



RRP January 2022 Rev 00-i1
£ Sterling Ex VAT

Your needs...
...our tailored solutions.



Beta Kubota standard engine specification;

- Engine is with or without a gearbox as indicated within section 1, individual gearbox reduction ratios &/or optional extras available are indicated in section 2.
- Recreational craft directive emission compliant* & mechanically governed.
- Heat exchanger, header tank & water cooled exhaust manifold – Dry lagged on turbo charged variants.
- Fresh & sea water pump, stainless steel injection bend for wet exhaust.
- Mechanical fuel lift pump, fuel & oil filtration and sump pump.
- Flywheel housing & drive plate with heavy inertia ring for super smooth running at low rpm.
- Special quiet air intake filter.
- 12 volt starter with 70 amp battery charging alternator, V-belt driven.
- Shutdown solenoid energised to stop.
- Control Panel 'ABV' 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.
- Heavy duty engine feet with flexible mountings.
- "Morse" type end fittings for speed and gear control.
- Beta red paint
- Engine test certificate & operators manual.
- 5 year self-service warranty.*
- Tri-wall packing on a wooden base.

* Subject to installation criteria & warranty registration.

Engine Type	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
Cylinders	4	4	4	4T*	4	4T*	4T*	4T*	4T**
BHP	43	48.9	56	70	75	85	90	98	115
RPM	2800	2800	2700	2800	2600	2800	2600	2600	2800
Cubic Capacity	1999	2197	2434	2615	3620	3331	3620	3769	3769
Propellor Guide In Inches [^]	18 x 12	19 x 12	AIA ^^	AIA ^^	AIA ^^	AIA ^^	AIA ^^	AIA ^^	AIA ^^

* RCD2 Turbocharged Variants

** 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 .

[^] A general guidance for propeller sizes 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 specification.

£ STANDARD ENGINE/GEARBOX COMBINATIONS

1	Gearbox Type	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Twin Disc/Technodrive gearbox	8195	8560	10505	14030	13040	15405	15615	17180	18615
b	PRM hydraulic gearbox	9065	9430	10250	14200	13210	15575	15060	16625	18060
c	ZF mechanical gearbox	9695	10060	10880	N/A	N/A	N/A	N/A	N/A	N/A
d	ZF hydraulic gearbox	10730	11095	11915	15235	14020	16610	16095	17660	19095
e	ZF V drive gearbox	11050	11415	13630	17020	16030	18395	17880	19445	20880
f	"Bobtail" engine with drive plate & housing only - No gearbox	7360	7725	8545	12325	11335	13700	13185	14750	16185
g	"Bobtail" engine with drive plate & B W^^ housing only - No gearbox	8095	8460	9280	12625	11635	14000	13485	15050	16485
h	Price reduction allowance for keel cooling - dry exhaust stub	-270	-270	-270	-528	-528	-528	-528	-528	-528

NB - All mechanical gearboxes must be used with a right handed propeller in ahead excluding TMC60 when fitted with optional oil cooler refer 2a & b.

^^ For existing Borg Warner Velvet Drive gearboxes, please specify if 71C or 72C.

£ GEARBOX OPTIONAL EXTRAS

2	Technodrive Mechanical	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	TMC60 - 1.52* / 2.0 / 2.45 / 2.83* : 1	Inc	Inc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	TMC60 oil cooler for running LH propeller in ahead*	125	125	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	TMC60A 7° down angle - 2.0 / 2.45 : 1	Inc	Inc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
d	TMC260 - 2.0 / 2.47 / 2.88 : 1	850	850	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* 1.52 & 2.83 : 1 Cannot be used with an oil cooler & LH propeller

2	Technodrive Hydraulic	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
e	TM345 - 2.0 / 2.47 : 1	1125	1125	Inc	Inc	Inc	Inc	N/A	N/A	N/A
f	TM345A 8° down angle - 2.0 / 2.45 : 1	1225	1225	150	150	150	150	N/A	N/A	N/A
g	Trolling valve kit - TM345	625	625	625	625	625	625	N/A	N/A	N/A
h	TM93** - 2.09 / 2.4 / 2.77 : 1	N/A	N/A	N/A	725	725	725	Inc	Inc	Inc
i	TM93A 8° down angle - 2.09 / 2.4 : 1	N/A	N/A	N/A	760	760	760	200	200	200
j	Trolling valve kit - TM93	N/A	N/A	N/A	780	780	780	780	780	780

* Not applicable for TMC60A ** When installing an engine with a TM93 gearbox due to the oil pump position an R&D 2"

spacer bobbin may be required on the output coupling to allow installation of a split coupling. Please refer to section 3.

2	PRM Marine Hydraulic^	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
k	PRM150 - 2.09 / 2.83^^ : 1	Inc	Inc	Inc^^	N/A	N/A	N/A	N/A	N/A	N/A
l	PRM280 - 1.96 / 2.94 : 1	1005	1005	1005	Inc	Inc	Inc	Inc	Inc	Inc
m	PRM260C - In line* 1.96 / 2.94 : 1	1275	1275	1275	1050	1050	1050	1050	1050^^	N/A
n	PRM500 - 1.94 / 2.57 / 2.9 : 1	N/A	N/A	1935	825	825	825	825	825	825
o	Trolling valve kit - PRM280 / PRM500	1340	1340	1340	1340	1340	1340	1340	1340	1340
p	Hydraulic soft shift kit - PRM280 / PRM500 / PRM750	375	375	375	375	375	375	375	375	375
q	PRM280 / 500 live PTO to customers hydraulic pump SAE J774C**	515	515	515	515	515	515	515	515	515

^ c/w Special 2 stage quiet dampener. (Free wheeling propeller when sailing).

^^ Pleasure rating only

* Borg Warner Velvet Drive replacement.

** Continuously running.

2	ZF Mechanical	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
r	ZF25M - 1.88 / 2.27 / 2.74 : 1	Inc	Inc	Inc	N/A	N/A	N/A	N/A	N/A	N/A

2	ZF Hydraulic^	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
s	ZF25 - 1.97 / 2.8 : 1	Inc	Inc	Inc	N/A	Inc	N/A	N/A	N/A	N/A
t	ZF25A 8° down angle - 1.92 / 2.29 / 2.71 : 1	Inc	Inc	Inc	N/A	Inc	N/A	N/A	N/A	N/A
u	ZF45/1 - 2.2 / 2.5 / 3.0 : 1	N/A	865	865	Inc	225	Inc	Inc	Inc	Inc
v	ZF45A 8° down angle - 2.03 / 2.43 : 1	N/A	865	865	Inc	225	Inc	Inc	Inc	Inc

^ Free wheeling propeller when sailing.

2	ZF V Drive Mechanical ^	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
w	ZF15MIV 15° - 2.13 : 1*	Inc	Inc	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2	ZF V Drive Hydraulic ^	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
x	ZF63IV 12° - 1.99 / 2.48 : 1	1395	1395	Inc	Inc	Inc	Inc	Inc	Inc	Inc

^ Flexible coupling required but not included please refer to section 3.

* 2.72:1 available to special order.

£ GEARBOX - OPTIONAL EXTRA PROPELLER SHAFT COUPLINGS

3	R & D Flexible Disc	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	4" Flange	90	90	90	N/A	N/A	N/A	N/A	N/A	N/A
b	5" Flange - PRM280, TM345 & TM93	160	160	160	160	160	160	160	160	160
c	6" Flange - PRM500	N/A	N/A	277	277	277	277	277	277	277
d	Flexible coupling assembly for ZF15MIV - inc 5" Flange	515	515	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	R & D Split Boss Clamp	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
e	4" Stocked bore options; 1" & 25mm	94	94	94	N/A	N/A	N/A	N/A	N/A	N/A
f	4" Special order bore options; 3/4, 11/4, 11/2" or 22, 30, 35mm	135	135	135	N/A	N/A	N/A	N/A	N/A	N/A
g	5" Special order bore options; 1, 11/4, 11/2, 13/4, 2" or 30, 35, 40, 45 & 50mm	168	168	168	168	168	168	168	168	168
h	6" Special order bore options; 11/4, 11/2, 13/4, 2, 21/2" or 30, 35, 40, 45, 50 & 60mm	N/A	N/A	205	205	205	205	205	205	205
i	Surcharge for "non standard special" bores	45	45	45	45	45	45	45	45	45
j	2" Spacer bobbin for TM93	N/A	N/A	N/A	133	133	133	133	133	133
3	Centaflex Coupling*	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
k	Type 16 bored to suit; 1, 11/4, 11/2, 13/4" or 25, 30, 35 & 40mm	515	515	515	N/A	N/A	N/A	N/A	N/A	N/A
l	AM-30/50 bored to suit; 11/4, 11/2, 13/4, 2" or 25, 30, 35, 40, 45 & 50mm	780	780	780	810	810	810	810	810	810
3	CV Drives	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
m	Heavy duty drive plate**	POA	POA	POA	POA	POA	POA	POA	POA	POA

* Option negates the requirement for a R & D Flexible Disc or Split Boss Clamp.

** Required when fitting Aquadrive / Python constant velocity drives.

£ CONTROL PANEL OPTIONAL EXTRAS

4	Control Panel	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	ABVW Panel - Sealed push buttons in lieu of key switch^	80	80	80	85	85	85	85	85	85
b	B Panel - As ABV plus water temperature gauge^	120	120	120	120	120	120	120	120	120
c	BW Panel - Sealed push buttons in lieu of key switch^	200	200	200	220	220	220	220	220	220
d	C Panel - As panel B plus oil pressure gauge & voltmeter^	250	250	250	280	280	280	280	280	280
e	CW Panel - Sealed push buttons in lieu of key switch^	380	380	380	410	410	410	410	410	410
f	Flybridge control – C panel with 3m interconnection cable* and standard panel with 6m interconnection cable* for the Flybridge.	650	650	650	925	750	925	750	750	750
g	C/CW Panel - NMEA 2000 Module/Interface	675	675	675	675	675	675	675	675	675
h	D Panel - Digital, water resistant to IP67^	775	775	775	815	815	815	815	815	815

^ Complete with 3m interconnection cable * and multi pin connector

* Additional lengths of cable available, please add £10 for each additional meter required.

£ CONTROL PANEL OPTIONAL EXTRAS

4	Control Panel	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
i	Extension loom**, includes starter relay & 2m cable*	95	95	95	95	95	95	95	95	95

^ Complete with 3m interconnection cable * and multi pin connector

* Additional lengths of cable available, please add £10 for each additional meter required.

** An additional extension loom is required when a panel interconnection cable length exceeds 4m

£ ENGINE OPTIONAL EXTRAS

5		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Calorifiers - Feed & return*	35	35	35	35	35	35	35	35	35
b	Shallow sump - Fitted	225	225	225	N/A	N/A	N/A	N/A	N/A	N/A
c	Sump drain pump - Additional connection to PRM gearbox	62	62	62	62	62	62	62	62	62
d	Standard stainless steel injection bend	Inc	Inc	Inc	Inc	N/A	Inc	Inc	Inc	Inc
e	125mm high rise exhaust elbow adaption - in lieu of standard	N/A	N/A	N/A	800	N/A	800	N/A	N/A	N/A
f	Stainless steel injection bend with 150mm rise lagging included - in lieu of standard	175	175	175	N/A	Inc	N/A	N/A	N/A	N/A
g	Stainless steel high rise cross over to starboard injection bend with 200mm rise lagging included - in lieu of standard	175	175	175	N/A	N/A	N/A	N/A	N/A	N/A
h	Volvo style stainless steel 140mm high rise injection bend, cross over to starboard lagging included - in lieu of standard	175	175	175	N/A	N/A	N/A	N/A	N/A	N/A
i	Rear facing sea water pump	550	550	550	Inc	Inc	Inc	Inc	Inc	Inc
j	Stern bleed kit c/w 3m hose	50	50	50	50	50	50	50	50	50
k	Shaft extension PTO - Gear end mounted 38mm shaft dia.	128	128	128	128	128	128	128	128	128
l	Extended Rails - For mounting forward end pumps etc.	385	385	385	385	385	385	385	385	385
m	Free issued fitting of customers hydraulic pump in-line, forward end**	950	950	950	950	950	950	950	950	950
n	Bilge pump c/w 1" Seawater pump, belt, pulley & electromagnetic clutch**	923	923	923	923	923	923	923	923	923
o	Mounting for Sea Frost Compressor	575	575	575	575	575	575	575	575	575
p	Engine Ensis & Calibration fluid - For extended storage protection beyond 6mths	72	72	72	72	72	72	72	72	72

* Taps available if required for Beta 43, 50 & 60. Standard fitment for Beta 70T, 75, 85T, 90T, 105T & 115T

** Includes rails & PTO shaft extension.

£ INSTALLATION OPTIONAL EXTRAS

6		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Water inlet kit - Seacock with strainer & 2m pipe with clips	280	280	280	305	305	305	305	305	305
b	Wet exhaust kit - 3m of exhaust hose, skin fitting & clips. NB Gooseneck not included	250	250	250	395	395	395	395	395	395
c	Wet exhaust waterlock/silencer & clips	92	92	92	293	293	293	293	293	293
d	Anti-syphon kit - Air vent, 2m of 22mm hose & clips	135	135	135	135	135	135	135	135	135
e	Remote mounted coolant header tank kit - Tank, mount fittings, 1.5m x 3/4" pipe & clips	129	129	129	129	129	129	129	129	129
f	Fuel hoses for remote mounting of fuel filter - 1m x 2	16	16	16	16	16	16	16	16	16
g	Flexible fuel pipe connections - Engine 40cm x 2	78	78	78	78	78	78	78	78	78
h	Fuel delivery kit - 5m x 8mm copper pipe & end fittings. From tank to flexible pipe	60	60	60	60	60	60	60	60	60
i	Fuel leak off kit - 5m x 8mm copper pipe & end fittings. From flexible pipe to fuel tank	60	60	60	60	60	60	60	60	60
j	Diesel fuel filter - Water separator	59	59	59	59	59	59	59	59	59
k	Electric fuel lift pump	86	86	86	86	86	86	86	86	86
l	Remote oil filter - Bulk head mounted inc 75cm of pipe	245	245	245	245	245	245	245	245	245
m	Sound deadening insulation foam - 1m x 1m x 38mm	77	77	77	77	77	77	77	77	77

£ ENGINE CONTROL OPTIONAL EXTRAS

7		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Single lever control - For engine & gearbox, side mounted	115	115	115	115	115	115	115	115	115
b	1 Pair of 3m control cables *	41	41	41	41	41	41	41	41	41

* Cables can be supplied in different lengths, price on application.

£ ELECTRICAL OPTIONAL EXTRAS - NB Minimum recommended battery: Not included.

8		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
12v	94Ah 620CCA	✓	✓	✓	—	—	—	—	—	—
12v	180Ah 1050CCA	—	—	—	✓	✓	✓	✓	✓	✓
8		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Battery leads - 1m pair	60	60	60	100	100	100	100	100	100
b	100 Amp Battery isolating switch	45	45	45	45	45	45	45	45	45
c	Flat Polyvee belt & pulleys - fitted to standard 70 Amp alternator	112	112	112	210	210	210	210	210	210
d	120 Amp 12 Volt alternator in lieu of standard - Polyvee drive, no split charge relay	338	338	338	456	456	456	456	456	456
e	175 Amp 12 Volt alternator in lieu of standard - Polyvee drive, no split charge relay	528	528	528	538	538	538	538	538	538
f	70 Amp 12 Volt insulated return alternator - in standard position V belt drive	335	335	335	445	445	445	445	445	445
g	70 Amp 12 Volt insulated return alternator - in standard position Polyvee drive	445	445	445	575	575	575	575	575	575
h	100 Amp 12 Volt insulated return alternator - Polyvee drive, in standard position	625	625	625	755	755	755	755	755	755
i	175 Amp 12 Volt secondary domestic alternator - Polyvee drive	695	695	695	540	540	540	540	540	540
j	125 Amp 12 Volt split charging system - Voltage sensitive for engine & domestic batteries	87	87	87	87	87	87	87	87	87
k	24 Volt electric start & 55 Amp alternator	1690	1690	1690	1886	1886	1886	1886	1886	1886
l	80 Amp 24 Volt secondary domestic alternator	852	852	852	590	590	590	590	590	590
m	100 Amp 24 Volt secondary domestic insulated return alternator	1114	1114	1114	780	780	780	780	780	780
n	Mounting of customers free issue secondary domestic alternator	533	533	533	533	533	533	533	533	533
o	3.5kVA Travel Power* - engine mounted, 230 Volt, single phase 50Hz.	4410	4410	4410	5025	5025	5025	5025	5025	5025
p	5kVA Travel Power* - engine mounted, 230 Volt, single phase 50Hz.	5160	5160	5160	5570	5570	5570	5570	5570	5570

* Develops 230 Volt output @ varying engine RPM. The standard 12v or optional 24v battery starting alternator is retained.

£ CONSUMABLE OPTIONAL EXTRAS

9		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Short voyage spares kit - Plastic storage box c/w replacement; 2 x oil filters, 1 x fuel & air filter, impellor, anode, O - rings, alternator belt & 40 Amp fuse.	108	108	108	120	120	120	120	120	120

SUPPLEMENT ITEMS ARE STRICTLY NETT

£ BESPOKE ENGINE INSTALLATION SUPPLEMENTS - NET

10	Special Feet	Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Manufactured to suit your existing bearers & shaft alignment/installation*	360	360	360	360	360	360	360	360	360

* Customer to provide dimensions for computer aided design drawing.

£ SHIPPING SUPPLEMENTS - NET

11		Beta 43	Beta 50	Beta 60	Beta 70T	Beta 75	Beta 85T	Beta 90T	Beta 105T	Beta 115T
a	Supplement for wooden export packing case	254	254	254	292	292	292	292	292	292
b	2/3 Day delivery in UK mainland*	97	97	97	117	117	117	117	117	117

Beta Marine Ltd operates a policy of continuous improvement and reserves the right to change prices & specification without prior notification. Information given is subject to our current conditions of tender & sale.

Beta Marine Limited, Davy Way, Waterwells, Quedgeley, Gloucester, GL2 2AD. UK.

Web: www.betamarine.co.uk

Email: sales@betamarine.co.uk

Tel: + 44 (0) 1452 723 492