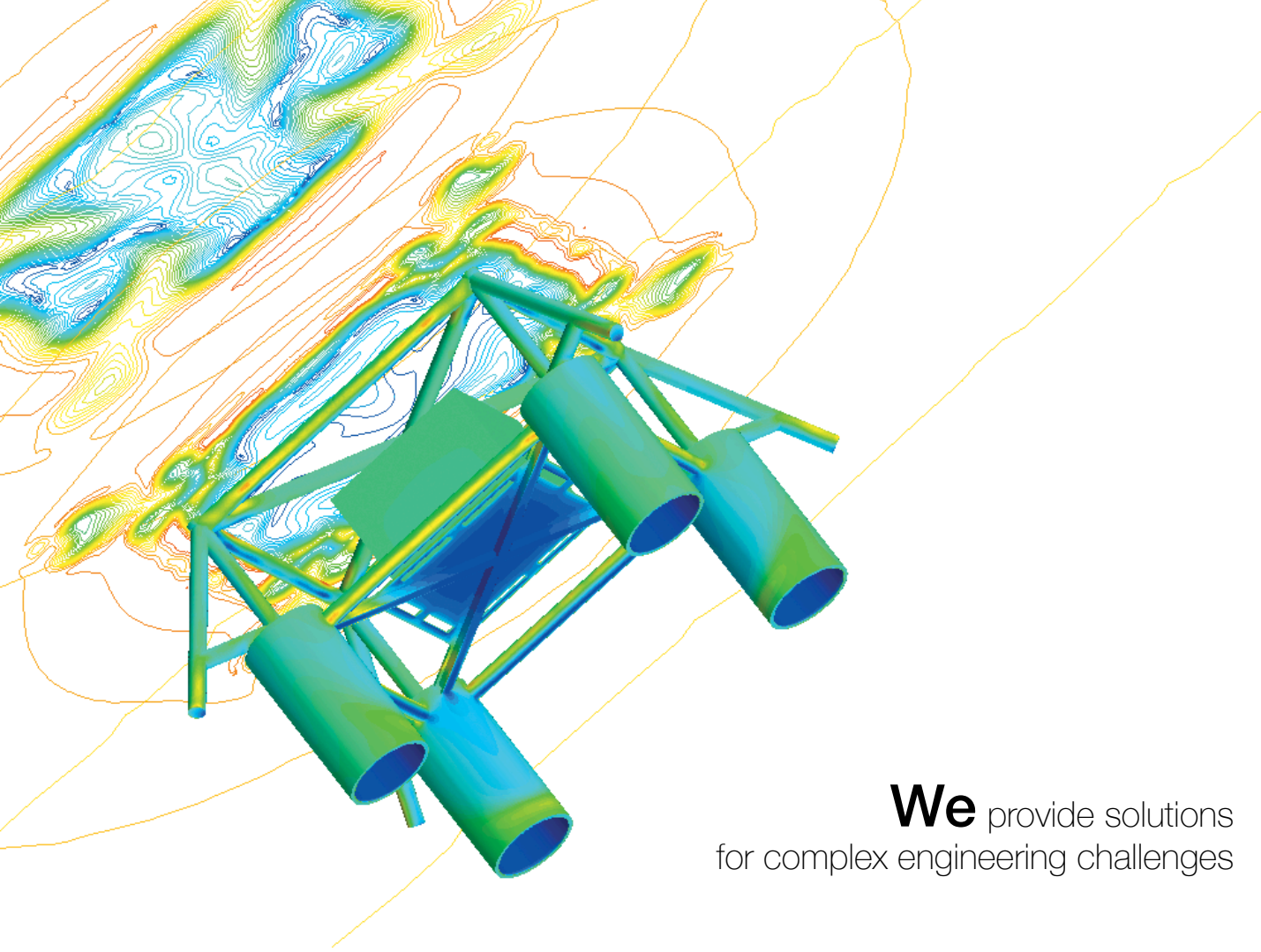
Rim drive thruster

Based on the permanent magnet technology, VICUSdt has developed direct drive tunnel thrusters suitable for silent operation on yachts, offshore or research vessels.



more information
www.vicusdt.com





We provide solutions
for complex engineering challenges



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GRUPO EMENASA

