

## **Flingtime – Dimensions, numbers, types, models, descriptions**

**Hull:** HIN = AUAAC000021QT2

Launched April 2001, Builder: McDavit Boat Constructions

Displacement (approx.) 3 tonnes

Registration No = MG576Q

Length overall = 10.59 metres (34'6"),

Beam = 4.92 metres (16'2"),

Draft = 600 mm (2 foot),

Bridgedeck clearance = 560mm (22")

**Rigging:** 3/4 rigged sloop

Allyacht Spars Australia ([allyachtspars.com.au](http://allyachtspars.com.au))

P/S 17912 (21/11/2000) Drawing Ref. Number

Mast length = 12200 mm; top to bottom of base casting

Surveyed (written), then Re-rigged by Allyacht Spars December 2012, Stays upgraded from 8mm to 10mm as this was an option in the original design.

New Main and Jib from Evolution Sails Brisbane Rd. Labrador in early 2013. Upgraded cloth, cut, and UV strip on jib.

Jib furler is Profurl model B 35 S

New Screecher in 2013 from Evolution Sails. Heavy duty Dacron cloth for use in strong winds, only available in red, white, blue colours. Selden continuous line rope furler. Mounts on port or starboard bow depending on conditions. Not convenient to tack but very strong and does not require the complications of a bow sprit.

Replaced sail bag and lazy jacks December 2012.

Replaced all halyards except Jib (still good) December 2012

**HAUL OUT**, hard stand

Ship lift slings go just in front of, and just behind the keel (the sacrificial mini-keel is just glued on and is hollow).

Slings over the keel can bend it inwards.

There are lift point stickers marking sling positions.

Support after lift out is 2x long supports under the keels, one under bow knuckle point. Refer to pictures.

## Boat Builder

Jeff McDavitt 0407802731

His ex-apprentice is Sean Coleman 0402444945, recommended by Jim Stubbins. Met Sean at MYCQ Manly, he knows flingtime and other Rogers designed boats.

## DECK GEAR

### Dagger board

The original board was damaged in 2007 when the boat hit a build up of sand & mud in the channel at Runaway Bay, while sailing at about 6 knots. There was no damage to the daggerboard case as the board is sacrificial, and it did the right thing.

Repaired by Marine Team Australia at Horizon Shores. It subsequently delaminated after getting a lot of use while sailing up the Qld coast to Cairns in 2013, and was replaced by a brand new one of improved design. Replacement dagger board was approx \$1,200 from Jeff McDavitt who has the moulds.

To get the original dagger board out required undoing the starboard side stay and stabilizing the mast with the topping lift as the board is too long to drop out downwards when the boat is on hard stand.

It had to go up beyond where it interferes with the side stay. Top down installation did not work for the new board as it was anti-fouled (on request) and the added thickness made a difference. It was too tight to load from the top so it was installed in the water by sinking the daggerboard and loading it from underneath the boat (see pictures)

Make sure that anti-foul paint covers the lower (exposed) tip of the dagger board. This requires the board to be lowered a little while on the hard stand (or on the beach)

### Winch version

Andersen 28ST with base stamp stbd aft unit "9912-V20"  
this is required to get exact fitting spares.

### Fenders

Originals were (L)900x200 and (S)700x150  
replaced with (L)705x200 and (S)500x125 "Dan Fender" brand  
Fender inflator pumps available at Whitworths (\$14.95 in 2007)

## Rope bags

These eventually fall to pieces.

Small bags for jib sheet: Burke brand. 345mm between mount holes at top. 320mm from holes to bottom.

Larger ones for mainsheets Burke brand 500mm bags (new 2012)

## MOTORS

### Auxiliary Motor

Honda BF20 LRTD fitted in 2007 (Original was Yamaha 9.9)  
Cost \$5,437 includes \$200 for Taco, Hourmeter  
Runaway Bay Marine (Honda agent)  
Long leg version fitted with High Thrust 4 blade prop.

The motor box/helm seat mount was rebuilt and extended for the larger power-tilt motor. Centre pod extended and new 50mm thick transom built ... after numerous calculations re swing clearances and revised steering mechanism.

Painted with 2 pack: Altecs Coatings "Snow White"

Taco. 86mm hole. Remote loom:

*Black = Earth*

*Black+Yellow = +Positive*

*Red+White ? = Gauge illumination*

*Grey = Taco signal "SIG"*

*Yellow+Blue = Trim (not used on H20)*

Prop = Power Thrust type, 4 bladed Aluminium, 10x7<sup>5/8</sup> inch  
Part No. 06581-ZY0-S00ZB

Water flush port is 1/2 inch garden hose

Measurement: Bottom tip of lowered motor is 580mm below the water. Replaced the fuel line clip at the motor (Sep-2011) because it had detached a couple of times and had to be tied on. (Check this item if motor ever cuts out)

Depth sounder offset (-600 mm) tries to just clear the motor tip

Motor is bolted through the transom in addition to the usual screw mounts. This means that it has to be serviced while out of the water.

## FUEL

### Fuel bladder tank

Deck fitting ---> 1<sup>1/2</sup> inch standard fuel hose ---> 1<sup>1/2</sup> inch (barb)-1<sup>1/2</sup> inch(barb) bulkhead fitting --->Flexible neoprene petrol fuel hose (fixed lengths available) --->1<sup>1/2</sup> inch (barb)-1 inch female

The flexible rubber pipe from deck filler to the tank inlet is double clamped and glued. The glue is quite special and the only one recommended by the tank manufacturer; Turtle Pak tanks.

The WURTH DP-300 fuel line sealant was sourced from Matthew (Mobile 0417543061) 4/132 Esplanade, Burleigh Heads. Cost \$25 per tube !

This glue is used by US car racers and is petrol and high temp safe.

Petrol filler is SS in 45mm hole. This part has 27.5mm external thread. Female threaded 1" to 1" to 1.5" variable barb transition piece.

The original customized bladder tank was installed in 2005 but was replaced in October 2014 as the old one developed a slow leak after 9 years of use. The new one is slightly smaller and of a newer design, but is a standard 80 litre model. The new tank was fitted with a breather as the old one often developed an air pocket above the fuel.

Manufacturer: Turtle-Pac (Laszlo Torok) (07)5598 1959

www.turtlepac.com PO Box 563, Currumbin QLD 4223

Warranty: 24 months from 19-AUG-2014, Serial no. 0622, Pattern P80 (80 litre, Petrol)

Outlet position customized.

## Fuel line

7.5 metres required. Standard size is 5/16", but using 3/8" to maintain a good flow over the long distance. The pipe goes through one of the underfloor GRP hollow strakes and has to be pulled out for checking or replacement. Think about leaving a permanent mouse line in there? Posh SS braided type (\$16/metre) replaced the leaking original in 2007. Replaced the braided type with standard hose in 2012 due to leaking; the braid was perfect but the internal rubber pipe failed (small cracks); braided line is a waste of money. When replacing the hand squeezer pump, note flow direction.

Supplier: Flexible Hose Supplies

## ELECTRICAL

### Bilge Pumps (all run submerged)

Main portable pump. Rule 3,700 gph, activate via Anderson plug (50A rated) direct to house bank. (Start motor for recharging batteries)  
19Amp. 1<sup>1/2</sup> inch hose

*Flexible hose length assumptions:- Sole to deck is 2metres + 1m to clear deck and tie it on. Add 1/2 m for bends overall 3.5metres.*

*12v cable length:- 7m longest run to Andersen socket is from bottom of the holding tank locker or the forward portside deck locker; add 1m for spare = total 8metres of power cable.*

Port & Stbd cabin floor auto bilge pumps. 2x Rule Auto 2,000gph, each

Stbd. bow sealed locker (holding tank) 1x Rule Auto 1,500gph

### Refrigeration

Replaced compressor, plate, thermostat in 'classic kit' (in 2013)  
BLA Isotherm SKU 381507. Same compressor (BD35F) as before but L plate 400x170x210 (Plate type 381888).  
Modified box to remove 'O' plate mounting flanges so the whole box is now useable as fridge only. The freezer compartment never worked properly. The new unit is very quiet compared to the previous one.  
Sourced from Go Camping Nerang; BLA listed price without mark-up or delivery costs, better value than all the marine suppliers.

### History

*Isotherm 2001K (model). BLA (Bob Little Agents) sell replacements.*

*(More recent model is ASU3201 ...BLA/381532 \$1,836 in 2006)*

*ASU Type, S/N = 038157, Refrigerant R134a 0.060kg*

*Fridge stopped working in 2006. Thermostat was replaced in by Just Refrigeration, Mike Hyde 0409871671.*

*Replaced thermostat again in 2012 DIY, no problems.*

*Considered replacing with BLA Model 381684; 23kg weight 745(Ht)x525(Width)x500(Deep) ...x40(Door) 130litres overall, 5litre freezer, 2.5Amps max., stayed with existing B/I top loader.*

*Fridge compartment size: Depth 550, Width 600,  
Ht. 600 to first shelf (full access); Ht. 900 to 2nd shelf; Ht. 1150 to 3rd shelf; 1320 to ceiling (i.e. all shelves behind fridge.)*

*Thermostat sources; Whitworths; Refrigeration Equipment Sales, Olympic Circuit, Southport*

Clean fridge with warm water, wipe to damp with diluted vanilla essence.

Drain through the rubber bung into a container. Replace the bung or a surprising amount of cold air will be lost.

Future refrigeration option: (The fridge box is 73 litres internal volume.)

**Oze**fridge (eutectic) better efficiency, solidly built.

Compressor: modelA480

Plate: Model P33-29-8 (size 322x290x80) (landscape mounted)

**In mast cables:** 4x two wire pairs for 1)Anchor light; 2)Tricolour light; 3)Steaming light; 4) Foredeck light; 1x VHF antenna; 1x Wind instrument transducer; 1x brickies string cable mouse.

Cable runs: mast > locker>panel forward of stbd centre bunk>iTC-5 area.

Antenna cable has join behind the panel above iTC-5 as does the Wind Tx. Light cable junction box is in saloon forward stbd (spare rope) locker

**TV** Kogan 19" 12v with DVD HD-mid, LED, draws 40watts in use + signal booster/active antenna

The Majestic brand (somewhat expensive) omni-directional antenna was replaced with the same model in 2013. Not convinced that the cheaper ones were going to do the job. It was originally on a PVC pole which wobbled a lot so it was lowered to be close to the targa bar.

### **Salon exhaust fan**

12v CPU fan vents to under the stbd. solar panel with sealed projection above coach roof to stop most water runoff from entering

Jaycar Thermostat Kit # B048 Cat # KG9140 turns fan off below a variable temperature point.

100mm pipe with 60mm fan assembly. The flanges are trimmed to press fit and then fan is sealed in with self-amalgamating tape. Fan was replaced in 2011. Part from Southport Electronics adjacent to Whitworths in the Brick Works.

Fan draws 130mA and moves 0.57 cubic metre/minute. 12v 4000RPM

VHF cable is type RG58

## **INSTRUMENTS**

### **RADAR**

The pole is approx 3.4 metres above the second step down aft stbd. This gives safe clearance of the beam for anyone standing on the helm pedestal in the cockpit and anywhere inside the boat. The beam is only about 500mm above the bows so advisory is not to use it when crew are going to be out of the cockpit. the pole is 75mm diameter SS with 3mm wall thickness. The fabricator (Ray Jansson) advised that it might flex but is not going to bust in any sort of weather. Time will tell? The cable hole is not waterproof and has chafe protection (hose) but any water will simply drip out the bottom and onto the step.

The outboard motor hoisting gear on the Radar pole is not strong enough for retrieving a person from the water. Lift limit is approx 30 kg. It is also useful for lifting heavy stuff from a marina finger to the boat. e.g. life raft, loaded cooler box.

The Radar cable is 10 metres long with about 500mm spare looped under the stbd double bunk mattress.

## **VHF Radio** DSC facility; MMSI = 503051600

Asvised this number to AusSAR by fax on 17-JAN-2005, renewed/updated in 2010  
Navman VHF radio was replaced by an iCom unit in 2013 after the Navman transmission became unreliable. The antenna cables and impedance were professionally tested and some connectors and the masthead splitter were replaced. Much improved performance.

## **PLUMBING**

### **Water plumbing**

Pipes are **'John Guest' 15mm** food quality, blue poly. Often used for beer lines! (Lancer Pacific...?)

Water filter (drinking)

*Seagull IV X-1F (General Ecology)*

*Cartridge is P/N RS-ISG (\$175approx.)*

*Crystal Clear - Dennis 0438836886*

*alt supplier?: Purifiers Aust, Tel: 1300 303 605*

The 'Seagull' filter is easily clogged (and ruined) by dirty water so a standard 10 micron polyester pre-filter was installed in 2013. Cartridges readily available at Bunnings.

The General Ecology filter is quite expensive but lasts for several years or more with pre-filtering.

### **Water tanks** cleaning

*Inspection ports under mattress or junk. 250ml of 5% bleach per 200litres therefore > 156ml per 125litres (i.e. per each side tank)*

The stainless steel drinking water tank cannot be easily inspected but it never leaks, so left well alone.

## Gas

Gas fitter (licenced) Robert on 0408713251, recommended by Marine Team Aus., serviced the HWS and fitted the tank solenoid and compliant signage in 2006.

The HWS requires 2x DD batteries to be replaced when the spark is weak or every 2 years.

Originally there were two standard 9kg tanks but the inner one put a lot of pressure on the adjacent bulkhead pipe and cable duct. There was a good chance that the duct could crack and there was a risk of gas locker to internal air leakage. The solution was to use a smaller (secondary) gas tank but with compatible connection fittings. The slight drawback is that it has to be individually filled rather than swapped through swap-and-go agents.

The BBQ gas bottles (2) are the small type with smaller fittings. They are stored in the gas locker as is the butane gas lighter refiller.

## Toilet

Jabsco SKU 89819 MkII (post 1984 model) Pump complete assembly was replaced in 2012 after the sea water inlet on the pump cracked after a new seals servicing.

Whitworths ordered it in. Quick fitting, no problems.

The previous (SS) seawater stop cocks were replaced in 2012 after oozing corrosion tainted water. Current stopcocks are strong injection moulded glass reinforced plastic type certified for marine use.

## RUNNING RIGGING

### Flingtime - various rope measurements

Main halyard - 25 metres, 10mm Spectra (Blue). Replaced in 2012.  
original was 22.7 with no spare to cut or shorten around wear zone.

Jib halyard - = spinnaker halyard -2metres (approx. 26m) In fair condition as it spends its life inside the mast.

Spinnaker halyard - 28 metres, 10 mm Spectra (Red) Replaced in 2012.  
Longer than required for the sail but can be lowered to reach to a person in the water for emergency lifting.

Spliced snap shackle Ronstan RF6210 MWL 1600kg

Topping Lift - 26 metres, 10 mm Spectra (Yellow) Replaced in 2012.

Main Sheet rigging blocks and rope (new 2012)

*10mm White multibraid poly with Green fleck to Stbd side, Red fleck to Port side*

*4:1 / 8:1 endless loop dual cam cleat arrangement*

*Maximum extension is 4400mm which lets the sail out without much potential for chafing on shrouds or risk of breaking battens. Blocks recommended and supplied by Allyacht Spars Brisbane (Chris).*

(Main sheets(original) - 12 mm Double Braid.

4:1 purchase; 17 metres each)

**Jib furler line** - 17.5 metres 8mm; replaced 2012

**Aft anchor bridle** - 2x 5metre 14mm 3 plat Nylon (white)

to splice this stuff, it must be tied off at every opportunity as it tangles too easily, this includes each of the 3 plat strands.

## Equipment strengths

### *Spinlock BRS163 Spinnaker Block (on strops)*

Block MWL 1200 kg, Cam cleat Max 240kg

### Forward anchor bridle (original)

*Arm lengths are 2600mm. I was thinking this was too short and might produce too much compressive load but noted that this length most likely reduces chance of tangles or trailing back into the prop etc. Stay with it. Short arms put more inward force on the hulls but the forward beam is nearby. Bridle pad eyes had backing plates added in 2010.*

### Aft anchor bridle

### *2x 5metre 14mm 3plat Nylon (white)*

to splice this stuff, it must be whipped at every opportunity as it unravels and tangles too easily, this includes each of the 3 plat strands. The ideal bridle arm length is subject to lots of debate. This size reduces risk of tangling if it goes under the boat (less rope around and can't hook over the front of the mini keels) but does not pull hulls inwards as much as a shorter set-up. The aft pad eyes are strong enough but are unlikely to match the forward ones.

*In a perfect world the bridle angle at rode is 30 degrees?*

### **Primary anchor rode - 8mm all chain (windlass compatible) 50 metres.**

Chain was reversed in 2013 and some rusty sections at ends were cut off. Noted that the fixed end was rusted due to salt water ingress to chain locker through the drain hole in rough conditions. Drain hole clam covers installed on all foreward lockers in 2014

**#2 anchor rode - 5metres of 10mm chain + 30+ metres of 3 plaid nylon with one hard eye. Guardian G37 anchor.**

**#3 anchor rode - chain + black multi plaid poly. Hydrobubble anchor very good for mud bottom or as a 'lunch pick'**

**#4 anchor rode - chain + white 3 plaid poly to Reef Pick**



Lazy Jacks

*See .pdf sketch*

## **STANDING RIGGING**

### **STEERING**

#### **Steering cable**

Length 13 metres 3mm flexible (11.2metres neat amount)

Replaced all wire, turnbuckles, shackles in 2012 after a turnbuckle failed. Emergency steering by standing (carefully) on the motor worked OK until lash-up could be done.

The wire is all one piece and runs through the steering drum with a swage attached inside each exit hole to stop possible slippage, holes are filled with epoxy.

Lubricate drum and blocks with good grease/oil (annually)

### **SAILS**

#### **Main**

New 2013, Evolution Sails

#### **Jib**

New 2013, Evolution Sails

#### **Spinnaker**

Original

#### **Storm jib**

Made by GM Sails 2010 (Gordon Myer who has subsequently retired and sold the business)  
Colour is 'Storm Orange'

#### **Screecher**

New 2013, Evolution Sails

## **TENDER**

Replaced Grand Elf 2.4M in 2012 after a seam burst. Heat/UV damage despite being canvas covered.

Maybe 2.7Metre is a better size for 4 people in choppy conditions.

## WOODWORK, HATCHES, FURNISHINGS

### Portlights, rain covers

Portlights are "Moonlight" brand, perspex 28x13 cm with removable insect screens. Added Velcro to stick the screens on the bulkhead 'monkey fur' when not in use.

Seaworthy Goods USA, PortVisors size "13-R" to go around 12.5" x 7" rectangular port lights aft.

### Varnish

International Gold Spar, 10 coats is best.

### Mattresses (all replaced 2012)

Doubles are 4" green medium hard with dacron upper layer 1" and breathable bottom liner.

Singles use firmer 3" yellow foam.

### Main door

Dutch Barn style. The temporary ply door permits removal of the door for routine sand and varnish.

The temp door is 23"x5' with 1.5" radius on the corners. It has holes for 2x hinges. The top tang still works but the temp door requires a bungee from outside to hold it firmly shut. Bungee goes from saddle under the wheel over the throttle control and into the hook on the door.

The custom mosquito net is delicate but quite effective. Guests need to avoid ripping it.

5 foot high, 23 inch wide, 1.5 inch radius curves on corners, 20 mm thick

2x hinges, one top tang (locked externally)

The plywood temporary door requires bungee to hold it closed properly. Used when re-varnishing the main door.

### Toilet hatch vent (solar)

Replaced the battery in 2011; Size "C" 2000mAH LiNMH

Fan should run most if not all night long, else the battery has failed.

## **Dining table**

Replaced the lightweight swinging table with a nice solid Rosewood and Silver Ash custom made table in 2013. Manufactured by Bruce Rutherford Cabinet Maker, Federation Street, Cairns.