



RRP October 2022 Rev 01-i2
£ 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	8687	9074	11135	14872	13822	16329	16552	18211	19732
b	PRM hydraulic gearbox	9609	9996	10865	15052	14003	16510	15964	17623	19144
c	ZF mechanical gearbox	10277	10664	11533	N/A	N/A	N/A	N/A	N/A	N/A
d	ZF hydraulic gearbox	11374	11761	12630	16149	14861	17607	17061	18720	20241
e	ZF V drive gearbox	11934	12328	14448	18041	16992	19499	18953	20612	22133
f	"Bobtail" engine with drive plate & housing only - No gearbox	7802	8189	9058	13065	12015	14522	13976	15635	17156
g	"Bobtail" engine with drive plate & B W^^ housing only - No gearbox	8581	8968	9837	13383	12333	14840	14294	15953	17474
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*	133	133	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	901	901	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	1193	1193	Inc	Inc	Inc	Inc	N/A	N/A	N/A
f	TM345A 8° down angle - 2.0 / 2.45 : 1	1299	1299	159	159	159	159	N/A	N/A	N/A
g	Trolling valve kit - TM345	663	663	663	663	663	663	N/A	N/A	N/A
h	TM93** - 2.09 / 2.4 / 2.77 : 1	N/A	N/A	N/A	769	769	769	Inc	Inc	Inc
i	TM93A 8° down angle - 2.09 / 2.4 : 1	N/A	N/A	N/A	806	806	806	212	212	212
j	Trolling valve kit - TM93	N/A	N/A	N/A	827	827	827	827	827	827

* 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	1065	1065	1065	Inc	Inc	Inc	Inc	Inc	Inc
m	PRM260C - In line* 1.96 / 2.94 : 1	1352	1352	1352	1113	1113	1113	1113	1113^^	N/A
n	PRM500 - 1.94 / 2.57 / 2.9 : 1	N/A	N/A	2051	875	875	875	875	875	875
o	Trolling valve kit - PRM280 / PRM500	1420	1420	1420	1420	1420	1420	1420	1420	1420
p	Hydraulic soft shift kit - PRM280 / PRM500 / PRM750	398	398	398	398	398	398	398	398	398
q	PRM280 / 500 live PTO to customers hydraulic pump SAE J774C**	546	546	546	546	546	546	546	546	546

^ 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	917	917	Inc	239	Inc	Inc	Inc	Inc
v	ZF45A 8° down angle - 2.03 / 2.43 : 1	N/A	917	917	Inc	239	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	1479	1479	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	99	99	99	N/A	N/A	N/A	N/A	N/A	N/A
b	5" Flange - PRM280, TM345 & TM93	176	176	176	176	176	176	176	176	176
c	6" Flange - PRM500	N/A	N/A	305	305	305	305	305	305	305
d	Flexible coupling assembly for ZF15MIV - inc 5" Flange	567	567	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	103	103	103	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	149	149	149	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	200	200	200	200	200	200	200	200	200
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	226	226	226	226	226	226	226
i	Surcharge for "non standard special" bores	50	50	50	50	50	50	50	50	50
j	2" Spacer bobbin for TM93	N/A	N/A	N/A	164	164	164	164	164	164
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	567	567	567	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	858	858	858	1085	1085	1085	1085	1085	1085
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 [^]	85	85	85	90	90	90	90	90	90
b	B Panel - As ABV plus water temperature gauge [^]	127	127	127	127	127	127	127	127	127
c	BW Panel - Sealed push buttons in lieu of key switch [^]	212	212	212	233	233	233	233	233	233
d	C Panel - As panel B plus oil pressure gauge & voltmeter [^]	265	265	265	297	297	297	297	297	297
e	CW Panel - Sealed push buttons in lieu of key switch [^]	403	403	403	435	435	435	435	435	435
f	Flybridge control – C panel with 3m interconnection cable* and standard panel with 6m interconnection cable* for the Flybridge.	689	689	689	981	795	981	795	795	795
g	C/CW Panel - NMEA 2000 Module/Interface	716	716	716	716	716	716	716	716	716
h	D Panel - Digital, water resistant to IP67 [^]	822	822	822	864	864	864	864	864	864

[^] 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*	101	101	101	101	101	101	101	101	101

^ 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*	37	37	37	37	37	37	37	37	37
b	Shallow sump - Fitted	239	239	239	N/A	N/A	N/A	N/A	N/A	N/A
c	Sump drain pump - Additional connection to PRM gearbox	66	66	66	66	66	66	66	66	66
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	880	N/A	880	280	280	280
f	Stainless steel injection bend with 150mm rise lagging included - in lieu of standard	193	193	193	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	193	193	193	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	193	193	193	N/A	N/A	N/A	N/A	N/A	N/A
i	Rear facing sea water pump	583	583	583	Inc	Inc	Inc	Inc	Inc	Inc
j	Stern bleed kit c/w 3m hose	53	53	53	53	53	53	53	53	53
k	Shaft extension PTO - Gear end mounted 38mm shaft dia.	136	136	136	136	136	136	136	136	136
l	Extended Rails - For mounting forward end pumps etc.	408	408	408	408	408	408	408	408	408
m	Free issued fitting of customers hydraulic pump in-line, forward end**	1007	1007	1007	1007	1007	1007	1007	1007	1007
n	Bilge pump c/w 1" Seawater pump, belt, pulley & electromagnetic clutch**	978	978	978	978	978	978	978	978	978
o	Mounting for Sea Frost Compressor	610	610	610	610	610	610	610	610	610
p	Engine Ensis & Calibration fluid - For extended storage protection beyond 6mths	76	76	76	76	76	76	76	76	76

* 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	350	350	350	350	350	350	350	350	350
b	Wet exhaust kit - 3m of exhaust hose, skin fitting & clips. NB Gooseneck not included	265	265	265	419	419	419	419	419	419
c	Wet exhaust waterlock/silencer & clips	98	98	98	311	311	311	311	311	311
d	Anti-syphon kit - Air vent, 2m of 22mm hose & clips	143	143	143	143	143	143	143	143	143
e	Remote mounted coolant header tank kit - Tank, mount fittings, 1.5m x 3/4" pipe & clips	137	137	137	137	137	137	137	137	137
f	Fuel hoses for remote mounting of fuel filter - 1m x 2	17	17	17	17	17	17	17	17	17
g	Flexible fuel pipe connections - Engine 40cm x 2	90	90	90	90	90	90	90	90	90
h	Fuel delivery kit - 5m x 8mm copper pipe & end fittings. From tank to flexible pipe	64	64	64	64	64	64	64	64	64
i	Fuel leak off kit - 5m x 8mm copper pipe & end fittings. From flexible pipe to fuel tank	64	64	64	64	64	64	64	64	64
j	Diesel fuel filter - Water separator	63	63	63	63	63	63	63	63	63
k	Electric fuel lift pump	91	91	91	91	91	91	91	91	91
l	Remote oil filter - Bulk head mounted inc 75cm of pipe	260	260	260	260	260	260	260	260	260
m	Sound deadening insulation foam - 1m x 1m x 38mm	82	82	82	82	82	82	82	82	82

£ 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	122	122	122	122	122	122	122	122	122
b	1 Pair of 3m control cables *	45	45	45	45	45	45	45	45	45

* 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	64	64	64	106	106	106	106	106	106
b	100 Amp Battery isolating switch	48	48	48	48	48	48	48	48	48
c	Flat Polyvee belt & pulleys - fitted to standard 70 Amp alternator	135	135	135	223	223	223	223	223	223
d	120 Amp 12 Volt alternator in lieu of standard - Polyvee drive, no split charge relay	435	435	435	483	483	483	483	483	483
e	175 Amp 12 Volt alternator in lieu of standard - Polyvee drive, no split charge relay	560	560	560	570	570	570	570	570	570
f	70 Amp 12 Volt insulated return alternator - in standard position V belt drive	355	355	355	472	472	472	472	472	472
g	70 Amp 12 Volt insulated return alternator - in standard position Polyvee drive	472	472	472	610	610	610	610	610	610
h	100 Amp 12 Volt insulated return alternator - Polyvee drive, in standard position	663	663	663	800	800	800	800	800	800
i	175 Amp 12 Volt secondary domestic alternator - Polyvee drive	790	790	790	572	572	572	572	572	572
j	125 Amp 12 Volt split charging system - Voltage sensitive for engine & domestic batteries	92	92	92	92	92	92	92	92	92
k	24 Volt electric start & 55 Amp alternator	2037	2037	2037	1999	1999	1999	1999	1999	1999
l	80 Amp 24 Volt secondary domestic alternator	903	903	903	625	625	625	625	625	625
m	100 Amp 24 Volt secondary domestic insulated return alternator	1181	1181	1181	1104	1104	1104	1104	1104	1104
n	Mounting of customers free issue secondary domestic alternator	565	565	565	565	565	565	565	565	565
o	3.5kVA Travel Power* - engine mounted, 230 Volt, single phase 50Hz.	4675	4675	4675	5327	5327	5327	5327	5327	5327
p	5kVA Travel Power* - engine mounted, 230 Volt, single phase 50Hz.	5470	5470	5470	5904	5904	5904	5904	5904	5904

* 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.	120	120	120	127	127	127	127	127	127

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*	382	382	382	382	382	382	382	382	382

* 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	269	269	269	310	310	310	310	310	310
b	2/3 Day delivery in UK mainland*	103	103	103	124	124	124	124	124	124

* 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.

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