



Designer and Manufacturer of High Output Propulsion Systems

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Konrad Marine Analysis Form

Konrad Marine Inc. does not guarantee the performance of any vessel. Operators should rely on certified naval architects for speed calculations.

Instructions: Enter the information as completely as possible. Fax back to Konrad Marine.

Date: _____ Telephone: _____
Name: _____ Fax: _____
Company: _____ E-mail: _____
Address: _____

I. Goals & Objectives

A. Objectives:

- New Build
 Repower/Reprop

B. Primary Goal:

- Top speed
 Towpull (thrust)
 Trolling Speed
 Improved RPM
 Less cavitation, noise or vibration

C. Tasks:

- Recommend a gear ratio
 Recommend a propeller

D. Vessel Name: _____

E. Describe symptoms and additional information (i.e. hrs/yr anticipated, distance traveled, purpose):

II. Principal Vessel Condition

All calculations will be based on this data, so this should reflect the principal operating condition of the vessel. If possible, attach a sketch, photograph or print of the vessel.

A. Vessel Make: _____

B. Hull type:

- Displacement
- Semi-displacement
- Planing

Hull Material:

- Barge
- Catamaran
- Other:

C. Dimensions

1. Length:

a. overall: _____ b. at waterline: _____

Note: Please ensure the Gross Weight specified is the actual loaded working weight the vessel will operate at. This is important to ensure the correct sternleg model, ratio and prop size is determined. Konrad Marine or the distributor cannot be held responsible for performance issues as a result of inaccurate information.

2. Weight (specify units):

a: operational (full fuel): _____ b: gross: _____

3. Beam: _____

4. Deadrise at stern: _____

5. Draft: _____

6. Number of propellers: _____

D. Service:

- Passenger/Pleasure
- Work/Commercial
- Towing
- Bollard Pull
- Offshore (near coastal)
- Inland Bays/Lakes

III. Engine Room Geometry

A. Distance from transom to engine room bulkhead: (FWD): _____ (AFT): _____

B. Transom Angle: _____

C. Distance from engine centerline to vessel centerline (keel)

(Twin application only): _____

D. Distance from engine flywheel to transom: _____

IV. Proposed Engine/Gear

A. Engine Model: _____

B. Rated Power: _____

C. Rated RPM: _____

D. Transmission:

1. Model: _____

2. Ratio: _____

V. Prior Performance

Note: Information about prior trial performance of the vessel (or one exactly like it) will 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.

A. Location of trial: _____

1. Trial speed (kts): _____

Radar GPS Loran

2. Was current and wind speed and headings accounted for? _____

B. Previous Engine and Propulsion System Characteristics:

1. Model: _____ 4. Engine RPM at trial speed: _____

2. Rated Power: _____ 5. Propulsion system: _____

3. Rated RPM: _____ 6. Transmission or drive ratio: _____

C. Propeller Characteristics:

1. Diameter: _____ 4. Pitch: _____

2. Number of blades: _____ 5. Cup type (if any): _____

3. Material:

Mn Bronze Stainless

Ni Br Al Other

I certify that the information I have supplied above is a true and correct representation of the vessel.

Name

Signature

Date