



HENLEYS PROPELLERS & MARINE LTD

SERVICING THE MARINE INDUSTRY SINCE 1917

110 Sunnybrae Road, North Shore City 0629, NZ
 PO Box 36031, Northcote 0748 Auckland, New Zealand
 WEB: www.henleyspropellers.com

EMAIL: enquiries@henleyspropellers.com
 PH: 0064 09 443 5886
 FAX: 0064 09 443 5892

PROPELLER CALCULATION

PROPULSION VIABILITY SPECIFICATION SHEET

Propeller Calculation with Existing Installation

Name: _____		
Address: _____		
Address: _____		
Phone: _____	Mobile _____	Fax _____
Email: _____		
Designer: _____	Builder _____	Owner _____

PLEASE NOTE: By completing and returning this form, you agree to a **\$150.00 incl GST** service charge to be paid before "Propulsion Viability" study is supplied. This charge is fully refundable on purchase of propeller from Henleys.

BOAT DATA

Type	Power Mono Planing <input type="checkbox"/>	Power Mono Displacement <input type="checkbox"/>	Racing Yacht <input type="checkbox"/>	Cruising Yacht <input type="checkbox"/>
	Motor Sailor <input type="checkbox"/>	Power Catamaran <input type="checkbox"/>	Sailing Catamaran <input type="checkbox"/>	Power Tri Hull <input type="checkbox"/>
	Surface Drive <input type="checkbox"/>	Tunnel Hull <input type="checkbox"/>		
Hull Form	Round <input type="checkbox"/>	Chine <input type="checkbox"/>	Multi Chine <input type="checkbox"/>	
Use	Pleasure Craft <input type="checkbox"/>	Charter <input type="checkbox"/>	Ferry <input type="checkbox"/>	Trawler <input type="checkbox"/>
	Towing <input type="checkbox"/>			
Construction	G.R.P <input type="checkbox"/>	Wood <input type="checkbox"/>	Aluminum <input type="checkbox"/>	Steel <input type="checkbox"/>
	Ferro <input type="checkbox"/>			
Displacement (Tons)	Light Ship <input type="checkbox"/>	Heavy Ship <input type="checkbox"/>	Sea Trial <input type="checkbox"/>	
LOA <input type="text"/>	LWL <input type="text"/>	Beam Deck <input type="text"/>		
Beam LWL(max) <input type="text"/>	Multihull Beam LWL (max - one hull) <input type="text"/>			
Draft (Hull Section) <input type="text"/>	Draft (Max) <input type="text"/>			
	New Vessel <input type="checkbox"/>	Rebuild <input type="checkbox"/>	Repower <input type="checkbox"/>	
	Deadrise Amidships <input type="checkbox"/>	Deadrise Transom <input type="checkbox"/>		
Distance from Centerline prop boss to LWL <input type="text"/>				
LCG Fwd of Transom <input type="text"/>				
Hull Resistance Data <input type="text"/>				
Designers/Present Estimated Max Speed <input type="text"/>		knots @ displacement of <input type="text"/>		
Designers/Present Estimated Cruise Speed <input type="text"/>		knots @ displacement of <input type="text"/>		

ENGINE DATA

	Single <input type="checkbox"/>	Twin <input type="checkbox"/>	Triple <input type="checkbox"/>	Quadruple <input type="checkbox"/>
Manufacturer <input type="text"/>		Model <input type="text"/>		
Max Power/engine <input type="text"/>		at Max RPM of <input type="text"/>		
Continuous Power <input type="text"/>		at Max RPM of <input type="text"/>		
Gearbox Model <input type="text"/>		Gearbox Reduction <input type="text"/>		
Gearbox Type	Inline <input type="checkbox"/>	Drop Centre <input type="checkbox"/>	Down Angle <input type="checkbox"/>	V-Drive Integral <input type="checkbox"/>
	V-Drive Island Mount <input type="checkbox"/>	V-Drive Quill <input type="checkbox"/>		

EXISTING PROPELLER DATA

	Diameter <input type="text"/>	Pitch <input type="text"/>	No. of Blades <input type="text"/>	Blade Area <input type="text"/>
Material <input type="text"/>		Shaft Angle <input type="text"/>	Rotation <input type="text"/>	
Strut/Shaft Bracket <input type="text"/>	P Bracket <input type="checkbox"/>	I Bracket <input type="checkbox"/>	Y Bracket <input type="checkbox"/>	Keel Exit <input type="checkbox"/>
Maximum Diameter can swing with 20% (of prop dia) Tip Clearance to Hull				
Blade Option	Two <input type="checkbox"/>	Three <input type="checkbox"/>	Four <input type="checkbox"/>	Five <input type="checkbox"/>

EXISTING SHAFT DATA

	Material <input type="text"/>	Shaft Dia <input type="text"/>	Taper <input type="text"/>	1:10; 1:12; 1:16
	Keyway Width <input type="text"/>	Keyway Depth <input type="text"/>		
Approval Required	Yes/No <input type="checkbox"/>	USL <input type="checkbox"/>	Lloyds <input type="checkbox"/>	Other <input type="checkbox"/>

Caution Speed Predictions and propeller pitch are approximate only and dependent on the efficiency of the hull design
 For more accurate speed estimates, please supply hull resistance data which can be superimposed over the propeller dynamic thrust curve. Information supplied is critical to propeller size and estimated performance / engine load