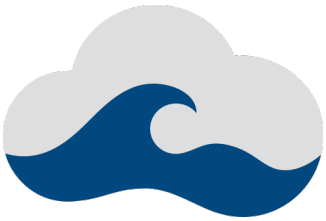

Price List

Cloud Towing Tank

We understand that the design process heavily depends on the type of ship, offshore platform or other object you are designing. This is why we prefer talking to our clients to find the most cost effective solution for your design. The price list is therefore tentative and we encourage you to contact us for additional information.

Notes:
- Meshing is included in prices for all simulations,
- We provide significant discounts for more than one simulation,
- All simulations can be carried out in model or full scale for the same price.

Ship resistance simulations

We deliver the results extremely fast: within 24 hours. Simulations are performed with our high–fidelity free surface flow RANS solver obtaining fast convergence of resistance, dynamic sinkage and trim.

400 EUR **Single simulation (for a single speed and draft)**
200 EUR **Additional simulation for the same ship (different condition)**

Self propulsion simulations – power curve prediction

In order to produce time–efficient results without sacrificing accuracy, we use the **actuator disc model** for self–propulsion simulations. The propeller/s rotation rate is controlled to achieve a force balance, predicting the necessary delivered power.

600 EUR **Single simulation (for a single speed and draft)**
300 EUR **Additional simulation for the same ship (different condition)**

✉ *info@cloudtowingtank.com*

Wave/current loads simulations

Our CFD solver ensures efficient wave propagation and prevention of wave reflection with implicit relaxation zones. We couple our CFD simulation with either **nonlinear stream function wave theory for regular waves or nonlinear Higher Order Spectrum method for irregular sea states**.

1 000 – 3 000 EUR

Note: Price depends on the complexity of the structure, wave field (regular/irregular, steepness), required duration, number of simulations, numerical uncertainty estimate...

Seakeeping simulations

In order to deliver **seakeeping results almost as fast as calm water resistance**, we use our unique strategy for 6DOF/free surface/fluid flow coupling, accelerating the convergence of our unsteady flow simulations.

1 000 – 3 500 EUR

Note: Price depends on the wave field (regular/irregular, steepness), heading (head/general oblique waves), required duration, number of simulations, numerical uncertainty estimate...

Green water simulations

For accurate estimation of green water loads, we use state–of–the art interface capturing schemes with our high–fidelity free surface flow solver with optional body motion.

1 000 – 3 500 EUR

Note: Price depends on the wave field (regular/irregular, steepness), ship/offshore platform forward speed and heading (head/general oblique waves), required duration, number of simulations, numerical uncertainty estimate...

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Manoeuvring simulations

Depending on the problem at hand, we use either Overset Mesh or Immersed Boundary Method for handling complex relative motions of appendages during manoeuvres.

1 000 – 4 000 EUR

Note: Price depends on the type of manoeuvre, sea state, number of appendages, number of simulations...

Propeller open water curve simulations

Simulations are performed with our single–phase Multiple Reference Frame (MRF) steady state RANS solver, or our unsteady RANS solver with rotating propeller.

2 000 – 5 000 EUR

Note: Price depends on the propeller geometry, range of speeds, number of simulations...

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