

# ***BETA*** MARINE

Seagoing

Saildrives

Inland Waterways

Marine Generating Sets

Spares & Support

## **Your needs . . .**



## **. . . our tailored solutions** delivering reliability and peace of mind

## **Saildrive Range**

### **Heat Exchanger Cooled Beta 14 - Beta 60**

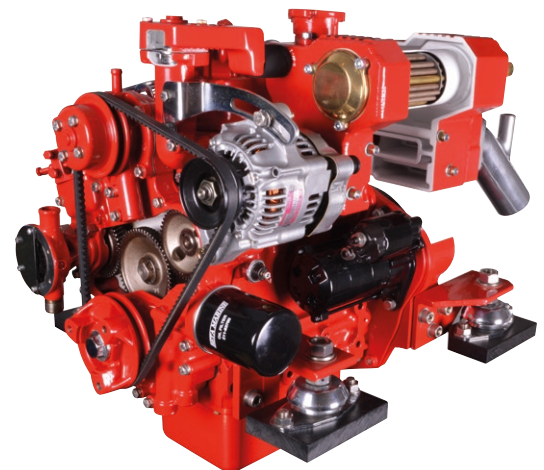
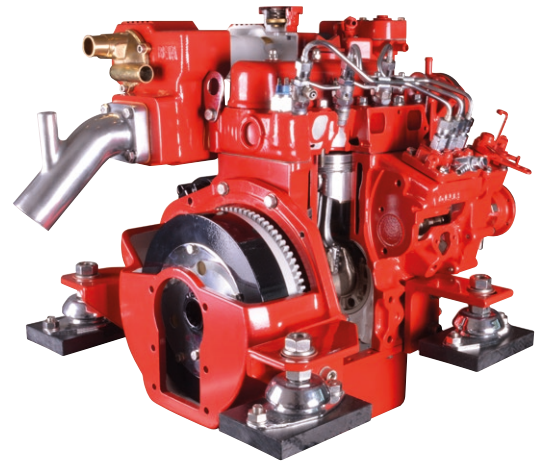


## Why Beta Marine?

### Your needs . . .

- Our company has built its renowned reputation on over 30 years of customer centred focus, listening to maritime propulsion or power needs and providing value solutions. Proving our support & product at pre-purchase, during installation be it a new build or re-power and post-purchase with the delivery of an after sales service both nationally and internationally that is second to none.
- We value our employees equally as highly as our customers, are extremely proud of the retained bank of skills, experience and loyalty that we have built and have available in place today, which enables us to excel at providing maritime solutions to fit bespoke needs.
- Our company strives to continue to build our reputation with all our customers be they end users, dealers, international distributors or boat builders and our mission is simply to capture, retain and service your valued custom throughout our products natural life cycle.
- The combined experience of our dedicated seagoing team and dealer network, supported by state of the art computer aided design we have planned, installed and re-powered thousands of vessels and sit comfortably & confidently that we can support your unique needs and exceed your expectation.

### . . . our tailored solutions delivering reliability and peace of mind



Beta Marine are an ISO Quality Assured Firm. Since 1987, we have been continually improving our Quality Procedures, whilst being monitored annually by ISO Quality Services Ltd.

Cutaway Images Are For Illustration  
Purposes & Not Necessarily Representative

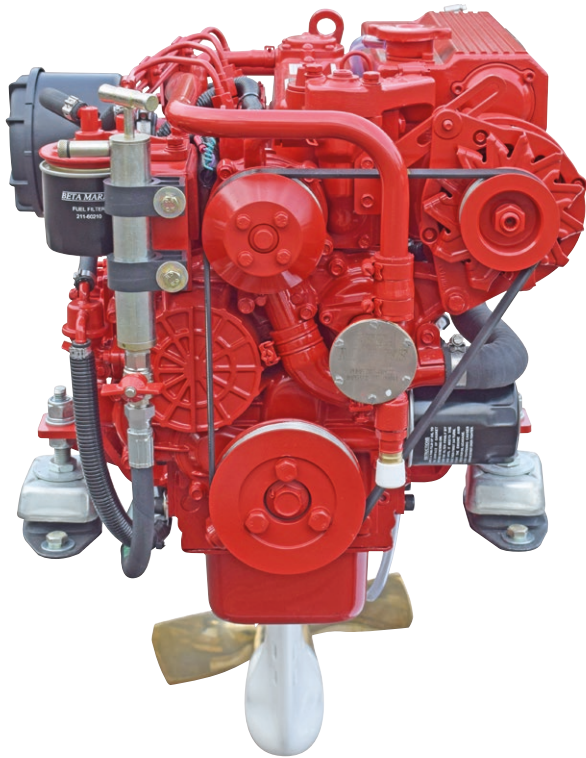


ISO  
9001

Quality  
Management  
Certification



## The Beta 14 - Beta 60 Saildrive Engine Range



- The Beta 14 - Beta 60 saildrive engine range is based upon technically advanced, high quality Kubota diesels that give you very smooth, quiet power, torque is immediate at low RPM and maximum power normally available at mid RPM. They are renowned for durability, longevity & reliability.
- Low carbon footprint, the Beta 14 - Beta 60 saildrive engine range meets all current and projected **RCD 2 (Recreational Craft Directive 2013/53/EU)** exhaust emission regulations.
- The Beta 14, 16, 20, 25, 30, 38, 43 & 50 all meet **EPA (U.S Environmental Protection Agency)** exhaust emission compliance.

### RCD & EPA Compliance



Engine	EU Compliance - 2013/53/EU	BHP @ Max. RPM	kW @ Max. RPM	EPA Compliance - 40 CFR 1042	EPA BHP @ Max. RPM	EPA kW @ Max. RPM
Beta 14	RCD 2	13.5 @ 3,600	9.9 @ 3,600	EPA Tier 3	13 @ 3,600	9.9 @ 3,600
Beta 16	RCD 2	16 @ 3,600	12.0 @ 3,600	EPA Tier 3	16 @ 3,600	12.5 @ 3,600
Beta 20	RCD 2	20 @ 3,600	14.9 @ 3,600	EPA Tier 3	20 @ 3,600	14.9 @ 3,600
Beta 25	RCD 2	25 @ 3,600	18.5 @ 3,600	EPA Tier 3	25 @ 3,600	18.5 @ 3,600
Beta 30	RCD 2	30 @ 3,600	22.1 @ 3,600	EPA Tier 3	29 @ 3,600	21.7 @ 3,600
Beta 35	RCD 2	35 @ 2,800	26.0 @ 2,800	EPA Tier 3	33 @ 2,800	24.5 @ 2,800
Beta 38	RCD 2	38 @ 3,600	28.4 @ 3,600	EPA Tier 3	36 @ 3,600	27.0 @ 3,600
Beta 45T	RCD 2	45 @ 3,000	33.5 @ 3,000	-	-	-
Beta 43	RCD 2	43 @ 2,800	32.0 @ 2,800	EPA Tier 3	44 @ 2,800	32.6 @ 2,800
Beta 50	RCD 2	48.9 @ 2,800	36.5 @ 2,800	EPA Tier 3	45.6 @ 2,800	34.0 @ 2,800
Beta 60	RCD 2	56 @ 2,700	41.8 @ 2,700	-	-	-



## Saildrive Engine Range - Specifications

2, 3 or 4 cylinders with high inertia flywheel for smooth running at low rpm.

Heater plugs for cold starting below 5°C, fuel filter, **MECHANICAL** fuel lift pump, **MECHANICAL** fuel injection pump and **MECHANICAL** engine governing ensures steadfast performance regardless of ambient conditions.

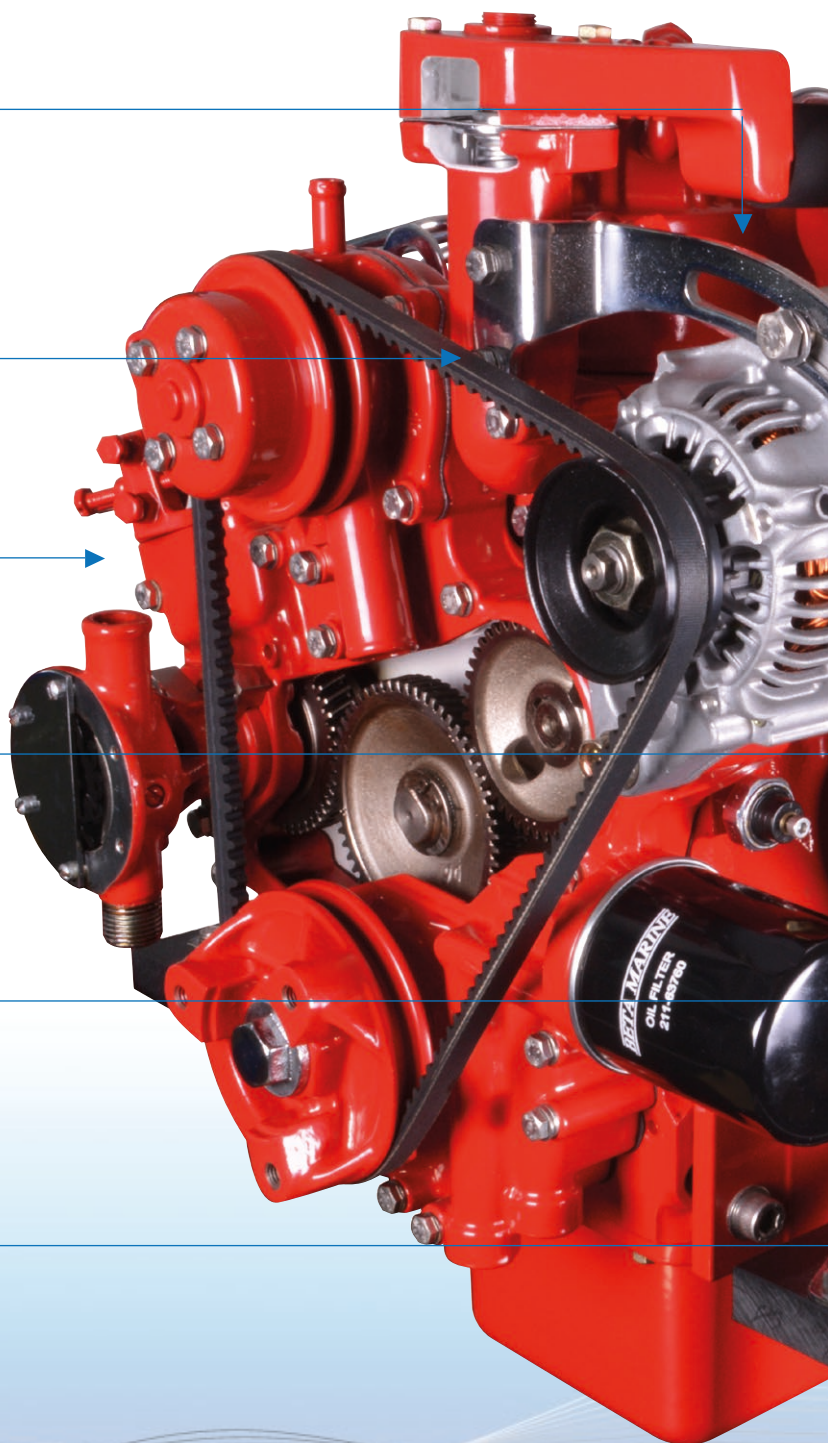
**QUIET GEAR DRIVEN CAMSHAFT** for maximum engine reliability and reduced servicing, as no timing chains or toothed belts have to be replaced.

Subject to criteria, Kubota based engines accommodate installation angles up to 15° maximum when static and 25° when heeling.

The Beta 14, 16, 20 & 25 are equipped with a standard 40 Amp alternator, the Beta 30, 38 & 45T are equipped with a standard 70 Amp alternator all are driven by a polyvee belt/pulley.

The Beta 43, 50 & 60 are equipped with a standard 70 Amp alternator, driven by an "A" section profiled belt/pulley. **OPTIONAL OR ADDITIONAL ALTERNATORS** & polyvee belt/pulley drive transmission are available.

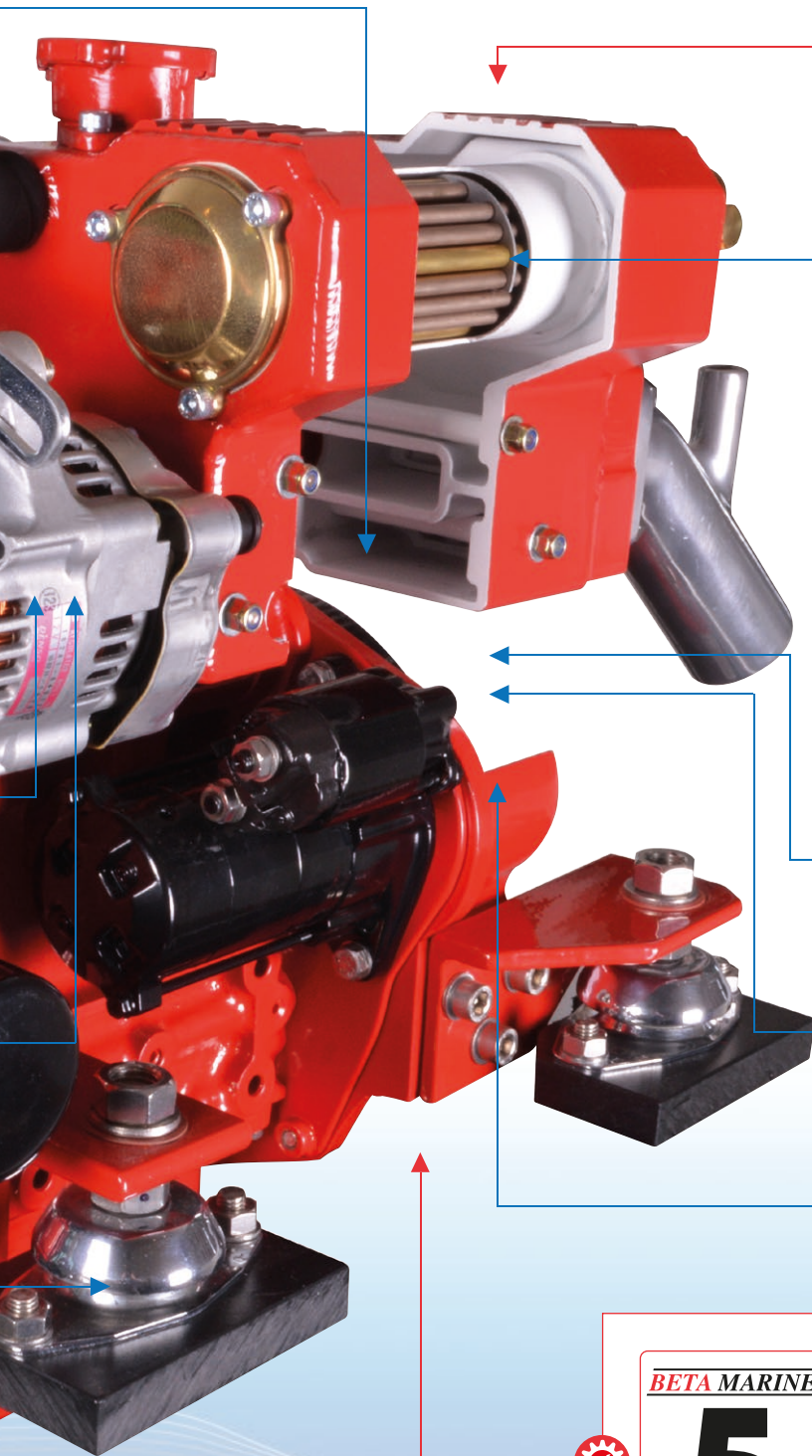
Optional special feet service, to ease planning and installation Beta Marine offer 3D computer aided modeling for the design & the manufacture of bespoke feet to allow direct installation on to your vessels existing engine bearers.



Cutaway Images Are For Illustration  
Purposes & Not Necessarily Representative



# BETA MARINE



Complete with "ABV" Control Panel & 3m of interconnection cable, "Morse" type engine speed and gearbox control brackets & end fittings. Heavy duty feet and flexible mountings.

● **HEAT EXCHANGER COOLED**, the Beta 14, 16, 20, 25, 30, 38, 43, 50 & 60 are naturally aspirated, whilst the Beta 45T is turbocharged.

● Three vortex combustion with indirect injection for quiet running, low emissions and excellent fuel consumption – Beta 14, 16, 20, 25, 30, 38, 43, 50 & 60.

● ICVS combustion with direct injection for quiet running, low emissions and excellent fuel consumption – Beta 45T.

● Output rotation is clockwise in ahead, viewed from the saildrive end.



BETA MARINE

**5**

YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Subject to installation criteria & registration, Kubota based engine's used for recreational use benefit from a **5 YEAR 'SELF-SERVICE' ENGINE WARRANTY**.



## Saildrive Solution 1: Replacement Engine and Saildrive Leg

The Beta Marine replacement engine and saildrive solution comprises of an appropriate new engine of choice fitted with a shallow sump mated to a Technodrive SeaProp 60 saildrive. Which when used in combination with our special feet option will drop into your existing Volvo or Yanmar saildrive GRP moulding.

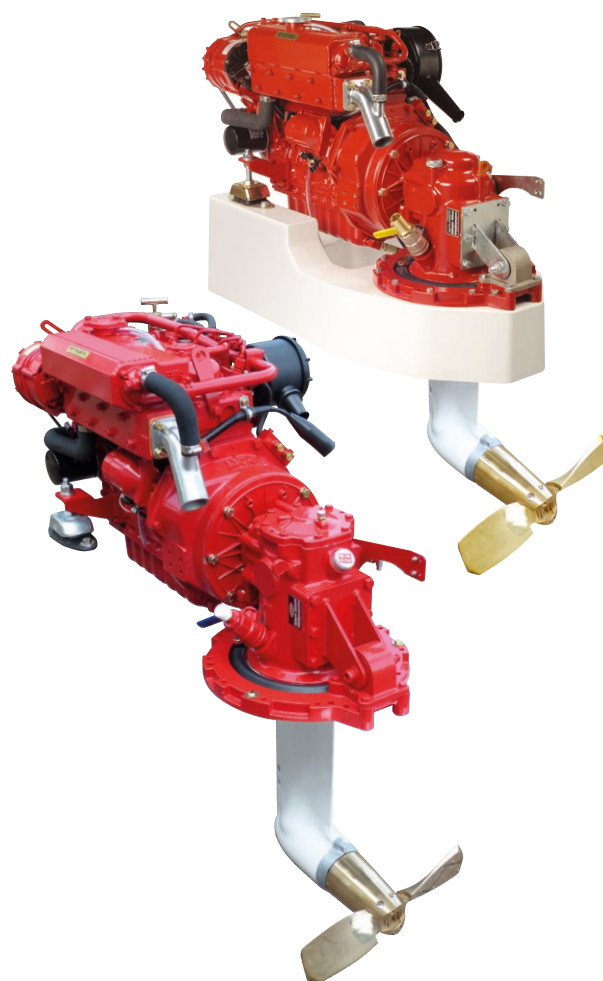
Replacing a Bukh saildrive leg will required the fitting of the Beta Marine optional GRP moulding as direct replacement to the existing mould.



Recreational use only

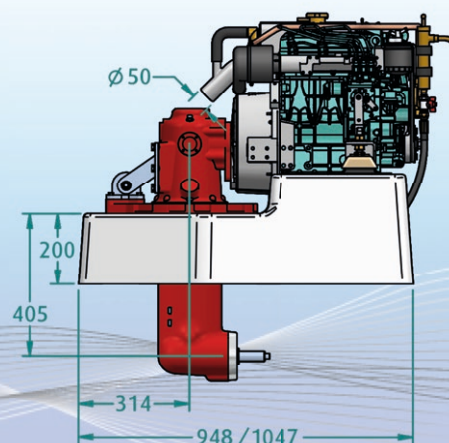


Recreational use only



## The SeaProp 60

Can accommodate a clockwise or anti-clockwise output rotation and is available in 2.15:1 or 2.38:1 reduction ratio. Additionally, should your vessels hull design require it, the saildrive leg can be turned through 180 degrees so that the engine is directly over the propeller.





## Saildrive Solution 2: Replacement Engine with adaptor for existing Saildrive Leg

Although we would always recommend replacing both engine and saildrive together, should your existing saildrive be known to be in excellent condition or has been recently fully overhauled this option facilitates a reduced replacement engine cost.

The Beta Marine engine with adaptor solution consists of an appropriate engine of choice which is fitted with a shallow sump and a housing adaptor plate which can allow it to be mounted directly to your existing; Volvo 110S, Volvo 120S, Volvo 130S, Yanmar SD20 or Bukh saildrive.

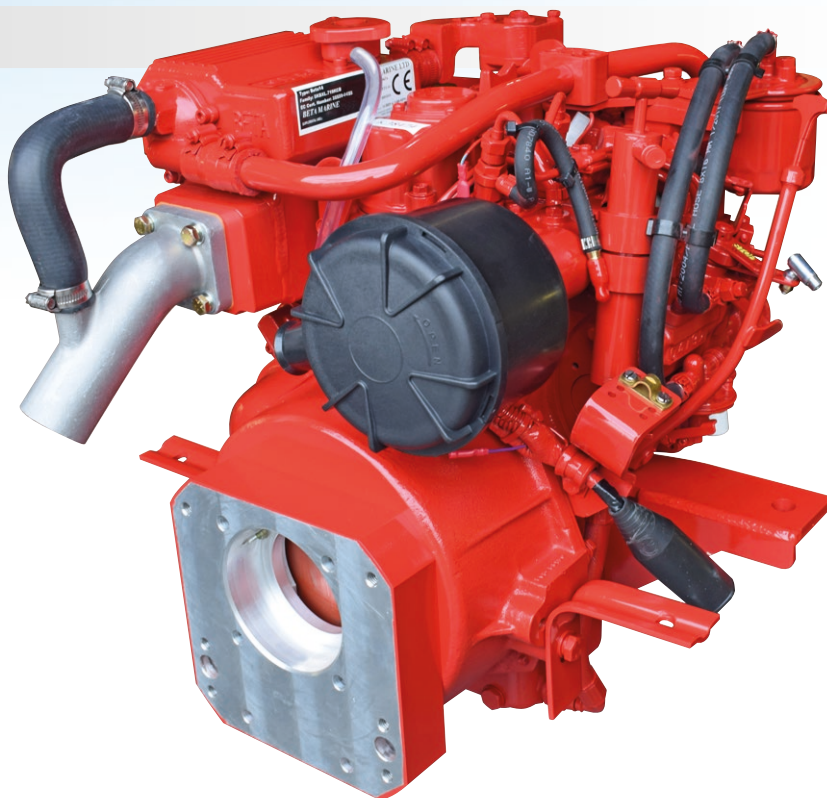


## Optional Special Feet

To ease planning and installation further Beta Marine offer 3D computer aided modelling for the design and the manufacture of bespoke feet to allow direct installation on to your vessels existing GRP moulding.



# Beta 14 SD



Beta 14 engine shown with optional Volvo 120S saildrive adaptor






**BETA MARINE**  
**5**  
YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Recreational use only

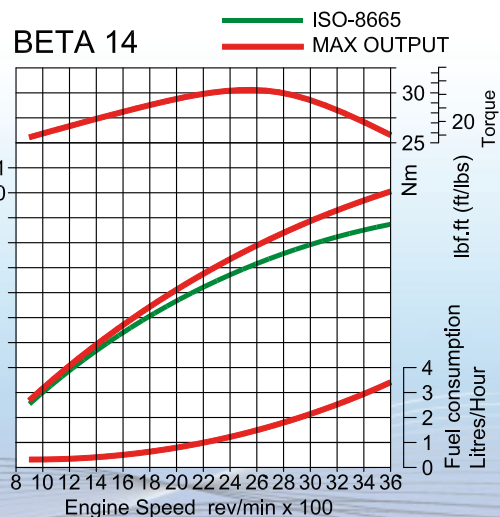
**BETA MARINE**  
**2**  
YEAR SAILDRIVE  
WARRANTY

Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>2</b>
	<b>Displacement</b>	<b>479cc</b>
	<b>Power</b>	<b>13.5hp max @ 3,600rpm</b>
	<b>Weight</b>	<b>81Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.	B Panel	Opt.
ABV Panel	Std.	BW Panel	Opt.
ABVW Panel	Opt.	C Deluxe Panel	Opt.
		CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo		Bukh	
110S Saildrive	N/A	Bukh Saildrive	Std.
120S Saildrive	Std.	Yanmar	
130S Saildrive	Std.	SD20 Saildrive	Std.



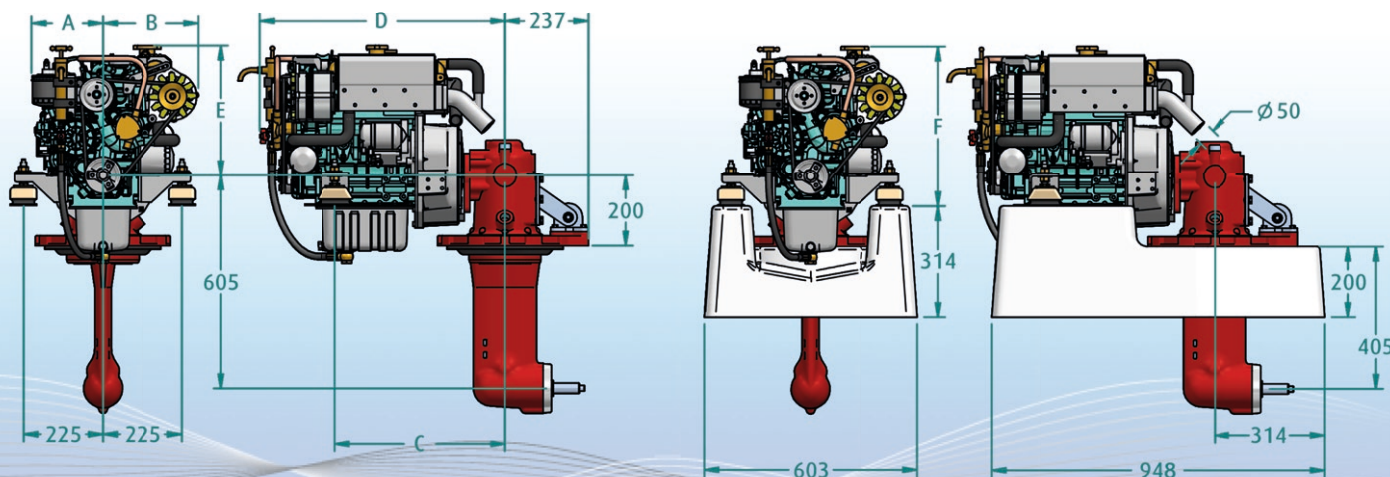
## Electrical Options

40 Amp, 12 Volt Alternator	Std.	75 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
		125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

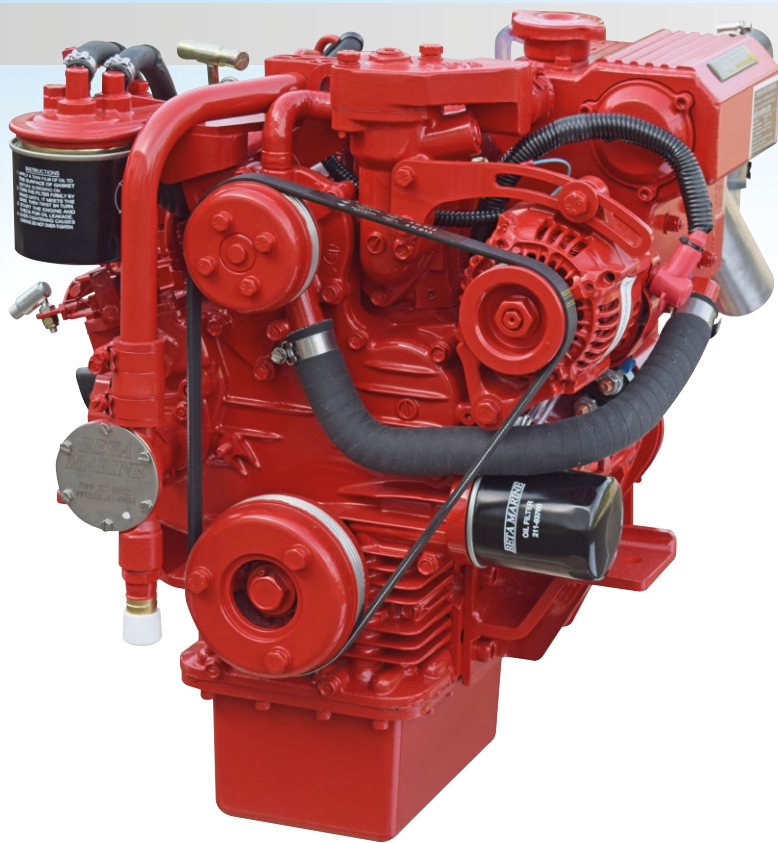
	A	B	C	D	E	F	Weight
Beta 14 SD	218	217	390	569	340	421	131Kg



These dimensions are accurate, the drawings are representative:  
visit our website for all engine / saildrive drawings or contact Beta Marine direct



# Beta 16 SD








Recreational use only

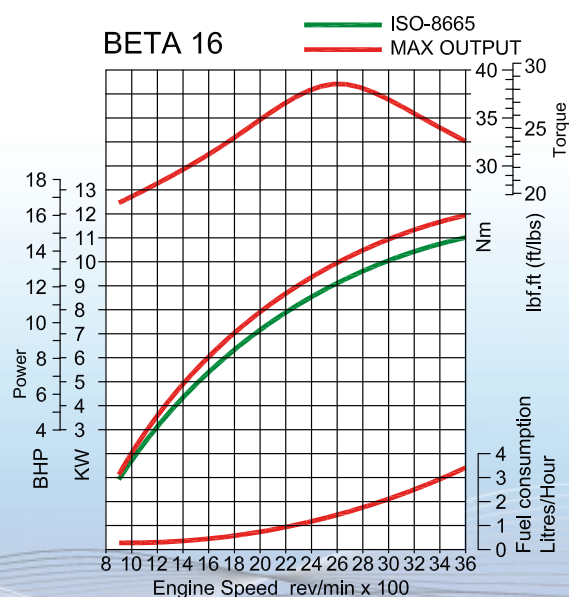


Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>2</b>
	<b>Displacement</b>	<b>599cc</b>
	<b>Power</b>	<b>16hp max @ 3,600rpm</b>
	<b>Weight</b>	<b>86Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	N/A
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	Std.
Yanmar	
SD20 Saildrive	Std.



## Electrical Options

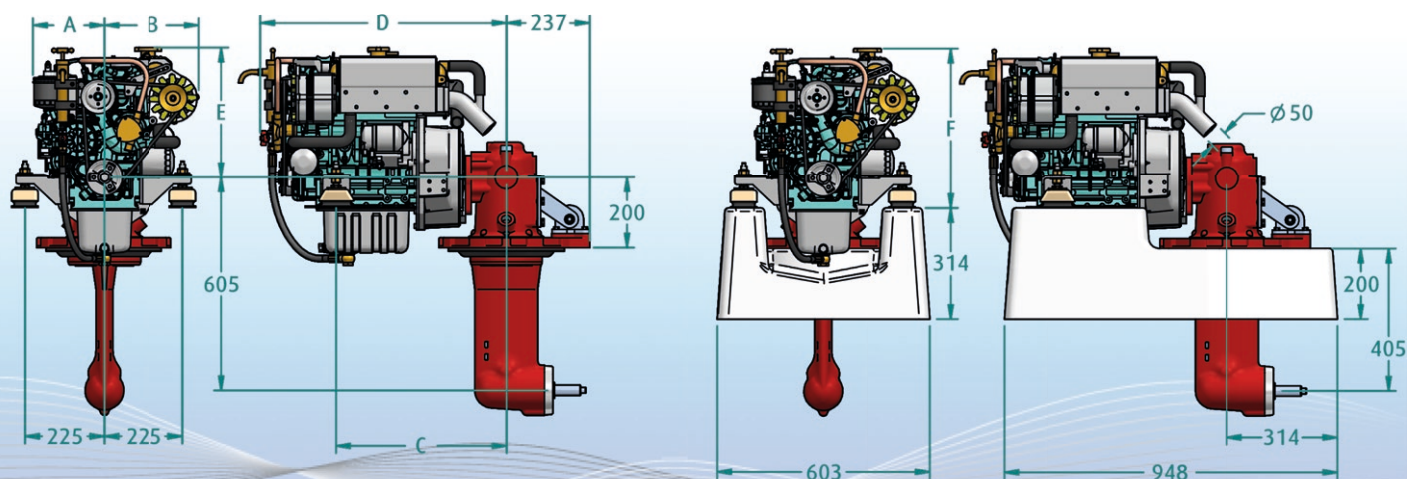
40 Amp, 12 Volt Alternator	Std.
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75 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

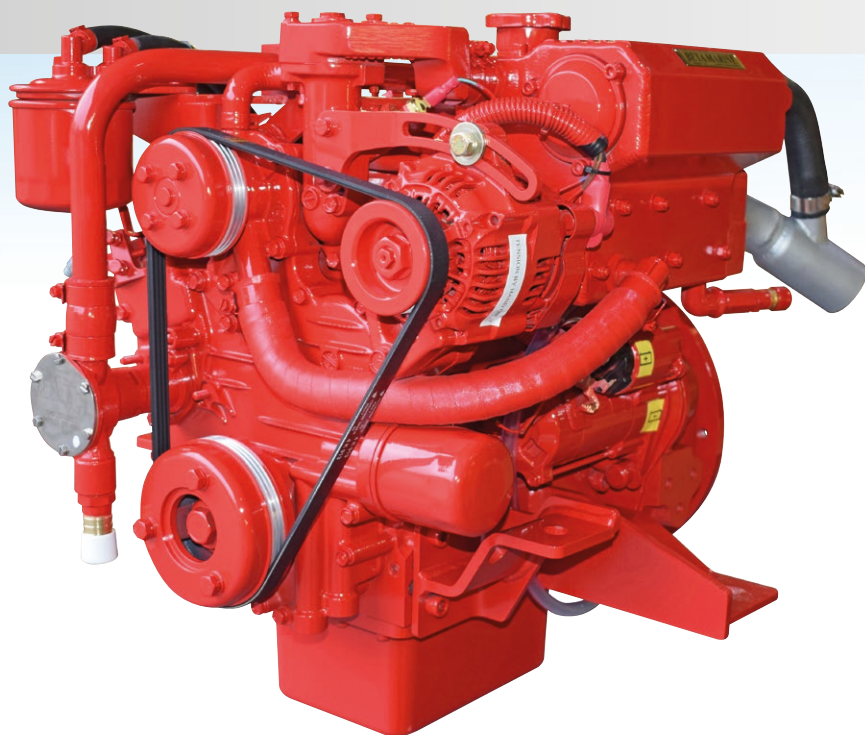
	A	B	C	D	E	F	Weight
Beta 16 SD	218	217	402	581	340	421	136Kg



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# Beta 20 SD



Engine shown with  
optional special feet








Recreational use only

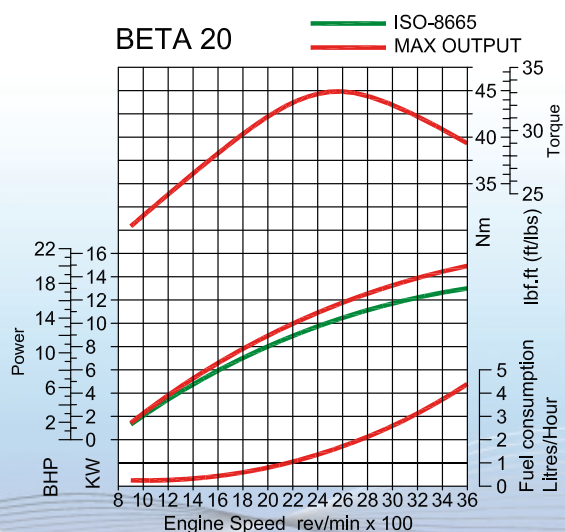


Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>3</b>
	<b>Displacement</b>	<b>719cc</b>
	<b>Power</b>	<b>20hp max @ 3,600rpm</b>
	<b>Weight</b>	<b>95Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



**Based on theoretical propeller  
loading - matched at full speed**





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	Std.
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	Std.
Yanmar	
SD20 Saildrive	Std.



## Electrical Options

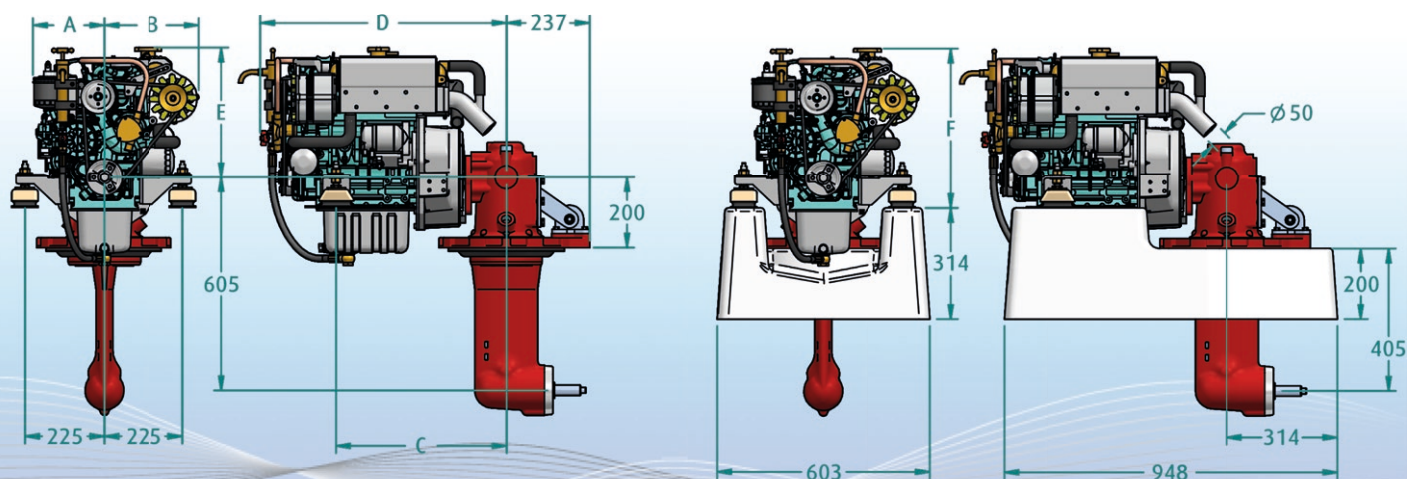
40 Amp, 12 Volt Alternator	Std.
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75 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

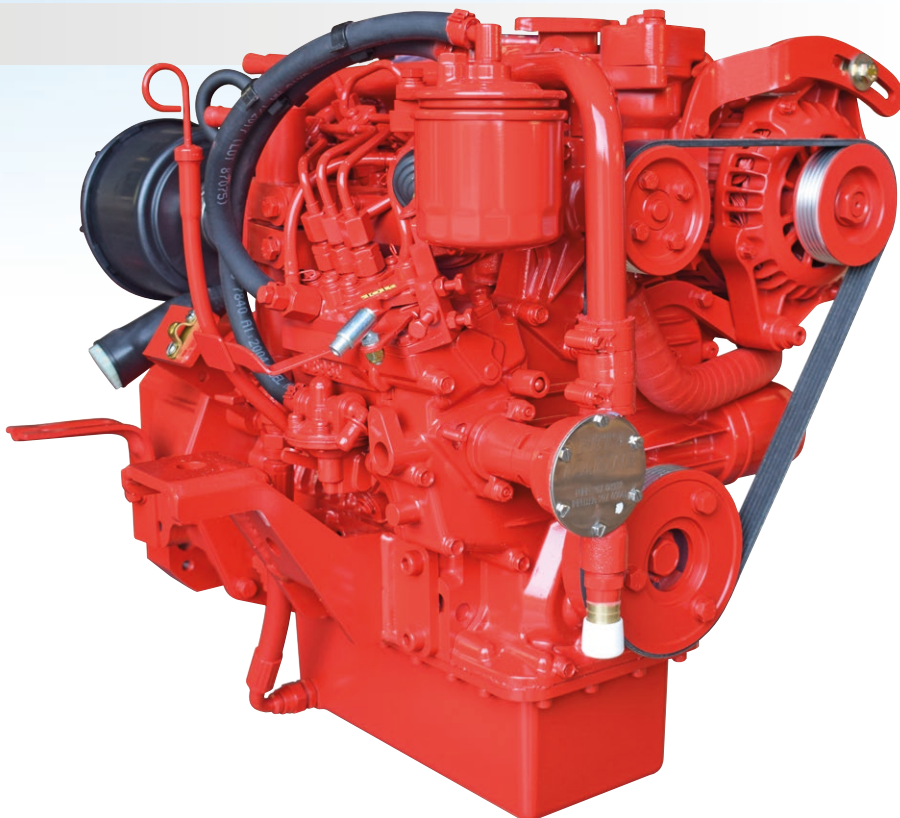
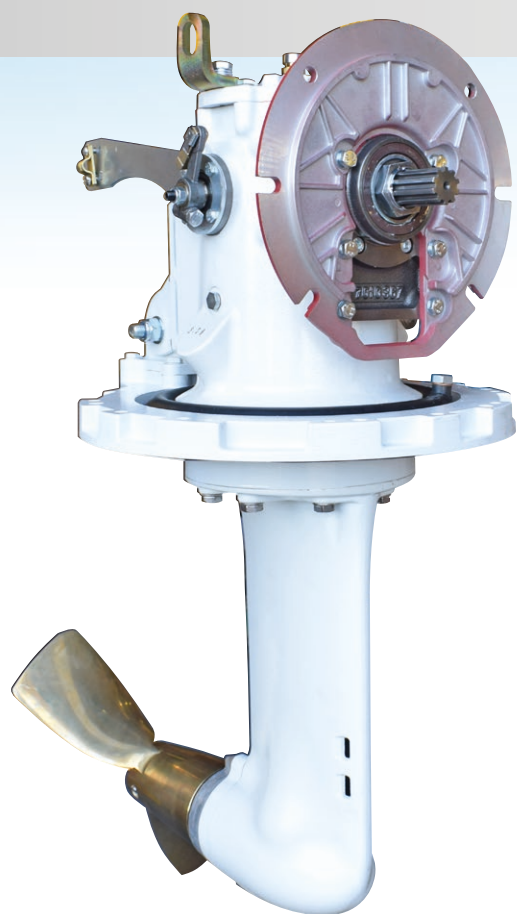
	A	B	C	D	E	F	Weight
Beta 20 SD	218	217	460	639	340	421	145Kg



These dimensions are accurate, the drawings are representative:  
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# Beta 25 SD



Engine shown with optional special feet






**BETA MARINE**  
**5**  
YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Recreational use only

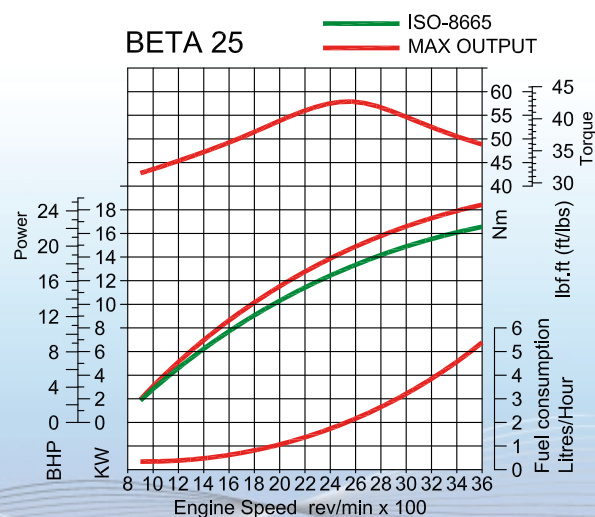
**BETA MARINE**  
**2**  
YEAR SAILDRIVE  
WARRANTY

Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>3</b>
	<b>Displacement</b>	<b>898cc</b>
	<b>Power</b>	<b>25hp max @ 3,600rpm</b>
	<b>Weight</b>	<b>104Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	Std.
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	Std.
Yanmar	
SD20 Saildrive	Std.



## Electrical Options

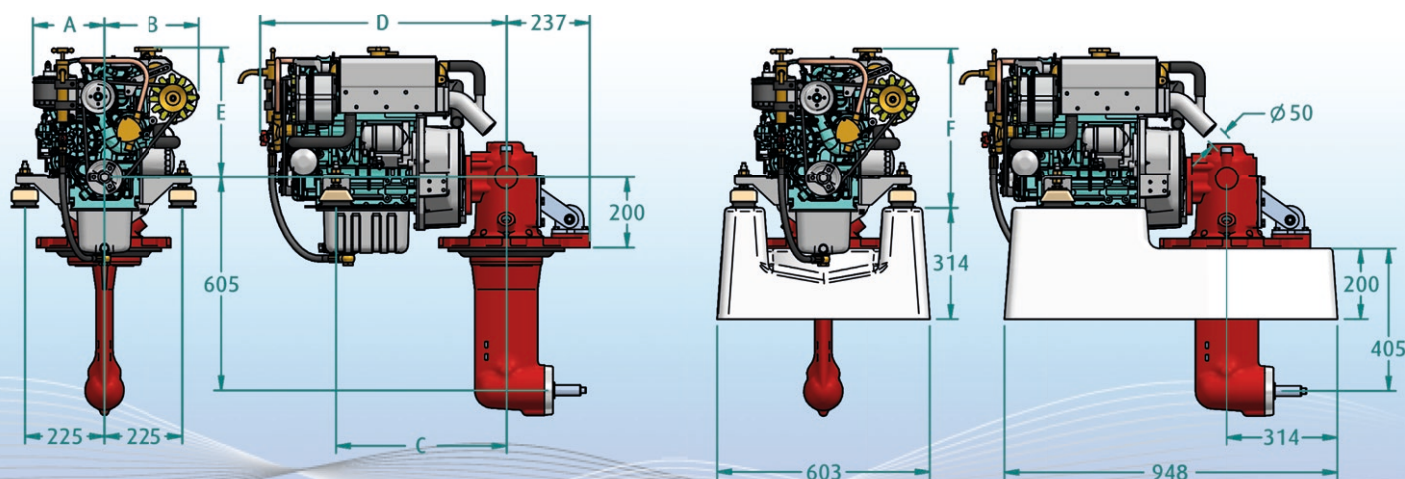
40 Amp, 12 Volt Alternator	Std.
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75 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

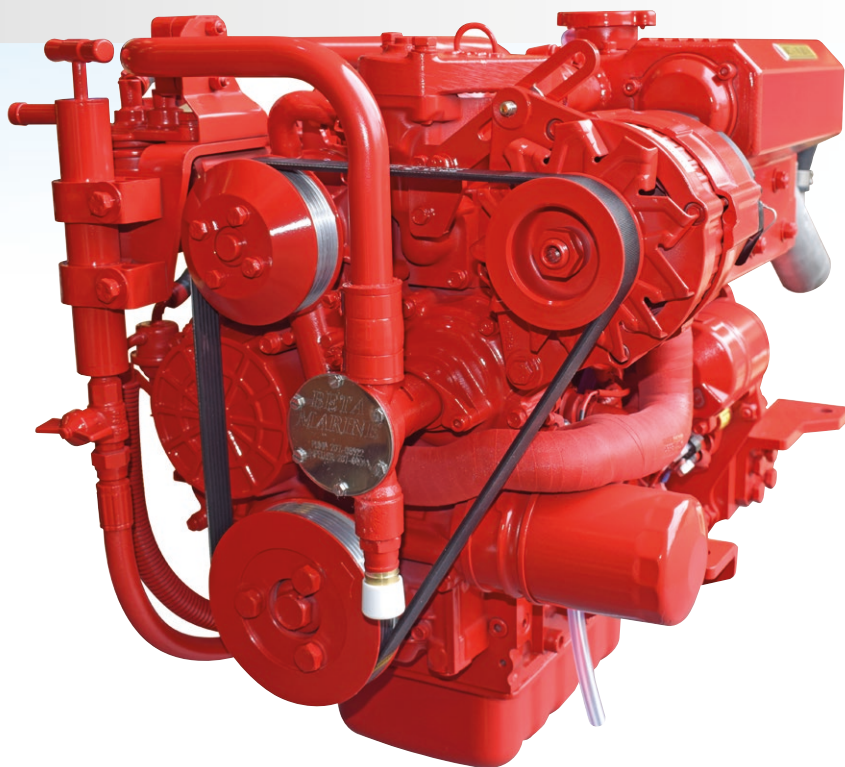
	A	B	C	D	E	F	Weight
Beta 25 SD	218	217	484	663	340	421	154Kg



These dimensions are accurate, the drawings are representative:  
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# Beta 30 SD








Recreational use only

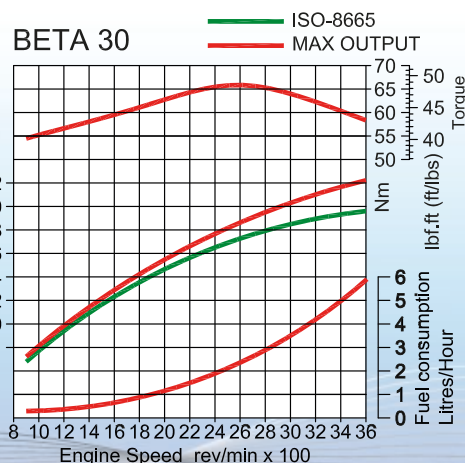


Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>3</b>
	<b>Displacement</b>	<b>1123cc</b>
	<b>Power</b>	<b>30hp max @ 3,600rpm</b>
	<b>Weight</b>	<b>130Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	Std.
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	Std.
Yanmar	
SD20 Saildrive	Std.



## Electrical Options

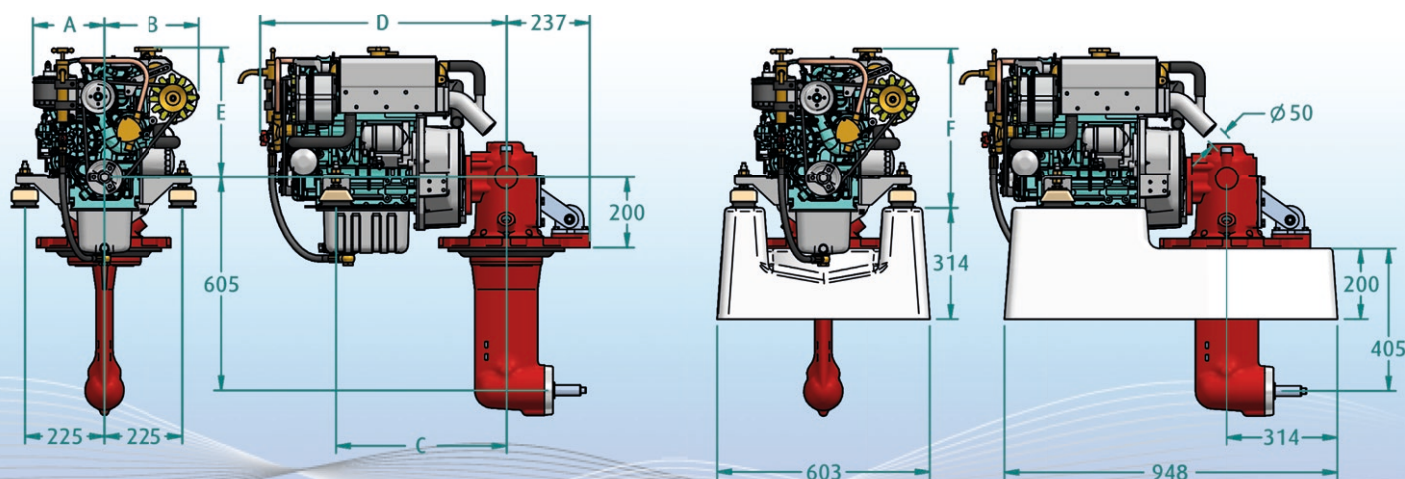
70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.

120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

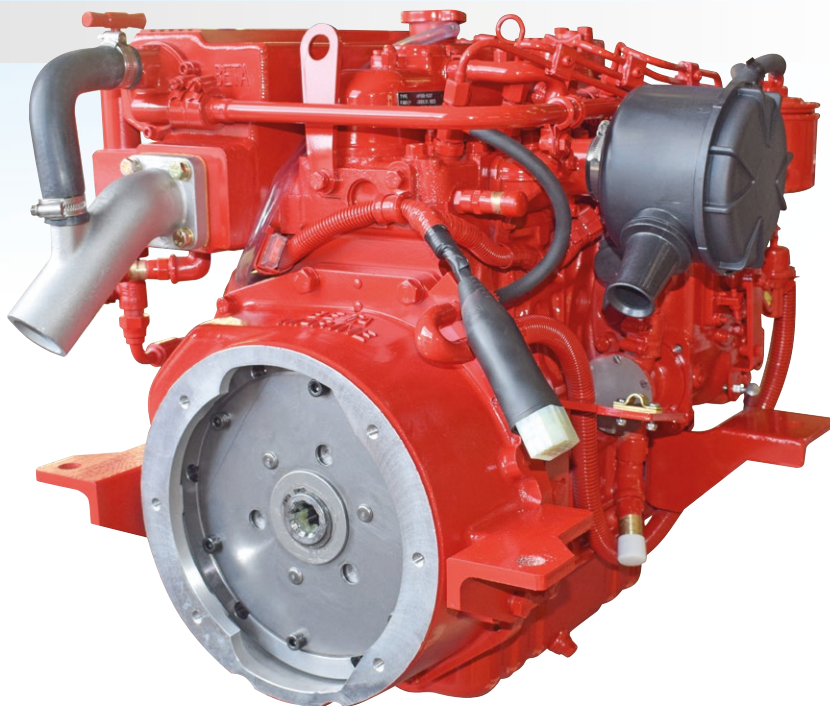
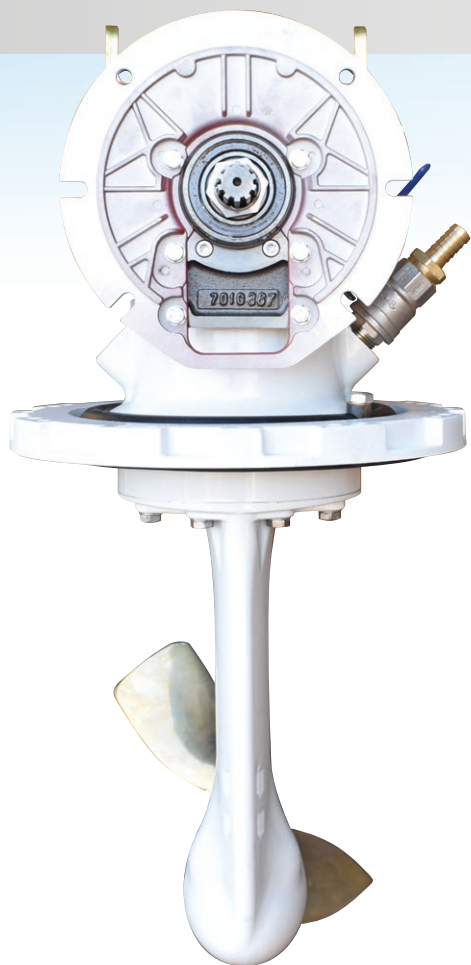
	A	B	C	D	E	F	Weight
Beta 30 SD	202	271	482	699	369	450	180Kg



These dimensions are accurate, the drawings are representative:  
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# Beta 35 SD



**BETA MARINE**

**5**

YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Recreational use only






**BETA MARINE**

**2**

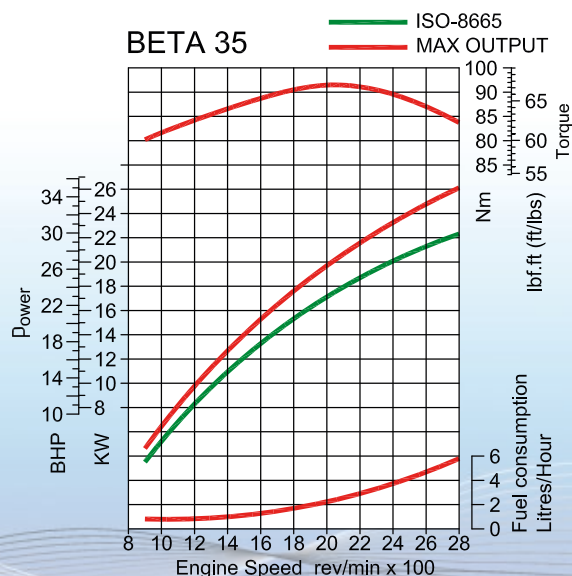
YEAR SAILDRIVE  
WARRANTY

Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>4</b>
	<b>Displacement</b>	<b>1498cc</b>
	<b>Power</b>	<b>35hp max @ 2,800rpm</b>
	<b>Weight</b>	<b>154Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	Std.
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	Std.
Yanmar	
SD20 Saildrive	Std.



## Electrical Options

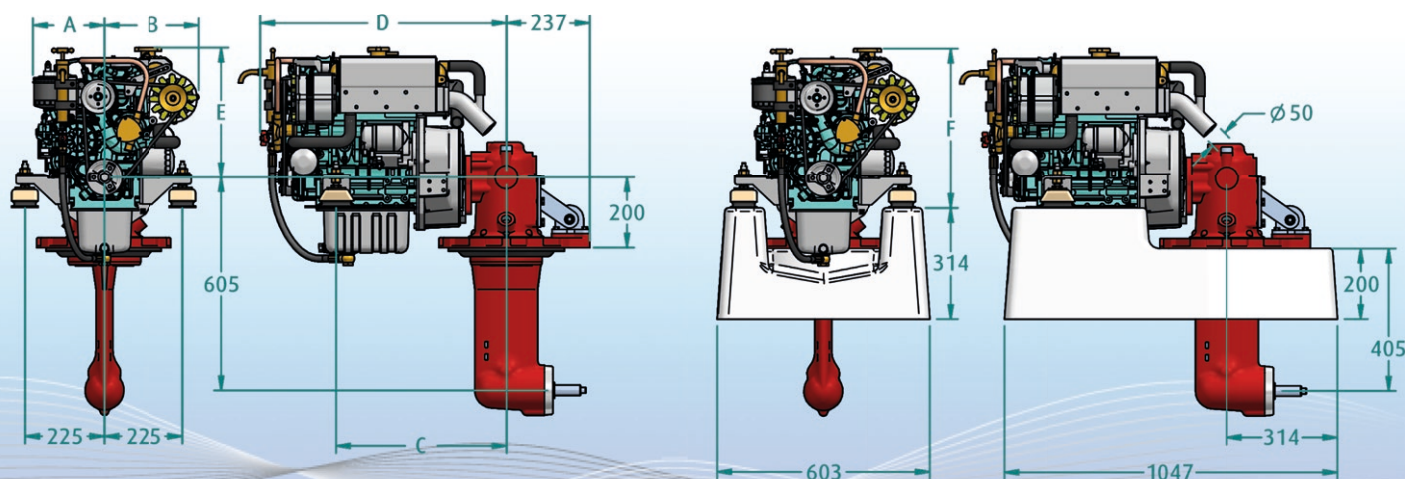
70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.

120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

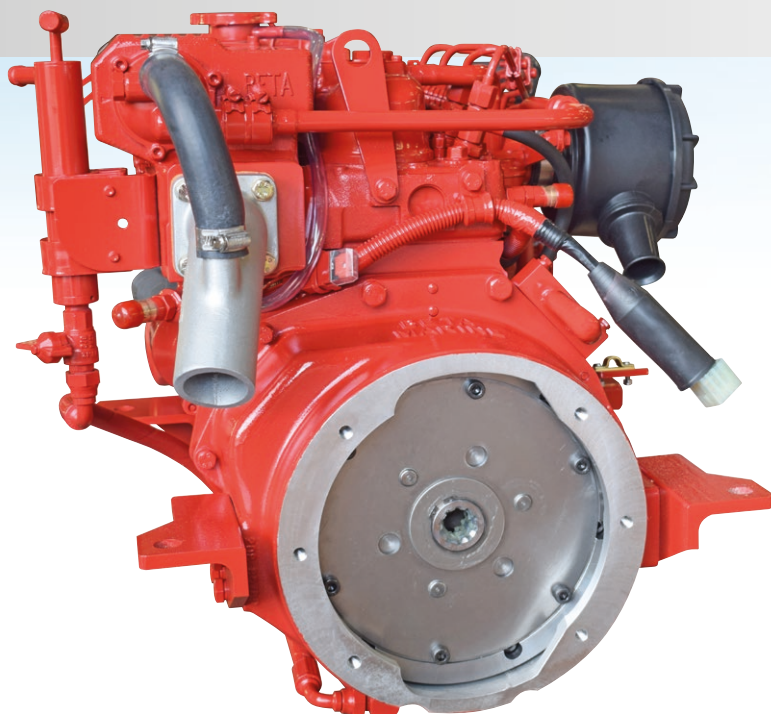
	A	B	C	D	E	F	Weight
Beta 35 SD	228	271	568	784	369	450	204Kg



These dimensions are accurate, the drawings are representative:  
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# Beta 38 SD








Recreational use only

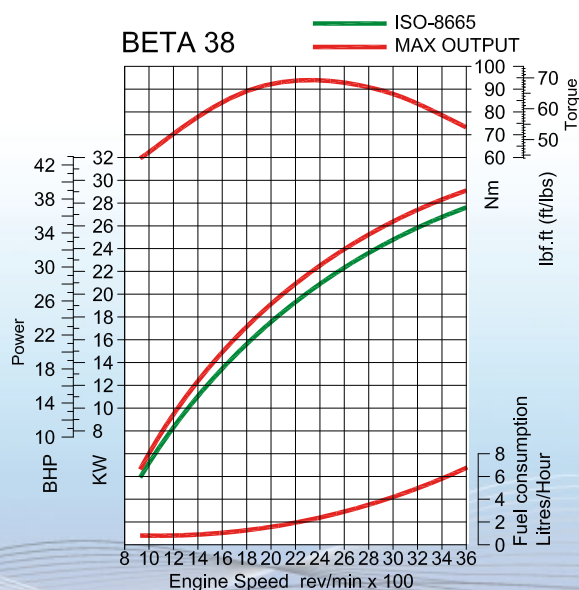


Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>4</b>
	<b>Displacement</b>	<b>1498cc</b>
	<b>Power</b>	<b>38hp max @ 3,600rpm</b>
	<b>Weight</b>	<b>154Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	Std.
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	Std.
Yanmar	
SD20 Saildrive	Std.



## Electrical Options

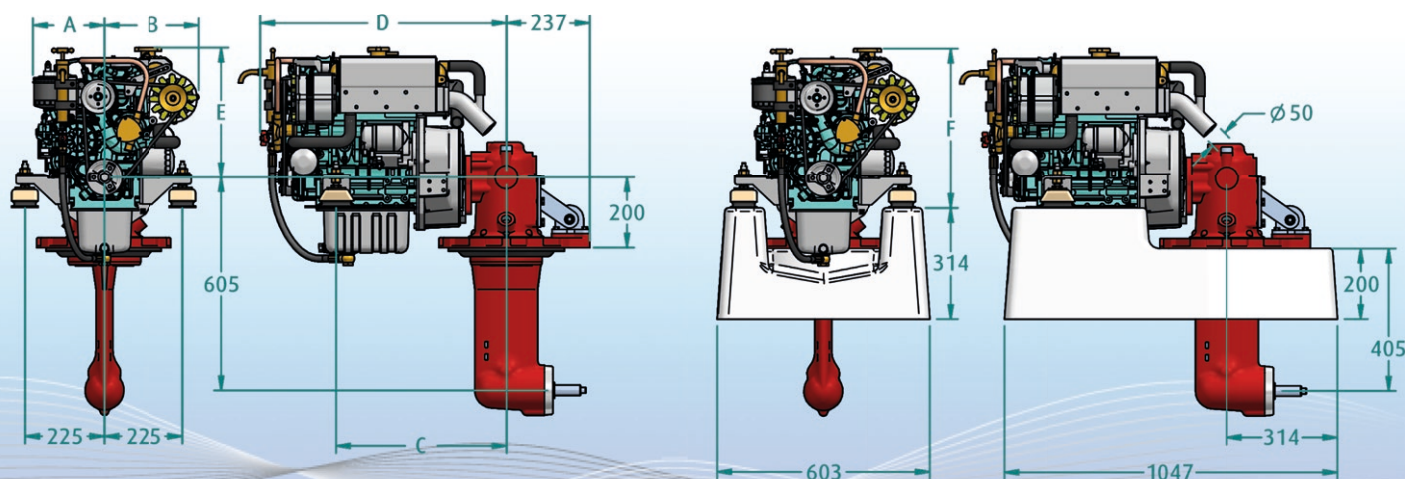
70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.

120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

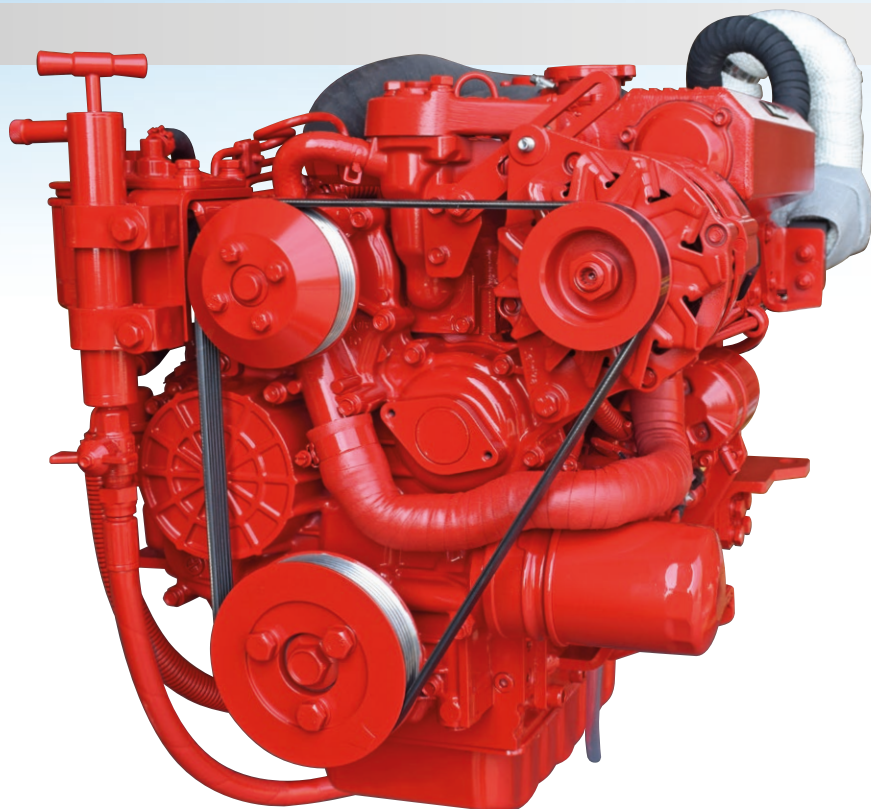
	A	B	C	D	E	F	Weight
Beta 38 SD	228	271	568	784	369	450	204Kg



These dimensions are accurate, the drawings are representative:  
visit our website for all engine / saildrive drawings or contact Beta Marine direct



# Beta 45T SD



Engine shown with optional  
high rise water injection bend








Recreational use only



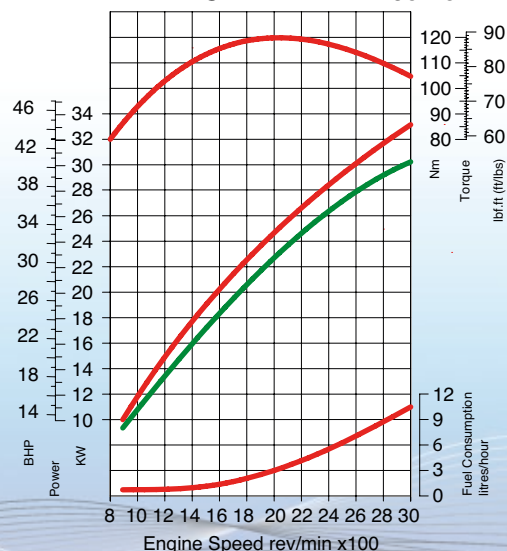
Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>4</b>
	<b>Displacement</b>	<b>1498cc</b>
	<b>Power</b>	<b>45hp max @ 3,000rpm</b>
	<b>Weight</b>	<b>161Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications

BETA 45T — ISO-8665 — MAX OUTPUT



Based on theoretical propeller  
loading - matched at full speed





## Control Panel Options

A Panel	Opt.	B Panel	Opt.
ABV Panel	Std.	BW Panel	Opt.
ABVW Panel	Opt.	C Deluxe Panel	Opt.
		CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo		Bukh	
110S Saildrive	Std.	Bukh Saildrive	Std.
120S Saildrive	Std.	Yanmar	
130S Saildrive	Std.	SD20 Saildrive	Std.



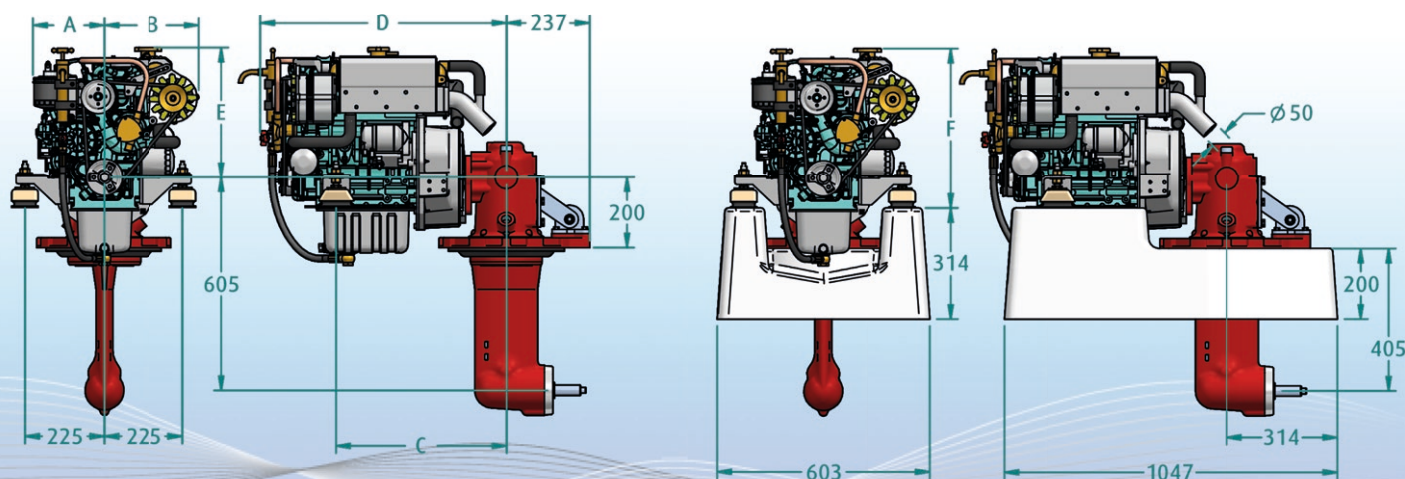
## Electrical Options

70 Amp, 12 Volt Alternator	Std.	120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.	125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

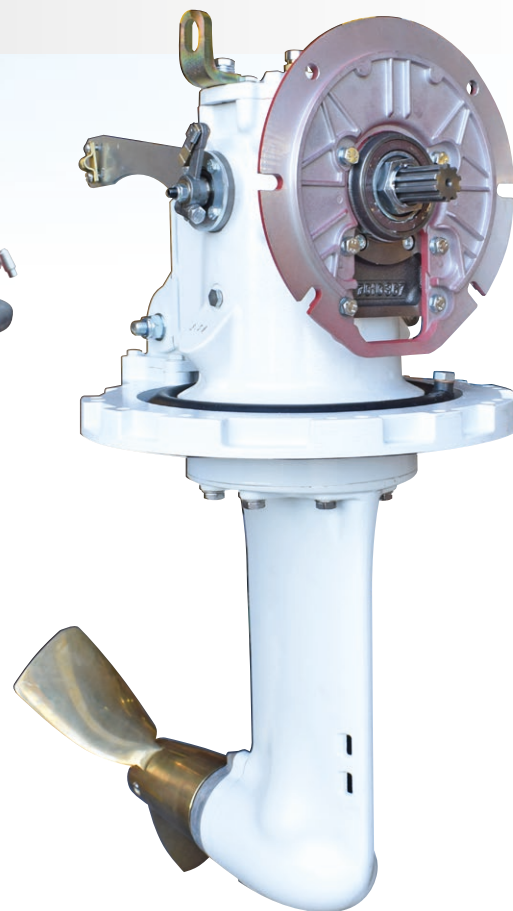
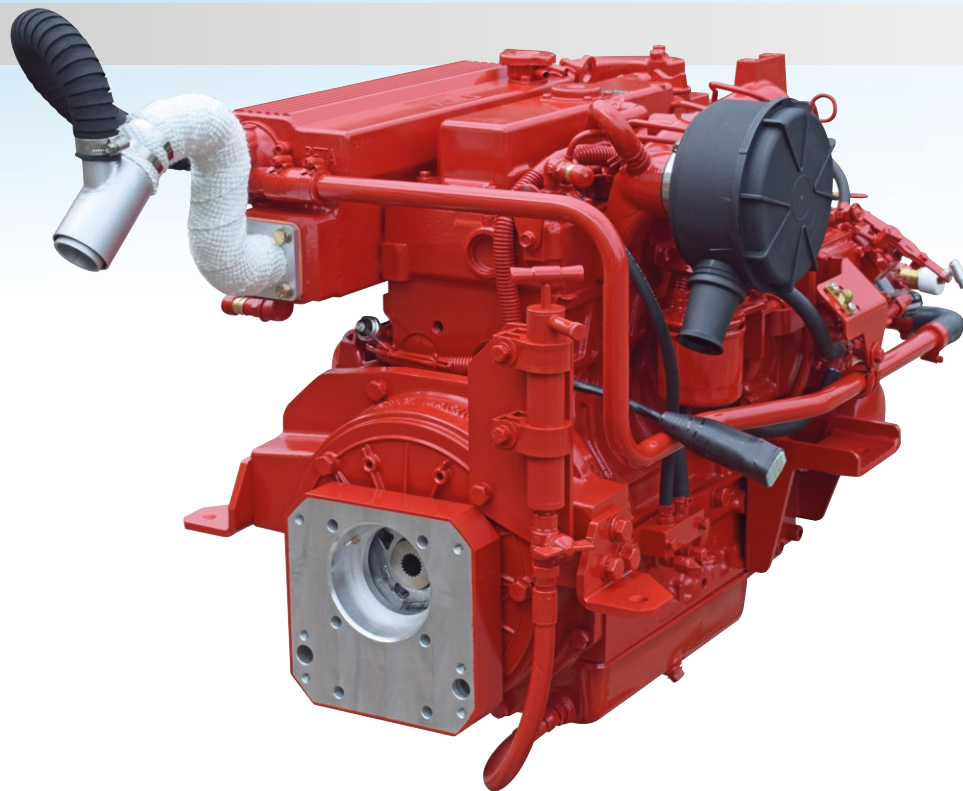
	A	B	C	D	E	F	Weight
Beta 45T SD	228	271	568	784	369	450	211Kg



These dimensions are accurate, the drawings are representative:  
visit our website for all engine / saildrive drawings or contact Beta Marine direct



# Beta 43 SD



Beta 43 engine shown with optional Volvo 120S saildrive adaptor, shallow sump & 150mm high rise (to port) injection bend






**BETA MARINE**  
**5**  
YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Recreational use only

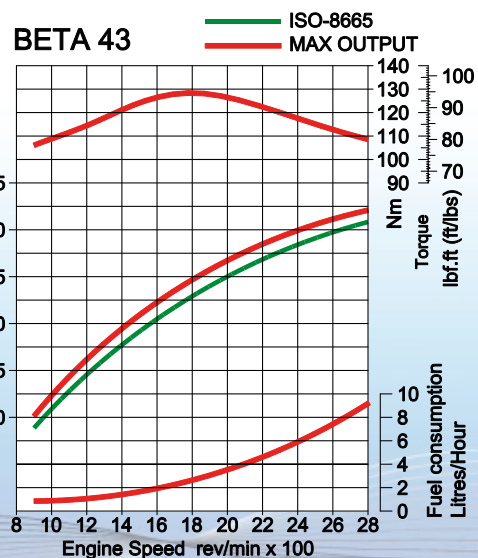
**BETA MARINE**  
**2**  
YEAR SAILDRIVE  
WARRANTY

Recreational use only

**Kubota**  
**Base Engine**

	<b>Cylinders</b>	<b>4</b>
	<b>Displacement</b>	<b>1999cc</b>
	<b>Power</b>	<b>43hp max @ 2,800rpm</b>
	<b>Weight</b>	<b>224Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	N/A
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	N/A
Yanmar	
SD20 Saildrive	N/A



## Electrical Options

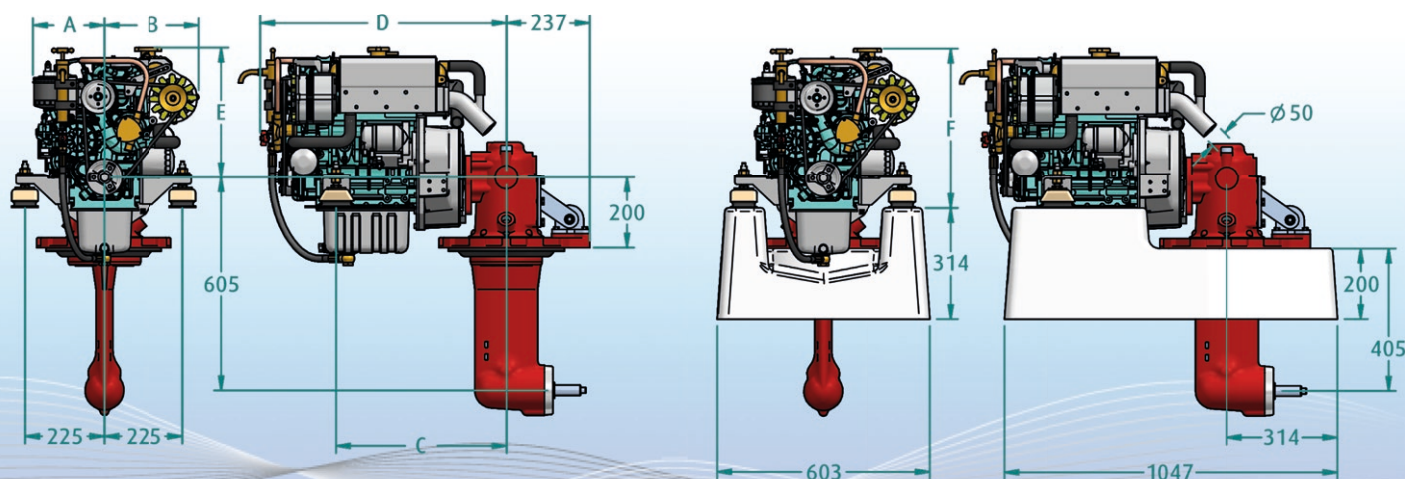
70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.

120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

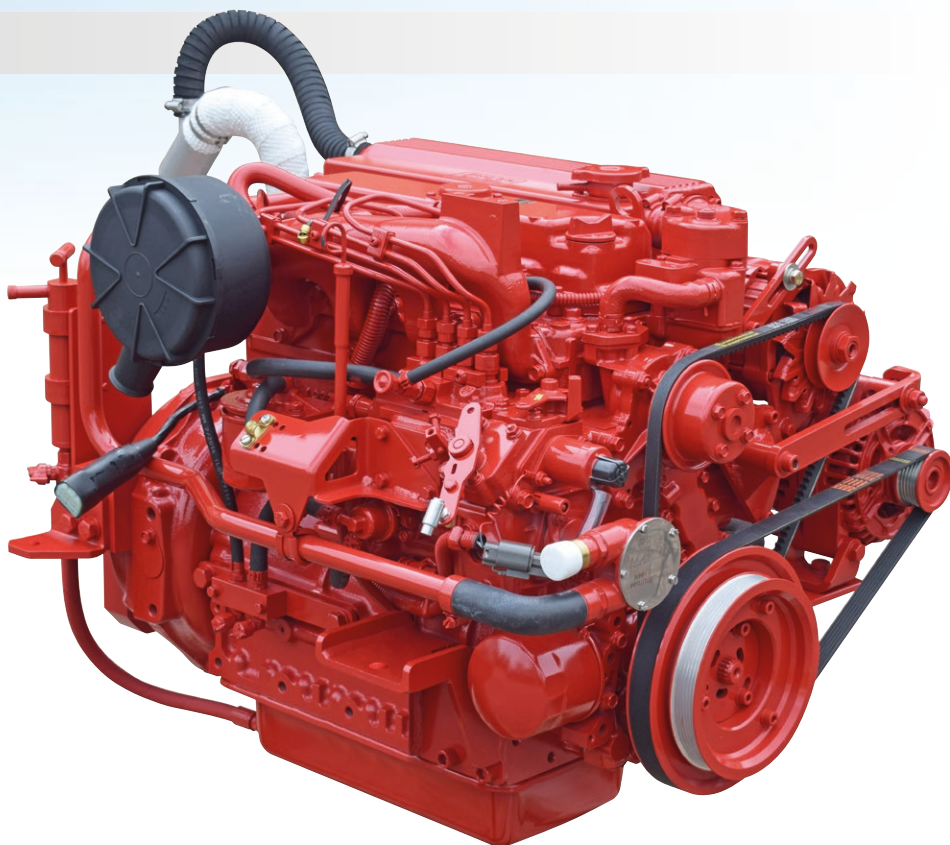
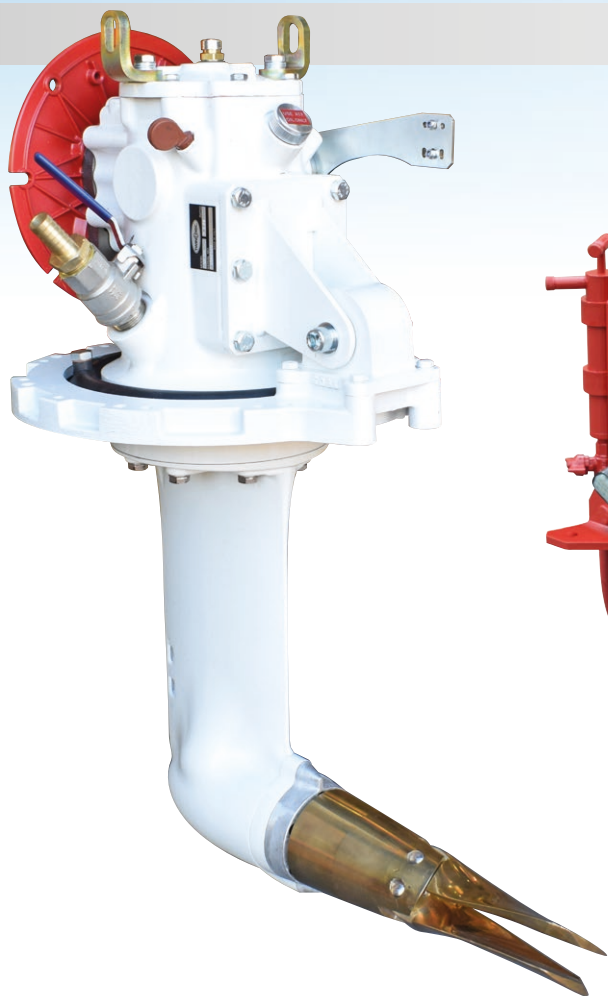
	A	B	C	D	E	F	Weight
Beta 43 SD	252	283	626	850	405	495	274Kg



These dimensions are accurate, the drawings are representative:  
visit our website for all engine / saildrive drawings or contact Beta Marine direct



# Beta 50 SD



Beta 50 engine shown with optional 120 amp secondary domestic alternator






**BETA MARINE**  
**5**  
YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Recreational use only

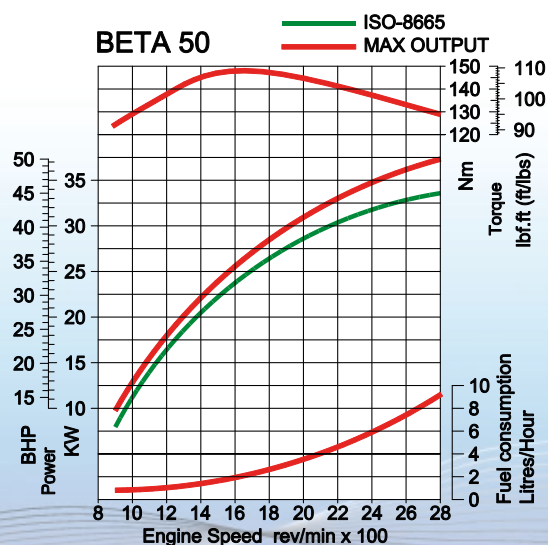
**BETA MARINE**  
**2**  
YEAR SAILDRIVE  
WARRANTY

Recreational use only

**Kubota**  
**Base Engine**

	<b>Cylinders</b>	<b>4</b>
	<b>Displacement</b>	<b>2197cc</b>
	<b>Power</b>	<b>48.9hp max @ 2,800rpm</b>
	<b>Weight</b>	<b>242Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
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## Adaptor Kits

Volvo	
110S Saildrive	N/A
120S Saildrive	Std.
130S Saildrive	Std.

Bukh	
Bukh Saildrive	N/A
Yanmar	
SD20 Saildrive	N/A



## Electrical Options

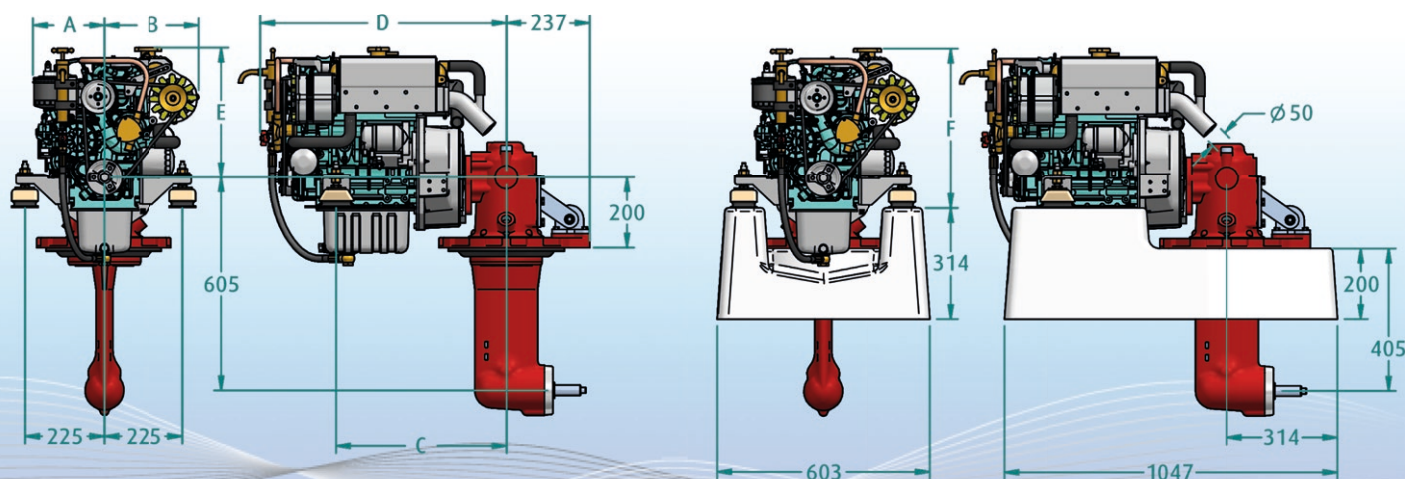
70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.

120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

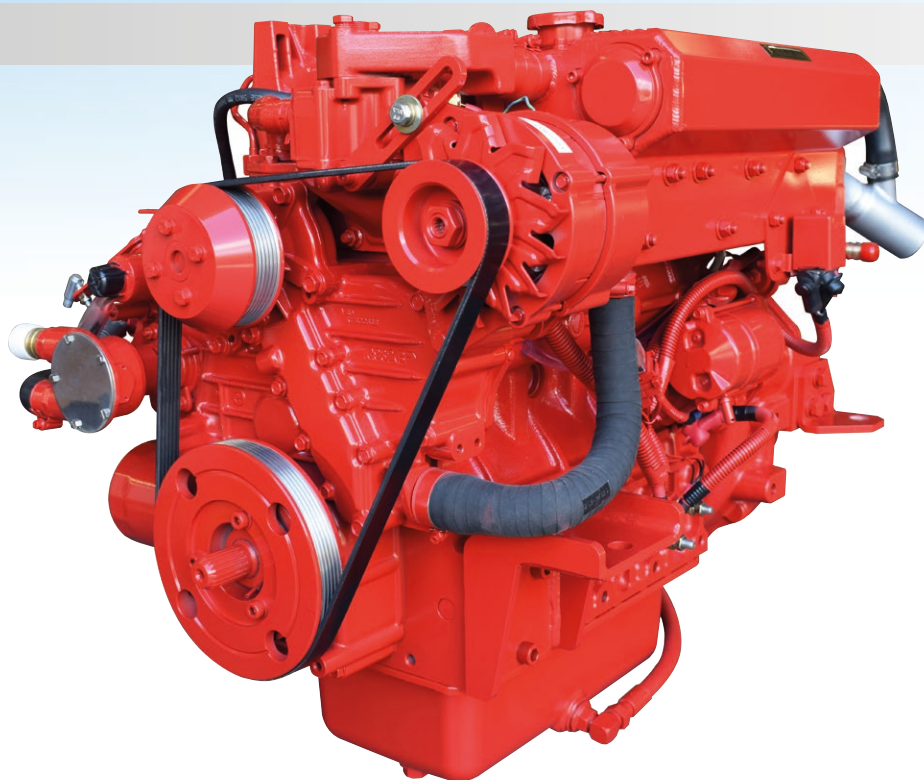
	A	B	C	D	E	F	Weight
Beta 50 SD	252	283	626	850	405	495	292Kg



These dimensions are accurate, the drawings are representative:  
visit our website for all engine / saildrive drawings or contact Beta Marine direct



# Beta 60 SD



Engine shown with  
optional polyvee drive






**BETA MARINE**  
**5**  
YEAR 'SELF-SERVICE'  
ENGINE WARRANTY

Recreational use only

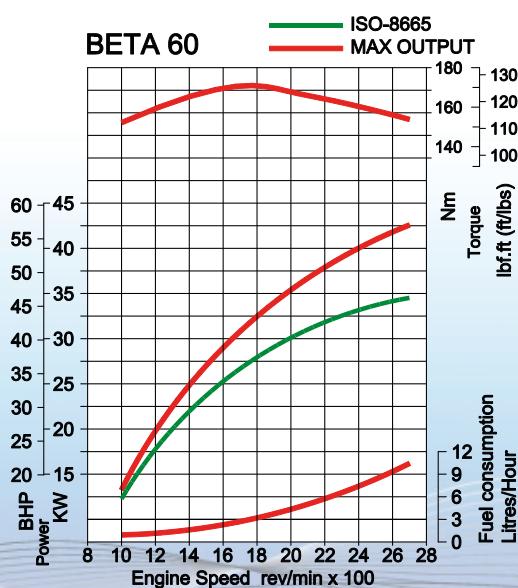
**BETA MARINE**  
**2**  
YEAR SAILDRIVE  
WARRANTY

Recreational use only

**Kubota  
Base Engine**

	<b>Cylinders</b>	<b>4</b>
	<b>Displacement</b>	<b>2434cc</b>
	<b>Power</b>	<b>56hp max @ 2,700rpm</b>
	<b>Weight</b>	<b>269Kg</b>
	<b>Propeller</b>	<b>AIA*</b>

A general guidance for propeller size in inches, based upon 3 blade RH rotation and reduction ratio of 2:1. \*For accurate individual advice please provide us with your vessels current full specifications



Based on theoretical propeller  
loading - matched at full speed





## Control Panel Options

A Panel	Opt.
ABV Panel	Std.
ABVW Panel	Opt.

B Panel	Opt.
BW Panel	Opt.
C Deluxe Panel	Opt.
CW Deluxe Panel	Opt.



## Saildrive Option

SeaProp 60 Saildrive Leg	Std.
--------------------------	------



## Adaptor Kits

Volvo	
110S Saildrive	N/A
120S Saildrive	N/A
130S Saildrive	Std.

Bukh	
Bukh Saildrive	N/A
Yanmar	
SD20 Saildrive	N/A



## Electrical Options

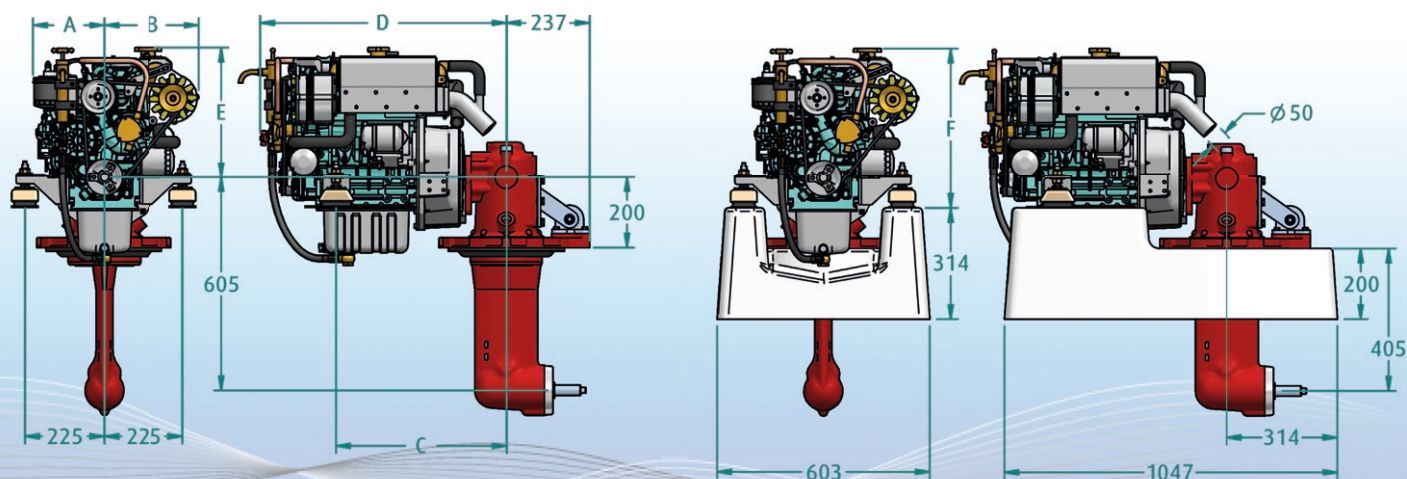
70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.

120 Amp, 12 Volt Secondary Domestic Alternator	Opt.
125 Amp, 12 Volt Split Charging System	Opt.



## Saildrive Dimensions using SeaProp 60

	A	B	C	D	E	F	Weight
Beta 60 SD	252	283	626	850	405	495	319Kg



These dimensions are accurate, the drawings are representative:  
visit our website for all engine / saildrive drawings or contact Beta Marine direct



## Control Panels

### Optional Control Panel 'A'

Is key switch controlled for engine preheat & start, push button controlled for engine stop, has a green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature and engine alternator not charging. Complete with 3m\* of interconnection cable and multi pin plug connector.



### Standard Control Panel 'ABV'

Is key switch controlled for engine preheat & start, push button controlled for engine stop, has a tachometer with running hour recorder, green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature and engine alternator not charging. Complete with 3m\* of interconnection cable and multi pin plug connector.



### Optional Control Panel 'ABVW'

Is push button controlled for engine preheat, start & stop, has a tachometer with running hour recorder, green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature and engine alternator not charging. Complete with 3m\* of interconnection cable and multi pin plug connector.



### Optional Control Panel 'B'

Is key switch controlled for engine preheat & start, push button controlled for engine stop, has a tachometer with running hour recorder and a water temperature gauge. Green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature and engine alternator not charging. Complete with 3m\* of interconnection cable and multi pin plug connector.



\*Extension looms are available, please refer to our relevant price list



## Optional Control Panel 'BW'

Is push button controlled for engine preheat, start & stop, has a tachometer with running hour recorder and a water temperature gauge. Green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature and engine alternator not charging. Complete with 3m\* of interconnection cable and multi pin plug connector.



## Optional Control Panel 'C' Deluxe

Is key switch controlled for engine preheat & start, push button controlled for engine stop, has a tachometer with running hour recorder, oil pressure, voltmeter & water temperature gauges. Green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature, engine and or domestic alternators not charging. Complete with 3m\* of interconnection cable and multi pin plug connector. Recommended option, when specifying an engine with both starter battery & domestic charge alternators.



## Optional Control Panel 'CW' Deluxe

Is push button controlled for engine preheat & start, push button controlled for engine stop, has a tachometer with running hour recorder, oil pressure, voltmeter & water temperature gauges. Green light indicator for 'power on', red warning light indicators & audible alarm for low oil pressure, high water temperature, engine and or domestic alternators not charging. Complete with 3m\* of interconnection cable and multi pin plug connector. Recommended option, when specifying an engine with both starter battery & domestic charge alternators.



## Optional 'Flybridge Control'

Comprises of a C Deluxe panel with 3m\* of interconnection cable with multi pin plug and either a standard ABV panel or chosen optional panel complete with 6m\* of interconnection cable and multi pin plug connector for the Flybridge.



## 3D Computer Aided Design

### Optional Special Feet Service

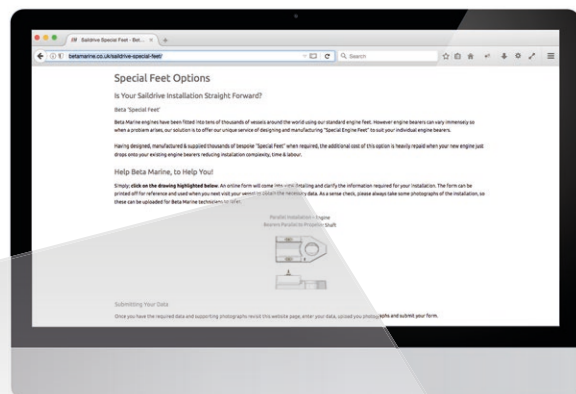
Beta Marine engines have been fitted into thousands of vessels around the world using our standard engine feet but when necessary we can design, manufacture and supply "Special Engine Feet" so that your engine drops straight onto your vessels existing engine bearers.

### Step 1 – Designing Your Special Feet

Beta Marine will need to be advised of a number of accurate dimensions and or data to be able to produce a 3D model. There are different sets of information required, dependent upon your vessels bearer type, these are normally Parallel. To help identify your vessels bearer type visit:

<http://www.betamarine.co.uk/saildrive-special-feet/>

Click on the drawing highlighted. An online form will come into view detailing and clarify the information required for your installation type. The form can be printed off for reference and used when you next visit your vessel to obtain the necessary data. As a sense check, please take some photographs of the installation, these can be uploaded for Beta Marine technicians to refer to once you revisit the above, enter your data and submit your form.



**Special Feet Options**

Is Your Saildrive Installation Straight Forward?

Beta "Special Feet"

Beta Marine engines have been fitted into tens of thousands of vessels around the world using our standard engine feet. However engine bearers can vary immensely so when a problem arises, our solution is to offer our unique service of designing and manufacturing "Special Engine Feet" to suit your individual engine bearers.

Having designed, manufactured & supplied thousands of bespoke "Special Feet" when required, the additional cost of this option is heavily repaid when your new engine just drops onto your existing engine bearers reducing installation complexity, time & labour.

Help Beta Marine, to Help You!

Simply, **click on the drawing highlighted below**. An online form will come into view detailing and clarify the information required for your installation. The form can be printed off for reference and used when you next visit your vessel to obtain the necessary data. As a sense check, please always take some photographs of the installation, so these can be uploaded for Beta Marine technicians to refer.

Parallel Installation – Engine Bearers Parallel to Propeller Shaft

Submitting Your Data

Once you have the required data and supporting photographs revisit this website page, enter your data, upload your photographs and submit your form.

Approving Your Special Feet

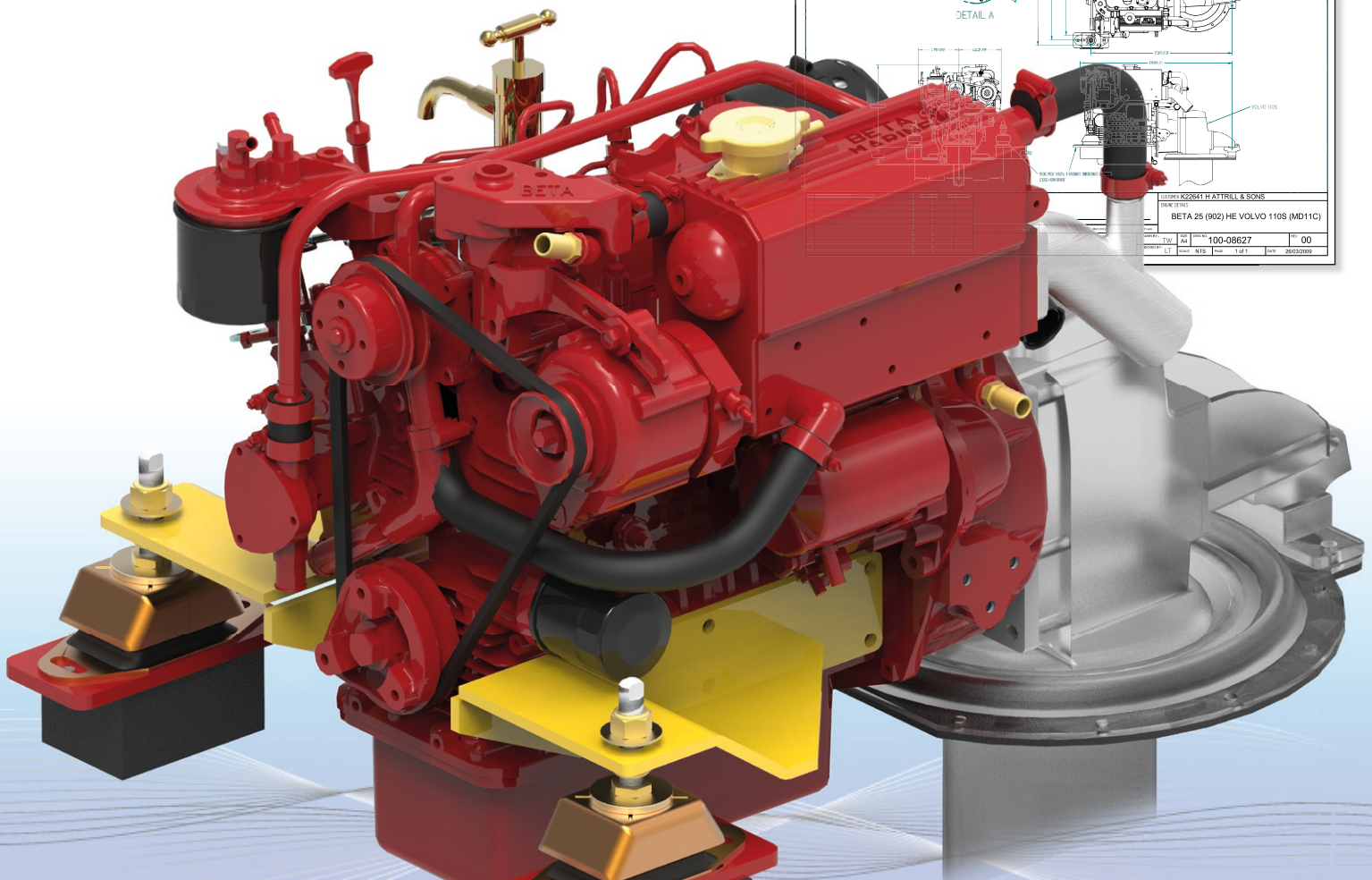
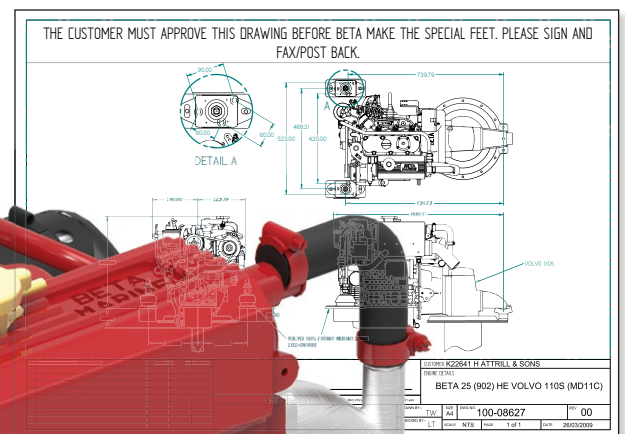
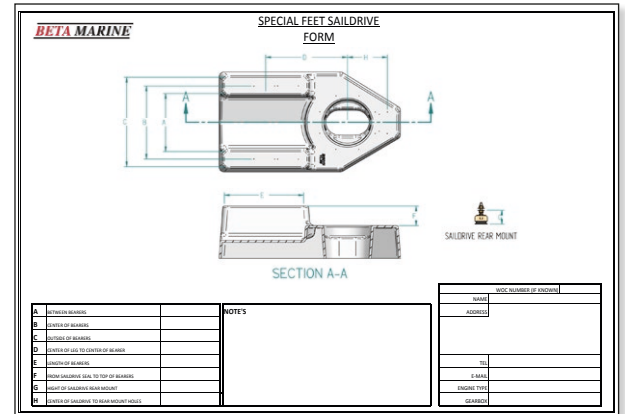


## Step 2 – Approving Your Special Feet

Once your special feet form & photographs have been received, Beta Marine technicians will produce a virtual reality 3D model, once they are satisfied it will full fill your installation needs, a 2D drawing will be created and a pdf returned to you. Once this has been received it will need to be carefully checked through and given approval before any manufacturing commences.

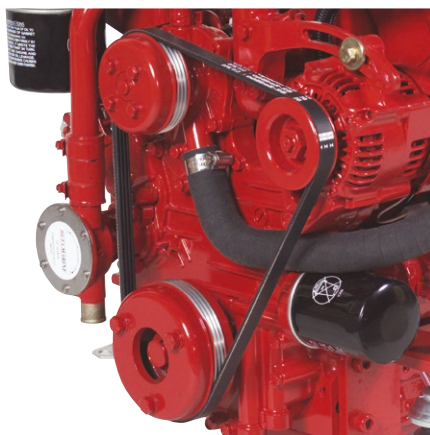
## Step 3 – Manufacturing Your Special Feet

Once approval has been given, we manufacture, paint and assemble your engine ready to drop onto your vessels existing engine bearers.



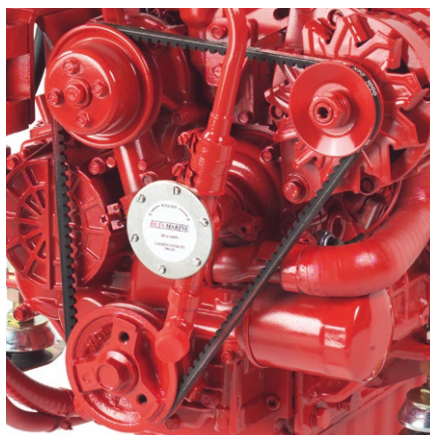


## Electrical & Installation Options



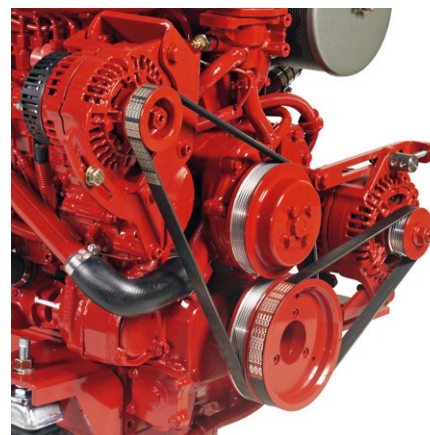
### Standard Drive Belt Set Up 1

The Beta 14, 16, 20 & 25 are equipped with a standard 40 Amp alternator, the Beta 30, 38 & 45 are equipped with a standard 70 Amp alternator all are driven by a polyvee belt/pulley.



### Standard Drive Belt Set Up 2

The Beta 43, 50 & 60 are equipped with a standard 70 Amp alternator, driven by an "A" section profiled belt/pulley. Polyvee belt/pulley drive is available as an optional extra.



### Secondary Alternators

Are available dependent on engine model, where appropriate polyvee belt/pulley drive will be included; please refer to the tables within the individual engine model pages.



3.5/5kVA  
Travel Power

### Optional Travel Power 3.5 or 5 kVA

The engine mounted generator & bulkhead mounted inverter are very compact in size but produce either 3.5 or 5kVA mains electricity at 230 volts, single phase and 50 Hz just above engine tick over, achieving full output at approximately 1500 RPM or typical "normal" cruising speed. Providing ample power for most on board domestic electrical requirements. Complete with 5m shielded cable to run to the power control box and an option for a remote control switch.



### Optional Installation Accessories

Beta Marine offer a comprehensive range of accessories to support your installation with solutions available to cover all needs; engine, gearbox, propeller shaft connection, fresh & seawater management, additional or remote, lubrication, filtration, dry or wet exhaust components & for the engine bay. For comprehensive options please refer to relevant price list.



## **Heat Exchanger Generating Sets - 4 to 58 kVA**



Beta Marine has gained considerable experience over many years of manufacturing marine generating sets for yachts and work boats. These small marine generating sets are based on Kubota diesel engines with marine rated "generators" offering 4 kVA up to 58 kVA; and available as a standard open generating set or acoustically housed.

- Quality robust design - renowned for durability, longevity and reliability.
- Low noise levels as standard - especially when the acoustic housing option is taken.
- Keel cooled option is additionally available.

Our marine generating sets have high quality acoustic housings using 38mm acoustic material that are carefully designed to have compact dimensions and low weight, with all service connections brought to the outside of the housing - ready for a quick and easy installation.

Bespoke specification is a specialty. For full information please refer/or request: **Generating Set Range, 4 to 58 kVA, Publication Ref: SB 221-05164**





## ***BETA* MARINE**

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Ref: SB 221-04873 REV 16 - 1121