







## Seakeeping calculations with FineMarine using Transient Technique

Conventional seakeeping process is costly in computational time, even with supercomputers. Fortunately, Transient Wave Package (TWP) simplifies to reduce simulation time, using the Gaussian wave packages model recommended by Clauss and Bergmann in 1986. This project uses FineMarine (CFD software) to evaluate simulation with TWP of an 80 meters patrol boat in beam and head seas. Overall, the method is splendidly suited for ships on Head Seas, with values close to experimental. However, using TWP in beam seas requires a longer simulation time until its movements stabilize, even with low wave steepness wave excitation.

