

GB61 HYDROSTATICS

Date: 9/10/2010 UPRIGHT HYDR Time: 11:17 AM
Version: RhinoMarine 3.5.2
Project: GB61 Hydrostatics
Description:
Part Name: N/A
Model File: D:\Work\Work\GB60\GB60_STR_V3.3dm
Excel File: C:\Program Files\Proteus Engineering\RhinoMarine\default.xls
Dimensions: meters, meters^2, meters^3, kilograms, deg, Positive Z is up
Mirrored Image: Parts have NOT been mirrored
Trimming State: N/A
Fluid Density: 1025.9 kilograms/meters^3
Refinement: N/A
Partname Mesh Density Offset

NOTES

- Dimensions are given relative to coordinate system origin, except for M Trans and M Long which are given relative to the resultant waterplane.
- Accuracy of calculations is affected by the density of points in the surface mesh.
- All coefficients are based on LWL and maximum draft above.
- The accuracy of the sectional area curve, maximum section area and location, and prismatic and midship section coefficients are affected by the surface mesh density, and the number and location of defined stations. In addition, for trimmed waterplanes the sections are no longer exactly perpendicular to the waterplane, also affecting accuracy.
- The displacement length ratio is defined as the computed vessel displacement in long tons divided by the cube of one-hundredth of the waterline length in feet.
- The moment to change trim is computed with the assumption that the center of gravity is at the flotation plane.

X	Y	Z	C	Weight	LCG	TCG	VCG	LOA	LWL	BOA	BWL	Depth	Freeboard	Displ	Volume	LCB/LWL	LCB	TCB	VCB	A0	XA0	WetSurf	Wetted Centroid (X)	Wetted Centroid (Y)	Wetted Centroid (Z)	D-L Ratio	
0	0	1	-0.2	38745.44186	-8.25230987	-0.001318285	0	18.0852278	15.93661577	5.633791748	5.133390845	3.751467407	2.801144531	0.950322876	37.76726958	38745.44186	0.464823497	-8.625230987	-0.001318285	-0.552245708	3.637364153	-9.584712364	73.33712846	-8.861917867	-0.000240011	-0.750014549	266.786225

Area WP	LCF	LCF/LWL	TCF	VCf	Mtrans	Mlong	BMtrans	BMlong	WtImmerse	MomToTrim	Neutral Axis	MetaShellSlope	MetaShellIntercept	Cb	Cm	Cwp	Cp	Cpft	Cpfdw	RtArm	RtMom	GMLt	GML	RM@1Deg	Heel	Trim	
64.74805153	-9.048192216	0.438283281	0.000198955	-0.2	2.677449313	26.09055602	3.029695021	26.44280173	664.2502607	634.3191902	-0.015542417	-0.245837618	0.341246332	0.485784855	0.745609215	0.791455078	0.651527428	0.637616985	0.679595585	0	0	0	0	0	0	0	0

Light ship
 MOC
 50% Load
 Full load