MEC-E1004 Principles of Naval Architecture

Hydrostatics and Resistance calculations (Delftship)



Calculating hydrostatics on Delftship



By this stage you should have your hull surface ready whether on Delftship or imported from somewhere else.

Tips before going to calculations



Make sure you have set the right dimensions in project settings

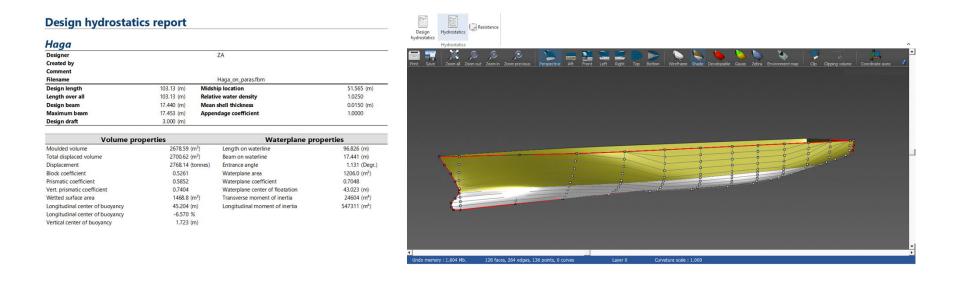


Resistance analysis on Delftship is limited and you should check whether the built-in methods are compatible with your hull.



Design Hydrostatics

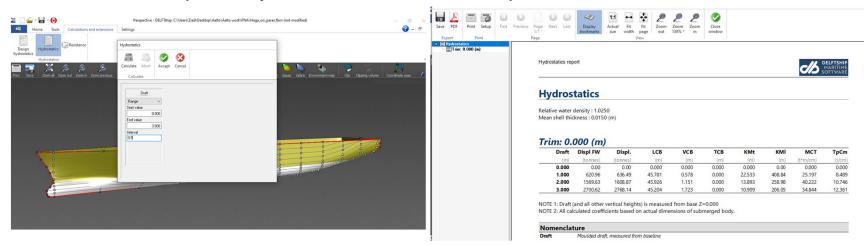
• Calculate you hull's hydrostatic at the design draft. Once you click on Design hydrostatics, a report will be printed





Hydrostatics

• Calculate hydrostatics at various drafts using Hydrostatics button. Set start value, end value and intervals. Click on



calculate and then a report with hydrostatics at various drafts will be printed.



Resistance analysis

- Within Delfship Resistance is analyzed with only two methods, Delft series and John Winters (KAPER). You should check if your model is compatible with their criteria. Another method is the Holtrop and Mennen method (in Tutorial 8 you will be provided an *.xls for this).
- Click on Resistance button. Set the speed range and then it will show you a resistance/power curve. You can print a report with tabular values.

