

## MAJESTY 105

# TECHNICAL SPECIFICATIONS

Please note this is the technical specifications of Majesty 105. The right is reserved to add, modify or delete during the final product development programme.

# MAJESTY YACHTS

by 

## Principal characteristics

Length overall	107 ft (32.681 m)
Length water line	88 ft 9 in (26.627 m)
Maximum Beam	23 ft 3 in (7.130 m)
Draft at maximum load	5 ft 10 in (1.779 m)
Displacement	96 t approximately
Fuel capacity	4,000 US gal (15,141.65 l)
Fresh water capacity	800 US gal (3,028.32 l)
Black water capacity	150 US gal (567.8 l)
Grey water capacity	150 US gal (567.8 l)
Generators	2 x 50 kW, 50 Hz
Engines	2 x 1,800 Bhp, 2,400 rpm
Speed approximately	26 knots
Vessel type	FRP luxury motor yacht

## Specifications Overview

- Power assisted electro hydraulic steering system
- Hydraulic bow thruster 65 hp
- 24 VDC and 380/220 VAC electrical system
- 3-phase shore power dockside connection (100 A) with 25 m length cable and cable master system
- 2 x Kedge anchors, each capacity 85 kg
- 2 x anchor chains GI x 14 mm diameter x 115 m length
- 2 x hydraulic anchor winch with dual station controls
- Dual station electro hydraulic trim tabs controls with gauges
- Dual station autopilot
- Dual station VHF radio
- Dual stations forward and aft search lights controls
- Stainless steel framed saloon door
- Refrigerator in the galley
- Sundeck electric barbeque
- Sundeck wet bar including sink
- Sundeck refrigerator
- Sundeck upholstered sofa seats and table
- Electric quiet flush toilets
- Stainless steel transom doors
- Fresh water deck wash connections at swim platform
- AISI 316L stainless steel stanchions and guard railings
- 6 x stainless steel cleats at two on aft cockpit, two on swim platform and two on forward area
- 6 x hawser pipes at two on aft cockpit, two on mid ship and two on bow area
- 2 x propellers, 5-bladed, AB2 material
- 2 x duplex steel tail shafts
- Pressurized hot and cold water system
- Hot and cold water transom shower
- Water maker capacity 140 l/h, 220-240 V, 50 Hz
- Chilled water air conditioning system with capacity 288,000 Btu
- 2 x electric water heaters (each capacity 60 l)
- Teak laid deck on aft cockpit, swim platform and sundeck stair way
- Fire detection system in all cabins
- Fixed fire extinguishing system in engine room
- Stainless steel framed portholes with clear safety glass

- Port and starboard side capstans at rear deck
- TRAC 370 stabilizing system (optional)
- Crane 800 kg capacity (optional)
- Night vision camera monitoring system (optional)
- Marble flooring and counter top in kitchen, bath rooms and bar (optional)
- 12 x under water lights (optional)
- Thuraya satellite phone/fax (optional)
- Hydraulic swim platform transformer (optional)
- Teak decking at sundeck (optional)
- Intercom telephone system (optional)
- Stern thruster 35 hp (optional)
- Dingy and jetsky (optional)
- Sundeck jacuzzi system (optional)

## Hull and superstructure construction

### Hull

- GRP sandwich construction with ATC closed core cell foam applied by the way of vacuum bagging
- Lamination with isopathalic polyester resin and skin coat of vinylester resin
- ATC core frames and bulkheads
- Biaxial E glass for inner and outer skin laminate
- Hand layup

### Superstructure

- GRP sandwich laminate with balsa core sandwich

### Deck fittings

- Teak laid deck at aft cockpit, transom platform and sundeck stairway
- 2 x electro hydraulic anchor windlasses with fore deck, main helm and sundeck controls
- 2 x stainless steel anchor pockets for automatic anchor launch and retrieve
- 2 x anchor 85 kg with chain 14 mm diameters, 115 m length
- Deck hatch access to chain locker
- Forward deck hatch access to owner's ensuite
- Full set of navigation lights
- Search light with dual station controls
- Double trumpet electric air horn
- Black tank over board discharge on side deck
- Fuel and fresh water fillers on side deck

- Stainless steel guard rails
- Port and starboard side windows
- Front wind screen
- Wind screen wipers with fresh water wash system
- 4 x deck cleats, two on forward area and two on aft cockpit
- 6 x hawser pipes, two on forward, two on aft cockpit and two on amidships
- Fresh water deck wash outlets at aft cockpit
- Forward exterior sofa seat
- Water tight side deck doors on port and starboard side
- Side pantograph door on main deck port side gunwale to and crew lounge
- Bulwark doors on port and starboard side

## Aft cockpit

- Stainless steel framed sliding door to main saloon
- Teak table with stainless steel bases
- Upholstered sofa seats
- Stainless steel stanchions
- Integral stairway to sundeck
- Lockable water tight door to crew cabin
- Stainless steel transom doors
- Steps down to bathing platform
- Hot and cold water transom shower
- Deck wash
- Locker with port and starboard side fire dampers pull-out pins, engine room fire extinguisher pull-out pin and fuel shutoff valve pull-out pin cable
- LED lighting to sundeck staircase
- Self draining

## Sundeck

- Stainless steel framed sliding door to wheel house
- Stairway from aft cockpit
- Wind deflector screen
- Fully fitted wet bar with corian top
- Stainless steel sink and tap with hot and cold water supply
- Refrigerator
- Electric barbeque
- Upholstered sofa seating on port and starboard side

- Storage under the sofa seats
- Upholstered helm seat
- FRP hard top
- Lighting on underside of hard top
- Stainless steel stanchions to hard top
- Stainless steel guard railings
- Self draining
- 4 x liferafts (each capacity 8 persons)

## Sundeck helm

- Sundeck helm instruments and controls
  - Steering wheel
  - Port and starboard engines displays
  - Trim tab gauge
  - Rudder angle gauge
  - Winch control panels
  - Forward and aft Search light switch
  - Trim tab switches
  - Bow thruster control
  - Navigation displays
  - Port and starboard engines diagnostic, shutdown and ignition keys
  - Engine throttle
  - Auto pilot display
  - Instrument display
  - Instrument display control panel
  - VHF hand set
  - Magnetic compass
  - Switches of flood light, sofa light, gauge light, deck light and horn

## Wheel house helm

- Main helm position instruments and controls
  - Steering wheel
  - Engine room exhaust fan control switch
  - Bilge alarm switch panel
  - Navigation displays
  - Port and starboard engine displays
  - Trim tab gauge

- Magnetic compass
- Rudder angle gauge
- Front wind screen wiper controls
- Bow thruster control
- Autopilot display
- Instrument display
- Instrument display control panel
- Engine throttle
- Port and starboard engine warning, ignition, diagnostic, shutdown controls
- Winch control panels
- Trim tab switches
- Bilge pump switches
- Switches of horn, anchor light, navigation light, pilot house light, dash board light, under water lights, gauge light and name board light
- Search light switches
- Forward and aft search light selector switches and control switches
- Hydraulic steering switch panel
- VHF Radio hand set

## Engine room equipments

- 2 x main engines
- 2 x generators
- Underwater exhaust system
- Air conditioning chillers on port and starboard side
- Port and starboard side chillers control panels
- Fixed fire extinguishers system
- Fire dampers
- Intakes for air circulation
- Extractor fan
- Electric and manual oil exchange system for engines /gear boxes/generators
- Flexible mountings for engines
- Sea water cooling system for generators and engines
- Temperature sensors on engine water jackets
- Fresh water out lets
- Submersible bilge pumps
- Lockable water/gas tight door
- Smoke detector and heat detector

- Main electrical panels
- Tank sentry monitoring panels
- Engine and generator start battery bank switch panels
- Ceiling, sides and bulkheads of engine room are completely insulated with sound proofing and heat insulated materials

## Electrical system

- Electrical system of the boat is 3-phase, 380/220 VAC, 50 Hz
- Main power supplied by two generators
  - 2 x generator 50 kW, 50 Hz
- 3-phase dockside connection (100 A) with cable and cable master system
- Main switch board system equipped with magnetic contactors, overload protections and short circuit protections
- Outgoing circuits protected by circuit breakers
- Battery isolation switches
- 2 x12 V, 200 Ah batteries for port side engine
- 2 x12 V, 200 Ah batteries for starboard side engine
- 2 x 12 V, 200 Ah batteries for service
- 2 x 12 V, 200 Ah batteries for emergency
- 2 x 12 V, 100 Ah batteries for port side generator
- 2 x 12 V, 100 Ah batteries for starboard side generator
- Batteries are charged by two battery chargers
  - 100 Ah, 24 V battery charger for engine's batteries
  - 100 Ah, 24 V Battery charger for service and emergency batteries
- Main panels are placed in engine room
  - Main switch board 380 VAC, 3 PN, 50 Hz
  - 380/220 VAC main distribution panel (1&2)
  - 24 VDC distribution panel
- Secondary distribution panels
  - Main deck 220 VAC distribution panel
  - Lower deck 220 VAC distribution panel
  - 12 V & 24 VDC navigation panel
- Tank sentry monitoring panels located in engine room
  - Fuel tanks
  - Fresh water tank
  - Black water tank
  - Grey water tank



- 220 VAC power outlets in all cabins
- Cathodic protection provided by cross bonded zinc anodes
- Port and starboard generators isolation battery switches and interconnection panel
- Port and starboard engines isolation switches and interconnections panel

## Entertainment system

- **Main saloon**
  - LED TV 55"
  - Home theater system
  - Satellite receiver
- **Main deck aft cockpit**
  - 2 x speakers linked with saloon entertainment system
- **Sundeck**
  - 2 x speakers linked with saloon entertainment system
- **Owner's cabin**
  - LED TV 46"
  - Home theater system
  - Satellite receiver
- **Port double guest cabin**
  - LED TV 32"
  - Satellite receiver
- **Starboard double guest cabin**
  - LED TV 32"
  - Satellite receiver
- **Port twin guest cabin**
  - LED TV 26"
  - Satellite receiver
- **Starboard twin guest cabin**
  - LED TV 26"
  - Satellite receiver

## Power and drive systems

- Power assisted electro hydraulic steering system
- Direct shaft drive through tunnel
- 2 x propellers, 5-blade, AB2 material
- 2 x rudders
- 2 x P-brackets
- 2 x duplex steel tail shafts
- 2 x hydraulic trim tabs
- Trim tabs switches and gauges at lower helm and main helm position

- Hydraulic bow thruster 65 hp
- 2 x seawater strainers for main engines

## Fire extinguishing system

- Fixed fire extinguisher located in engine room and connected with pull-pin cable to aft cockpit
- Fire alarm and fire bell at wheel house and engine room
- Smoke detectors in all cabins
- Hand operated portable fire extinguishers installed for immediate use in all cabins
  - Owner's cabin
  - Port double guest cabin
  - Starboard double guest cabin
  - Port twin guest cabin
  - Starboard twin guest cabin
  - Captain cabin
  - Crew cabin 01
  - Crew cabin 02
  - Galley
  - Crew lounge
  - Engine room
  - Sundeck
- Mechanical pump with bypass valves for fire and bilge purpose
- Fresh water line connection to fire and bilge manifold for priming and cleaning
- Plumbing are made of CuNiFer/stainless steel pipes

## Bilge system

- Bilge water high level alarm system
- Electric submersible bilge pumps 2000 GPH with float switches fitted in each water tight compartment at beneath the following area:
  - Forward crew cabins
  - Guest lobby
  - Between the port & starboard double guest cabin
  - Engine room
  - Crew lounge
  - Rudder compartment
- Bilge suction lines are connected to manual bilge pump and mechanical pump with bypass valves for suction of the bilge water from engine room and rudder compartment

## Fuel system

- Fuel capacity 4000 US gal (15141.6 l)
  - Port side fuel tank capacity 1839 US gal (6961.372 l)
  - Star board side fuel tank capacity 1839 US gal (6961.372 l)
  - Fuel day tank 322 US gal (1218.903 l)
- Integrated FRP fuel tanks in engine room
- Port and starboard side fuel tanks interconnection with fuel day tank
- Fuel fillers on port and starboard side decks
- Manual fuel shutoff valve pull-out pin cable fitted at aft cockpit
- Fuel filters for engines/generators
- All tanks provided with manhole covers, ventilation pipes and connection pipes to manifold
- Isolation valves to fuel manifold
- Interconnection fuel lines are made of stainless pipes
- Electric tank senders for all fuel tanks

## Fresh water system

- Water tank capacity 800 US gal (3028.32 l)
- Pressurized hot and cold water system
- 24 VDC fresh water pump
- 220 VAC fresh water pump
- 2 x water heaters (each capacity 60 l)
- Water level monitoring panel located in the engine room
- Water maker capacity 140 l/h for fresh water
- Water filler on side deck
- Electric tank sender
- 26 mm Mepla piping throughout supplying all outlets
- 32 mm Mepla piping from tank to manifold
- Dock connection for shore water supply on aft swimming platform with pressure regulator
- Fresh water deck wash connection at aft swim platform and forward area

## Black water and grey water system

- Black water tank capacity 150 US gal (567.8 l)
- Grey water tank capacity 150 US gal (567.8 l)
- Aft black water tank capacity 17 US gal (64.3 l)
- Aft grey water tank capacity 20 US gal (75 l)

- Automatic/manual control system for black and grey water pumps
- Black and grey water pump works on 24VDC
- Electric Tecma toilets
- Black and grey water level indication monitoring panel in engine room
- Black tank over board discharge on side deck
- All plumbing lines are PVC pipes and flexible hoses
- Electric tank sensors for tanks

## Air conditioning system

- Chilled water air conditioning system with capacity 288 000 Btu
- All compressors on 380 VAC, 3- phase
- All air handlers on 220 VAC, single phase
- All cabin's air handlers are connected with chillers system
- 2 x chiller water pumps
- 2 x sea water pumps
- Air conditioning control switches in all cabins
- Plumbing lines are made of PVC pipes
- Pipe lines are well insulated

## ❖ Interior specifications

### Main deck

#### Saloon

- Stainless steel framed sliding door to cockpit
- Port and starboard side sofas
- Sofa side tables
- Coffee table
- Display shelves
- Windows with curtains
- Curtains to main entrance door
- Air conditioning with control switch
- Architectural lighting
- LED decorative lighting
- Lighting switches and AC sockets
- Fitted carpet

### Main dining

- Dining table
- Dining chairs
- Port and starboard side counters
- Display shelves
- Side windows with curtains
- Architectural lighting
- Lighting switches and AC sockets
- Air conditioning with control switch
- Wooden flooring

## Pantry

- Lockable water tight side pantograph door to side deck
- Entrance door to galley
- Stair case to wheel house
- Bottle cooler
- Coffee machine
- Access door to electrical room
- Architectural lighting

## Galley

- Corian counter top
- Stainless steel sink with hot and cold water supply
- Overhead storage lockers
- Storage lockers with shelves
- Fridge
- Refrigerator
- Dish washer
- Oven
- Induction hub
- Teppan yaki
- Deep fryer
- Vinyl flooring
- Stair case to lower deck forward cabins
- Side window with pleated blind
- Architectural lighting
- Lighting switches and AC sockets
- Air conditioning with control switch

## Main lobby

- Lockable water tight side pantograph door to side deck
- Entrance door to day head toilet
- Entrance door to owner's cabin
- Stair case to lower deck cabins
- Luggage room
- Architectural lighting

## Day head toilet

- Wash basin and tap with hot and cold water supply
- Electric toilet
- Mirror
- Overhead locker
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook and towel rail)
- Architectural lighting
- Lighting switches and AC sockets

## Owner's cabin

- Large double bed with mattress, pillows and bedspreads
- Bed side tables
- Wardrobes
- Drawers
- Writing desk with chair
- Counter table
- Sofa seats
- Sofa seat side table
- Drawers to bed
- Side windows with curtains
- Air conditioning with control switch
- Architectural lighting
- Lighting switches and AC sockets
- Fitted carpet
- Entrance door to bathroom

## Owner's bathroom

- 2 x wash basin and tap with hot and cold water supply
- Mirror
- Cabinet
- Electric toilet
- Bidet
- Hot and cold water shower mixer
- Jacuzzi
- Glass door to shower room
- Architectural lighting
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook and towel rail)
- Open shelves
- Lighting switches and AC sockets

## Lower deck

### Guest lobby

- Stairs from main lobby
- Architectural lighting
- Lighting switches
- LED lighting to steps
- Entrance door to port double guest cabin
- Entrance door to starboard double guest cabin
- Entrance door to port twin guest cabin
- Entrance door to starboard twin guest cabin
- Storage locker

### Port double guest cabin

- Large double bed with mattress, pillows and bedspread
- Bed side tables
- 4 x drawers to bed
- Storm shutter storage
- Open shelves
- Drawer
- Wardrobe
- Side window with curtain
- Air conditioning with control switch

- LED decorative lighting
- Architectural lighting
- Lighting switches and AC sockets
- Fitted carpet
- Entrance doors to ensuite

## Port double guest bathroom

- Wash basin and tap with hot and cold water supply
- Storage
- Open shelves
- Mirror
- Porthole with pleated blinds
- Electric toilet
- Glass doors to shower room
- Hot and cold water shower mixer
- Sky shower
- Architectural lighting
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook and towel rail)
- Lighting switches and AC sockets

## Starboard double guest cabin

- Large double bed with mattress, pillows and bedspread
- Bed side tables
- 4 x drawers to bed
- Storm shutter storage
- Open shelves
- Drawer
- Wardrobe
- Side window with curtain
- Air conditioning with control switch
- LED decorative lighting
- Architectural lighting
- Lighting switches and AC sockets
- Fitted carpet
- Entrance doors to ensuite



## Starboard double guest bathroom

- Wash basin and tap with hot and cold water supply
- Storage
- Open shelves
- Mirror
- Porthole with pleated blinds
- Electric toilet
- Glass door to shower room
- Hot and cold water shower mixer
- Sky shower
- Architectural lighting
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook and towel rail)
- Lighting switches and AC sockets

## Port twin guest cabin

- 2 x single beds with mattress, pillows and bedspreads
- Bed side table
- Wardrobe
- Storage
- Drawers to beds
- Porthole with curtain
- Air conditioning with control switch
- Architectural lighting
- LED decorative lighting
- Lighting switches and AC sockets
- Fitted carpet
- Entrance door to ensuite

## Port twin guest bathroom

- Wash basin and tap with hot and cold water supply
- Mirror
- Open shelves
- Electric toilet
- Hot and cold water shower mixer
- Sky shower

- Glass door to shower room
- Porthole with pleated blinds
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook, and towel rail)
- Architectural lighting
- Lighting switches and AC sockets

## Starboard twin guest cabin

- 2 x single beds with mattress, pillows and bedspreads
- Bed side table
- Wardrobe
- Storage
- Drawers to beds
- Porthole with curtain
- Air conditioning with control switch
- Architectural lighting
- LED decorative lighting
- Lighting switches and AC sockets
- Fitted carpet
- Entrance door to ensuite

## Starboard twin guest bathroom

- Wash basin and tap with hot and cold water supply
- Mirror
- Open shelves
- Electric toilet
- Hot and cold water shower mixer
- Sky shower
- Glass door to shower room
- Porthole with pleated blinds
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook, and towel rail)
- Architectural lighting
- Lighting switches and AC sockets

## Crew lounge

- Corian counter top
- Stainless steel sink and tap with hot and cold water supply
- Refrigerator
- Hob
- Washing machine
- Overhead storage lockers
- Sofa seat and table
- Portholes with pleated blinds
- Stair case to aft cockpit
- Lockable water tight door leading to swim platform
- Lockable water/gas tight door to engine room
- Air conditioning with control switch
- Architectural lighting
- Lighting switches and AC sockets
- Entrance door to captain cabin
- Entrance door to store room
- Vinyl flooring

## Captain cabin

- Bed with mattress, pillows and bedspreads
- Bed side table
- Wardrobe
- Porthole with pleated blinds
- Storage under the bed
- Air conditioning with control switch
- Architectural lighting
- Lighting switches and AC sockets
- Vinyl flooring
- Entrance door to ensuite

## Captain cabin ensuite

- Wash basin and tap with hot and cold water supply
- Mirror
- Electric toilet
- Hot and cold water shower mixer
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook, and towel rail)

- Architectural lighting
- Lighting switches and AC sockets

## Forward crew cabin 01

- 2 x single bunk beds
- Open shelves
- Wardrobe
- Porthole with curtains
- Air conditioning with control switch
- Architectural lighting
- Lighting switches and AC sockets
- Vinyl flooring
- Entrance door to ensuite

## Forward crew cabin 01 ensuite

- Wash basin and tap with hot and cold water supply
- Electric toilet
- Medicine cabinet
- Niche
- Hot and cold water shower mixer
- Foldable glass door to shower room
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook and towel rail)
- Vinyl flooring
- Architectural lighting
- Lighting switches and AC sockets

## Forward crew cabin 02

- 2 x single bunk beds
- Open shelves
- Wardrobe
- Porthole with curtains
- Air conditioning with control switch
- Architectural lighting
- Lighting switches and AC sockets
- Vinyl flooring

- Entrance door to ensuite

## Forward crew cabin 02 ensuite

- Wash basin and tap with hot and cold water supply
- Electric toilet
- Medicine cabinet
- Niche
- Hot and cold water shower mixer
- Foldable glass door to shower room
- Complete set of sanitary accessories (tooth brush holder, soap holder, brush holder, towel hook and towel rail)
- Vinyl flooring
- Architectural lighting
- Lighting switches and AC sockets

## Miscellaneous

- 6 x fenders
- First aid kit
- Fire blanket
- Tool kit
- Mooring ropes
- 2 x boat hooks
- 2 x life rings