NORWEGIAN JEWEL

NORWEGIAN CRUISE LINE®
FREESTYLE CRUISING®

Fact Sheet

The ***Norwegian Jewel*** is considered an amazing construction project. She was completed on August 4th, 2005 by the Meyer Werft Shipyard in Papenberg, Germany after 2 years and at an estimated cost of $420 million. Her maiden voyage started in Europe on August 10th 2005. Some interesting facts & figures:

- 810 miles of electric cable & 65 miles of pipe in her hull
- 835 exterior windows & 1834 interior doors
- 1000 gallons of paint were used to cover her exterior and an additional 3000 gallons for interior surfaces.
- 12 pax elevators & 10 elevators for guests & crew
- over 25,000 light bulbs of various sizes and shapes light the way.
- 6800 nozzles & 437 fire hydrants provide fire protection in all spaces
- Approximately 1200 Crew representing over 60 nationalities work on board
- Ship's Registry: Nassau, Bahamas
- Ship's Call Sign: C6TX6
- Gross Tonnage: 92,100
- Length: 294.13 meters / 964.98 feet
- Width (max): 38.10 meters / 125 feet
- Height: 59.5 meters / 195.2 feet
- Draft: 8.30 meters / 27.2 feet
- Maximum Speed: 25 knots / 28.75 MPH

1 nautical mile = 1.15 land miles = 1852 meters = 1.852 km
1 knot = 1 nautical mile/hour = 1.15 land miles/hour = 1852 km/h

Why is a ship called a "she"?

A ship is called a "she" because there is always a great deal of bustle around her and there is usually a gang of men about. She has a waist and stays and it taked a lot of paint to keep her goodlooking. It is not the initial expense that breaks you, it is the upkeep. She can be all decked out. It takes an experienced man to handle her correctly. And without a man at the helm, she is absolutely uncontrollable.

ENGINE ROOM FACTS & FIGURES:

PROPULSION POWER

Electric Propulsion Plant

- **2 ABB Azipods** - each pod 19500Kw. Total of 53040 **HP**

Power Plant **(DIESEL GENERATORS)**

- *Auxiliary Engines*: 5 MAN B&W V12 B 48/60
  - V12 Engines each 14,400 kW / 19,584 HP

TOTAL ENGINE OUTPUT: 72000 Kw / 97920 HP

Bow Thrusters 3 Brunwoll CP

Each 2400 kw / 3264 HP - TOTAL = 7200 Kw / 9792 HP

Two Azipod propellers measure 6 meters in diameter & have 5 blades each. They are fixed propellers.

NAVIGATIONAL INSTRUMENTS

Integrated navigation system that includes:

- 3 Chart radars with Radar, ECDIS & ARPA functions
- Navigational Control Console (cockpit NCC)
- Speed-Pilot / Auto-Pilot / Track Pilot
- Planning & consultation station (Chart pilot 3220 DP)
- Kongsberg Simrad Dynamic Positioning System (DP)
- 2 fiberoptic gyrocompasses, 7 VHF, 2 DGPS, Loran C, Log & Depth Sounder

FACTS & FIGURES ON THE BRIDGE

Steering Console (Helm)

- There are three ways to steer the ship; steering wheel, joystick, and Track pilot (automatic pilot). Apart from these steering controls at the helm, there are also steering controls on each bridge wing.

Signal Horn & Alarm Bell

- These are used to sound maneuvering and warning signals for navigation and to sound the emergency signal (7 short & 1 long blast) here on the ship.

VHF Radio

- Very High Frequency radio communication. Used primarily for ship-to-ship and ship-to-shore communication. The range of the VHF radio is less than 50 miles.

MF/HF Radio

- Medium Frequency & High Frequency radio. Similar to HAM radio, this system is used for long-range communication.

Maneuvering Panel

- Located on the enter of the bridge, this controls the operation of the main engines and bow thrusters. In addition to having these controls on the bridge, they are also located on the bridge wings on each side of the ship to allow the Captain to look down the sides of the ship as we pull into or away from a pier.

Azipod Ship

- No rudders on board. Instead the 2 Azipods can be turned 360°, and you steer by turning the pods.

GPS Navigator

- The GPS (Global Positioning System) consists of twenty-four satellites in an orbit around Earth. By receiving the signal from at least 3 of these satellites we are able to maintain continuous tracking of the ship's position, exact speed, and accurate time.

Gyro Compass

- An electronic instrument that indicates true direction based from true North. We have two fiberoptic gyro (Dual Fog Gyro 2100) and several repeaters.

Bridge & Web Camera (WWW.NCL.COM)

- Shows 24 hour Front of Ship shot.

Magnetic Compass

- The direction is determined by Earth's magnetic field (Magnetic Poles).

Anchors/Windlass

- 2 anchors (+1 spare) each weighing approx. 12 tones
- 2 anchor chains each 350 meters / 1286 feet
- 2 windlass forward (Pusnes Maritime Windlass 2x42 tons) & 4 mooring winches Pusnes Maritime Auto Tension Winches (2 fwd and 3 aft 35 tons)

VHF Radio Detection Finder

- This instrument is used to determine the direction to a radio beacon for navigation or to find the direction to a vessel in distress.

Charts

- A detailed nautical map that shows all land, water depth & currents. The Navigational Officer (OOW) regularly plots our position on the charts. We also have electronic charts and an integrated cockpit system.

COMMUNICATION

We are equipped with the most sophisticated telecommunications system available. This system consists of 2 Comsat satellite terminals with voice, fax, telex and data, 2 satellite facsimile receivers, 1 complete HF/MF radio stations included in GMDSS

station with Sitor telex and sat C telex. There are also two satellite dishes for TV reception and one C-band communications satellite with 12 voice/fax lines, high-speed data & Internet.

Garbage Incinerator & Processing

- 2 Norsk Inova garbage incinerators, which burn the dry garbage that is not disembarked for recycling.
- We are equipped with "state of the art" garbage processing equipment. Our system was designed and manufactured in Norway for Marine use.

Radar

Stands for **Radio Detection and Ranging**. We have 4 ARPA (Automatic Radar Plotting Aid) radars, which give the navigator a picture of the coastline, islands, beacons, other ships, and similar objects on the surface.

Sextant

Used for celestial navigation to determine our position by observing stars, planets, the sun, and the moon.

Log Book

This book is used to log information such as arrival times, departure times, speed, and change in course. They can be used to reconstruct previous voyages.

This voyage, from NY to NY (round trip) we will have sailed 2356 Nautical Miles = 2709 Statue or land miles.

Navtex & Clinometers

- Navtex Receives navigational warnings and weather forecasts. Clinometers measures the list of the vessel.

Fire Detection Panel (Consilium)

An alarm will sound on the Bridge if a detector has been activated. The panel will display the exact location of the alarm. The detectors can be activated by smoke, heat or if removed or tampered with. Do not touch these!

LIFEBOAT & SAFETY INFORMATION

- 20 Life Boats each holding 150 persons = 3000 persons
- 4 chute stations with 3 life rafts each, 8 spare life rafts
- Each life rafts holds 101 person (2020 persons)
- 38 Life Buoys and 2 MOB boats
- 8096 Life Jackets (20 additional life jackets for infants)
- 437 Fire Hydrants (40 of these are in the Engine Room)
- 7 Fire Stations (certified fire fighting team onboard)
- Maximum Combined Life Boat and Life Raft Capacity = 5020 persons

To ensure the safety of all guests, a simulated emergency drill is held every week for crew members. At that time, lifeboats are lowered to ensure there are in proper working order.

FUEL USE & CAPACITY

- Fuel Oil Capacity: ca 2,700 m3 = **713,300 gallons**
- Fuel Oil Consumption at service speed: ca 260 m3 per day = 68.500 gallons = 48 gallons per min.
- Fuel Type: Heavy Bunker B IFO 380 cst
- Fuel Oil Temperature before Engines: ca 300°F / 135°C

AIR CONDITIONING

- 5 Carrier AC Compressor units, cooling capacity total of 22500 Kw

LAUNDRY FACILITIES

- 6 Large Washers (256 lbs. max loads)
- 2 Medium Washers (125 lbs. max loads)
- 1 small washer (for delicates & linens)
- 8 Dryers (134 lbs. max loads)

FRESH WATER MANUFACTURER

- **Fresh Water Capacity**: 2820 m3 = 744965 gallons
- **Fresh Water Consumption**: Approx. 950 m3 / day = 250963 gallons.

We produce fresh water on board from sea water through process of evaporation & reverse osmosis

- **Fresh Water Production**: 2800 m3 / day = 739681 gallons / day

STEAM PRODUCTION

- 2 Aalborg boilers (oil) and 5 economizers (exhaust gas boilers)

STABILIZERS

- 1 set of Sperry Marine stabilizers, 18 sq. meters ABT.
- 1.83 m WIDE & 6.37 m. LONG

PERSONNEL

The M/S Norwegian Jewel is comprised of approximately 1200 men and women from over 60 countries. The ship's personnel is divided into 3 departments, which all are under the Captain's command.

DECK: Led by the **Captain,** includes all Bridge Officers, Deck, Medical, Security and Safety Departments.

ENGINE: Led by the **Chief Engineer,** includes all Engine Officers, Electrical, Technical Hotel and Referigeration Departments who maintain and operate all mechanical, electrical and ventilation aspects of the ship.

HOTEL: Led by the **Hotel Director**. Includes all Stewards, Pursers, Cruise Director and Staff, Galley and Bar Staff.

All crew dine in various dining rooms (messes) located on Deck #5. There is also a crew Internet café, crew recreational area, & gym.

GALLEY INFORMATION

The Galley is the Culinary Heart of the *M/S Norwegian Jewel.*
The **Executive Chef** is in charge for the entire Food Operation in all the Outlets throughout the Ship. He has three Assistants:
One Exec. Sous Chef for the daily Operation in the Main Galley,
One Sr. Sous Chef for the Alternative Restaurants,
and **One Chef de Cuisine** for the Garden Café & Buffet Preparations.
The Food & Beverage (F&B) team is comprised of approximately 600 crew!!

Main Hot Galley - Located between Tsar's & Azura restaurants on Deck # 6. Here we prepare all hot dishes for breakfast, lunch and dinner. All entrees are cooked and plated just before the Waiter/ Waitress is ready to serve you.

Crew Galley - located on Deck # 5. Here we cook all the meals for approximately 1200 Crew Members.

Each other specialty restaurant has its very own galley.

The Pantry - In this station in the Galley we prepare all the cold Appetizers, Salads, Sandwiches, Canapés, the Cold Food items for the Lunch and Dinner Buffets. All Ice, Vegetable and Fruit Carvings are prepared here as well.

Fish, Meat & Poultry Stations - All specific preparations to these items are done individually at these different stations.

Bakery - All bakery Products are made onboard. The Bakery is in Operation 24 hours a day.

Pastry - This is where all Desserts and Pastry Items are made fresh on a Daily basis. For your Information, we use over 350 lbs of Dark and 150 lbs of White Chocolate, only for Choc. Buffet.

Executive Chef & Weekly "Shopping" List:

1,500 lbs.	Cereal	2,500 lbs.	Butter
1,300 lbs.	Pasta	2,600 lbs.	Cheese
30,000 lbs.	Fresh Fruits	3000 lbs.	Sugar
3,800 doz	Fresh Eggs	6500 lbs.	Fish
2,000 lbs.	Veal	1000 lbs.	lobster
12,000 lbs.	Poultry	12,000 lbs.	Beef
1,200 gallons	Ice cream	2,600 lbs.	Seafood
4,500 Cups	Yogurt	900 lbs.	Coffee
34,000 lbs.	Vegetables	1,800 gallons	Milk
8,500 lbs.	Potatoes	5,000 lbs.	Rice
7,000 lbs.	Flour	250	types of wine