

IRON SHIP.

No. 8290 Survey held at Port Glasgow Date, First Survey 1st June East Survey 6th Nov 1887
On the Screw Steamer "Hye Keong"

TONNAGE under Tonnage Deck } 406.48
Ditto of Third, Spar, or Awning Deck }
Ditto of Poop, or Raised Qr. Dk. }
Ditto of Houses on Deck } 60.69
Ditto of Forecastle } 24.62
Gross Tonnage } 491.79
Less Crew Space } 38.88
Less Engine Room } 57.37
Register Tonnage as cut on Beam } 295.54

ONE, OR TWO DECKED, THREE DECKED VESSEL,
~~SPAR, OR AWNING DECKED VESSEL~~
Half Breadth (moulded) 12.5
Depth from upper part of Keel to top of Upper Deck Beams 13.33
Girth of Half Midship Frame (as per Rule) 22.8
1st Number 4863
1st Number, if a 3-Decked Vessel .. deduct 7 feet
Length 178.45
2nd Number 8687
Proportions— Breadths to Length... .. 7.2
Depths to Length—Upper Deck to Keel... .. 13.4
Main Deck ditto

Master Hyon
Built at Port Glasgow
When built 1887 Launched 29th April
By whom built Blackwood & Gordon
Owners Martin Turner & Co
Residence 142 St Vincent St
Port belonging to Glasgow
Destined Voyage Singapore
If Surveyed while Building, Afloat, or in Dry Dock, While Building & Afloat

LENGTH on deck as per Rule ... 178 9 Feet. Inches. BREADTH Moulded... 25 0 Feet. Inches. DEPTH top of Floors to Upper Deck Beams... 12 2 1/2 Feet. Inches. Power of Engines ... 110 Horse. N° of Decks with flat laid ONE N° of Tiers of Beams ONE

	Inches in Ship.			Inches per Rule.		
	Inches	Inches	16ths	Inches	Inches	16ths
KEEL, depth and thickness	6 1/2	17/8	6	6 1/2	17/8	6
STEM, moulding and thickness	6 1/2	3 3/4	6	6 1/2	3 3/4	6
STERN-POST for Rudder do. do.	6 1/2	3 3/4	6	6 1/2	3 3/4	6
" " for Propeller	6 1/2	3 3/4	6	6 1/2	3 3/4	6
Distance of Frames from moulding edge to moulding edge, all fore and aft	18	1/2	21	18	1/2	21
FRAMES, Angle Iron, for 2/3 length amidships	3	3	6	3	3	6
Do. for 1/3 at each end	3	3	5	3	3	5
REVERSED FRAMES, Angle Iron	2 1/2	2 1/2	5	2 1/2	2 1/2	5
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	13 1/2	6	13 1/2	13 1/2	6	13 1/2
thickness at the ends of vessel	13 1/2	7 1/2	13 1/2	13 1/2	7 1/2	13 1/2
depth at 3/4 the half-bdth. as per Rule	7	6 3/4	7	7	6 3/4	7
height extended at the Bilges	27	27	27	27	27	27
BEAMS, Upper, Spar, or Awning Deck Single or double Ang. Iron, Plate or Tee Bulb Iron	6	6	6	6	6	6
Single or double Angle Iron on Upper edge	2 1/2	2 1/2	5	2 1/2	2 1/2	5
Average space... ..	42	42	42	42	42	42
BEAMS, Main, or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	-	-	-	-	-	-
Single or double Angle Iron on Upper Edge	-	-	-	-	-	-
Average space... ..	-	-	-	-	-	-
BEAMS, Lower Deck—Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	-	-	-	-	-	-
Single or double Angle Iron on Upper Edge	-	-	-	-	-	-
Average space... ..	-	-	-	-	-	-
BEAMS, Hold, or Orlop—Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	-	-	-	-	-	-
Single or double Angle Iron on Upper Edge	-	-	-	-	-	-
Average space... ..	-	-	-	-	-	-
KEELSONS Centre line, single or double plate, on floor beam, or Intercoastal, Plates	6 1/2	76	6 1/2	6 1/2	76	6 1/2
" Rider Plate	7 1/2	7	7 1/2	7 1/2	7	7 1/2
" Bulb Plate to Intercoastal Keelson	3 1/2	3	6	3 1/2	3	6
" Angle Irons	3 1/2	3	6	3 1/2	3	6
" Double Angle Iron Side Keelson	3 1/2	3	6	3 1/2	3	6
" Side Intercoastal Plate	-	6	-	-	6	-
" do. Angle Irons	-	-	-	-	-	-
" Attached to outside plating with angle iron	2 1/2	2 1/2	5	2 1/2	2 1/2	5
BILGE Angle Irons	3 1/2	3	6	3 1/2	3	6
" do. Bulb Iron	6	6	6	6	6	6
" do. Intercoastal plates riveted to plating for length	-	-	-	-	-	-
BILGE STRINGER Angle Irons	3 1/2	3	6	3 1/2	3	6
Bulb Intercoastal plates riveted to plating for half length	6	6	6	6	6	6
SIDE STRINGER Angle Irons	3 1/2	3	6	3 1/2	3	6
Bulb for 3/5 of length	6	6	6	6	6	6

	Inches in Ship.	16ths in Ship.	Inches per Rule.	16ths per Rule.
Flat Keel Plates, breadth and thickness	30	12	30	12
PLATES in Garboard Strakes, br'dth & thickness	41	9	30	9
" From Garboard to upper part of Bilges	-	7	-	7
" Of d'bling at Bilge, or increased thickness, and length applied	-	8	-	8
" From up. prt of Bilge to lr. edge of Sh'rstrake	-	7	-	7
" Main Sheerstrake, breadth and thickness	33	11	33	11
" Of d'bling at Sh'stk. & lng. applied	-	-	-	-
" From M'n. to Up. or Spar Dk. Sh'rstrake	-	-	-	-
" Up. or Spar Dk Sh'rstrake, br'dth & thicken'ss	-	-	-	-
Butt Straps to outside plating, breadth & thickness	9 3/4	11 1/2	9 3/4	11 1/2
Lengths of Plating	6-8-10-13	6-8-10-13	6-8-10-13	6-8-10-13
Shifts of Plating, and Stringers	2, 8, 4	do	2, 8, 4	do
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	42	8	42	8
Angle Iron on ditto	3 1/2	3	3 1/2	3
Tie Plates fore and aft, outside Hatchways	8	7	8	7
Diagonal Tie Plates on Beams No. of Pairs	-	-	-	-
Flat of Up., Spar, or Awning Dk.	Yellow Pine	3 1/2	3 1/2	-
How fastened to Beams	G. Strakes & nuts	8	8	-
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	-	-	-	-
Is the Stringer Plate attached to the outside plating?	-	-	-	-
Angle Irons on ditto, No.	-	-	-	-
Tie Plates, outside Hatchways	-	-	-	-
Diagonal Tie Plates on Beams, No. of pairs	-	-	-	-
Flat of Middle Deck* do. do.	-	-	-	-
How fastened to Beams	-	-	-	-
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	-	-	-	-
Is the Stringer Plate attached to the outside plating?	-	-	-	-
Angle Irons on ditto, No.	-	-	-	-
Stringer or Tie Plates, outside Hatchways	-	-	-	-
Flat of Lower Deck*	-	-	-	-
Ceiling betwixt Decks, thickness and material	2	-	2	-
" in hold do.	2 1/2	-	2 1/2	-
Main piece of Rudder, diameter at head	4 1/2	-	4 1/2	-
" do. at heel	2 1/2	-	2 1/2	-
Can the Rudder be unshipped afloat?	Yes	-	-	-
Bulkheads No. per Rule	Four	-	-	-
" Thickness of	4 1/2	-	4 1/2	-
" Height up	upper deck	-	-	-
" How secured to sides of ship	Double Frames	-	-	-
" Size of Vertical Angle Irons	2 1/2 x 2 1/2 x 9	-	-	-
" and distance apart	30 ins.	-	-	-
" Are the outside Plates doubled two spaces of Frames in length?	Yes	-	-	-

The FRAMES extend in one length from Keel to gunwale Riveted through plates with 3/4 in. Rivets, about 3 in. apart.
The REVERSED ANGLE IRONS on floors and frames extend from middle line to Bilge Stringer and to gunwale alternately
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes
PLATING. Garboard, double riveted to Keel, with rivets 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.
" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/2 ins. from centre to centre.
" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/2 ins. from centre to centre.
" Butts of one Strakes at Bilge for half length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.
" Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.
" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.
" Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.
" Butts of Main Sheerstrake, double riveted for whole length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1 length amidships.
" Butts of Main Stringer Plate, treble riveted for half length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1 length.
" Breadth of laps of plating in double riveting 5 1/4 x 1 1/2 Breadth of laps of plating in single riveting 2 5/8
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double & Sole No. of Breasthooks, Five Crutches, Three
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Good
Manufacturer's name or trade mark, Plates - Foxhead & Co angles Stockton & Co
The above is a correct description.
Builder's Signature, Blackwood & Gordon Surveyor's Signature, Dawkins Lloyd's Register

Workmanship. Are the butts of plating planed or otherwise fitted?

Planed

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies?

Yes

Are the fillings between the ribs and plates solid single pieces?

Yes

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other?

Yes

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces?

Yes a few in the butts

Do any rivets break into or through the seams or butts of the plating?

Masts, Bowsprit, Yards, &c., are Wood in good condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name. State also Length and Diameter of Lower Masts and Bowsprit

Rigged as a Fore and aft Schooner.

NUMBER for EQUIPMENT 9266

SAILS.	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprntd.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate	W ^g t req'd per Rule.	Machine where Tested & Suprntd.
Fore Sails,	Chain .. 60.00	105 1/2	1 1/2	223 1/2	1 1/2	Edgell	Bower Anchors	7000	10-0-2 1/2	12-4-1-14	10-0-0	Edgell
Fore Top Sails,	Iron Stream Chain or Steel Wire ..	90	1 1/2	173 1/2	1 1/2	Lipton		6999	10-0-0	12-0-0-0	10-0-0	Lipton
Fore Topmast Stay Sails,	or Hempen Strm } Cable	60 3/4	1 1/2	107 1/2	1 1/2			4026	8-2-7	10-15-0-0	8-2-0	Lipton
Main Sails,	Towline, Hemp. or Steel Wire ..	75	8	75-8				Total	28-3-0	Total 28-2-0		
Main Top Sails, and others	Hawser	90	6	90-6			Stream Anchor	7025	3-3-12	6-5-1-7	3-8-0	
	Warp						Kedge	6997	1-3-44	7-0-2-1	1-3-0	
	quality <u>good</u>						2nd Kedge		4-0-15		3-0	

Standing and Running Rigging of fine Manila sufficient in size and good in quality. She has one long Boat and 2 others

The Windlass is Keids good Capstan and Rudder good Pumps good as per sketch

Engine Room Skylights.—How constructed? Coming plates 36x60 How secured in ordinary weather? Balbed

Coal Bunker Openings.—How constructed? Circular How are lids secured? Double covers Height above deck? Flush

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Four scuppers & three ports each side

Cargo Hatchways.—How formed? 20x6 1/2 Coming plates riveted to beams & 1/2 beams

State size Main Hatch 8 1/2 x 7 1/2 Forehatch 8 1/2 x 7 1/2 Quarterhatch ✓

If of extraordinary size, state how framed and secured? Strong fore and afters in each

Hatches, if strong and efficient? Solid 2 1/2 thick

Order for Special Survey No. 1075 Date 24th Nov 82

Order for Ordinary Survey No. 178 Date 1st Nov 82

No. 178 in builder's yard. DATES of Surveys held while building as per Section 18.

General Remarks (State quality of workmanship, &c.) Quality of materials & workmanship good

This vessel has been constructed in accordance with the accompanying approved sketches (2 Nos) of midship section, elevation & deck plan and in all other aspects with the Rules.

How are the surfaces preserved from oxidation? Inside Cement & red lead & paint Outside Paint

I am of opinion this Vessel should be Classed 100 A. 1

The amount of the Entry Fee ... £ 5: 0: 0 is received by me, Sur

Special ... £ 22: 13: 0 1st Nov. 1882

Certificate ... Gratis

(Travelling Expenses, if any, £ ...)

Committee's Minute Friday, 10th November 1882.

Character assigned 100 A. 1

1beck 17/11/82

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

247
Specially Surveyed 1882: —
June 1. 9. 20; July 19. 27; Aug 15. 18. 28;
Sept. 4. 12. 22. 27; Oct. 3. 16. 26. 31; Nov. 6

Lloyd's Register Foundation