



STAIMO

Freeware for analysis & reporting of speed/power trials

Speed/power trials are normally conducted upon delivery by the yard to verify the ship performance against the contract requirements. As such trials are normally conducted under conditions deviating from the contract reference conditions, the analysis of speed trial measurements comprises correction procedures. In the Sea Trial Analysis Joint Industry Project (STA-JIP) transparent and reliable procedures have been developed for conducting and analysing speed-power trials. The STA-JIP, with a total of 37 members ranging from leading ship owners, major shipyards and class societies, developed the STA-standard: an accurate and transparent industry standard for speed/power trials. In 2012 the International Towing Tank Conference (ITTC) adopted the STA-standard. The International Maritime Organization (IMO) declares the ITTC standard as the preferable standard for the determination of ship speed for the Energy Efficiency Design Index (EEDI).

To analyse speed trials according to this ITTC standard, freeware software has been developed, called STAIMO.



Download

STAIMO can be downloaded for free at www.staimo.org. Here also the ITTC guidelines for the conduct and analysis of speed/power trials can be found.

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Application

STAIMO is a gift from the STA-JIP to facilitate speed/power trial analyses using state-of-the-art correction methods and fully detailed and transparent reporting for everyone. STAIMO analysis, corrects and reports the results of the speed/power trials according to the ITTC standard.

Input required for the analysis

- Ship & propeller particulars
- Contract conditions (speed, RPM, power, weather, sea margin)
- Model test results
- Measured trial data

Output

A transparent and detailed report which contains:

- Input overview
- Corrections per run
- Comparison with model test results
- Speed-power-RPM diagrams at various loading conditions
- Speed at contract power
- Speed for EEDI calculation