

## Appendix H – HARDWARE AND FITTINGS

*The lists hereafter will be periodically updated to follow manufacturer's catalogues evolution.*

*The updated lists is published on the RC 44 website: [www.rc44.com](http://www.rc44.com)*

*Any item listed in Appendix H shall be on board on its designed position. Adding extra items is not allowed.*

### H.1 ASSEMBLED HULL

<b>DECK HARDWARE HARKEN-SPINLOCK</b>		
<b>Main</b>		
<b>R32.1.8m</b>	1	Big Boat track low-beam
<b>T3243B.HL</b>	1	Big Boat Car with Standup, <b>MWL:</b> 2041Kg, <b>BL:</b> 4081Kg
H3169	1	Big Boat End Control double sheave (pair) <b>MWL:</b> 408Kg, <b>BL:</b> 1040Kg
<b>H2650</b>	1	Carbo block single/fixed for 6:1 <b>MWL:</b> 220Kg, <b>BL:</b> 735kg
<b>H3231</b>	1	Black Magic block, single, swivel 75mm <b>MWL:</b> 2268Kg, <b>BL:</b> 4536Kg
custom	1	custom Sheave Box
H754	1	Hi-Load Sheave
<b>H3236</b>	1	Footblock single/lockoff <b>MWL:</b> 2380Kg, <b>BL:</b> 4762Kg
<b>H468</b>	1	Micro Cam-Matic <b>MWL:</b> 91Kg, <b>BL:</b> 181Kg
<b>H3234</b>	1	Footblock single <b>MWL:</b> 2380Kg. <b>BL:</b> 4762Kg
H096	2	Bullet Upright <b>MWL:</b> 136Kg, <b>BL:</b> 907Kg
H150	2	Cam-Matic <b>MWL:</b> 136Kg, <b>BL:</b> 340Kg
H425	2	Standard Fairlead

<b>Jib</b>		
<b>G2747B</b>	2	Genoa Lead Car Midrange, Ball Bearing <b>MWL:</b> 1043Kg, <b>BL:</b> 2268Kg
<b>R27.1.8mt</b>	1	Midrange track, low-beam
H1631	1	Midrange end control, single sheave (pair) <b>MWL:</b> 159Kg, <b>BL:</b> 397Kg
<b>E2700</b>	2	End stop
H1515	1	Double control block (pair) <b>MWL:</b> 272Kg, <b>BL:</b> 907Kg
H287	8	Bullet block Thru-deck <b>MWL:</b> 136Kg, <b>BL:</b> 907Kg
<b>H459</b>	4	Cam-Matic with Fairlead <b>MWL:</b> 136Kg, <b>BL:</b> 340Kg
H082	2	Bullet block <b>MWL:</b> 136Kg, <b>BL:</b> 907Kg
H340	4	Carbo block <b>MWL:</b> 150Kg, <b>BL:</b> 454Kg, for extra control line purchase
<b>J2-6° Sheeting</b>		
Custom	2	Hard anodized thimble
H754	2	Hi load sheave
Custom	2	Custom carbon sheave box
<b>H3223</b>	3	Black Magic Teardrop/HL <b>MWL:</b> 1134kg, <b>BL:</b> 2268kg
H6065	2	57mm Padeye block, <b>MWL:</b> 850kg, <b>BL:</b> 1900kg
H343	2	29mm Carbo block Double/swivel with becket <b>MWL:</b> 229kg, <b>BL:</b> 737kg
H344	2	29mm carbo block triple/swivel <b>MWL:</b> 449kg <b>BL:</b> 907kg
H348	2	29mm Carbo block, single fixed, <b>MWL:</b> 150, <b>BL:</b> 454kg

<b>Jib</b>		
<b>Cunnigham</b>		
Custom	1	Custom forestay shuttle provided by Pauger
Custom	1	Custom carbon sheave box
Custom	3	High Load sheave
H3223	2	57mm Black Magic Teardrop block MWL:1134kg BL:2268kg
H343	1	29mm Carbo block double/swivel MWL:229 kg, BL: 737kg
H344	1	29mm Carbo block triple/swivel, MWL: 449kg BL: 907kg
H340	1	29mm carbo block single/swivel, MWL:150kg BL:454kg
H150	1	Standard Cam-matic cleat, MWL: 136kg BL:340kg
<b>Halyards</b>		
H1990	3	Mastbase block/fixed SWL:2273Kg, BL:4545Kg
Stopper	1	Spinlock XTS (6-8mm)
Stopper	2	Spinlock XX
H3215	1	Black Magic single block 57mm HL MWL :1134Kg, BL :2268Kg
<b>Vang</b>		
H2650	1	Carbo block 40mm single/fixed MWL:220Kg, BL:735Kg
H2636	1	Carbo block 40mm single/swivel MWL:220Kg, BL:735Kg
H131	1	Big Bullet block, thru-deck, MWL: 136Kg, BL: 907Kg
H140	1	Big Bullet, pivoting exit/150, Cam-Matic, MWL: 136Kg, BL: 907Kg
H2152	2	Carbo block 57mm MWL:359Kg, BL:1080Kg
<b>Spinnaker</b>		
H3214	2	Single loop block MWL:1134Kg, BL:2268Kg
H3220	2	Footblock, single/high-load MWL : 1134Kg, BL : 2268Kg
Custom	4	Pauger design 50mm sheaves in carbon housing
Custom	2	Custom carbon in line exit
H2606	2	Carbo block 57mm cheek MWL:360Kg, BL:1080Kg
Stopper	2	Spinlock XTS 6-10mm
H2606	1	Carbo block 57mm cheek MWL:360Kg, BL:1080Kg
H1500	1	deck organizer
H2133	1	Eyestrapp
H134	1	Big Bullet block, in-line exit MWL:272Kg, BL:907Kg
H150	2	Cam-Matic MWL:136Kg, BL:340Kg
H459	1	Cam-Matic with EX Fairlead MWL 136Kg, BL 340Kg
Custom	1	Black anodized aluminium tack line bowsprit end fitting
Custom	1	Custom carbon in line exit
Stopper	1	Spinlock XTS 8-14mm
<b>Retriever</b>		
H754	2	Sheave
Custom	2	Custom Sheave Box
H2152	2	Carbo block, 57mm MWL: 359Kg, BL: 1080Kg
H2601	1	Carbo block, single, becket 57mm MWL: 359Kg, BL: 1079Kg

<b>Backstay</b>		
Custom	2	Custom high load block in custom carbon sheave box
Custom	2	High load sheave in custom aluminum casing or 75mm Black Magic Single Loop Block <b>H3230</b>
Custom	2	High load sheave in custom aluminium casing
Custom	2	Custom carbon in line exit
Tylaska	2	TYL-T8 LB or similar
Stopper	2	Spinlock XTS 8-14mm
2606	2	57mm Carbo block cheek MWL 360 kg, BL: 1080Kg
<b>Forestay</b>		
Custom	1	Sheave
Custom	1	Custom carbon Sheave Box
Custom	4	Sheaves with carbon sheave boxes
Custom	1	Forestay gauge
<b>Cunningham</b>		
H408	1	Triple block 16mm MWL:318Kg, BL:544Kg
H407	1	Double block, becket, 16mm MWL:204Kg, BL:544Kg
H082	1	Bullet block, single, MWL:136Kg, BL:907Kg
H113	2	Bullet block, pivoting cheek MWL:136Kg, BL:907Kg
H287	2	Bullet block Thru-deck MWL:136Kg, BL:907Kg
H150	2	Cam-Matic MWL:136Kg, BL:340Kg
<b>H375</b>	2	X-Treme Angle Fairlead
H2650	1	Carbo block 40mm single/fixed MWL:220Kg, BL:735Kg
H2636	1	Carbo block 40mm single/swivel MWL:220Kg, BL:735Kg
<b>Checkstay adjuster</b>		
Custom	2	Custom hard anodized thimbles
Custom	2	Custom through mast fittings
H2600	2	57mm carbo block single/swivel, MWL:360, BL: 1080kg
<b>H306</b>	1	Through deck block MWL:680kg, BL1361kg
H2636	3	40mm carbo block, single/swivel, MWL: 220kg, BL:735kg
<b>TrimTab</b>		
Custom	8	Custom carbon Micro Footblock
H421	2	16mm, Thru-deck, MWL: 113Kg, BL: 544Kg
<b>H468</b>	2	Micro Cam-Matic MWL:91Kg, BL:181Kg
H424	2	Micro Fairlead
H404	2	16mm Block MWL 113Kg
H082	2	Bullet block, single, MWL:136Kg, BL:907Kg
Custom	10	Sheaves with carbon sheave boxes
Custom	2	Trim tab gauge
Custom	1	Stainless steel trim tab shaft (as supplied by manufacturer)
Custom	1	Carbon lever arm (anchor point at 700mm from pivot point)
Custom	2	Carbon slider for gauge system (Length=870mm from end-stopper to end-stopper)

<b>Outhaul</b>		
H082	1	Bullet block, single, MWL:136Kg, BL:907Kg
H113	2	Bullet block, pivoting cheek MWL:136Kg, BL:907Kg
H287	2	Bullet block Thru-deck MWL:136Kg, BL:907Kg
H150	2	Cam-Matic MWL:136Kg, BL:340Kg
H375	2	X-Treme Angle Fairlead
H1559	1	Midrange fiddle, MWL: 816Kg, BL: 2268Kg
H1560	1	Midrange fiddle/becket, MWL: 816Kg, BL: 2268Kg
H3243	1	Black Magic block 75 mm single/swivel MWL:1361Kg, BL: 2722 Kg
H2650	1	Carbo block 40mm single/fixed MWL:220Kg, BL:735Kg
H2636	1	Carbo block 40mm single/swivel MWL:220Kg, BL:735Kg

		<b><i>WINCH SYSTEM HARKEN</i></b>
<b>Winches</b>		
F 84426800	1	B55.3 STR UD - Main sail winch
F 84517400	2	B530 TCR UD - Primary winch
F86528300	2	B44.2 STA – Halyard winch With W.45 Racing Drum
F 84347100L	2	Bevel Gear Box - LH
F 84347000	1	Bevel Gear Box - RH
PEDxxxByyy Czz	1	Pedestal tube description as per drawing NEW
H468	2	Micro Cam-Matic SWL:91Kg, BL:181Kg
H424	2	Micro Fairlead
H421	1	16mm, Thru-deck, SWL: 113Kg, BL: 544Kg
F436010062	1	Pedestal belt as per drawing 42050
F 842375 40	1	605 Tbox 2 disc., ped. Mounted, one disc. At other side
F 842650 00	2	Aluminium pedestal handle
F 842260 00	3	Disconnect button 120
E423890050	6	Aluminium drive shaft
A 42230 00	3	End flange upper plus stud screw
A94223100	3	End flange lower plus stud screw
A 39780 00	3	Straight coupling adapter 21-30
A 42395 00	3	Straight coupling 30/30 L=45
A423930052	3	Straight coupling 25/30 L=45
S404750080	9	Clip 25
A 74047400	6	Spherical outer to 30-spline
S427430004	6	Nut 25 HL
F84235700	1	OVERDRIVE SYSTEM FOR PRIMARY WINCHES
B8SG	5	Ball Bearing Aluminium Winch Handle (B8SG from Harken or 8"/200mm OneTouch Power Grip from Lewmar)

<b>MAST &amp; RIGGING</b>		
<b>General Rig</b>		
	1	Variable section upper mast profile-prepreg carbon
	1	Variable section lower mast profile-prepreg carbon
	1	Boom-prepreg carbon
	6	Spreader-prepreg carbon
	3	CNC machined hard anodized Al spreader bar
	4	CNC machined titanium mast junction washer plates
	72	10.9 M8x20 mast junction bolts
	1	Custom carbon/aluminum gooseneck
	2	Custom 20mm mast foot plate
	1	Custom carbon rigid vang with internal purchase
	1	Retractable/pivoting bowsprit-prepreg carbon
<b>Hydraulic system</b>		<i>Old Holmatro items with identical references are allowed</i>
25933	1	Forestay ram, HCL-10B black anodizes cylinder - Reckmann
26489	1	HCP11C, Control panel – Reckmann, max pressure 440 Bars
27343	1	Hose MH7,5 – Reckmann
28096	1	Hydraulic oil – Reckmann
27259	1	Mastjack set HMJ20 - Reckmann
<b>Standing rigging</b>	1	Forestay PBO – supplier Future Fibers (FF)
	2	Backstay – Dyneema SK75, supplier Gottifredi Maffioli
	2	D1- PBO Shroud (Length=473mm; Diameter=10mm; BL=8.700kg), FF
	2	VD2-PBO Shroud (Length=954mm; Diameter=8mm; BL=5.300kg), FF
	2	VD3- PBO Shroud (Length=1361mm; Diameter=8mm; BL=5.300kg), FF
	2	VD4- PBO Shroud (Length=1730mm; Diameter=10mm; BL=8.700kg), FF
	4	Custom carbon chain plates

- Lashing the forestay or forestay stop on a fix point is not allowed. The forestay stop shall be attached to the ram fork only.

<b><i>RUNNING RIGGING SPECIFICATION</i></b>					
<i>No.</i>	<i>Art.</i>	<i>Rope</i>	<i>Cover</i>	<i>Diameter (minimum)</i>	<i>BL (kg)</i>
	<b>Sheets</b>				
1	Main sheet	Dyneema	yes	10mm	5920
2	Jib sheets	Dyneema	yes	10mm	5920
3	Spinnaker sheets	Dyneema	yes	8mm	3950
	<b>Halyards</b>				
4	Main halyard	Dyneema	yes	8mm	3950
5	Jib halyard	Dyneema	yes	8mm	5920
6	Spinnaker halyard	Dyneema	yes	8mm	3950
	<b>Ropes - Deck / Mast</b>				
7	Backstay	Dyneema	yes, PBO	10mm	5920
8	Genoa purchase	Dyneema		5mm	1530
9	Genoa control line	Dyneema	yes	7mm	
11	Main traveler	Dyneema	yes	6,5mm	
12	Tack line	Dyneema	yes	8mm	3950
13	Bowsprit control	Dyneema	yes	8mm	3490
14	Bowsprit out	Dyneema	yes	8mm	2100
15	Bowsprit stopper	Dyneema	Core only	4mm	1850
16	Trim tab control	Dyneema	yes	4mm	980
	Trim tab purchase	Dyneema	Core only	3mm	
17	Steering system	Dyneema	Core only	6mm	3950
18	Quadrant stopper	Dyneema	Core only	4mm	1850
19	Short sheets - genoal	Dyneema	Core only	5mm	2790
20	Deck tension	Dyneema	Core only	6mm	3950
21	Lashing	Dyneema	Core only	3mm	900
22	Cunningham-purchase	Dyneema	yes	5mm	1020
23	Cunningham-sail	Dyneema	Core only	5mm	2790
24	Cunningham-regulation	Dyneema	yes	6mm	1530
25	Outhaul-end boom	Dyneema	Core only	8mm	7400
26	Outhaul-in boom	Dyneema	Core only	6mm	3950
27	Outhaul-purchase	Dyneema	yes	6mm	1530
28	Outhaul-regulation	Dyneema	yes	6mm	1530
29	Outhaul-end boom - loop	Dyneema	Core only	6mm	3950
31	Check stay - end block	Dyneema	Core only	4mm	1850
32	Check stay - purchase	Dyneema	Core only	5mm	2790
33	Check stay - purchase	Dyneema	yes	6mm	1530
34	Check stay - regulation	Dyneema	yes	6mm	2790
35	Drop-line spinnaker	Dyneema	yes	8mm	3490
36	Elastic rope			6mm	
51	Forestay strop	Dyneema	May be covered	14mm	10830
52	Runner strops	Dyneema	May be covered	10mm	5920

	<b>Inbord sheeting</b>				
37	First cascade	Dyneema	Core only	6mm	3950
38	Second/third cascade	Dyneema	Core only	5mm	2790
39	Regulation	Dyneema	yes	6mm	1530
	<b>Jib cunningham</b>				
41	Jib cunn. - tack line	Dyneema	yes	6mm	3950
43	Jib cunn. - lashing	Dyneema	Core only	4mm	2790
44	Jib cunn. - purchase	Dyneema	yes	6mm	1530
45	Jib cunn. - regulation	Dyneema	yes	8mm	2100
	<b>Shackles</b>				
47	TYL-T8 SB	T 8 Shackle Standard Bail		Spi + Jib Halyard	
48	TYL-H8	H 8 Halyard Shackle		Main Halyard	
49	TYL-T8 SB	T 8 Shackle Standard Bail		Tack line	
50	TYL-T5 SB	T 5 Shackle Standard Bail		Short sheet	

**Definitions:**

- All line shall meet minimum breaking load and minimum diameter stated above.
- Minimum rope size applies to the outside diameter of a covered rope (if a covered is indicated in the table above). There is no minimum length for the lines
- Any material is allowed for the cover, except PBO, unless stated in the table above
- Stripping is allowed
- For the item 51 and 52 the minimum diameter applies to the core only.

<b><i>STEERING SYSTEM JEFA-RIBA</i></b>		
<b>Part No.</b>	<b>Quantity</b>	<b>Description</b>
BS25-15	2	Bulkhead steerer-Jefa
CH5860	2	Chain assembly-Jefa, length: 605mm
AS140or5BT140	1	Lower bearing-Jefa
SLE140AL	1	Lower sleeve-Jefa
Gaiter	1	Sealing Kit for lower bearing-Jefa
4S100Z	1	Upper bearing-Jefa
SLE100AL	1	Upper sleeve with emergency tiller fitting-Jefa
EM42060Z	1	Al emergency tiller-Jefa
Custom	4	Carbon sheave box with sheave
Custom	2	Carbon steering pedestal-RiBa
Custom	2	Carbon steering wheel-RiBa
Custom	1	Carbon steering quadrant with safety system

<b><i>ELECTRONICS B&amp;G</i></b>		
<b>Part No.</b>	<b>Quantity</b>	<b>Description</b>
BGH300002	1	H3000 Hercules race base pack ( include one gfd on base coffee grinder)
BGH270001	5	Hercules 20/20 display (5 unit on mast rack )
BGH030002	1	Vertical wind sensor 1.04 meter
SEN-SPD-HPF	1	Speed sensor
SEN-DPT-HPF	1	Depth sensor
486-00-009	1	Compass sensor
690-00-004	1	Heel sensor
RRF-ACP	2	Rudder angle and trim tab angle sensor
	1	NMEA GPS device
	1	Vhf hand set radio station

Use of the electronic devices while racing:

- a) Logging data on an appropriate device is allowed
- b) The transmission or reception of data is forbidden
- c) The use of any device that is not listed in Appendix H Electronics is not allowed with the exception of point a) above. This includes load cell, Velocitek or any similar type of products.



<b><i>PROPULSION SYSTEM VOLVO</i></b>		
D1-20	1	Volvo inboard diesel engine (20HP)
	1	Volvo engine control panel
	1	Spinlock remote control
	1	S.S. fuel tank (16l)
	1	Hydraulic oil pump
	1	Plate heat exchanger for hydraulic oil
	1	S.S. hydraulic oil tank
	1	Retractable S.S. hydraulic SailDrive unit
	1	Fixed fthree blade propeller
	2	Up/down hydraulic ram
	1	Volvo up/down electro-hydraulic pump
	1	Volvo up/down remote control panel
	1	Exhaust system
<b><i>ELECTRIC SYSTEM</i></b>		
	1	12V 55Ah gel battery
	1	Electric control panel
	1	Main switch
<b><i>PLUMBING</i></b>		
	1	Hand bilge pump - operated from cockpit
<b>Minimum</b>	2	Electric bilge pump with automatic switch
	2	Drainage fittings in the hull (for the boat on cradle)

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