

BETA MARINE

Seagoing

Saildrives

Inland Waterways

Marine Generating Sets

Spares & Support

Your needs . . .



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

Mid Engine Range

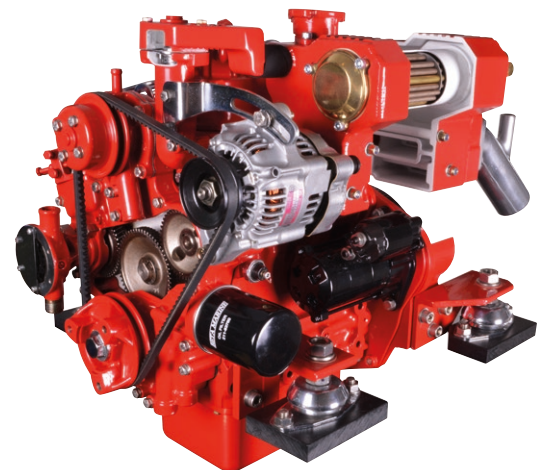
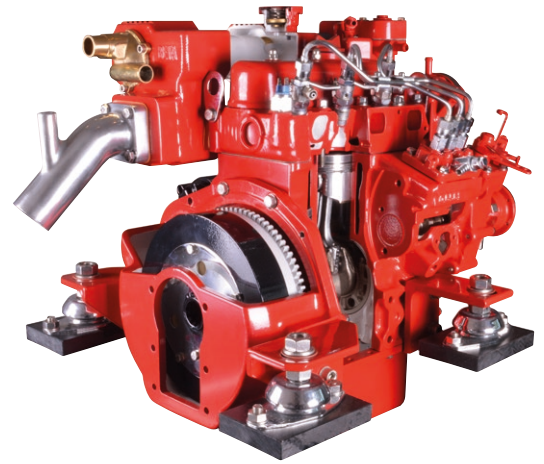
Heat Exchanger Cooled Beta 43 - Beta 115T

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.

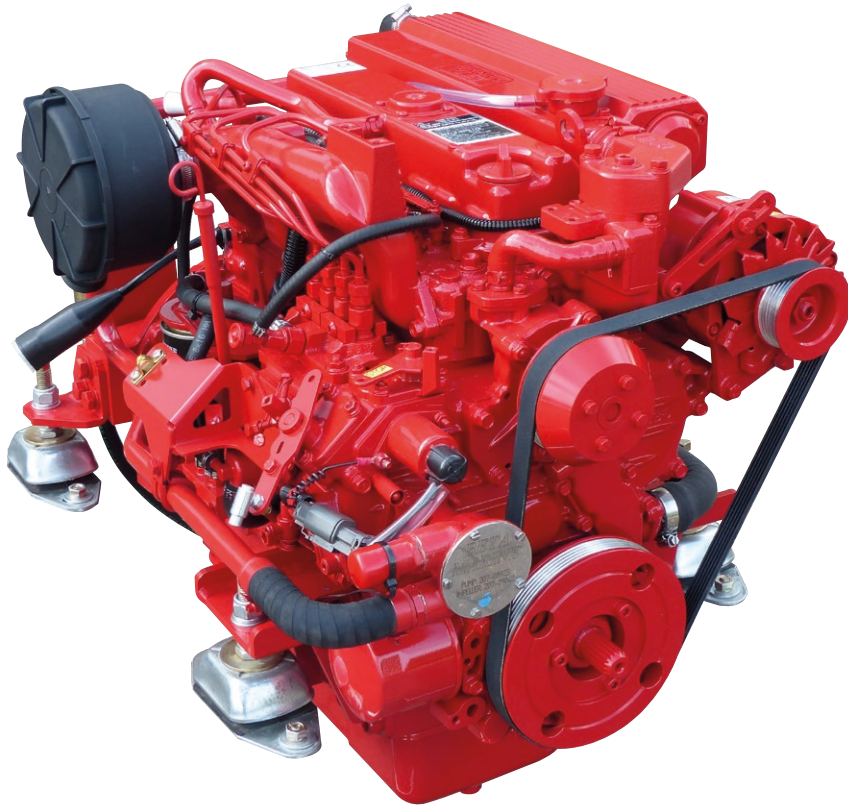
Cutaway Images Are For Illustration
Purposes & Not Necessarily Representative



ISO
9001

Quality
Management
Certification

The Beta 43 - Beta 115T Mid Engine Range



- The Beta 43 - Beta 115T mid-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 43 - Beta 105T engine range meets all current and projected **RCD 2 (Recreational Craft Directive 2013/53/EU)** exhaust emission regulations.
- The Beta 43, 50, 70T & 85T 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 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	-	-	-
Beta 70T	RCD 2	70 @ 2,800	52.0 @ 2,800	EPA Tier 3	70 @ 2,800	52.0 @ 2,800
Beta 75	RCD 2	75 @ 2,600	56.0 @ 2,600	-	-	-
Beta 85T	RCD 2	85 @ 2,800	62.0 @ 2,800	EPA Tier 3	83 @ 2,800	62.0 @ 2,800
Beta 90T	RCD 2	90 @ 2,600	67.1 @ 2,600	-	-	-
Beta 105T	RCD 2	98 @ 2,600	73.1 @ 2,600	-	-	-

Mid Engine Range - Specifications

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.

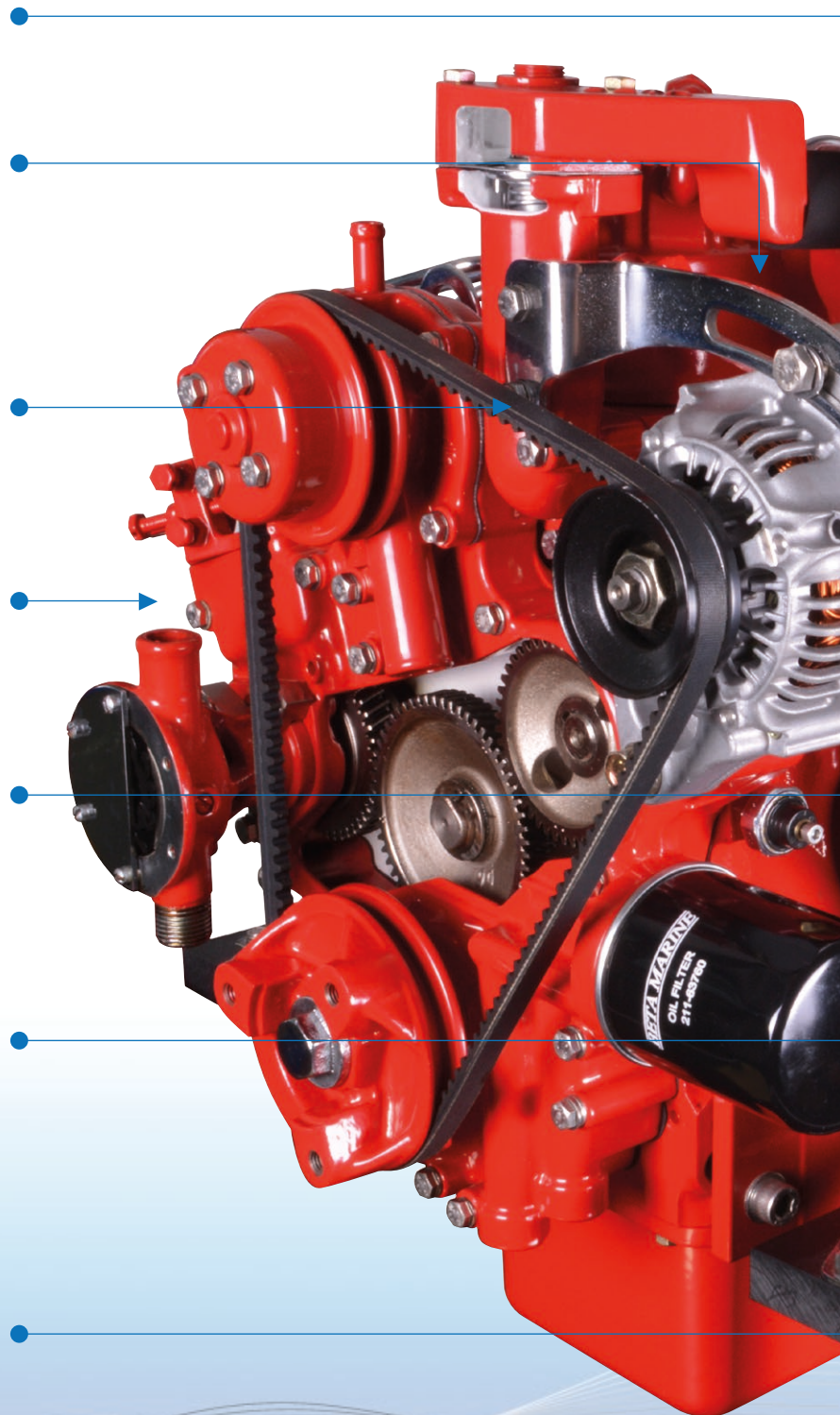
Subject to criteria, Kubota based engines accommodate installation angles up to 15° maximum when static and 25° when heeling.

70 amp battery charging alternator giving full power at cruising speed with 12 volt electric starting as standard. **OPTIONAL OR ADDITIONAL ALTERNATORS** & polyvee belt/pulley drive transmission are available.

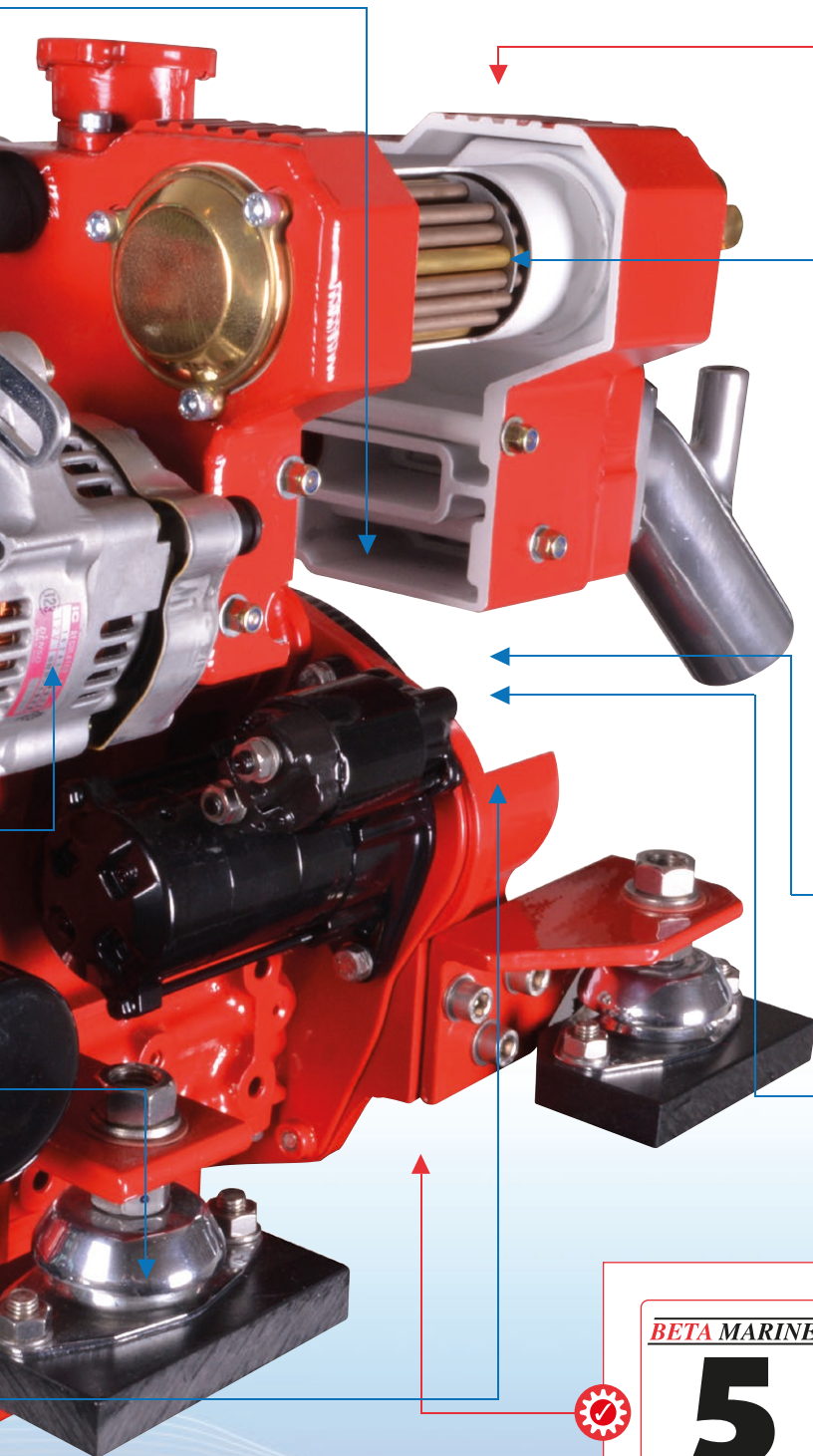
Optional special feet service, to ease planning and installation Beta Marine offer 3D computer aided modeling for the design & the manufacture of bespoke feet to allow direct installation on to your vessels existing engine bearers.

Mechanical & hydraulic, in-line, down angle or V drive gearbox options. Output rotation is clockwise in ahead, viewed from the gearbox end.

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 43, 50, 60 & 75 are naturally aspirated, whilst the Beta 70T, 85T, 90T, 105T & 115T are turbocharged.
- Three vortex combustion with indirect injection for quiet running, low emissions and excellent fuel consumption – Beta 43, 50, 60, 75 & 90.
- ICVS combustion with direct injection for quiet running, low emissions and excellent fuel consumption – Beta 70T, 85T, 90T & 105T.



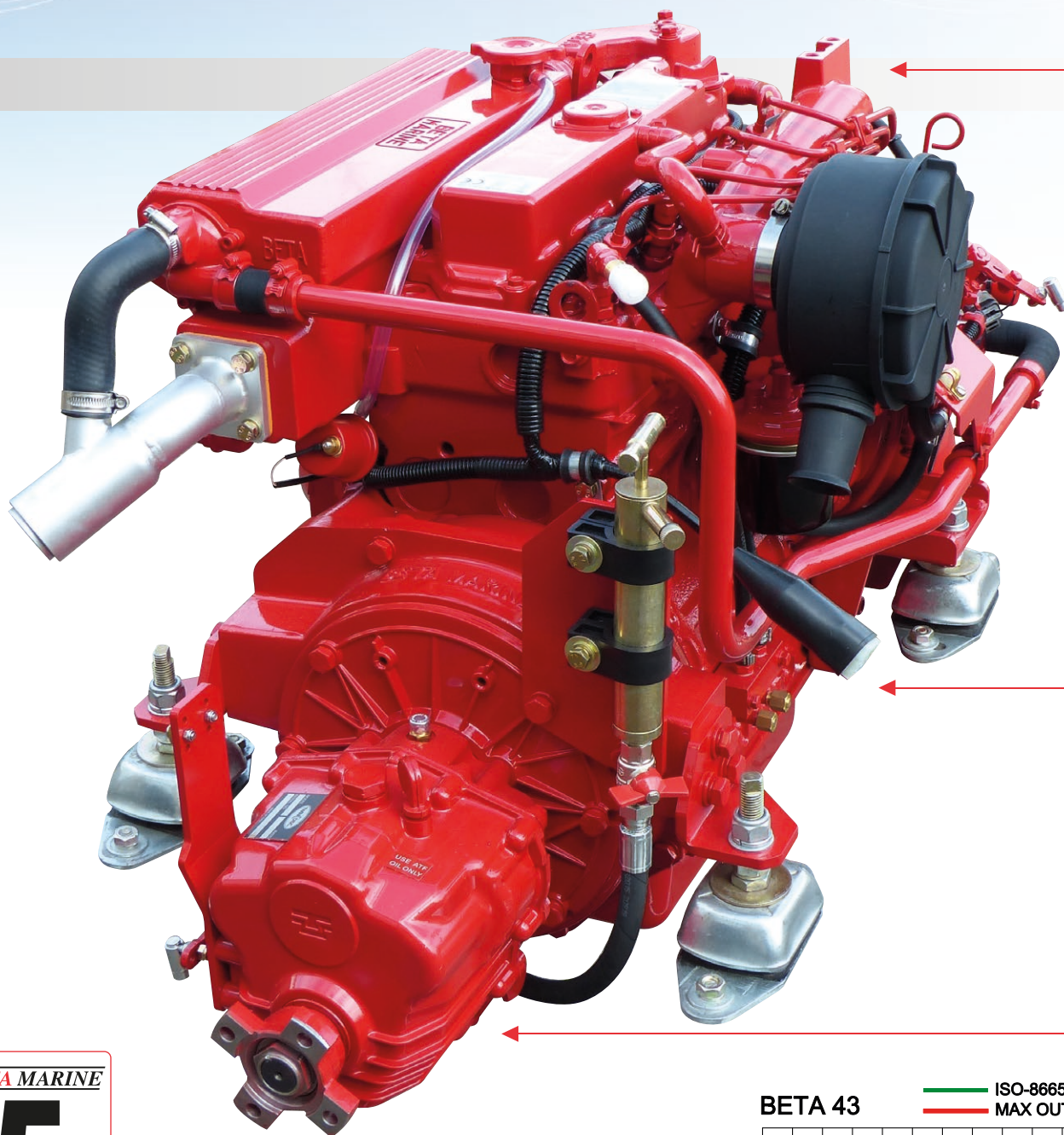
BETA MARINE

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.**

Beta 43








BETA MARINE

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YEAR 'SELF-SERVICE'
ENGINE WARRANTY

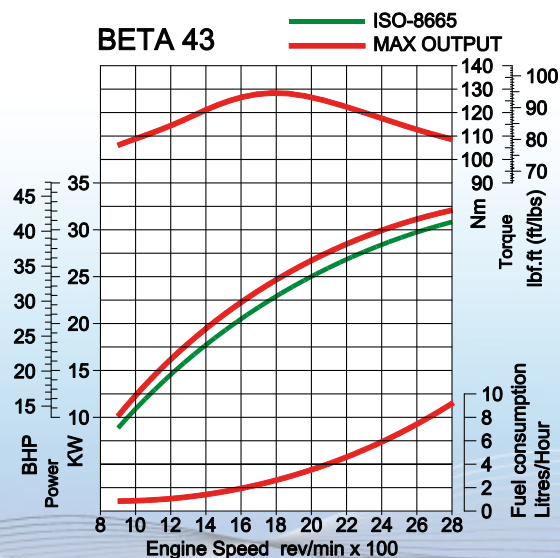
Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	1999cc
	Power	43hp max @ 2,800rpm
	Weight	238Kg
	Propeller	18" x 12"

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 43



Based on theoretical propeller loading - matched at full speed



Control Panel Options

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

Bobtail - No Gearbox

"Bobtail" Engine with Drive Plate and Housing Only Std.

Technodrive / Twin Disc

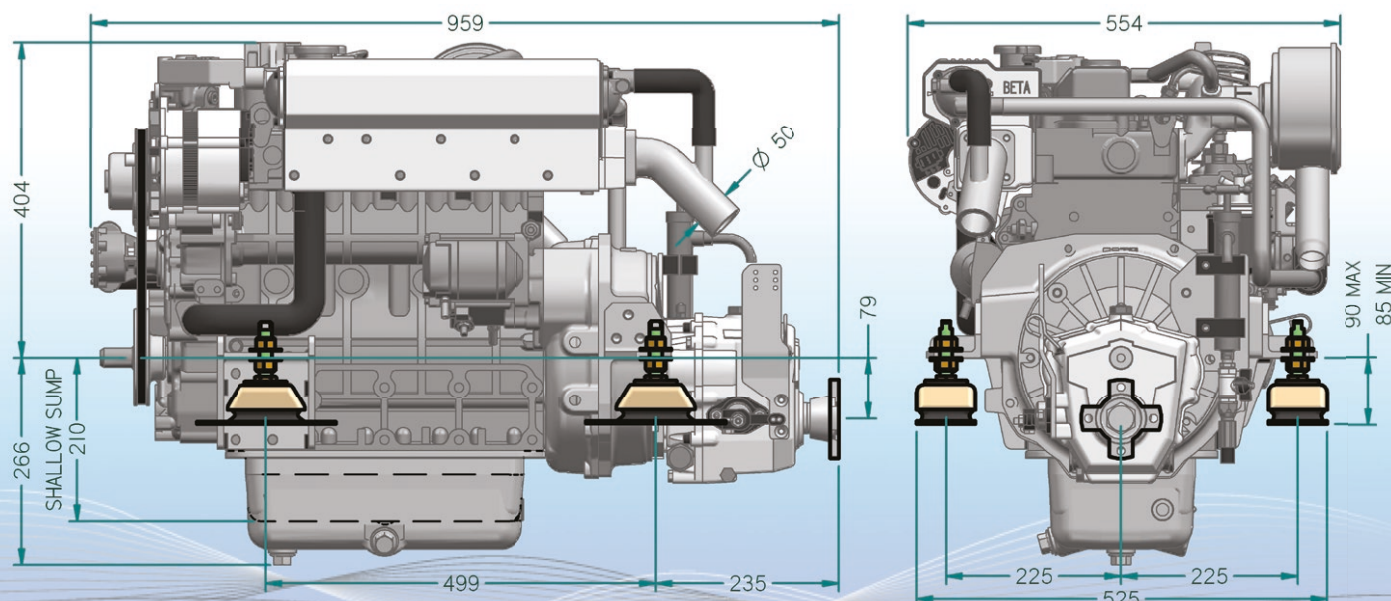
TMC60 - Mechanical	Std.
TMC60A - 7° Down Angle, Mechanical	Std.
TMC260 - Hydraulic	Opt.
TM345 - Hydraulic	Opt.
TM345A - 8° Down Angle, Hydraulic	Opt.

PRM Marine

PRM150 - Hydraulic	Std.
PRM280 - Hydraulic	Opt.
PRM260C - In-line Hydraulic	Opt.

ZF

ZF25M - Mechanical	Std.
ZF25 - Hydraulic	Std.
ZF25A - 8° Down Angle, Hydraulic	Std.
ZF15MIV - 15° V Drive, Mechanical	Std.
ZF68IV - 12° V Drive, Hydraulic	Opt.








These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

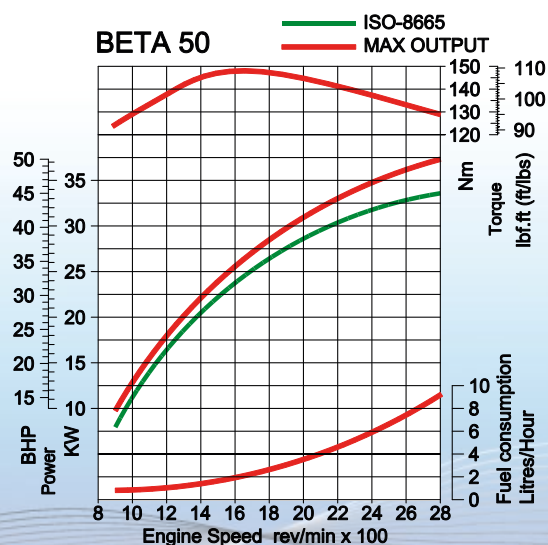
Beta 50



Kubota Base Engine

	Cylinders	4
	Displacement	2197cc
	Power	48.9hp max @ 2,800rpm
	Weight	260Kg
	Propeller	19" x 12"

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

Bobtail - No Gearbox

"Bobtail" Engine with Drive Plate and Housing Only Std.

Technodrive / Twin Disc

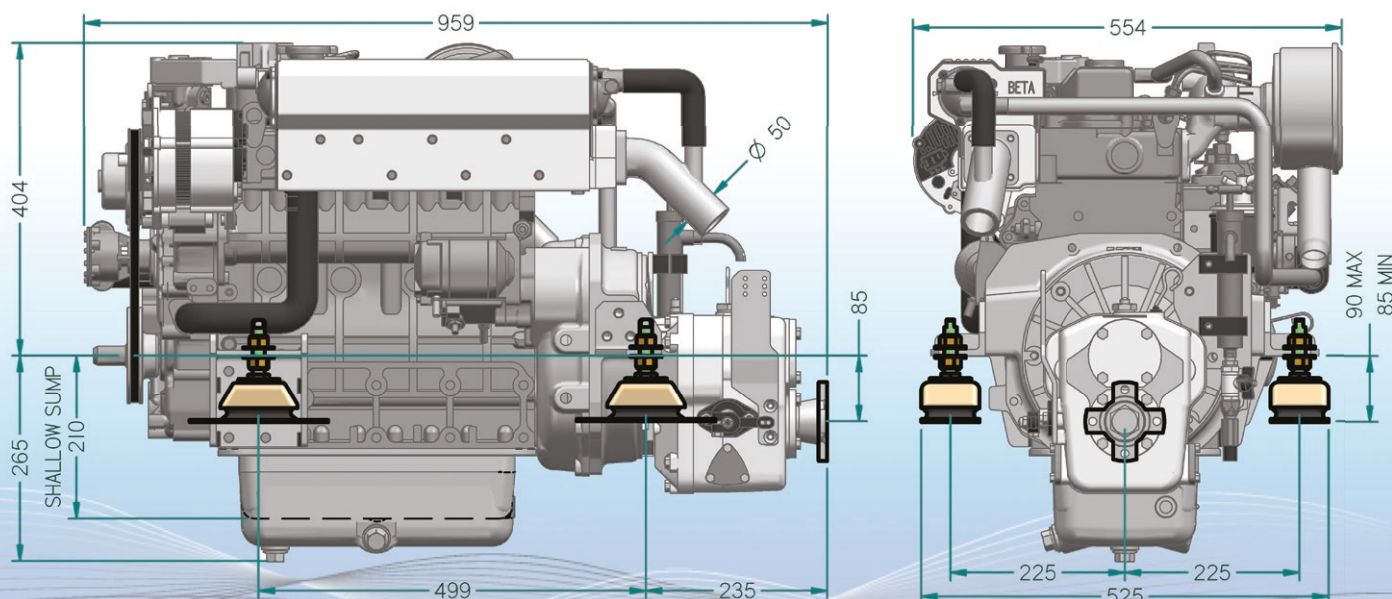
TMC60 - Mechanical	Std.
TMC60A - 7° Down Angle, Mechanical	Std.
TMC260 - Hydraulic	Opt.
TM345 - Hydraulic	Opt.
TM345A - 8° Down Angle, Hydraulic	Opt.

PRM Marine

PRM150 - Hydraulic	Std.
PRM280 - Hydraulic	Opt.
PRM260C - In-line Hydraulic	Opt.

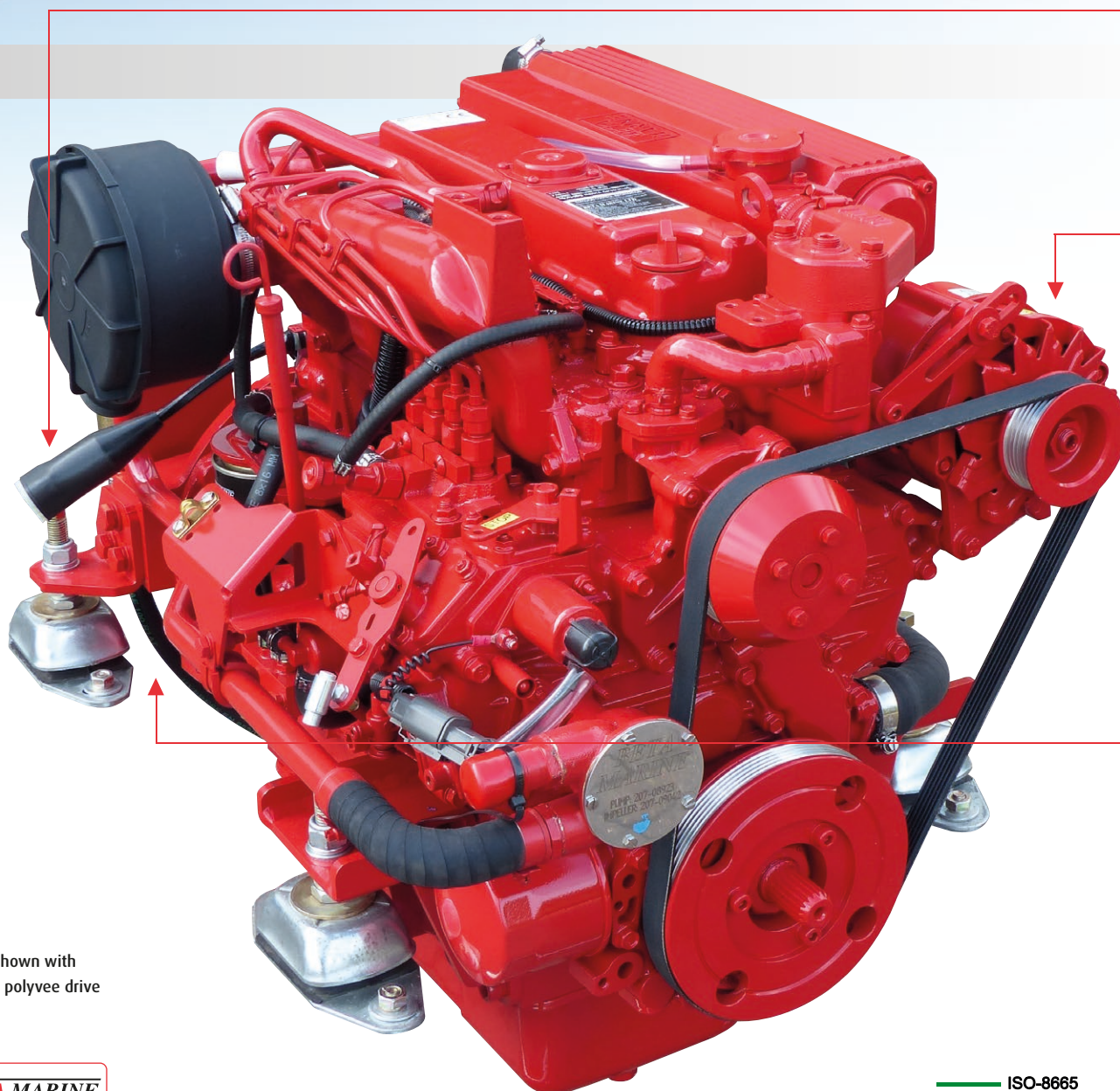
ZF

ZF25M - Mechanical	Std.
ZF25 - Hydraulic	Std.
ZF25A - 8° Down Angle, Hydraulic	Std.
ZF15MIV - 15° V Drive, Mechanical	Std.
ZF68IV - 12° V Drive, Hydraulic	Opt.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

Beta 60



Engine shown with
optional polyvee drive






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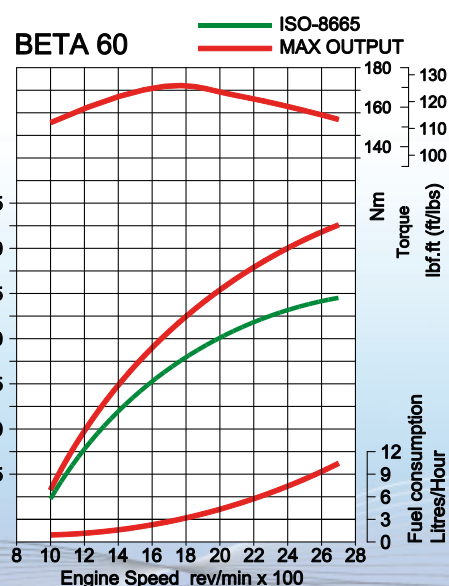
YEAR 'SELF-SERVICE'
ENGINE WARRANTY

Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	2434cc
	Power	56hp max @ 2,700rpm
	Weight	287Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

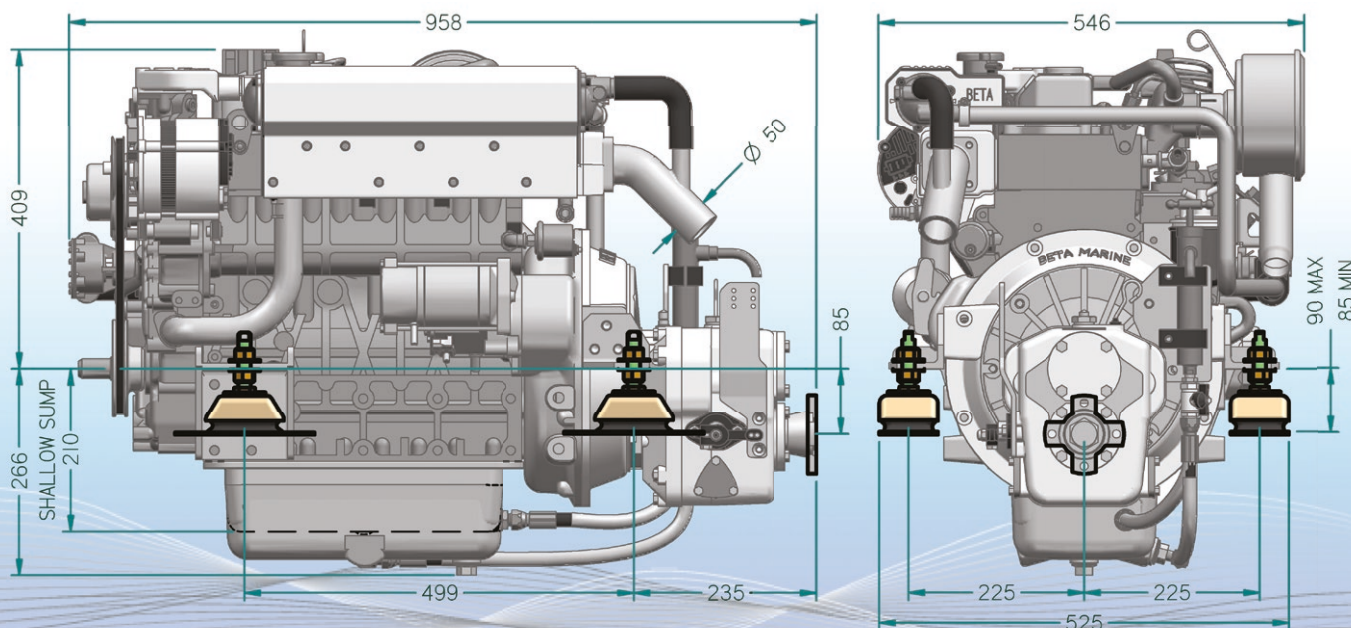
24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

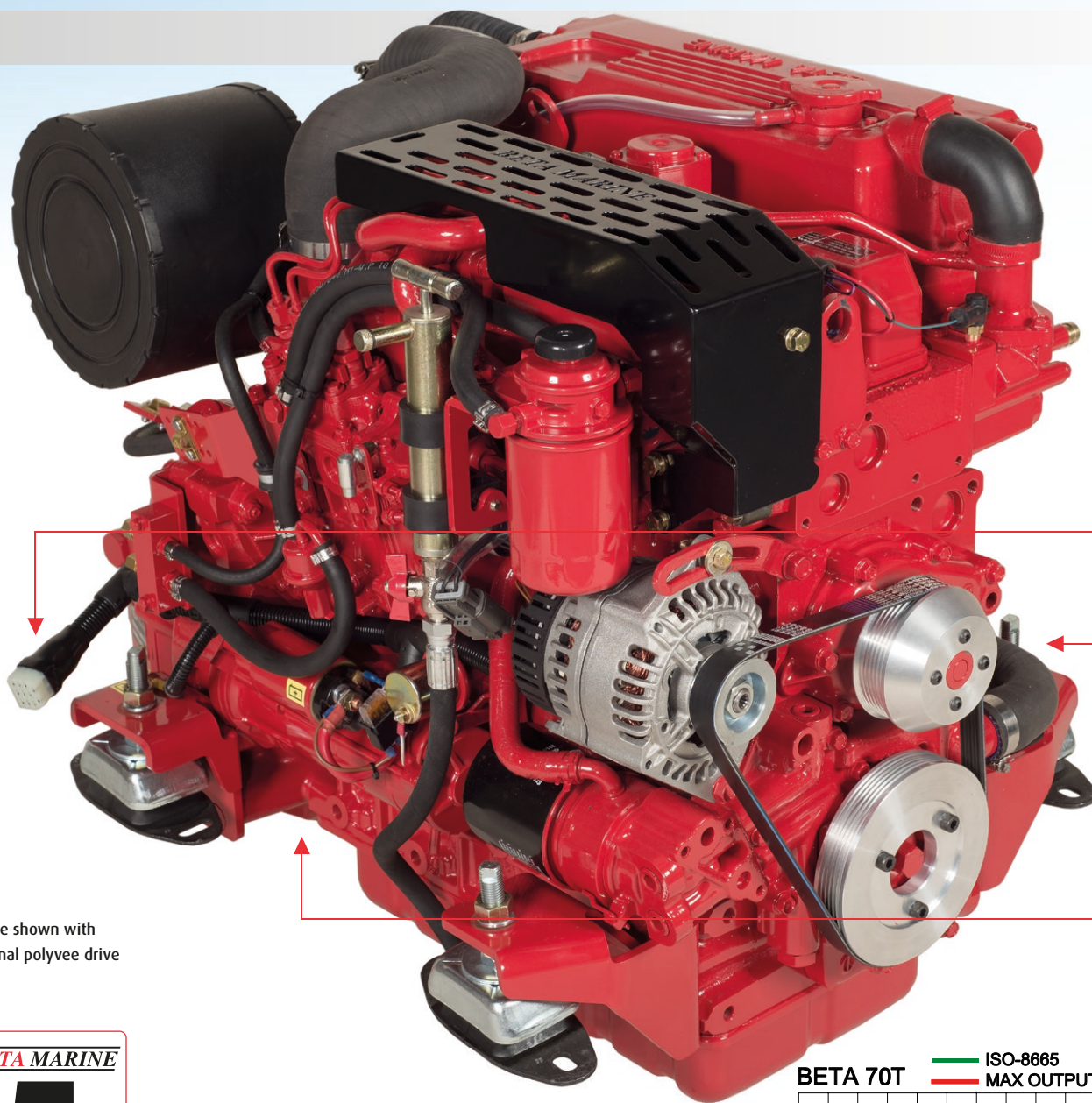
Bobtail - No Gearbox	
"Bobtail" Engine with Drive Plate and Housing Only	Std.
Technodrive / Twin Disc	
TM345 - Hydraulic	Std.
TM345A - 8° Down Angle, Hydraulic	Opt.

PRM Marine	
PRM150 - Hydraulic	Std.
PRM280 - Hydraulic	Opt.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.
ZF	
ZF25M - Mechanical	Std.
ZF25 - Hydraulic	Std.
ZF25A - 8° Down Angle, Hydraulic	Std.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

Beta 70T



Engine shown with
optional polyvee drive






BETA MARINE

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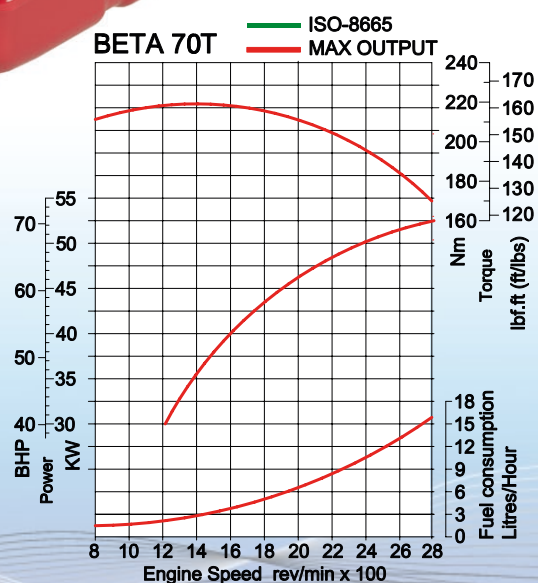
YEAR 'SELF-SERVICE'
ENGINE WARRANTY

Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	2615cc
	Power	70hp max @ 2,800rpm
	Weight	287Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

Bobtail - No Gearbox

"Bobtail" Engine with Drive Plate and Housing Only Std.

Technodrive / Twin Disc

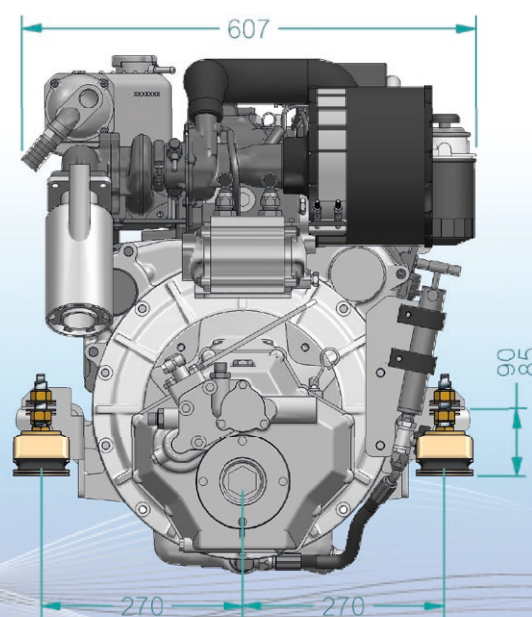
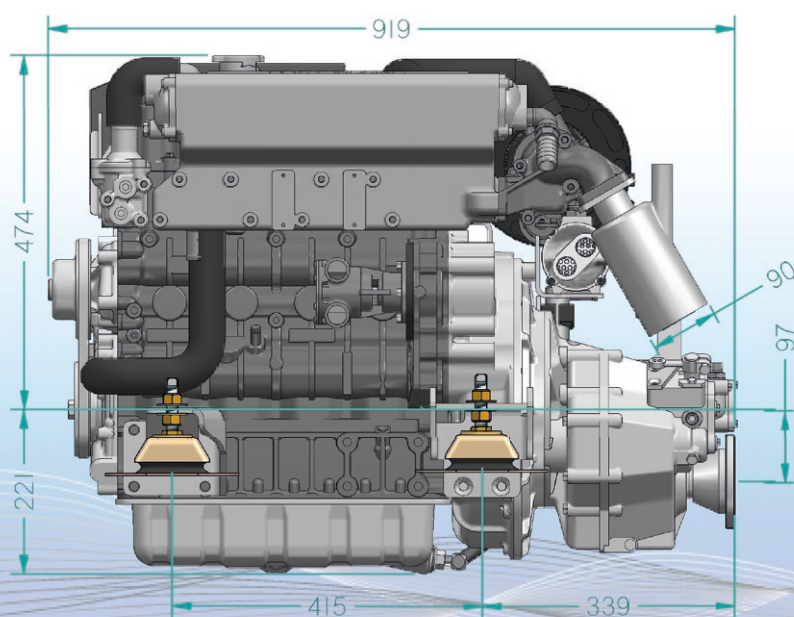
TM345 - Hydraulic	Std.
TM345A - 8° Down Angle, Hydraulic	Opt.
TM93 - Hydraulic	Opt.
TM93A - 8° Down Angle, Hydraulic	Opt.

PRM Marine

PRM280 - Hydraulic	Std.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.

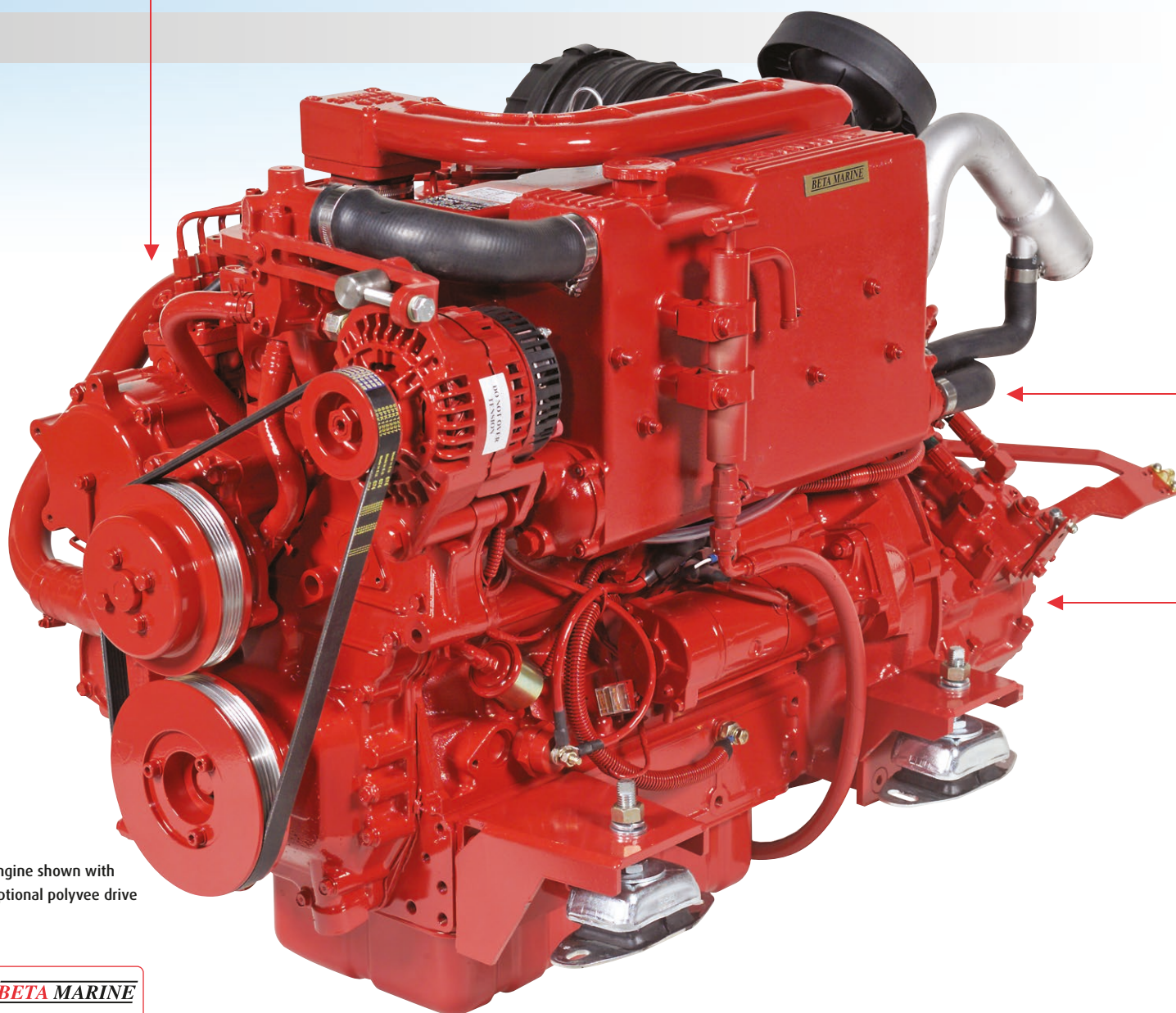
ZF

ZF45 - Hydraulic	Std.
ZF45A - 8° Down Angle, Hydraulic	Std.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

Beta 75








Engine shown with optional polyvee drive

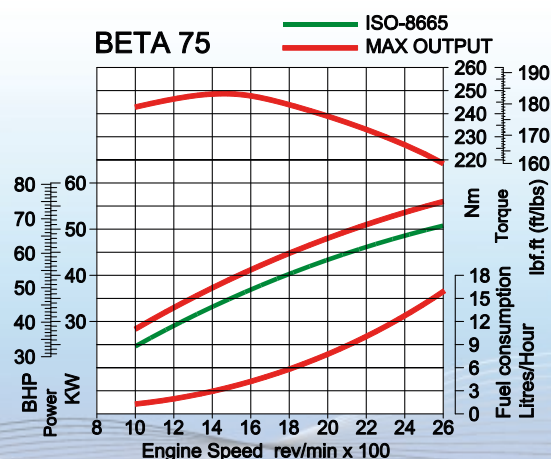


Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	3620cc
	Power	75hp max @ 2,600rpm
	Weight	414Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

Bobtail - No Gearbox

"Bobtail" Engine with Drive Plate and Housing Only Std.

Technodrive / Twin Disc

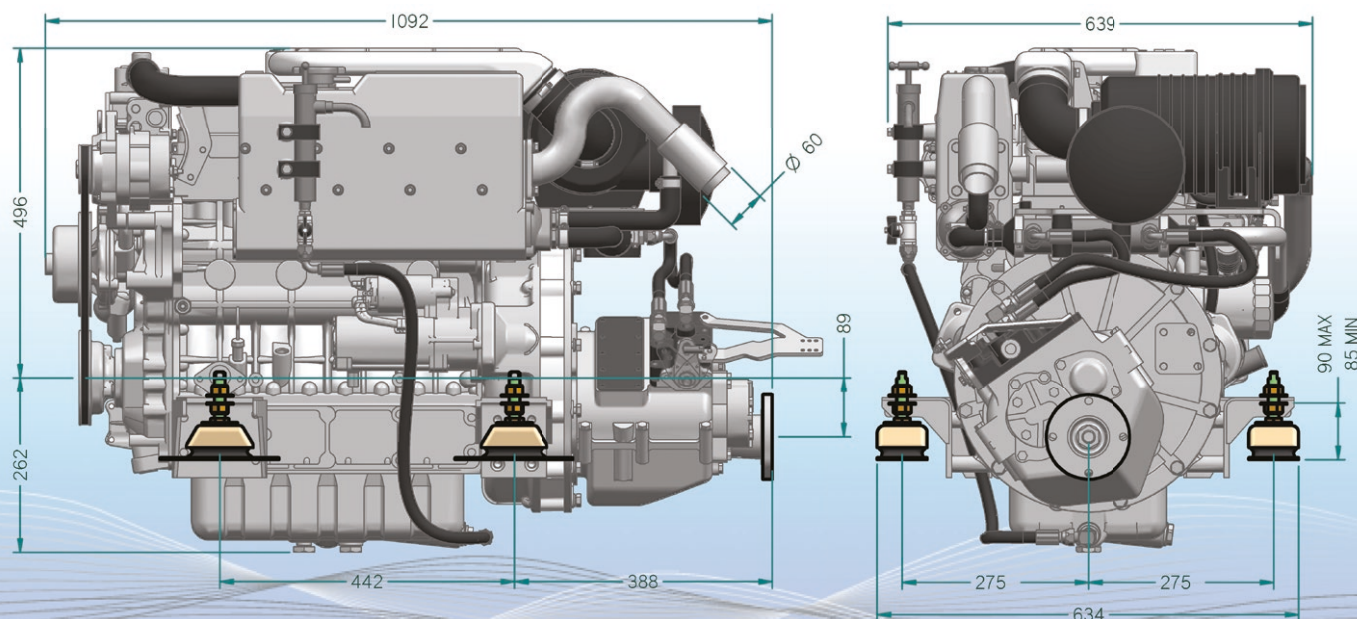
TM345 - Hydraulic	Std.
TM345A - 8° Down Angle, Hydraulic	Opt.
TM93 - Hydraulic	Opt.
TM93A - 8° Down Angle, Hydraulic	Opt.

PRM Marine

PRM280 - Hydraulic	Std.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.

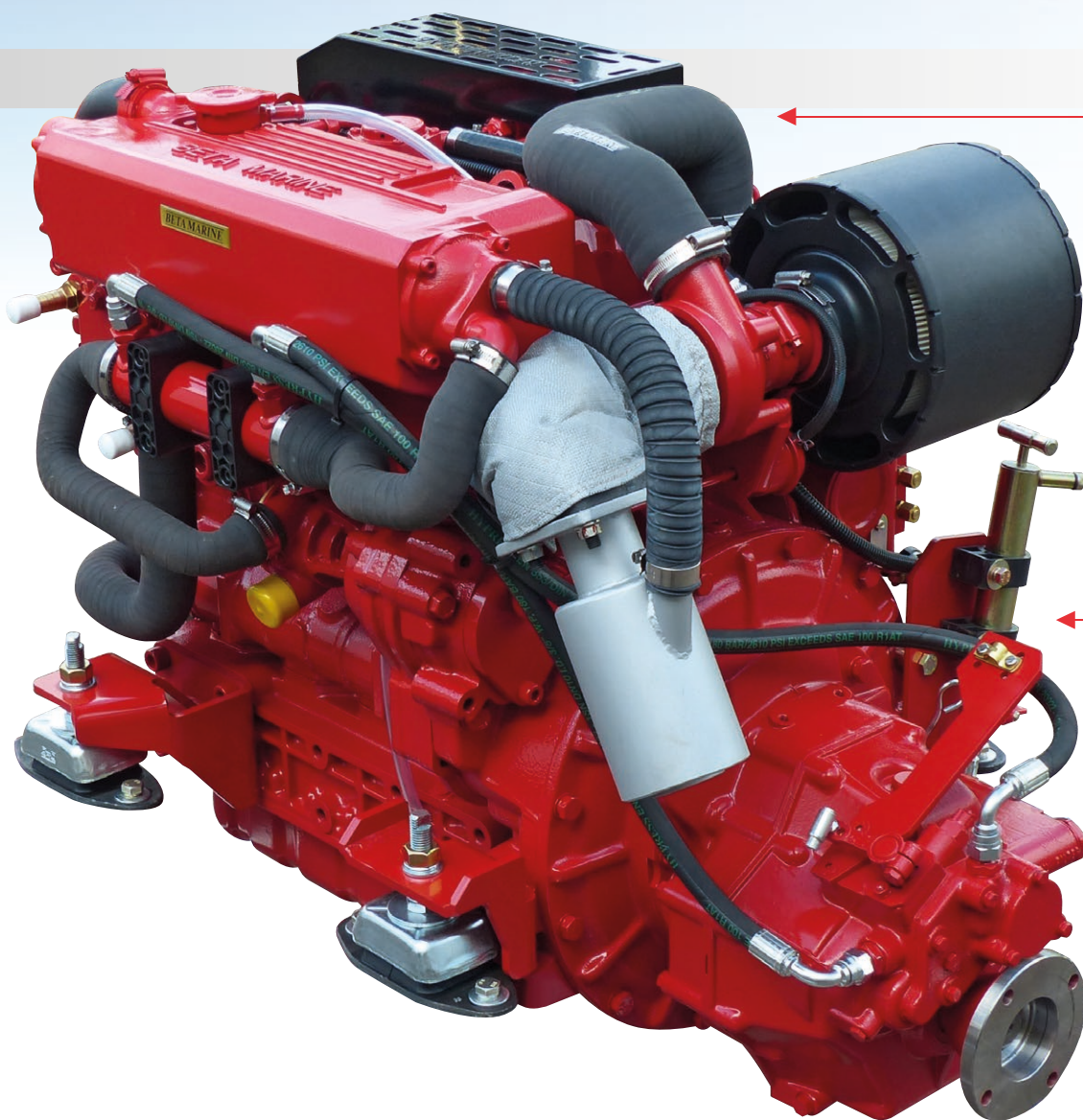
ZF

ZF25 - Hydraulic	Std.
ZF25A - 8° Down Angle, Hydraulic	Std.
ZF45 - Hydraulic	Opt.
ZF45A - 8° Down Angle, Hydraulic	Opt.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

Beta 85T








BETA MARINE

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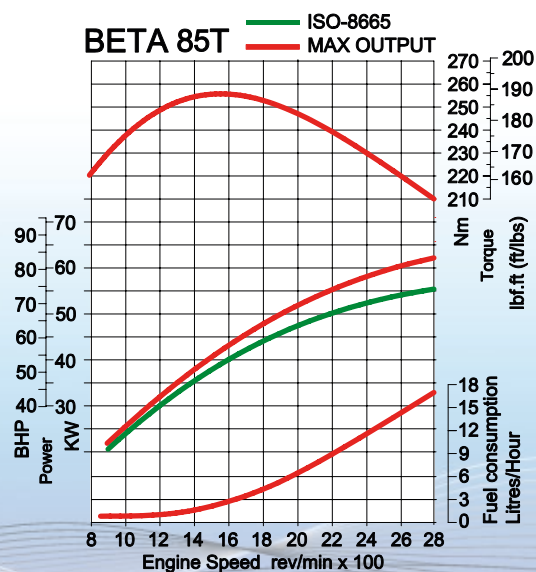
YEAR 'SELF-SERVICE'
ENGINE WARRANTY

Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	3331cc
	Power	85hp max @ 2,800rpm
	Weight	359Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.

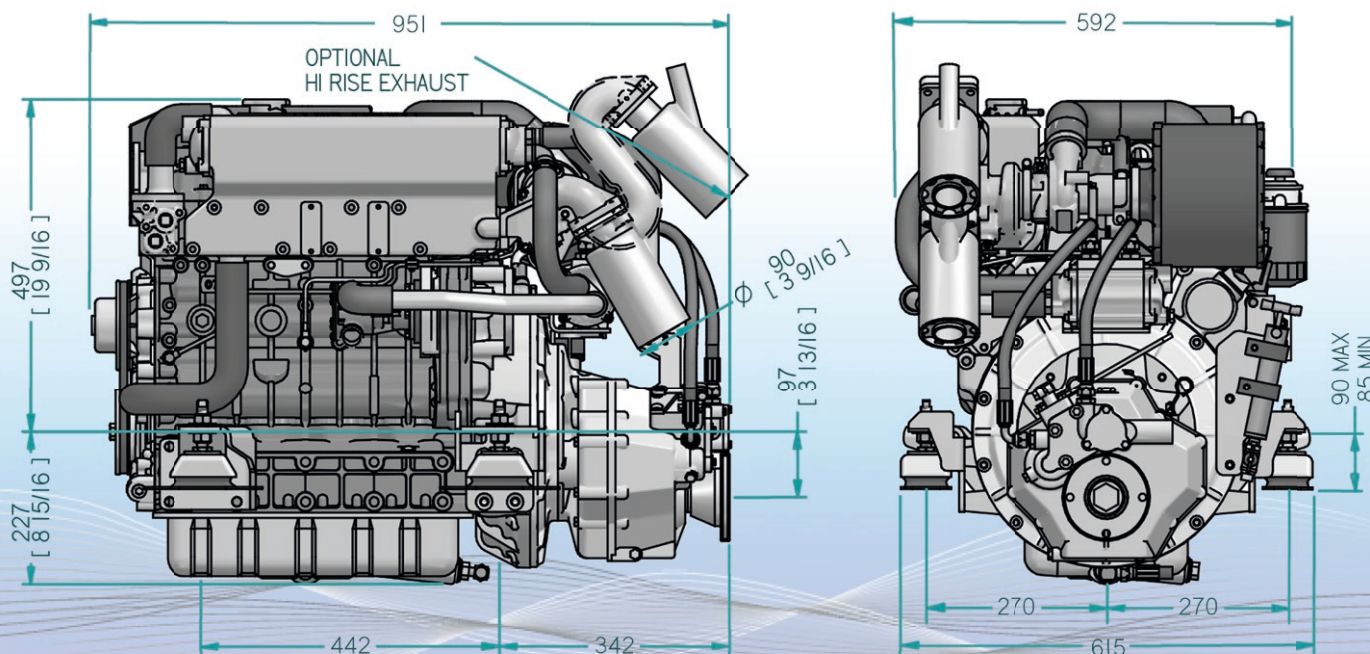


Gearbox Options

Bobtail - No Gearbox	
"Bobtail" Engine with Drive Plate and Housing Only	Std.

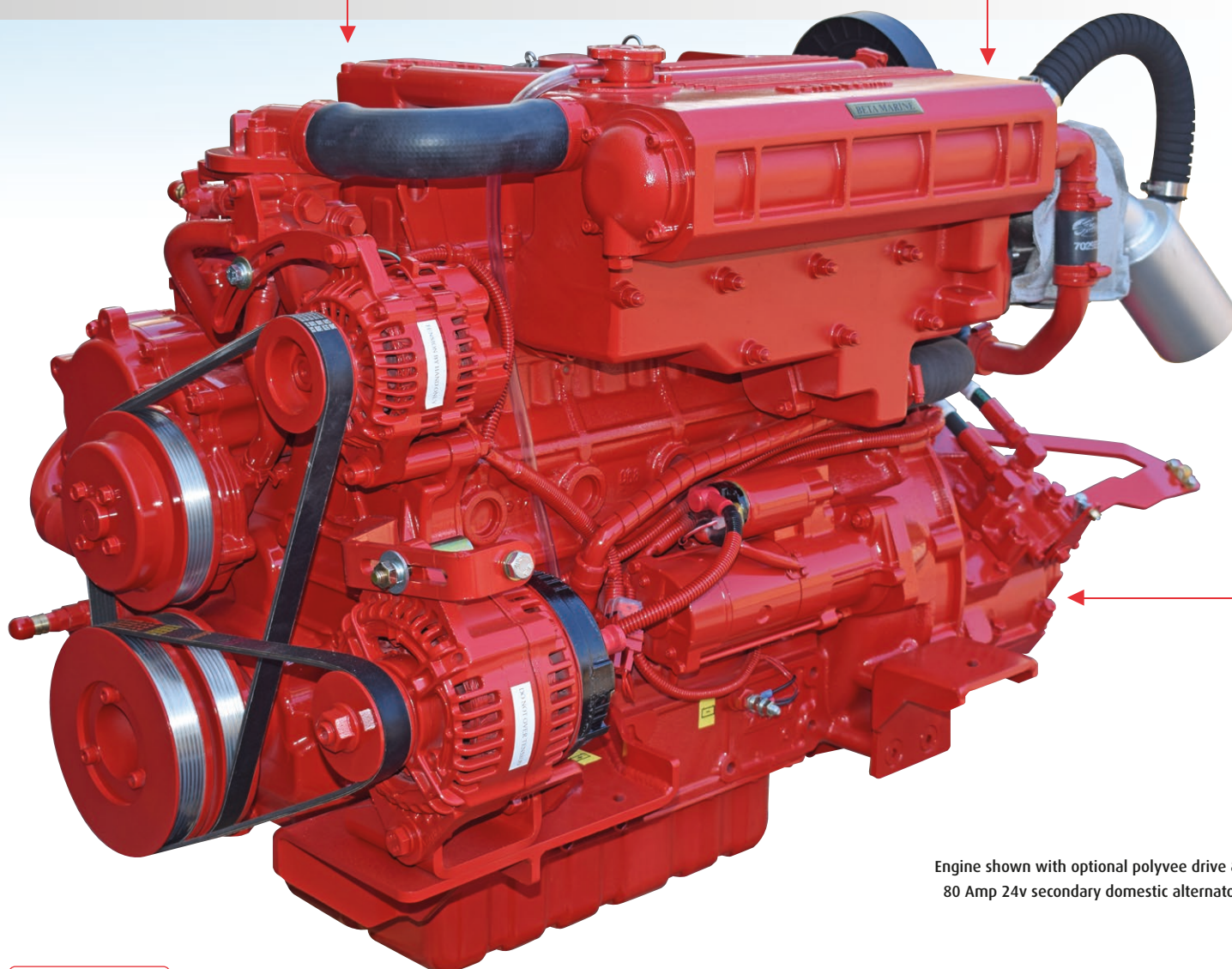
Technodrive / Twin Disc	
TM345 - Hydraulic	Std.
TM345A - 8° Down Angle, Hydraulic	Opt.
TM93 - Hydraulic	Opt.
TM93A - 8° Down Angle, Hydraulic	Opt.

PRM Marine	
PRM280 - Hydraulic	Std.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.
ZF	
ZF45 - Hydraulic	Std.
ZF45A - 8° Down Angle, Hydraulic	Std.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

Beta 90T








Engine shown with optional polyvee drive & 80 Amp 24v secondary domestic alternator

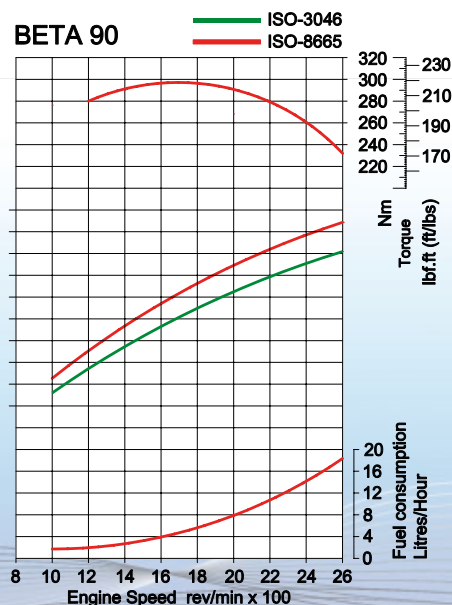


Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	3620cc
	Power	90hp max @ 2,600rpm
	Weight	425Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

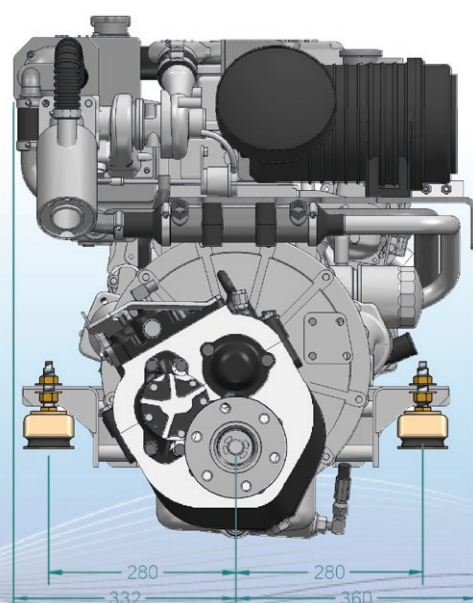
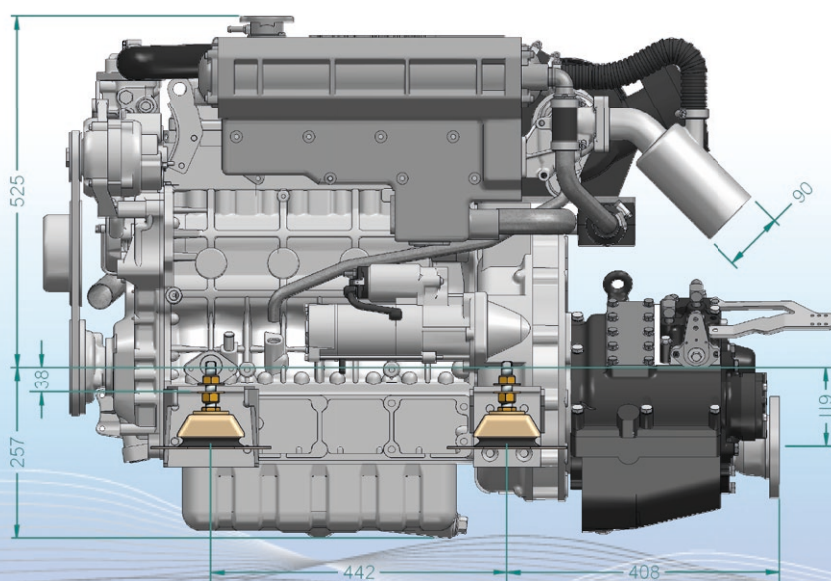
24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

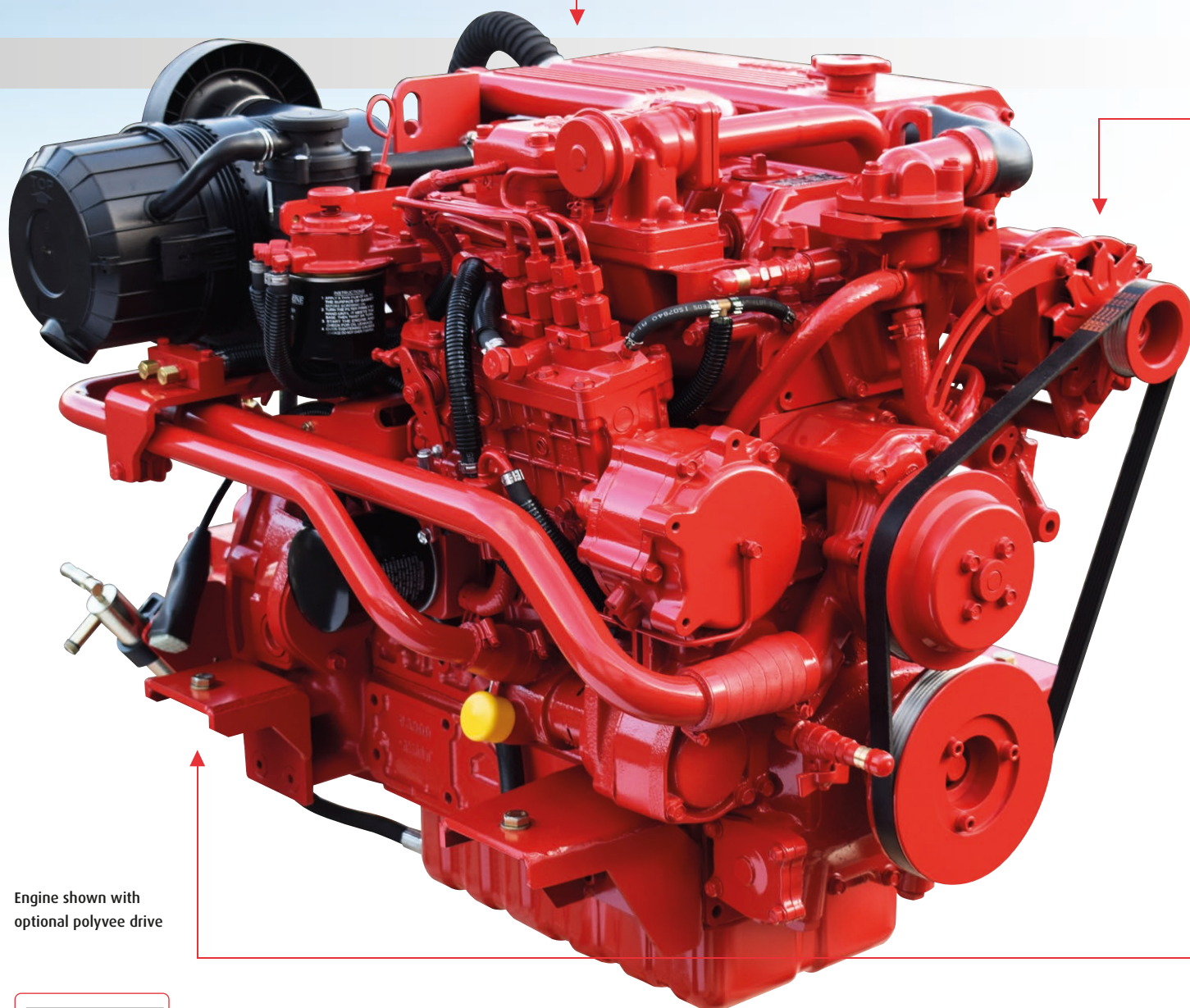
Bobtail - No Gearbox	
"Bobtail" Engine with Drive Plate and Housing Only	Std.
Technodrive / Twin Disc	
TM93 - Hydraulic	Std.
TM93A - 8° Down Angle, Hydraulic	Opt.

PRM Marine	
PRM280 - Hydraulic	Std.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.
ZF	
ZF45 - Hydraulic	Std.
ZF45A - 8° Down Angle, Hydraulic	Std.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct

Beta 105T



Engine shown with optional polyvee drive






BETA MARINE

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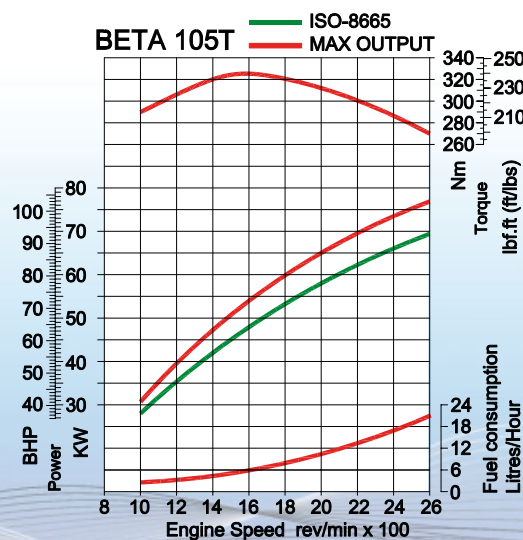
YEAR 'SELF-SERVICE'
ENGINE WARRANTY

Recreational use only

Kubota Base Engine

	Cylinders	4
	Displacement	3769cc
	Power	98hp max @ 2,600rpm
	Weight	425Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

Bobtail - No Gearbox

"Bobtail" Engine with Drive Plate and Housing Only Std.

Technodrive / Twin Disc

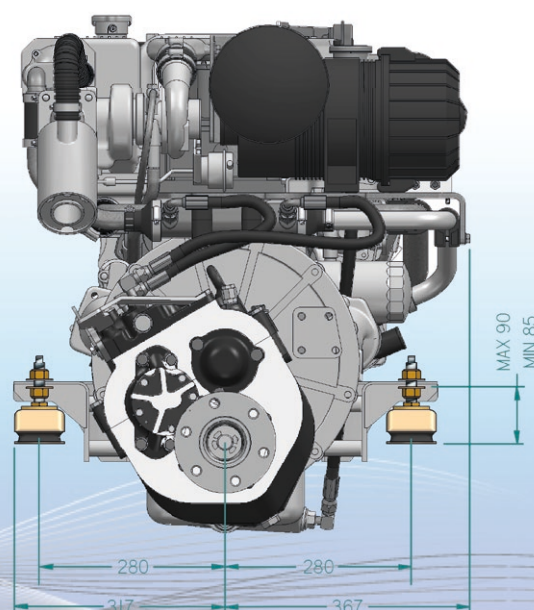
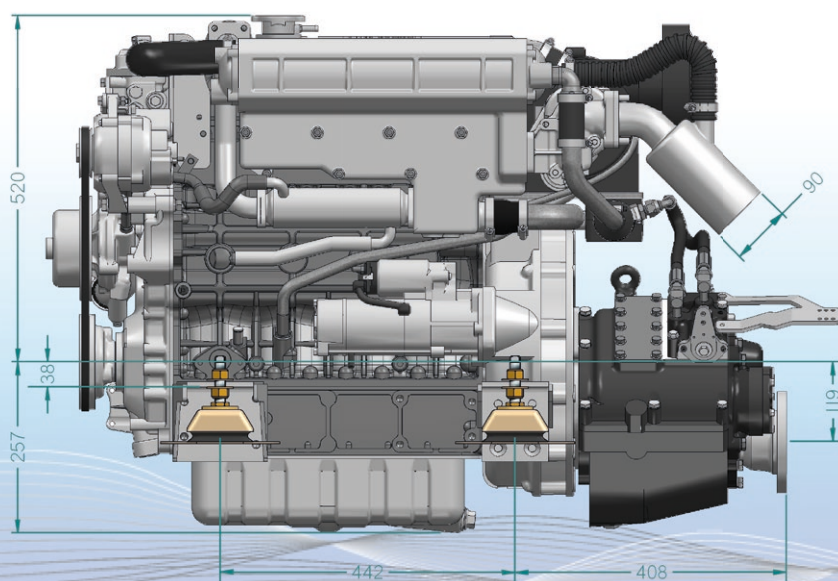
TM93 - Hydraulic	Std.
TM93A - 8° Down Angle, Hydraulic	Opt.

PRM Marine

PRM280 - Hydraulic	Std.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.

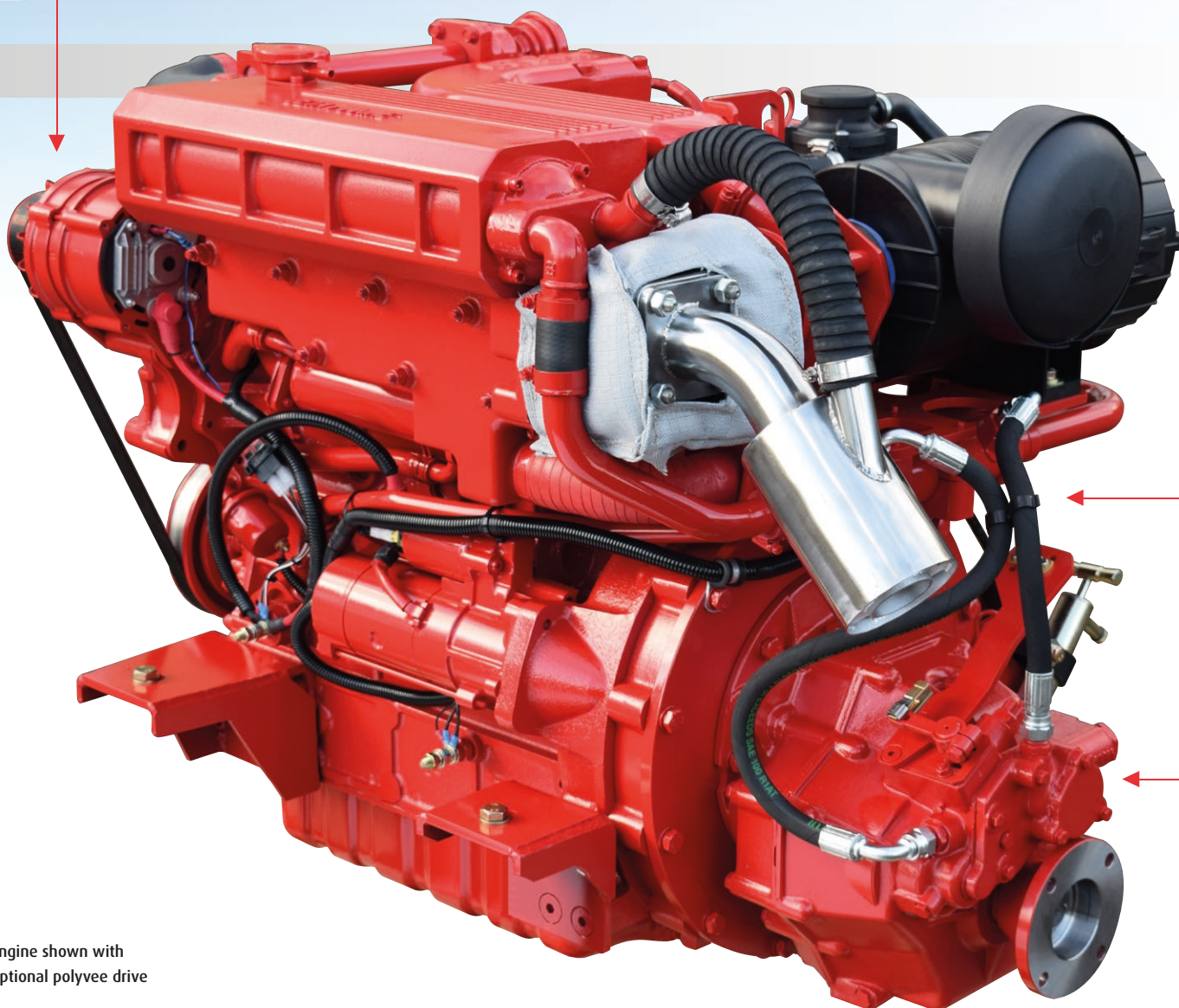
ZF

ZF45 - Hydraulic	Std.
ZF45A - 8° Down Angle, Hydraulic	Std.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option drawings or contact Beta Marine direct






Beta 115T



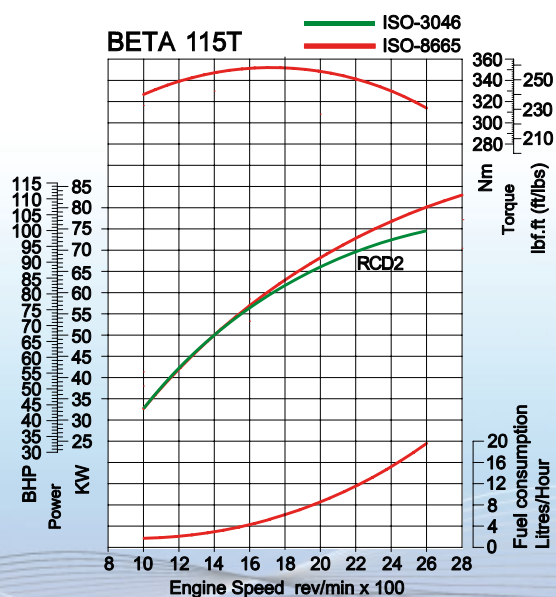
Engine shown with optional polyvee drive

The Beta 115 is not RCD2 compliant and is for use by and only to be sold to Non-Recreational Craft up to 24m in length.

Kubota Base Engine

	Cylinders	4
	Displacement	3769cc
	Power	115hp max @ 2,800rpm
	Weight	425Kg
	Propeller	AIA*

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

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

CW Deluxe Panel	Opt.
D Digital Panel	Opt.
Flybridge Control - Additional	
C Panel & 6m Connection Cable	Opt.



Electrical Options

70 Amp, 12 Volt Alternator	Std.
120 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
175 Amp, 12 Volt Alternator in Lieu of Standard	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.
100 Amp, 12 Volt Insulated Return Alternator	Opt.
175 Amp, 12 Volt Secondary Domestic Alternator	Opt.

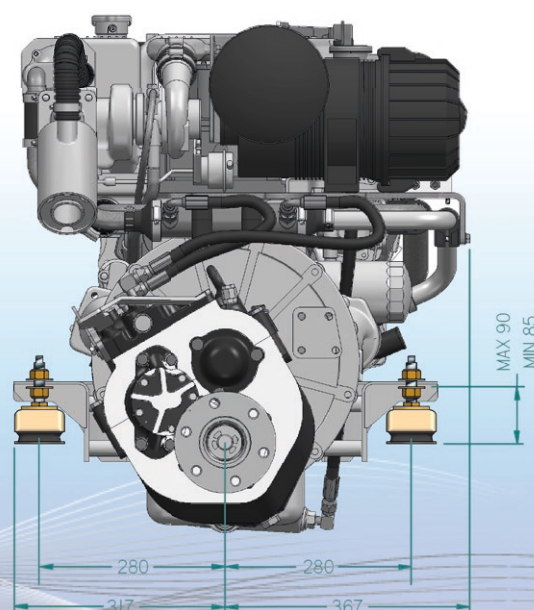
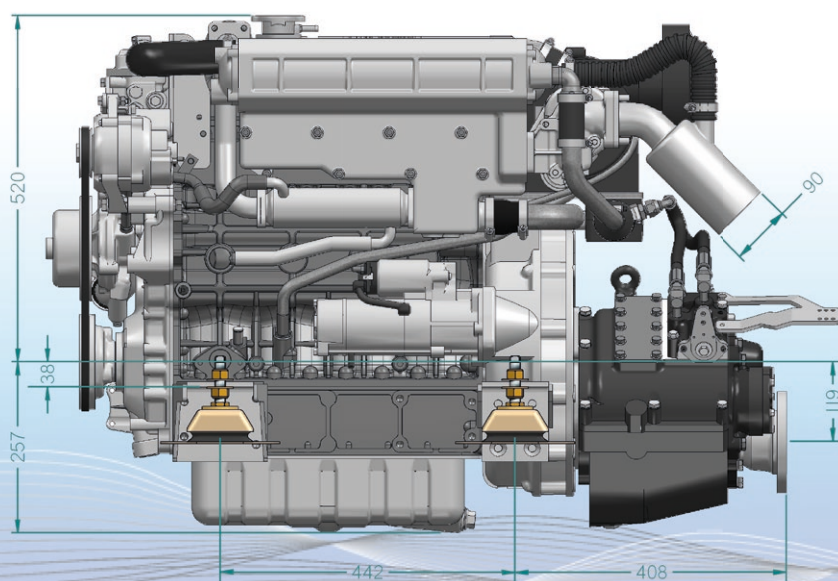
24 Volt Electric Start and 55 Amp Alternator	Opt.
80 Amp, 24 Volt Secondary Domestic Alternator	Opt.
60 Amp, 24 Volt Secondary Domestic Insulated Return Alternator	Opt.
3.5 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.
5.0 kVA Travel Power - 230 Volt, Single Phase 50Hz	Opt.



Gearbox Options

Bobtail - No Gearbox	
"Bobtail" Engine with Drive Plate and Housing Only	Std.
Technodrive / Twin Disc	
TM93 - Hydraulic	Std.
TM93A - 8° Down Angle, Hydraulic	Opt.

PRM Marine	
PRM280 - Hydraulic	Std.
PRM260C - In-line Hydraulic	Opt.
PRM500 - Hydraulic	Opt.
ZF	
ZF45 - Hydraulic	Std.
ZF45A - 8° Down Angle, Hydraulic	Std.
ZF68IV - 12° V Drive, Hydraulic	Std.



These are typical dimensions: visit our website for all engine / gearbox option 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.



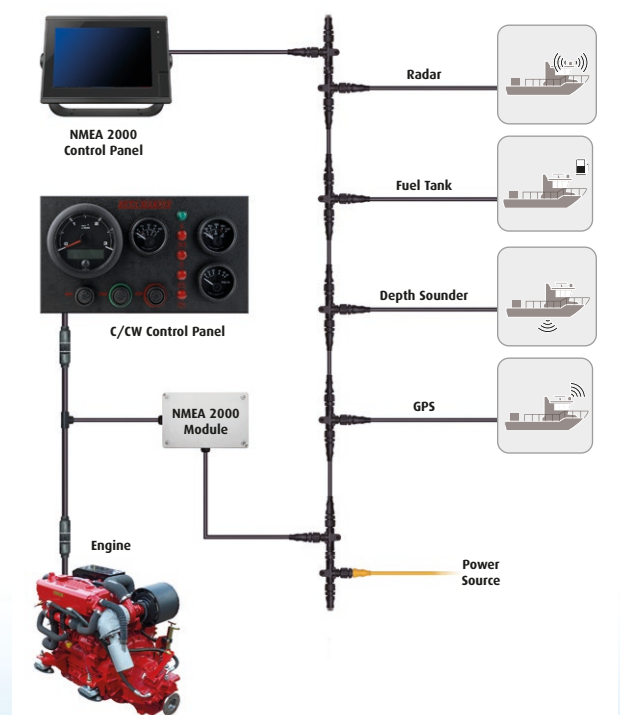
Control Panels

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.



Optional 'C/CW' - NMEA 2000 Module



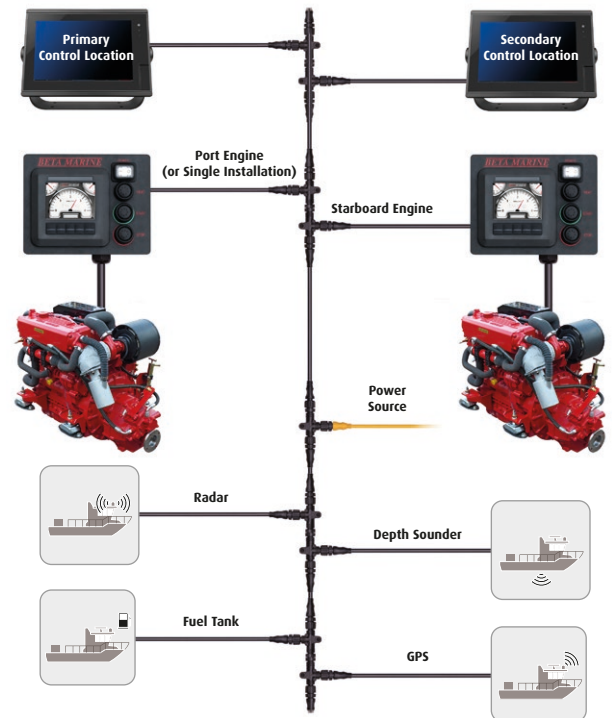
Beta Marine & Actisense have developed an interconnection module to facilitate an interface that will connect a Beta Marine C or CW engine control panel with an NMEA 2000 network. This module simply "T" connects between an engine and engine control panel & converts information to a NMEA 2000 network friendly format.

Which enables you to digitally monitor engine RPM, engine temperature, oil pressure or voltmeter reading from your NMEA 2000 control panel.

The interconnection module uses a standard Micro-C connection to allow data to be relayed and viewed all across your NMEA 2000 on-board network.

On vessels with twin engine installations it is possible to re-configure your NMEA 2000 network software to facilitate dual or independent viewing on network devices.

Optional Control Panel 'D' Digital

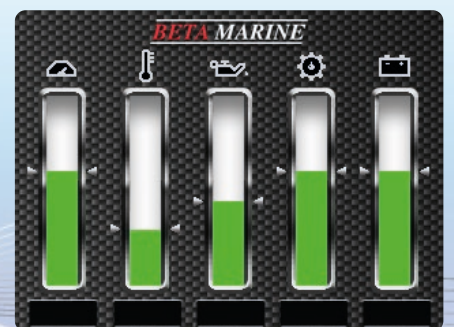


Our most technically advanced engine control/monitor whose module is water resistant to IP67 and has a super bright screen that facilitates viewing in both strong sunlight and also at night, simply select the appropriate setting to ensure that it is always easy on the eye.

As well as controlling the engine for preheat, start & stop at the press of a button it also allows you to digitally monitor engine RPM, engine temperature, oil pressure and provides a voltmeter for either single or twin alternator.

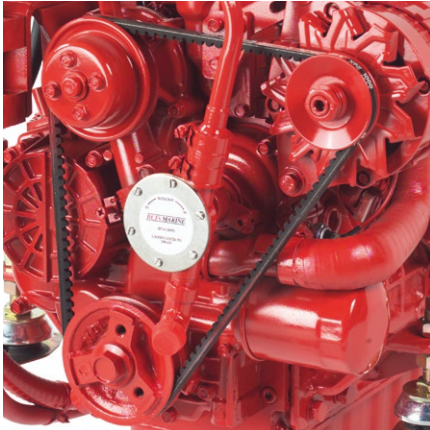
The panel uses standard Micro-C connection which allows data to be relayed and viewed all across your on-board network. It is compatible with NMEA 2000 & IEC 61162-3. On vessels with twin engine installations each engine control panel needs to be programmed as Port and Starboard to facilitate dual or independent viewing on other network devices.

Complete with 3m* of interconnection cable and multi pin plug connector.



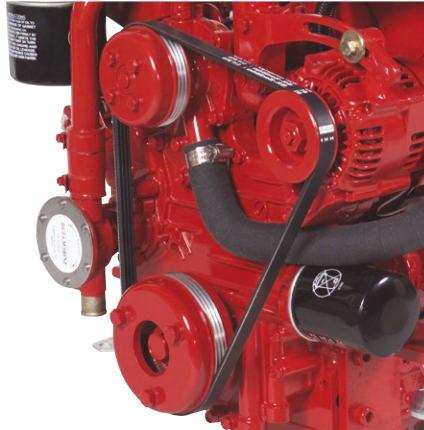
*Extension looms are available, please refer to our relevant price list

Electrical & Installation Options



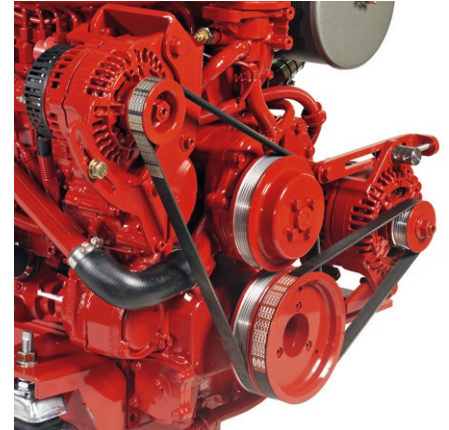
Standard Drive Belt Set Up

All Beta 43 - 115 hp engines are equipped with a standard 70 Amp alternator driven by an "A" profile drive belt.



Optional Drive Belt Set Up

All Beta 43 - 115 hp engines equipped with a standard 70 Amp alternator can be driven by an optional polyvee belt/pulley drive.



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.



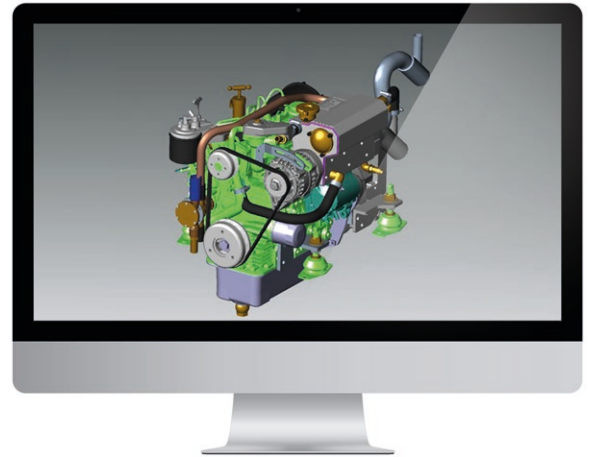
Optional Installation Accessories

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.

3D Computer Aided Design

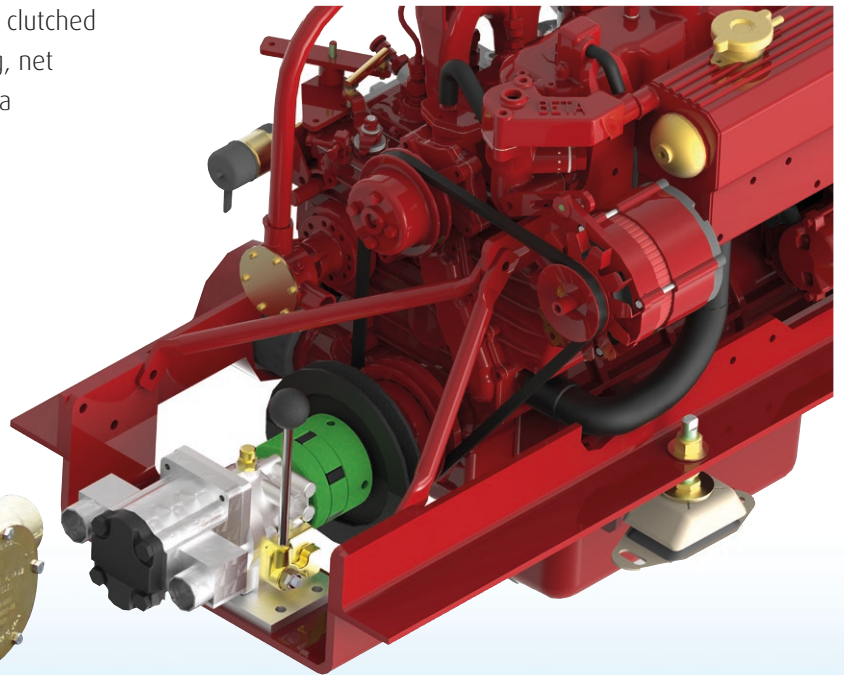
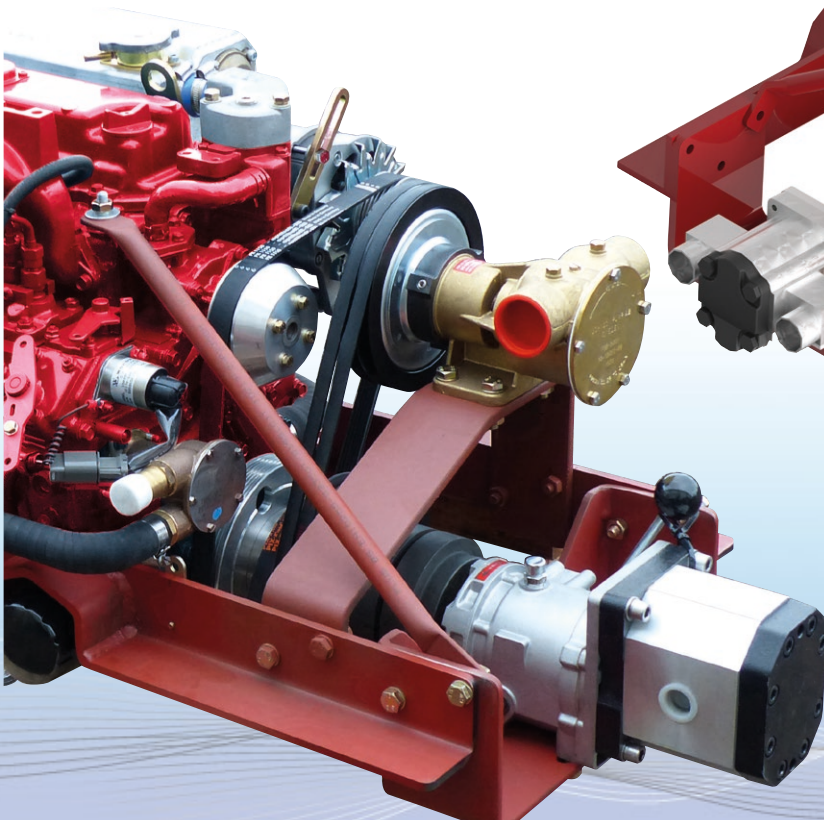
Beta Marine has continually and heavily, invested in state of the art 3D CAD software to ensure we are best placed to design, develop, stress test & create tooling to manufacture new products once they have successfully completed sea trials.

Additionally this investment has given us capacity to offer additional bespoke design services for both propulsion engines & generating sets to our customers, whether the need is recreational or for commercial offshore use.



Optional Hydraulic Pump Solutions

Beta Marine can design, manufacture, supply and install clutched or continuous running hydraulic pumps for deck washing, net trawling etc. Or we can design, manufacture and install a bespoke pump free issued by a customer.



Optional Power Take Off Solutions

Beta Marine can design, manufacture, supply and mount clutched or continuous running belt drive deck, bilge or air conditioning pumps etc. or alternatively design, manufacture and install PTO shafts and extended engine rails for the customer to self mount attachment's.

3D Computer Aided Design

Optional Special Feet Service

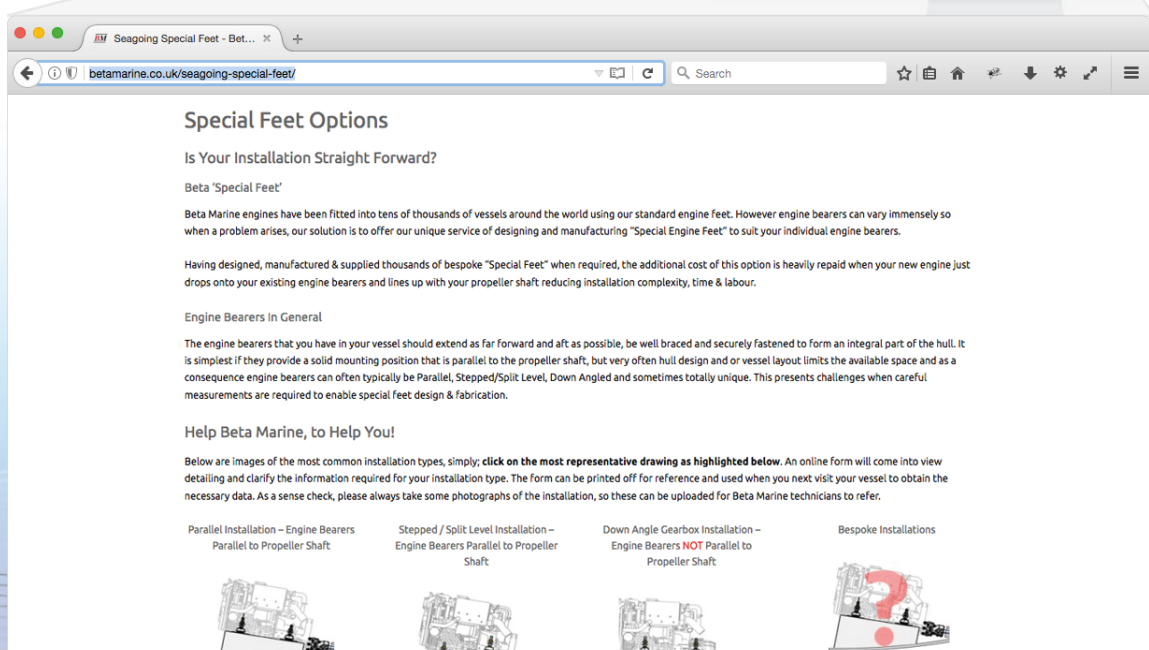
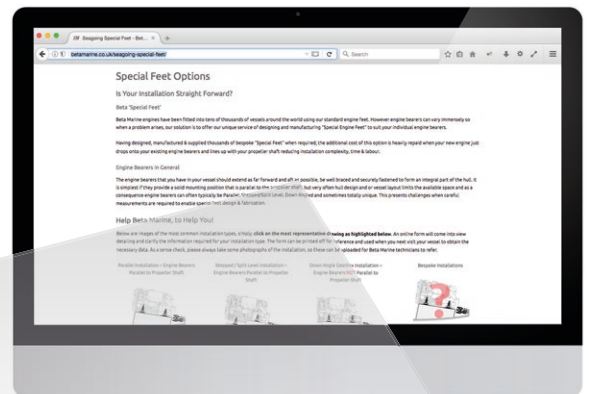
Beta Marine engines have been fitted into thousands of vessels around the world using our standard engine feet but when necessary we can design, manufacture and supply "Special Engine Feet" so that your engine drops straight onto your vessels existing engine bearers.

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, typically these are normally either Parallel, Stepped/Split Level or Down Angled. To help identify your vessels bearer type visit:

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

Click on the most representative drawing as highlighted below. 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.

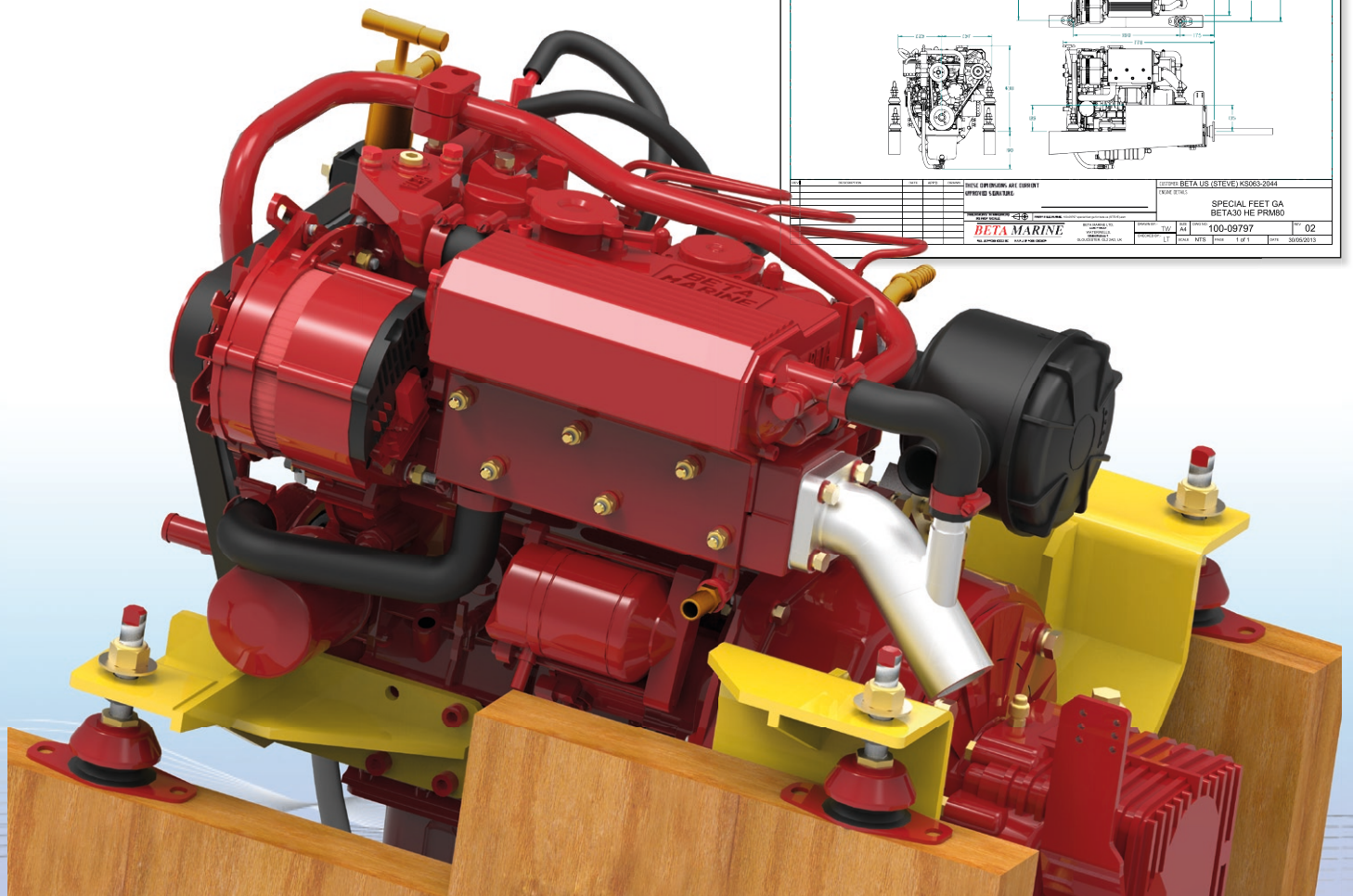
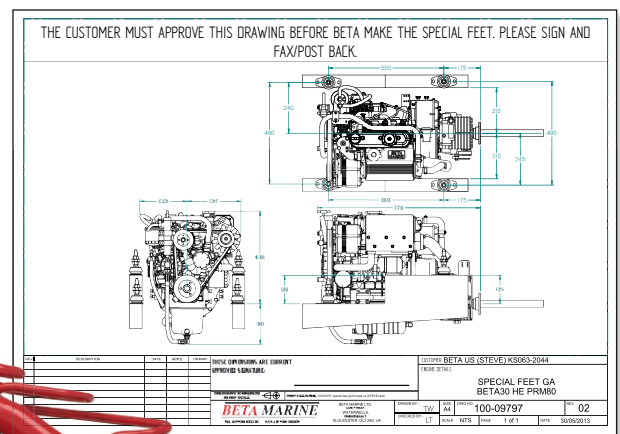
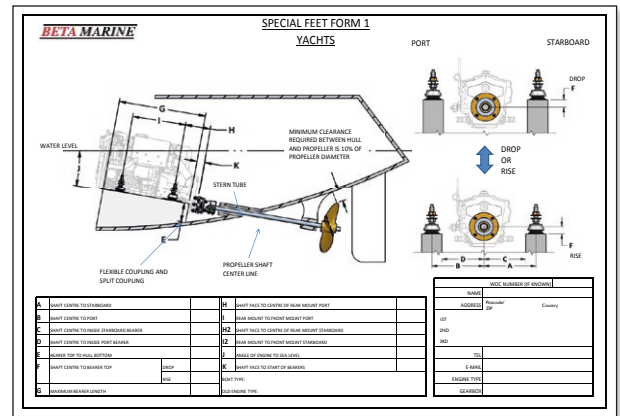


Step 2 – Approving Your Special Feet

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.



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

Saildrive Engine Range Heat Exchanger Cooled - Beta 14 to Beta 60



Using the renowned Kubota based diesel engines Beta Marine has developed 2 solutions for vessels that require saildrives.

Saildrive Solution 1: Replacement Engine & 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.

Engines are available from 13.5 hp up to 56 hp. For full information please refer/or request: **Saildrive Engine Range, Beta 14 - Beta 60**, Publication Ref: SB 221-004873

Saildrive Solution 2: Replacement Engine with Adaptor for Existing Saildrive Leg

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.

Notes...

Notes...



***BETA* MARINE**

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Ref: SB 221-06600 REV 17 - 1121