

Princess 23M

HULL, DECK AND SUPERSTRUCTURE

* Deep V hull with moulded spray rails and incorporating propeller tunnels for improved propulsive efficiency and reduced draft * Hand laid grp construction with EPG[®] gelcoat backed by an initial lay-up of powder bound matt and isophthalic resin (for protection against osmosis) and with a main lay-up of DCPD[®] resin incorporating unidirectional and woven roving as well as chopped strand matt * Integrally bonded girder-stiffening system * Standard finish white high-gloss EPG gelcoat for hull topsides, white coach roof and hull bottom, hull antifouled to waterline * GRP/balsa core/PVC foam sandwich construction for deck and superstructure for strength and high-thermal insulation * Moulded non-slip surfaces on side decks * Hull antifouled.

*Enhanced Performance Gelcoat gives significantly improved gloss and colour retention and UV resistance compared with conventional isophthalic gelcoats and, when combined with the latest Dicyclopentadiene (DCPD) resin chemistry, provides much greater heat resistance and freedom from distortion.

DECK FITTINGS

* Reversible electric anchor winch with foredeck, main helm and flybridge controls * Stemhead roller with automatic anchor launch and retrieve * Bow rope stowage locker * Freshwater deck/anchor wash (with both foredeck and transom outlets) * Coachroof sunbed recess with cushions * Stainless-steel bow, stern, transom and spring cleats (2 pairs) * Stainless steel pulpit and guard rails * Forward coachroof handrails * Canopy handrails * White PVC high impact rubbing band with stainless steel insert * Full set IMCO navigation lights * Riding light * Twin-beam search light with dual-station remote controls * Twin electric horns * Loud hailer/foghorn * Fuel and water fillers * Twin stern rope docking electric winches * Locker housing 240v shore support inlet and shoreline * Transom deckwash point * Telephone connection point * Remote control 3.15m telescopic passerelle with lights and folding handrail * Flybridge davit crane (420kg) * 50kg Delta anchor with 90m of chain * Coachroof fender lockers (8 fenders) * Lifteraft locker * Teak-laid sidedecks, foredeck and aft deck * Stern docking lights.

AFT COCKPIT DECK

* Self-draining * Teak-laid deck * Upholstered seating * Deck lighting * Cockpit cover * Sternline docking winches port and starboard * Stainless-steel handrails * Telescopic remote control passerelle (3.5m) * Speakers from saloon CD/stereo system * Transom bathing platform with dinghy/wetbike storage facilities and foldaway swimming ladder, hot and cold shower, teak sole and deck light * Transom garage with electro-hydraulic lift to door (also access from hatch in cockpit seat) * Door leading to crew cabin, utility area and engine room area from side deck. Also watertight door giving direct access from bathing platform * Port and starboard transom doors to bathing platform * Integrated flybridge staircase with teak treads * Transom bathing platform stowage compartment * Access door from transom platform to utility area * Table & chairs (5).

FLYBRIDGE

* Helm position featuring hydraulically raised instrument console with repeat engine instrumentation * Power-assisted hydraulic steering * Adjustable steering wheel * Electronic engine controls * Rudder position indicator * Bow thruster controls * Trim tab controls * Anchor winch remote control * VHF R/T with DSC * Repeat autopilot controls * Furuno 1943 colour radar and chartplotter/GPS repeater with full control facilities * Echo sounder and log * Electronic compass * Searchlight remote control * Horn * Intercom * Bilge pump visual and audible warning indicators * Engine room fire extinguisher warning system * Chart area * Additional seating around U-shaped settee/dinette * Sunbed * Speakers linked to saloon CD/stereo system * Aft access from cockpit via GRP hatch, forward access from saloon via door and stairway * Wind deflector screens * Stainless-steel handrails * Deck-level lighting * GRP radar arch * Console and seat covers * Matched whip aerials for VHF/RT and radio * Wet bar with refrigerator, sink, hot and cold water supply, barbecue hob and storage * Electro-hydraulic crane for ship's tender/wetbike (suitable for lifting 400kg to flybridge and to transom platform).

LOWER CONTROL POSITION

* Twin helm seats with electric adjustment for helmsman * Stainless-steel framed toughened glass windscreen, clear for unimpaired night vision * Burr instrument console with engine instruments, fuel gauges and rudder position indication * Instrument light dimmer switch * Electronic engine controls * Power-assisted hydraulic steering * Bow thruster control * Autopilot * Trim tab controls * Horn button * Searchlight remote control * Electronic compass * High-speed magnetic reserve compass * Speed and distance log * Echo sounder with alarm * Furuno 1943 colour radar and chartplotter/GPS * All electronic navigation equipment interfaced with radar and autopilot * VHF R/T with DSC * Intercom to flybridge, all cabins and engine room * Automatic foghorn with loud hailer * Anchor winch remote control * Triple windscreen wipers with windscreen wash * Bilge pump controls * 24v and 240v control panels * PVC sunscreens * Opening door to starboard side deck * Fire extinguisher * Air conditioning outlet.

DECK SALOON

* Large U-shaped sofa with coffee table * 2 seater sofa * Entertainment centre incorporating plasma screen TV/Radio/DVD/VCR linked to hi-fi surround-sound system * Exterior speakers linked to saloon hi-fi * Bar unit with refrigerator, icemaker and bottle and glass storage * All windows are toughened safety glass * Curtains or blinds to all windows * Overhead downlights and pelmet lights * Stainless-steel framed aft cockpit door and electro-hydraulic drop window to cockpit area * Air conditioning outlets * 220v power points.

Dining area: Either with U-shaped sofa and table, or with separate dining table and 8 chairs and sideboard storage unit.

GALLEY

* Avonite (or similar) worktop * Halogen/ceramic 4-ring hob * Extractor fan * Combination microwave/conventional oven with grill * Twin-bowl stainless-steel sinks with mixer tap * Full height refrigerator with door and drawers, separate drawer style deep freeze * Dishwasher * Trash compactor * Overhead and concealed lighting * 2 double 240v power points * Drawers and storage cupboards * Fire extinguisher * Laid timber floor * Air conditioning outlet * Sliding bar aperture to saloon * Opening door to side deck.

OWNER'S SUITE

* Large double bed with quilted bedspread and drawers below * Walk-in wardrobe with additional storage * Triple vertical portholes (with one opening) port and starboard * Mirror * Dressing table with stool * LCD TV/DVD * Stereo CD/Radio * Bedside cabinets * Chest of drawers * Overhead cupboards * Sofa * Storage units * Writing desk * Air conditioning outlet * Downlighters, concealed lights and reading lights * 2 x 240v power points * Intercom * Fire extinguisher.

Owner's en-suite bathroom: 240v shaver point * Stowage lockers * Opening porthole * Vacu-flush freshwater WC * Bidet * Bath/shower with automatic pump-out and extractor vent * Mirrors * Large washbasin with mixer tap set into Avonite vanity top * Towel locker * Avonite tiled floor * Air conditioning outlet.

FORWARD GUEST STATEROOM

* Large double bed with quilted bedspread * Twin wardrobes with shelves * Under-bed drawers * Mirror * Downlighters, concealed lights and reading lights * 2 x 240v power points * Opening portholes * Intercom system * Fire extinguisher * Deck hatch * Sideboard with stowage * Dressing table with stowage * Stereo CD/radio * Air conditioning outlet.

En-suite shower/WC: Washbasin with Avonite worktop and mixer taps * 240v shaver point * Storage lockers * Opening porthole * Vacu-flush freshwater WC * Shower cubicle with automatic pump-out and extractor vent * Mirrors * Avonite tiled floor * Towel locker * Air conditioning outlet.

PORT AND STARBOARD GUEST CABINS

* 2 single beds with quilted bedspreads * Large wardrobe with shelves * High-level lockers * Bedside table with storage * Storage under berths * Downlighters and reading lights * 2 opening portholes * 240v power point * Intercom system * Fire extinguisher * Air conditioning outlet.

Port and starboard en-suite shower/WCs: 240v shaver point * Storage lockers * Opening porthole * Vacu-flush freshwater WC * Shower cubicle with automatic pump-out and extractor vent * Mirrors * Storage lockers * Washbasin with Avonite top and mixer tap * Air conditioning outlet * Starboard shower/WC has access door from passageway as well as from cabin.

AFT GUEST CABIN/CREW CABIN

* Access via stairway from cockpit or from transom hatch via utility room * 2 single berths with quilted bedspreads * Hanging and storage lockers * Downlighters * Reading lights * Opening portholes * Intercom * 240v power point * Air conditioning outlet.

Shower/WC: Washbasin with mixer tap * 240v shaver point * Portholes * Shower stall with automatic pump-out and extractor vent * Mirror * Stowage under sink * Overhead locker * Vacu-flush freshwater WC.

UTILITY AREA

* Access from transom hatch or via cockpit stairway * Storage space, cupboards and lockers * Washing machine/dryer.

POWER AND DRIVE SYSTEMS

* Soundproofed engine room * High-volume air intakes * Engine room extractor fans with electronic time delay * Water-cooled exhaust silencers * Raw water flow failure light and audible alarm at the flybridge and lower helm stations * Solid engine beds integrally moulded with hull for strength and vibration absorption * Fore and aft engine room bulkheads also integrally bonded * Engines flexibly mounted * Automatic fire extinguishers with manual override and warning system at both helm positions * Automatic electric bilge pumps with manual back-up system * Engine room lighting * Engine room access located from the side deck under the flybridge stairs * Propeller shafts in Temet with flexible shaft logs * 5-bladed propellers in nickel aluminium bronze * High-speed balanced rudders * Cathodic protection for sterngear * Sterngear, engines, fuel tanks, filters etc all electrically bonded * Power-assisted hydraulic steering system * Electronic engine and gear shift controls * 15hp electric bow thruster with dual-station controls (with 2 additional 130AH batteries linked to engine start batteries) * Electro-hydraulic trim tabs.

ELECTRICAL SYSTEM

24 Volt: 4 x heavy-duty batteries for engine starting and windlass operation (120AH each) * 4 x heavy-duty auxiliary batteries (200AH each) * Engine alternators charge via diode system to isolate engine start batteries from auxiliaries * 95-amp 24v float battery charger plus 1 x 100-amp 24v float load supply unit – charger connected to both battery banks * Remote battery master switches with control switch at main switch panel * Circuit breakers on all circuits * 24-12v dropper for certain navigation and radio circuits.

220/240 Volt: 22.5kW diesel generator in own soundproof shield with water-cooled and specially silenced exhaust * Automatic fire extinguisher situated by generator linked to main fire extinguisher system * 2 x 50-amp shore support inlets * Generator/shore support change-over switches * Polarity check system * Earth leakage safety trip, circuit breakers on all circuits * Power points in owner's stateroom (2), port and starboard cabins, galley (2 double), saloon area (2), dining area, forward stateroom (2), crew cabin and utility room.

AIR CONDITIONING SYSTEM

* Aft saloon – 24000 btu twin outlets * Forward saloon/ helm and galley – 30000 btu * Owner's stateroom and bathroom – 16000 btu with outlets in stateroom and bathroom * Port and starboard guest cabins – 1 x 7000 btu each with outlets in cabin and bathroom * Forward guest cabin and bathroom – 1 x 10000 btu with outlets in cabin and bathroom * Aft cabin – 1 x 7000 btu with outlets in cabin and bathroom.

FUEL SYSTEM

* Twin fuel tanks (in N4 marine grade alloy) with interconnection system giving 1280 gallons (5819 litres) capacity * Fuel fillers on port and starboard side decks * High-capacity duplex fuel filters with water separators and change-over valves, water sensors connected to warning system at both helm positions * Remote-operated fuel cocks * Fuel gauges at lower helm position.

WATER SYSTEM

* Water tanks totalling 260 gallons (1182 litres) with 45 gallons (205 litres) hot water calorifier * Water heated by engines and 240v immersion heater * Automatic water pump with filter * Main circuit breaker at switch panel * Water level gauge * Deck fillers port and starboard * Pressurised freshwater WC system (with water-saving vacuum-flush system) linked to 150 gallons (682 litres) holding tank * Holding tank dock side and overboard discharge with low-noise electric pump and macerator back-up system * Holding tank level gauge on main switch panel.

FIRE EXTINGUISHERS

* Automatic/manual override fire extinguishers in engine room and generator space with warning system at both helm positions and incorporating engine air vent closure system * Hand-operated fire extinguishers in owner's stateroom, forward guest cabin, port and starboard cabins, galley, utility room, lower helm position and crew cabin * Separate automatic fire extinguisher fitted in electrical space.

BILGE PUMPS

* 7 x automatic electric bilge pumps with manual override in accommodation area (2), engine room (2) and lazarette (2)
* Electric bilge pumps have controls and warning lights at lower helm and warning light with audible alarm at flybridge helm * Manually operated high-capacity pump with valve system and additional suction points in lazarette, engine room and other accommodation areas.

OTHER ITEMS SUPPLIED AS STANDARD

* Set of cutlery and crockery * Set of Edinburgh Crystal glasses * Set of towels (8 large, 8 hand) * Fenders (8) and warps (4)
* Ensign staff * First aid kit * Boathook * Owner's manual * Engine manual and tools * Quilted bedspreads for beds in owner's stateroom, forward guest cabin, port and starboard cabins and crew cabin * Electric vacuum cleaner * Cockpit cover * Ship's document case.

Please note this is the initial specification of the P23M and the right is reserved to make changes as necessary during the boat's development.