



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.
- Fresh & sea water pump, 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 40 amp battery charging alternator and "Polyvee" drive, Beta 10 – 25 HP or;
- 12 volt starter with 70 amp battery charging alternator and "Polyvee" drive, Beta 30 – 45 HP.
- 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, flexible coupling disc\* on gearbox.
- "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.

\* Excluding Beta 10, which has no sump pump, or flexible coupling disc & control panel "A" is substituted in lieu of "ABV" panel.

\*\* Subject to installation criteria & warranty registration.

Engine Type	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45
Cylinders	2	2	2	3	3	3	4	4	4T
BHP	10	13.5	16	20	25	30	35	38	45
RPM	3000	3600	3600	3600	3600	3600	2800	3600	3000
Cubic Capacity	479	479	599	719	898	1123	1498	1498	1498
Propellor Guide In Inches	12 x 9	12 x 9	13 x 8	13 x 9	14 x 8	15 x 9	16 x 11	16 x 8	17 x 11

^ 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 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	Twin Disc/Technodrive mechanical gearbox	4530	4820	5090	5435	5835	6580	7365	7580	8600
b	Twin Disc/Technodrive TMC60A - 7° down angle gearbox	N/A	5095	5365	5710	6110	6855	7365	7580	8600
c	PRM Marine mechanical gearbox	4540	4830	5100	5445	5845	6835	7545	7760	N/A
d	PRM Marine hydraulic gearbox	5965	6255	6525	6870	7270	7690	8200	8415	9435
e	ZF V drive gearbox	N/A	8230	8500	8845	9245	9800	10310	10525	11545
f	"Bobtail" engine with drive plate & housing only - No gearbox	N/A	4195	4465	4810	5210	5950	6460	6675	7695
g	"Bobtail" engine with drive plate & B W^^ housing only - No gearbox	N/A	N/A	N/A	N/A	N/A	6650	7160	7375	8395

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

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

**£ STANDARD ENGINE/GEARBOX COMBINATIONS**

1	Gearbox Type	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
h	Price reduction allowance for keel cooling - dry exhaust stub	-112	-112	-112	-112	-112	-220	-230	-230	-230

**£ GEARBOX OPTIONAL EXTRAS**

2	Technodrive Mechanical	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	TMC40 - 1.5 / 2.0 / 2.6 : 1	Inc	Inc	Inc	Inc	Inc	Inc	N/A	N/A	N/A
b	TMC60 - 1.52* / 2.0 / 2.45 / 2.83* : 1	N/A	275	275	275	275	275	Inc	Inc	Inc
c	TMC60 oil cooler for running LH propeller in ahead*	N/A	125	125	125	125	125	125	125	125
d	TMC60A 7° down angle - 2.0 / 2.45 : 1	N/A	Inc							

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

2	PRM Marine Mechanical	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
e	PRM60 - 2.04 / 2.5 : 1	Inc	Inc	Inc	Inc	Inc	N/A	N/A	N/A	N/A
f	PRM90 - 2.04 / 2.5 : 1	200	200	200	200	200	Inc	N/A	N/A	N/A
g	PRM125 - 2.04 / 2.5 / 2.94 : 1	350	350	350	350	350	200	Inc	Inc	N/A

2	PRM Marine Hydraulic^	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
h	PRM150 - 2.09 / 2.83 : 1	Inc								
i	PRM280 1.96 / 2.94 : 1	N/A	N/A	N/A	N/A	N/A	1100	1100	1100	1100
j	PRM280 / 260 hydraulic Soft-shift kit	N/A	N/A	N/A	N/A	N/A	375	375	375	375
k	PRM280 live PTO to customers hydraulic pump SAE J774C**	N/A	N/A	N/A	N/A	N/A	515	515	515	515

\* Not applicable for TMC60A

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

\*\* continuously running.

2	ZF V Drive Mechanical ^^	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
m	ZF15MIV - 2.13 : 1*	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 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	4" Flange	90	Inc							
b	5" Flange for PRM280	N/A	N/A	N/A	N/A	N/A	70	70	70	70
c	Flexible coupling assembly for ZF15MIV - inc 5" Flange	515	423	423	423	423	423	423	423	423

3	R & D Split Boss Clamp	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
d	4" Stocked bore options; 1" & 25mm	94	94	94	94	94	94	94	94	94
e	4" Special order bore options; 3/4, 1 1/4, 1 1/2" or 22, 30, 35mm	135	135	135	135	135	135	135	135	135
f	5" Clamp special order bore options 3/4, 1, 1 1/4, 1 1/2" or 22, 25, 30, 35mm	N/A	N/A	N/A	N/A	N/A	168	168	168	168
g	Surcharge for "non standard special" bores	45	45	45	45	45	45	45	45	45

### £ GEARBOX - OPTIONAL EXTRA PROPELLER SHAFT COUPLINGS

3	Centaflex Coupling*	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
h	Type 12 bored to suit; 1", 1 1/2" or 20, 25, 30, 35 & 38mm	410	330	330	330	330	330	N/A	N/A	N/A
i	Type 16 bored to suit; 1", 1 1/2" or 20, 25, 30, 35 & 38mm	N/A	455	455	455	455	455	455	455	455
3	CV Drives	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
j	Heavy duty drive plate**	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 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	A Panel - Allowance, as ABV less tachometer & running hour recorder^	Inc	-130	-130	-130	-130	-130	-130	-130	-130
b	ABV Panel^	175	Inc							
c	ABVW Panel - Sealed push buttons in lieu of keyswitch^	246	80	80	80	80	80	80	80	80
d	B Panel - As ABV plus water temperature gauge^	325	130	130	130	130	130	130	130	130
e	BW Panel - Sealed push buttons in lieu of key switch^	395	200	200	200	200	200	200	200	200
f	C Panel - As panel B plus oil pressure gauge & voltmeter^	450	260	260	260	260	250	250	250	250
g	CW Panel - Sealed push buttons in lieu of key switch^	560	380	380	380	380	380	380	380	380
h	Flybridge control – C panel with 3m interconnection cable* and standard panel with 6m interconnection cable* for the Flybridge.	860	680	680	680	680	680	680	680	680
i	C/CW Panel - NMEA 2000 Module/Interface	675	675	675	675	675	675	675	675	675
j	D Panel - Digital, water resistant to IP67^	935	755	755	755	755	755	755	755	755
k	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.

### £ ENGINE OPTIONAL EXTRAS

5		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	Calorifier - Feed & return*	35	35	35	35	35	35	35	35	35
b	Short aft dipstick	N/A	N/A	N/A	N/A	N/A	25	25	25	25
c	Shallow sump - Fitted	112	112	112	112	112	166	187	187	187
d	Sump drain pump - Fitted	60	Inc							
e	Stainless steel injection bend in lieu of aluminium	115	115	115	115	115	115	115	115	Inc
f	Stainless steel injection bend with 150mm rise lagging included - in lieu of standard aluminium	175	175	175	175	175	175	175	175	245

\* Taps available if required

**£ ENGINE OPTIONAL EXTRAS**

5		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
g	Stainless steel high rise, cross over to starboard injection bend with 200mm rise lagging included - in lieu of standard aluminium Volvo style stainless steel	175	175	175	175	175	175	175	175	N/A
h	140mm high rise injection bend, cross over to starboard lagging included - in lieu of standard aluminium	175	175	175	175	175	175	175	175	N/A
i	Rear facing sea water pump	N/A	N/A	N/A	N/A	N/A	57	57	57	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 32mm shaft dia.	128	128	128	128	128	128	128	128	128
l	Extended Rails - For mounting forward end pumps etc. Includes Rear Facing Seawater Pump*	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***	875	875	875	875	875	875	875	875	875
o	Mounting for Sea Frost Compressor	N/A	533	533	533	533	533	533	533	533
p	Engine Ensis & Calibration fluid - For extended storage protection beyond 6mths	72	72	72	72	72	72	72	72	72

\* Beta 30, 35, 38 & 45T only.

\*\* Continuously running.

\*\*\* Includes rails & PTO shaft extension.

**£ INSTALLATION OPTIONAL EXTRAS**

6		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	Water inlet kit - Seacock with strainer & 2m pipe with clips	260	260	260	260	260	260	260	260	305
b	Wet exhaust kit - 3m of exhaust hose, skin fitting & clips. NB Gooseneck not included	250	250	250	250	250	250	250	250	395
c	Wet exhaust waterlock / silencer & clips	92	92	92	92	92	92	92	92	160
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

**£ INSTALLATION OPTIONAL EXTRAS**

6		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
i	Fuel leak off kit - 5m x 8mm copper pipe & end fittings . From flexible pipe to fuel	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 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
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 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
12v	70Ah 450CCA	✓	✓	✓	✓	✓	✓	✓	✓	✓
8		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	Battery leads - 1m pair	60	60	60	60	60	60	60	60	60
b	100 Amp Battery isolating switch	45	45	45	45	45	45	45	45	45
c	40 Amp 12 Volt alternator - Polyvee drive	Inc	Inc	Inc	Inc	Inc	N/A	N/A	N/A	N/A
d	70 Amp 12 Volt alternator - Polyvee drive	N/A	N/A	N/A	N/A	N/A	Inc	Inc	Inc	Inc
e	75 Amp 12 Volt alternator in lieu of standard - Polyvee drive, no split charge relay	195	195	195	195	195	N/A	N/A	N/A	N/A
f	120 Amp 12 Volt alternator in lieu of standard - Polyvee drive, no split charge relay	272	272	272	272	272	135	135	135	135
g	70 Amp 12 Volt insulated return alternator - Polyvee drive, in standard position	695	515	515	515	515	355	355	355	355
h	100 Amp 12 Volt insulated return alternator - Polyvee drive, in standard position	N/A	N/A	N/A	N/A	N/A	537	537	537	537
i	120 Amp 12 Volt secondary domestic alternator - Polyvee drive	N/A	N/A	N/A	N/A	N/A	605	605	605	605
j	125 Amp 12 Volt split charging system - Voltage sensitive for engine & domestic batteries	87	87	87	87	87	87	87	87	87
k	3.5kVA Travel Power* - engine mounted, 230 Volt, single phase 50Hz.	N/A	N/A	N/A	N/A	N/A	N/A	4410	4410	4410

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

## £ CONSUMABLE OPTIONAL EXTRAS

9		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
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.	72	72	72	72	72	78	78	78	80

SUPPLEMENT ITEMS ARE STRICTLY NETT

## £ BESPOKE ENGINE INSTALLATION SUPPLEMENTS

10	Special Feet	Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	Manufactured to suit your existing bearers & shaft alignment/installation*	360	360	360	360	360	360	360	360	360
b	Feet to suit an "Atomic 4" installation	N/A	92	92	92	92	92	N/A	N/A	N/A
c	Feet to suit a "Vega" installation	82	82	82	82	82	N/A	N/A	N/A	N/A
d	"West Sail" rear feet	N/A	N/A	N/A	N/A	N/A	62	62	62	62
e	"Volvo 2003" standard replacement feet	N/A	N/A	N/A	N/A	N/A	128	128	128	128

\* Customer to provide dimensions for computer aided design drawing.

## £ SHIPPING SUPPLEMENTS

11		Beta 10	Beta 14	Beta 16	Beta 20	Beta 25	Beta 30	Beta 35	Beta 38	Beta 45T
a	Supplement for wooden export packing case	152	152	152	152	152	165	165	165	165
b	2/3 Day delivery in UK mainland*	77	77	77	77	77	87	87	87	87

\* Highlands, Islands & Overseas - Price On Application.

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](http://www.betamarine.co.uk)

Email: [sales@betamarine.co.uk](mailto:sales@betamarine.co.uk)

Tel: + 44 (0) 1452 723 492