



QE2 TECHNICAL

August 2017

Launched by Her Majesty the Queen in 1967, she was the fastest and most powerful liner in service for most of her career and, as a result of continuous improvements to both passenger facilities and engineering, remained both luxurious and up-to-date. At just over 70,000 tons she was by the 1990s onwards by no means the biggest passenger ship in the world, but she was undoubtedly the most famous. The last passenger ship built on the Clyde, QE2 spent the first three months of each year on a World Cruise, and between May and December operated a schedule of Atlantic crossings and cruises to the Mediterranean, Northern Europe, Canada and the Caribbean to and from Southampton.

GENERAL INFORMATION

KEEL LAID:	4 July 1965
LAUNCHED:	20 September 1967 by Her Majesty Queen Elizabeth II
BUILT BY:	John Brown and Co. (Clydebank) Ltd, Scotland; later Upper Clyde Shipbuilder
COST:	£28,825,185.
MAIDEN VOYAGE:	2 May 1969 Southampton to New York
RE-ENGINEED:	November 1986 - April 1987, by Lloyd Werft, Bremerhaven, Germany
PORT OF REGISTRY:	Southampton, England.
SIGNAL LETTERS:	G.B.T.T.
OFFICIAL NUMBER:	336703

VITAL STATISTICS

TONNAGES

Gross:	70,327 grt
Net:	37,182 nt
Deadweight:	11,590 dw

LENGTHS

Overall:	963 feet (293.53 metres)
Bridge to Stem:	282 feet 2.5 inches (86 metres)
Bridge to Stern:	724 feet 10 inches (220 metres)

QE2 is eight times longer than the Statue of Liberty is high (111 feet), three times as long as Big Ben (310 feet), as long as 30 double-decker London buses (31½ feet each), more than twice as long as St Paul's Cathedral (366 feet), and only 21 feet shorter than the height of the Eiffel Tower (984 feet).

BREADTH: 105 feet 2.5 inches (32.06 metres)

DRAUGHT: 32 feet 7.5 inches (9.94 metres)

HEIGHTS

Mast head above Keel:	200 feet 1.5 inches (61 metres)
Funnel above Keel:	204 feet 1.5 inches (62.2 metres)
Masthead above Sea Level:	167 feet 1 inch (51.054 metres)
Funnel:	69 feet 6 inches (21.2 metres)
Bridge Height of Eye:	95 feet (29 metres)

PASSENGER CAPACITY: 1787

DECKS: 13

PASSENGER DECKS: 12

Propellers:

Two outward-turning, controllable-pitch. Diameter 19 feet 8 inches (6.1 metres). The propeller shafts are both 262 feet 6 inches (80 m) long and 23 feet 2 inches (5.9 metres) in diameter. Built by Lips, Drunen, Netherlands.

Bow Thrusters:

Two Stone KaMeWa of 1,000 hp per unit.

Steering Gear:

Brown Bros. 4 Rom Electro-hydraulic.

Stabilisers:

Four Denny Brown; each fin projects from the ship's side by 12 ft (3.65 m) and is 6 ft (1.85m) wide. They reduce rolling by 60%.

Speed:

Maximum - 32.5 knots

Service – 25 - 28.5 knots.

Service speed was achievable using only 7 of the 9 engines.

Fuel Consumption:

18.05 tonnes per hour, or 433 tonnes per day.

- This is equal to six of the ship's swimming pools.
- The ship's fuel oil tank capacity of 4,381.4 tonnes was sufficient for 10 days' sailing at 32.5 knots, equalling 7,800 miles.
- One gallon of fuel moved QE2 49.5 feet; with the previous steam turbine engines, one gallon of fuel moved the ship 36 feet.

Tank Capacities:

Fresh Water - 1,852.0 tonnes.

Laundry Water - 489.0 tonnes.

Diesel Oil - 206.8 tonnes.

Fuel Oil - 4,381.4 tonnes.

Lubricating Oil - 335.7 tonnes.

Ballast - 4,533.0 tonnes.

Feed Water - 113.8 tonnes.

Water Production / Consumption:

- Four Serck vacuum flash evaporators, producing 250 tonnes each per day.
- One reverse osmosis plant producing 450 tonnes.
- **Total production** - 1,450 tonnes per day.
- **Consumption** - about 1,000 tonnes per day; equivalent to 14 of the ship's swimming pools.

Anchors:

- **Forward** - two of 12.5 tons each, on 3 15/16" diameter cable 1,080 feet long.
- **Aft** - one of 7.5 tons, on 3" diameter cable 720 feet long.
- **Spare** – one of 12.5 tons.

Rudder Weight: 80 tons

Stopping Capability:

- The ship could reduce speed from 32.5 knots full ahead to standstill in 3 minutes 39 seconds, in a distance of 0.75 nautical miles (1.39 km).
- The ship could go from standstill to full speed astern (19 knots) in 12 minutes.

SAFETY INFORMATION

Lifeboats: 20; total capacity 2,244 persons

Life rafts: 56; total capacity 1,400 persons

Buoyant Apparatus; 5; total capacity 100 persons

Lifejackets: 3,474

Lifebuoys: 30

FOOD & BEVERAGE

Consumption and Stores

	DAILY	ANNUALLY
Tea Bags	2,500 bags	912,500 bags
Coffee	100 lbs	16.5 tons
Cooking oil	50 gallons	18,250 gallons
Eggs	3,200	1,168,000
Milk	230 gallons	83,950 gallons
Butter	350 lbs	58 tons
Breakfast cereal	770 packets	281,050 packets
Marmalade / jam	553 portions	201,050 portions
Bananas	230 lbs	38 tons
Strawberries	125 lbs	20 tons
Fruit juice	640 gallons	233,600 gallons
Tomatoes	120lbs	43,800 lbs
Smoked salmon	30 kilos	11 tons
Caviar	6.6 lbs	2,409 lbs
Lobster	116 lbs	42,340 lbs
Strip loin	450 lbs	164,250 lbs
Flour	753 lbs	122 tons
Rice	380 lbs	62 tons
Potatoes	694 lbs	62 tons
Saffron	1.5 packets	547.5 packets
Beer	2,400 bottles	5,309 gallons
Spirits	180 litres	65,700 litres

Champagne	200 bottles	73,000 bottles
Wine	370 bottles	135,050 bottles
Soft drinks	820 bottles	299,300 bottles
Cigarettes	1000 packets	365,000 packets
Cigars	41 boxes	12,425 boxes
Doilies		Over 2 million
Napkins and Cocktail Stirrers		Over 1 million each
Alumium Foil		125 miles

- QE2 sent all her used cooking oil ashore for reconstituting into animal feed.
- 277,000 metres of cling film was used very year, enough to go around QE2 nearly 731 times.
- Heineken and Becks together account for almost 50% of the beer consumed.
- Pound for pound, the most expensive food item on board was saffron (2.5 times the value of Beluga caviar).
- The number of tea bags used each day would supply a family for an entire year.
- To eat QE2's daily consumption of breakfast cereal, two people would have to eat at least one packet a day for more than a year.
- Enough fruit juice was used in one year to fill up QE2's swimming pools nearly 8 times.
- Approximately 600,000 litres of beverage were consumed annually.
- If all the cigarettes smoked annually on board (6.5 million) were placed in a line, the line would be 370 miles long which is equivalent to the distance from London to Edinburgh.
- On a six-day transatlantic crossing, the following beverages were consumed
 - Gin 600 bottles (7 brands)
 - Rum 240 bottles (5 brands)
 - Vodka 129 bottles (3 brands)
 - Brandy 240 bottles (10 brands)
 - Liqueurs 360 bottles (18 types)
 - Sherry 240 bottles (5 brands)

Port	120 bottles (4 brands)
Fruit Juice	25,720 cans

The ship carried:

- 203 different wines from 11 countries and 4 continents
- 171 spirits and liqueurs
- 37 champagne labels
- 59 brands of cigarettes
- 21 brands of cigars.

The kitchens and dining rooms had:

glassware	51000 items
crockery / dishes	64000 items
cutlery	35850 items
kitchenware	7921 items
tableware	64531 items

(condiment sets, serving trays and a variety of other pieces in silver and stainless steel).

THE LAUNDRY LIST

Linen consumption on a transatlantic voyage:

tablecloths	2932
blankets	4300
oven cloths	1000
sheets	11600
pillow cases	3100
laundry bags	3250

PUBLIC ROOMS AND PASSENGER FACILITIES

Restaurants

NAME	DECK	CAPACITY
Queens Grill	Boat	231
Princess Grill	Quarter	100
Britannia Grill	Quarter	108
Caronia Restaurant	Quarter	554
Mauretania Restaurant	Upper	530
The Lido	Quarter	400
Pavilion	One	58

Lounges

NAME	DECK	CAPACITY
Grand Lounge	Upper	590
Queens Room	Quarter	320
Theatre / Cinema	Upper and Boat	529
Queens Grill Lounge	Boat	75
Princess Grill Bar	One	12
Yacht Club	Upper	208
Chart Room	Quarter	88
Crystal Bar	Upper	182
Golden Lion	Upper	135
Midships Lobby	Two	15

Facilities

NAME	DECK	CAPACITY / NOTES
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Casino	Upper	Featuring 106 slot machines; four Blackjack tables; two Roulette tables; two Caribbean Stud Poker tables; one mini Punto Blanco and one mini-dice.
Royal Promenade	Boat	Shops included: souvenirs, clothing, jewellery, perfumery. There is a formal wear rental facility and a branch of Harrods. A Cunard Collection Shop is located on One deck.
Board Room	Boat	Could be arranged in a variety of seating styles: Conference 24 seats Theatre 50 seats Classroom 20 seats Cocktail Party 60 people
Library and Bookshop	Quarter	30 With 6,000 books, this was the largest library at sea (and the only one staffed by two full-time librarians).
Computer Learning Centre	Two	

General

NAME	DECK	CAPACITY / NOTES
Nursery	Sun	
Club 2000	Quarter	For the 7 to 17 age range; featured video arcade machines, board games and a dance floor for discos.
Kennels	Signal	Could accommodate 14 animals (dogs, cats and birds).
Hospital	Six	Fully equipped, with ward accommodation for 12 patients. Can deal with most medical cases.

Synagogue	Three	
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PASSENGER ACCOMMODATION

Total number of staterooms: 947
 Outside doubles 636
 Outside singles 32
 Inside doubles 204
 Inside singles 75
 Staterooms equipped for disabled passengers 4

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TYPE	GRADE	NUMBER	DECKS LOCATED	AVERAGE Sq Ft
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Doubles

Grand Suites	Q1	2	Signal	1,184
Luxury Suites	QS	3	Boat, Two	575 - 777
	Q2	29	Signal, Sun, One, Two	355
Ultra Deluxe, outside, bath	Q3	59	Boat, Sun, One, Two	355
	Q4	14	One, Two	280
	P1	51	One, Two	245

	P2	50	Two, Three	241
	P3	4	Three	239
	P4	2	Three	
Outside, bath	C1	22	Three	200
	C2	82	One, Two, Three	195
	C3	66	One, Two, Four	205
Outside, shower	C4	6	Three	180
	C5	70	Two, Three, Four	160
	C6	2	Four	
	M1	147	Three, Four, Five	151
	M2	25	Five	146
	M3	2	Five	
Inside, shower	M4	144	Two, Three, Four, Five	121
	M5	21	Five	115
Inside, bed & upper berth, shower	M6	37	Two, Four, Five	
	M7	2	Five	

Singles

Ultra Deluxe, outside, bath	QG	12	Boat, One, Two	245

Deluxe, outside, bath	PG	2	Two	167
Outside, shower	CA	8	One, Two, Three	150
	MO	15	Two, Three, Four, Five	99
Inside, shower	MI	70	One, Two, Three, Four, Five	87

Queen Mary and Queen Elizabeth Grand Suites

QE2's two ultra-luxurious 'Grand Suites', named after the most illustrious Cunarders, were among the largest and most lavish suites afloat. Each 1,184-square foot Grand Suite was decorated in creams, beiges, light woods and feature a bedroom with private veranda, complete with walk-in closet and marble bathroom. A double door led to a dining area, which in turn adjoined a raised lounge, leading to a glass-covered conservatory and private, forward-facing deck area.

Restaurant Allocation

Q Grades	Queens Grill
P Grades	Princess or Britannia Grills
C Grades	Caronia Restaurant
M Grades	Mauretania Restaurant

Crew:

Approximately 1016

Nationality of Officers:

Mainly British

Nationality of Staff:

International

Captain	1	Fitness Instructor	4
Staff Captain		Florists	2
Hotel Manager	1	Gentleman Hosts	10
Chief Engineer	1	Hairdressers	13
Purser	1	Hotel Officers	35
Cruise Director	1	Kitchen Supervisors	2
Administrations Assistant	1	Laundry Staff	17
Assistant Restaurant Managers	12	Librarians	2
Baggage Masters	2	Linen Keeper	1
Bank Staff	3	Lido Supervisor	4
Barkeepers	17	Master at Arms	4
Beauticians	2	Medical Dispenser	1
Bedroom Stewards/esses	69	Night Stewards	6
Bell Boy	2	Nursery Nurses	2
Bosun	1	Nursing Sisters	3
Bosun's Mate	1	Orchestra Staff	23
Casino Staff	16	Personnel Manager	1
Chef's de Cuisine	5	Photographers	4
Chefs/Sous-Chefs	107	Printers	4
Commis Waiters	13	Public Room Stewards/esses	25
Crew Administration Assistant	1	Public Room Supervisor	1
Crew Cooks	2	Radio Officer	1

Cruise Sales Manager	2	Radio Officer Assistants	3
Cruise Staff	9	Security Officer	1
Dancers	10	Secretaries	3
Data Input Clerks	5	Shop Assistants	18
Deck Officers	10	Staff Bedroom Stewards	6
Deck Ratings	36	Store Manager	3
Deck Supervisors	9	Storekeepers	5
DJ	1	Tour Staff	3
Doctors	2	TV Managers	1
Engineering Officers	26	Utility Staff	182
Engine Ratings	65	Waiters/Waitresses	117
Entertainers	5	Assistant Waiters	59
Executive Chef		Wine Stewards/esses	22

FINALLY...

QE2 had...

- 2,252 light fixtures in passenger areas
- 74,200 square yards of chair and curtain fabric
- 1,350 portholes
- 577 windows
- The most powerful propulsion plant on a non-military vessel.
- The most extensive medical facilities after a hospital ship

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