



**Technical Specifications**

**Proposal File**

45 DCAT HAT ISLAND

**Hull Size**

Length 45': Beam 18' 4"

**Hull Type**

Semi-displacement catamaran

**Class**

USCG subchapter "T" inspected for 49 passengers + crew

**Superstructure**

Full width main cabin c/w fwd leaning raised pilothouse

**Accommodations**

Inside passenger seating for 43 passengers

Exterior passenger seating for 4 passengers

Head package

**Electrical**

24V DC electrical system

30AC electrical system

Northern Lights 9kW generator

**Power & Propulsion**

Twin Cummins QSL9 405hp diesel engines

SeaStar EPS electronic steering

Shaft & wheel propulsion

**Customer Info:**

Hat Island

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**ARMSTRONG MARINE HULL**

Length 45': Beam 18' 4"

5086 alloy aluminum hull skins

5052 alloy aluminum interior transverse frames

Longitudinal t-bars

Longitudinal hull stiffeners

Floor framed on 26" centers

Self bailing aluminum decks

Collision bulkheads

Watertight bulkheads

**Deck Accessories**

Hand rails around aft deck per USCG

Aft fixed radar & antenna mast

Extended aluminum overhang covers aft deck

Roof access ladder

(2) Passenger boarding gates at bow

Side boarding door (stbd aft)

(12) Deck tie down points

(2) Engine access hatches c/w gas struts & flush hinges

Battery storage below deck

(2) Freeman oval hinged aluminum hatches 15" x 24" flush mounted

(2) Freeman oval hinged aluminum hatches 12" x 18" flush mounted

(8) 11" tie up cleats

(4) Aluminum flammable liquids storage cabinets at bow c/w fireboy fire suppression system

(2) Aluminum bench seats along transom port & stbd c/w storage under

Dog bowl station aft deck port side

Anodes for cathodic protection

Aluminum davit c/w hand crank winch (500 lb SWL)

c/w tethered control snatch block & hook

Epoxy coated hook

Davit socket mounted at bow

**Anchoring & Mooring**

Bow roller

66lb Sea-Claw emergency anchor

(200') of 3 strand anchor rode c/w (30') chain

(4) Nylon mooring lines

(4) Polyform fenders c/w dock lines

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**FWD LEANING PILOTHOUSE & FULL WIDTH MAIN CABIN**

Main cabin & pilothouse c/w overhead grab rails

Walls & ceiling insulated & paneled w/ white FRP & wood trim

**Flooring**

Coosa composite board sub flooring

Loncoin marine vinyl flooring, slip resistant

(4) Deck tie down points

**Walk-around pilothouse c/w stairs from main cabin**

Welded aluminum dash console c/w removable lower cover panel

Bentley's Yachtsman helm seat

Rope gate to pilothouse

**Main deck cabin**

Fixed passenger bench seating for 39 passengers c/w cushions

(2) Flip down bench seats

(2) Storage lockers c/w webbed nylon gates

Overhead storage bins down center line, port & stbd

Counter for ticket sales aft cabin c/w storage shelving

Microwave

Norcold 2.7 cu. ft. AC/DC refrigerator

**Head**

Electric marine toilet

Solar powered exhaust fan

Watertight toilet paper holder

Vanity cabinet c/w SS sink & storage under

Scandvik compact combo faucet

Teak framed mirror (wall mounted)

**HVAC SYSTEM**

(3) Dometic 16,000BTU AC units c/w reverse cycle heat for main cabin area

(1) Dometic 8,000BTU AC unit c/w reverse cycle heat for pilothouse

**WATER SYSTEM**

55 Gallon fresh water tank

55 Gallon black water tank c/w Y fitting & deck pump out

**Bilge**

(8) Rule 2000 bilge pumps w/ float switches & high water alarm

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**WINDOWS & DOORS****Pilothouse windows**

All Windows .25" commercial grade glass c/w anodized black mitered frames

- (1) Windshield
- (2) Sliding side windows tinted
- (2) Fixed side windows tinted
- (1) Fixed window for aft cabin bulkhead

**Main cabin windows**

All Windows .25" commercial grade glass c/w aluminum frames

- (2) Front facing fixed windows tinted
- (2) Sliding side windows tinted
- (8) Fixed side windows tinted

**Doors**

- (2) Sliding doors c/w clear windows & SS locksets for aft main cabin
- (2) Weathertight hinged doors c/w windows & SS locksets for fwd main cabin
- TrioVing SS locksets standard
- AMUSA hinged door for head compartment c/w privacy lock & 3 coat hooks on door

**ELECTRICAL SYSTEM****DC Electrical System**

Battery pack - (5) group 34 NorthStar AGM starting batteries for engines

Battery pack - (2) group 34 NorthStar AGM deep cycle batteries for house loads

Blue Sea remote battery switches, 24V

- (1) 12V power outlet (pilothouse)
- (1) 12V dual USB port (pilothouse)
- (2) 12/24V 3-speed gimbaled fans

Subchapter-T vessel fuses

LED navigation lights

(4) LED deck lights - Rigid D-Series PRO (4750 lumen flood)

(13) LED cabin lights

(1) LED pilothouse light

(10) LED Flush mount courtesy lights

54" RDS-Series Pro LED light bar for night crossings

(1) Searchlights 500,000 CP c/w dash & remote controls

(1) Pantographic windshield wiper c/w washing system

DC distribution panel 12V

DC distribution panel 24V

Bilge pump panel switch

24V to 12V DC converter - isolated

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**AC Electrical System**

Smartplug shore power inlet c/w 50' cordset  
30A galvanic isolator  
NewMar Phase Three 13A, 24V battery charger  
(14) 15A GFCI receptacles w/ USB ports (13 in cabin, 1 in pilothouse)  
AC distribution panel  
Magnum 2800w pure sine wave inverter/charger, 12V

**GENERATOR**

Northern Lights, 9kW, diesel generator c/w remote engine control panel  
2" exhaust system c/w muffler  
1" raw water system c/w strainer  
Gen-sep water/exhaust separator

**ELECTRONICS & NAVIGATION**

Garmin GPSMAP 8612xsv MFD/Sonar, US+Can+Bahamas  
Garmin Twin SD card reader for 8000 series  
600W SS transducer  
NMEA 2000 networking system  
Garmin VHF 210 radio w/ hailer & removable mic  
GMR 18HD+ 4kW radar w/18" HD dome, 36 NM range  
(4) External Garmin GC 12 marine cameras (2 fwd & 2 aft) analog output  
Cameras tied into Garmin GPS screens  
PA system w/ speakers in main cabin  
AFI premium electric trumpet horn  
Ritchie Helmsman compass

**POWER & PROPULSION****Engines**

Twin Cummins QSL9 405hp @ 2100 rpm diesel engines  
Rated medium continuous duty @ 3000 hours per year  
24V 80A alternators  
Raw water cooling system c/w sea strainers & ball valves  
Exhaust system to suit c/w risers & mufflers

**Gears**

ZF325-1A marine transmission @ 1.733:1 ratio

**Pilothouse Controls**

Glenndinning pilothouse controls for twin engines

**Fwd Second Station Controls**

Glenndinning fwd second station controls for twin engines

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**Pilothouse Steering**

Optimus EPS core pack  
(2) Smartcyclinders inboard  
Electronic helm front mount  
"Destroyer" style 15.5" steering wheel c/w maneuvering knob

**Fwd Second Station Steering**

Second station electronic helm  
"Destroyer" style 13.5" steering wheel

**Props & Shafts**

(2) 2.75" Propeller shafts c/w split type coupling strut hubs & shaft seals  
(2) Propellers, 26x26 4 blade NIBRAL

**Rudders**

(2) 2.5" rudder shafts c/w rudder port bearing, upper bearing, & collar  
Rudder indicator 2" round  
SS low drag high performance rudders

**FUEL SYSTEM**

Twin (250) gallon fuel tanks w/ wema gauges & deck fills  
(2) Racor 900 series diesel filters  
Emergency fuel shutoffs

**ENGINE ROOM**

Engine room axial fans to meet air requirements  
Engine room insulation for acoustic dampening  
Engine room ventilation air boxes c/w aluminum louvers  
Emergency air shutoff  
(2) Fireboy engine room fire suppression systems c/w automatic shutdowns

**SAFETY PACKAGE****USCG approved safety package - local sector compliance**

(2) USCG approved. 35 person life rafts, round containers & cradle w/ hydrostatic releases

**PAINT & FINISHES**

Clear coat protective finish for all non wrapped aluminum  
Onyx Zolatone interior paint  
Black anti fouling bottom paint  
Non-skid deck coating  
Vinyl graphic "HAT ISLAND FERRY" (Avery Supreme or 3m 1080)

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**TERMS & CONDITIONS**

All prices quoted are **FOB Port Angeles, WA**

Price quotes valid for **30 days**.

Price quote does not included taxes (if applicable) or licensing.

**TOTAL**

**USD 993,538**

**Name**

**Date**

**Name**

**Date**

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**OPTIONS**

The options below include a price addition or subtraction to be applied to the total price as indicated below the Terms & Conditions of the above Technical Specification. Please indicate which option(s) you wish to apply by providing your initials in the space provided.

<b>Items</b>	<b>Price</b>	<b>Initials</b>
(2) Bow thrusters hydraulic one per demi hull	USD 31,844	
Hull & house exterior wrap, (Avery Supreme or 3m 1080)	USD 19,765	
Aluminum push knees at bow c/w rubber fendering	USD 5,850	

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