

Exemple de calcul pour application Stern Drive :

Volvo Penta MPS - [Stern Drive]

File View Options Window Help

Marine Propulsion Software

Stern Drive - D4-D6 DP (200-400 hp)

Calculation Report Sheet

Speed calc.
 Prop calc.

Total power crankshaft: hp

Length over all: foot

Boat weight: ton

Speed: Kts

Propeller selection

Engine model	Propeller series	RPM Min	RPM Max	Ratio	Crankshaft power
D6-330	G-Series	3400	3600	1.76:1	330
D6-350	G-Series	3400	3600	1.69:1	350
D6-370	G-Series	3400	3600	1.63:1	370
D6-400	G-Series	3400	3600	1.59:1	400

27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

G2 G3 G4 G5 G6 G7 G8

Exemple de calcul pour application voile :

Volvo Penta MPS - [Sailing Yachts]

File View Options Window Help

Marine Propulsion Software

Sailing Yachts

Calculation Report Sheet

Speed Calculation Propeller Calculation

Vessel Data:

Boat weight: kg

Speed: Kts

Waterline length: m

Waterline beam: m

Engine Data:

No. of engines:

Power/engine: kW

Engine speed: rpm

Transmission Data:

Rev. gear ratio: :1

No. of blades:

Vessel Data Result:

Estimated speed: Kts

Volvo Penta Folding Propeller:

Prop. diameter: inch

Pitch: inch

Exemple de calcul pour application Ligne d'arbre :

Volvo Penta MPS - [Quick Inboard]

File View Options Window Help

Marine Propulsion Software

Quick Inboard

Calculation Report Sheet

Speed Calculation Propeller Calculation

Vessel Data	Engine Data	Transmission Data
Hull type: <input type="text" value="Semi Planing(Plan Hull She..."/>	No. of engines: <input type="text" value="2"/>	Rev. gear ratio: <input type="text" value="2,5"/> :1
Displacement: <input type="text" value="8000"/> kg	Power/engine: <input type="text" value="200"/> kW	Prop. diameter: <input type="text" value=""/> inch
Speed: <input type="text" value=""/> Kts	Engine speed: <input type="text" value="3500"/> rpm	No. of blades: <input type="text" value="3"/>
Waterline length: <input type="text" value="12"/> m		
Waterline beam: <input type="text" value="4,2"/> m		

Vessel Data Result	Propeller Data Result
<input checked="" type="checkbox"/>	Thrust: <input type="text" value="17,2"/> kN
Estimated speed: <input type="text" value="31,7"/> Kts	P/D ratio: <input type="text" value="1,4"/>
Wageningen B-series propeller with Volvo Penta corrections	Prop. diameter: <input type="text" value="23"/> inch
	Pitch: <input type="text" value="31,6"/> inch
	Blades: <input type="text" value="3"/>
	Blade area ratio: <input type="text" value="53"/> %
	Efficiency: <input type="text" value="71"/> %

Exemple de calcul pour définition Ligne d'arbre :

Volvo Penta MPS - [Shaft Line]

File View Options Window Help

Marine Propulsion Software

Shaft Line

Calculation Report Sheet

Material Data	Engine Data	Transmission Data
Recommended calc. factors: <input type="text" value="LD/R3"/>	Power: <input type="text" value="300"/> kW	Rev. gear ratio: <input type="text" value="3"/> :1
Calculation factor: <input type="text" value="6"/>	Engine speed: <input type="text" value="2500"/> rpm	
Materials: <input type="text" value="Medium grade stainless ste..."/>		
Modulus of elasticity: <input type="text" value="200000"/> MPa		
Tensile yield strength: <input type="text" value="600"/> MPa		
Density: <input type="text" value="7800"/> kg/m ³		

Possible Error Description	Shaft Data Result
	<input checked="" type="checkbox"/>
	Minimum diameter: <input type="text" value="64,1"/> mm
	Max. Bearing distance: <input type="text" value="3,03"/> m
	Recommended diameter: <input type="text" value="65"/> mm
	Max. Bearing distance: <input type="text" value="3,05"/> m