GREEN/ProSTAv1.0 ISO
Software for Progressive Speed Trial Analysis

Key Features
◆ Speed-Power performance analysis of progressive speed trial in compliance with ISO 15016:2015
◆ User-friendly interface
◆ Transparent and easy-to-understand output
◆ Auto-generation of output results and figures for class approval

PrimeShip-GREEN/ProSTAv1.0 ISO is a software used for the speed correction for wind, current, wave, shallow water, displacement, water temperature and water density at progressive speed trial in compliance with ISO 15016:2015

Structure of the software

Input
◇ Ship’s principal particulars
◇ Measured data on speed trial
◇ Weather conditions
◇ Self-propulsion factors, etc

Analysis steps
◇ Correction for resistance increased by wind, waves, water temperature and water density
◇ Correction for current
◇ Correction for displacement
◇ Correction for shallow water

Output
◇ Calculation details
◇ Current curve
◇ Speed-rpm curve
◇ Speed-power curve
Estimation of the reference ship speed (Vref)

- The reference ship speed (Vref) required for EEDI calculation can be estimated on the basis of analysis results.
- Vref is the ship speed in EEDI loaded condition*2 at 75% MCR assuming calm weather with no wind and no waves.
- For ships for which sea trial cannot be conducted under EEDI loaded condition, Vref is estimated by the following procedure:
  1. Power curves under EEDI loaded condition and sea trial condition should be determined by conducting tank tests.
  2. Vref should be adjusted taking into account the speed trial results.

PrimeShip-GREEN/ProSTA system requirements

<table>
<thead>
<tr>
<th>Hardware requirement</th>
<th>Software requirements</th>
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<tbody>
<tr>
<td>Print function of Microsoft Windows</td>
<td>• Windows 7 SP1 and above</td>
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<tr>
<td></td>
<td>• .NET Framework 4.5.2 and above</td>
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