

# PROPELLER SIZING SHEET

SIZING ANALYSIS FOR: \_\_\_\_\_ TEL: \_\_\_\_\_

EMAIL/FAX: \_\_\_\_\_

**INSTRUCTIONS:**

Enter the information below as completely as possible. All calculations will be based on this data, so this should reflect the principal operating condition of the vessel. If possible, attach a sketch or photograph of the vessel. **PLEASE NOTE THAT AT THE BARE MINIMUM, WE WILL NEED ALL THE INFORMATION MARKED WITH AN ASTERIK.**

\*Vessel Make \_\_\_\_\_ \*Vessel Type \_\_\_\_\_

\*Hull Type  Planning Powerboat  Displacement Powerboat  Semi-displacement  
 Sailboat\*Length \_\_\_\_\_  Overall  Waterline \*Weight \_\_\_\_\_  Light  Operational

\*Number of Propellers \_\_\_\_\_

**STERN GEOMETRY**

\*Distance of Prop Centerline to Hull \_\_\_\_\_ (THIS TELLS US YOUR MAXIMUM PROP DIAMETER)

**ENGINE AND GEAR DATA**

Engine Model \_\_\_\_\_ \*Rated Horsepower \_\_\_\_\_ \*At What rated RPM \_\_\_\_\_

Fuel Type:  Gasoline  Diesel  Turbo

\*Gear Reduction Ratio \_\_\_\_\_ :1 Gear Model \_\_\_\_\_

**PRIOR PERFORMANCE**

Information about prior trial performance of the vessel will greatly improve the accuracy and reliability of the analysis. Define this data as accurately as possible – **DO NOT GUESS**. This data should be for typical operation at the vessel condition described above.

**TRIAL DATA**

Location of Trial \_\_\_\_\_  
 Trial Speed \_\_\_\_\_ Based on  GPS  Loran  Other  
 Trial Speed Engine RPM \_\_\_\_\_  
 Was Boat  Heavy  Light  Normal

Engine Model \_\_\_\_\_  
 Rated Horsepower \_\_\_\_\_  
 @ Rated RPM \_\_\_\_\_  
 Gear Ratio \_\_\_\_\_

**TRIAL PROPELLER DATA**

Diameter \_\_\_\_\_ Pitch \_\_\_\_\_ Cup \_\_\_\_\_ Number of Blades \_\_\_\_\_  
 Material  Mg Bronze  Nibral  Other

Although we use the most comprehensive, technically advanced propulsion analysis and modeling program available in the industry today, propeller size determination remains a complex science. We make every effort to provide as accurate a sizing as possible. The quality of the analysis is correlated directly to the quality of the information provided on the sheet. We offer this analysis as a service based on the accuracy of this data and as such, make no promises or guarantee of speed or performance.