

DATE: / /
JOB #:

PROP CALC FORM

Customer: Owner:
Email: Phone:
Make / model: Vessel name:

*To calculate a size to quote there is no charge. If you would like a copy of the report/ results then there is a fee of \$93 + gst.
this is fully refundable upon the purchase of a new propeller or adjustment work to your existing propeller (within 3 months of report)*

HULL SPECS

Please include photos of the hull (side on, bow on, stern on) out of the water in your email to us.

Mono-hull: ☐ Planing: ☐ Round: ☐ Pleasure craft: ☐ Tunnels: YES / NO
Catamaran: ☐ Displacement: ☐ Chine: ☐ Commercial: ☐ Keel: YES / NO
Tri-hull: ☐ Foiling: ☐ Multi-chine: ☐ Military: ☐
LOA: ft Beam (WL max): ft Weight (heavy): T Draft (hull section): ft
LWL: ft Shaft angle: ° Deadrise (at transom): ° Draft (max): ft

Hull resistance data:

What is the vessel predominantly being used for? E.g. pleasurecraft/ cruiser, ferry, crayfishing, game fishing, trawler etc:

ENGINE & GEARBOX DATA

Please include a copy of the engine spec sheet / power curve if you have it.

Engine make & model: Single: ☐ Twin: ☐ Triple: ☐ Quad: ☐
MAX power rating: hp / kW @ RPM Continuous rating: hp / kW @ RPM
Gearbox make & model: Reduction ratio: : 1
Inline: ☐ Down angle: ☐ Drop centre: ☐ V-Drive integral: ☐ V-Drive Island mount: ☐ V-Drive Quill: ☐

SEA TRIAL DATA

PRT (or single)

STB

	Knots		RPM	% LOAD	RPM	% LOAD	vibration	Black smoke
Cruise :		@					YES / NO	YES / NO
Wide open throttle:		@					YES / NO	YES / NO

Engine & gearbox data at trial (if different to above): hp / kW @ RPM / : 1 (reduction ratio)

Notes:

Vessel condition at time of trial: Light: ☐ Medium: ☐ Heavy: ☐

Sea trials should be conducted in calm conditions at a heavy displacement. Take an average of 2x runs in opposite directions to negate the effects of wind and tide.

EXISTING PROP DATA

If you do not know the sizing accurately then leave this section blank.

Diameter: Pitch: # of blades: Rotation: Blade area:
Hub length: FWD end Hub dia:

A = **Tip clearance to hull**

If the propeller is not fitted then measure the distance from the centre of the shaft taper to the hull (square off the shaft line).

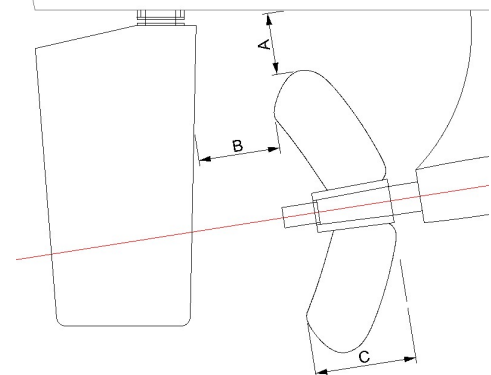
B = **Tip clearance to rudder**

Rotate the propeller until 1 blade is inline with the rudder then measure the closest point.

C = **Tip height**

Over all height from fwd end hub to aft most point of blade tips. Can be done by sitting the prop on a flat surface then using a square to measure the highest point of the tip.

Propeller pitch should be measured on HENLEYS Prop Scan machine.



EXISTING SHAFT DATA

There is a fee of \$50 + gst for a shaft diameter calculation. (refundable upon the purchase of a shaft within 3 months).

Material grade: If grade is unknown then is the shaft magnetic: YES / NO
Shaft diameter: Taper angle: : Taper length:

What are your expectations/ requirements of a new propeller(s)?: