
	Department Marine Division	Binder N/A
Document CM 21 – Barge Operations Manual		Document Number LOG-PRO-3000
Issued to Electronic Copy		Rev. Number and Date Rev. 0 - 02/01/10


2. Vessel Specifications

This document is a Marine Operating Manual prepared specifically for the operation of the Crossmar 21. This manual is a controlled document and should only be altered with the direction of the Marine Division Manager. This document contains information proprietary to Crossmar Inc. It shall not be reproduced nor shall the information contained herein be used by or disclosed to others except as expressly authorized by Crossmar Inc.


	Department	Marine Division	Page
			1 of 4
Document	CM 21 – Barge Operations Manual		Document Number LOG-PRO-3002
Section Title	2.0 Vessel Specifications		Rev. Number and Date Rev. 0 – 02/01/10

2.0 VESSEL SPECIFICATIONS


Documentation	
Name of Vessel	Crossmar 21
Type of Vessel	+A1, Barge, DPS-3 (ABS Classed)
Flag State	United States of America
Official Number	643889
Distinctive Number or Letters (Call Sign)	WJAE
IMO-Number	None
Port of Registry	Houma, LA
Owner	Cross Maritime, Inc.
Built (Bergeron Industries, Braithwaite, La.)	1981 (Hull # 1352)
ABS-Register-Number	8131245
Dimensions	
LOA	250 Feet
Breadth Moulded	72.0 Feet
Depth Moulded	15.0 Feet
Maximum Draft	11.15 Feet
Tonnage (GRT)	2556 (Registered)
Tonnage (NRT)	766 (Registered)
Lightship Weight	2124 S tons
Main Deck Aft area	115 x 68 Feet
Main Deck Original Thickness	½” Steel Plating
Main Deck Original Strength	1,500 Lbs/Square Foot
Vessel Length including Thruster Guards	250’ hull length plus 12’-1” = 262’-1”
Vessel Breadth including Thruster Guards	72’0” hull width plus 11’-8” each side = 95’4”
Air Draft (Minimum Bridge Clearance Height)	52’ @ max load line draft of 11’-2”
Note: Antennas and mast lowered	

	Department <h2 style="text-align: center;">Marine Division</h2>	Page <p style="text-align: center;">2 of 4</p>
	Document <p style="text-align: center;">CM 21 – Barge Operations Manual</p>	Document Number <p style="text-align: center;">LOG-PRO-3002</p>
Section Title <p style="text-align: center;">2.0 Vessel Specifications</p>		Rev. Number and Date <p style="text-align: center;">Rev. 0 – 02/01/10</p>

Fluid Capacities	
Diesel Oil Capacity	154,389 gal
Fresh Water Capacity	308,788 gal
Oily Bilge water tank	1400 gallons
Oily residue Holding tank	700 gallons
Ballast (SWB) capacity	500,000 gal
Dynamic Positioning Control & Reference System	
Kongsberg K-POS DP3 System, including:	3 ea. DP Consoles
	1 ea. C-Joy Remote Console
	3 ea. Sperry Gyrocompasses
	2 ea. DGPS Systems w/corrections units
	3 ea. MRUs
	3 ea. Ultrasonic Wind sensors
	Bandak Lightweight Taut wire system Mk15b
	Kongsberg Hipap 500 system
	Optional Fan Beam laser available
Thrusters and HPU Systems	
Thrustmaster Model OD1000N thruster	4 ea. Retractable 360° Azimuth
Thrustmaster Model VT6DCM HPUs	4 ea. w/ 1000 HP Caterpillar 3508B
Generators	
Cummins QSM-11DM Gensets	3 ea. 300 Kw, 480 V, 60 Hz,
SDMO Emergency generator & switchboard	1 ea. 99 Kw, 480 V, 60 Hz,

	Department <h2 style="text-align: center;">Marine Division</h2>	Page 3 of 4
	Document CM 21 – Barge Operations Manual	Document Number LOG-PRO-3002
Section Title 2.0 Vessel Specifications	Rev. Number and Date Rev. 0 – 02/01/10	

Accommodations	
72 man Berthing	8 ea. 2 man w/office, 14 ea. 4 man, Safety/medic office w/ 6 berths
Fully Equipped Galley	Mess seating 42. Frozen, Fresh, & Dry Food Stores. Hot & Cold service tables.
Recreation Room	Wide Screen Satellite TV & DVD's
Laundry	
Fire and Safety Equipment	
25 man SOLAS approved inflatable liferafts	9 ea
16' Rescue Boat /25 HP Yamaha	6 man capacity
Rescue Davit with Electric Motor	1 ea
Central Station Fire Detection System and alarms	Smoke detection accommodations- heat detection machinery spaces
Fire Stations with hose & nozzle	21 ea.
Portable Fire Extinguishers and spares	Approved to USCG and ABS requirements
Firemans Outfits	4 ea. w/ 30 min SCBA
Helicopter Crash Kit	1 ea.
Emergency Escape Breathing Devices	6 ea. 10 min located per USCG/ABS req.
Life Jackets	156 ea. w/ lights and whistle
30 " Life Ring Buoys	8 ea. Equipped to Solas/USCG requirements
Emergency Embarkation/Debarkation Ladder	2 ea. Approved to Solas/USCG requirements
Emergency Positioning Indicator Radio Beacon (EPIRB)	1 ea. Free Floating 406 mhz
Portable Search and Rescue Transponder (SART)	3 ea.
Portable GMDSS Survival Radio	3 ea. w/ spare batteries

	Department <h2 style="text-align: center;">Marine Division</h2>	Page 4 of 4
	Document CM 21 – Barge Operations Manual	Document Number LOG-PRO-3002
Section Title 2.0 Vessel Specifications	Rev. Number and Date Rev. 0 – 02/01/10	

Operational Equipment and Machinery	
7707 Lima Crane (Pedestal Mount)	110' Boom /225,400 # Max. Capacity
Nautilus 60 B2 Crane/Man Rated (Pedestal Mount)	50' Boom/30,981# Max. Capacity
Helo-Deck On Bow of Vessel	11.7 ton Capacity /44' Max length Helo
Power Services on aft deck (480v, 60Hz)	1-100 amp/1 -200 amp /1-400 amp
Main Fire Pump	324 gpm @ 150 ft 50 HP
Emergency Fire/Ballast Pump	324 gpm @ 150 ft 30 Hp
Main Bilge Pump	500 gpm @ 52 ft 20 Hp
Em. Bilge Pump	324 gpm @ 150 ft 30 Hp
Main Ballast Pump	500 gpm @ 52 ft 20 Hp
Main Fuel Pump	84 gpm 7.5 Hp
Secondary Fuel Pump	17 gpm 1.5 Hp
Fuel Centrifuges	401 gph
Fresh Water Pumps	150 gpm @ 165 ft 10 Hp
Air Compressors	200 cfpm 15 Hp
Generator Cooling Pumps	200 gpm @50 ft 5Hp
Owens Kleen Tank MSD	83 man 2500 gals USCG/ABS approved
Oil Water Separator	Boss 10T/107 with 15 ppm OMD
Anchor Winch Hyd Unit	60 gal tank @ 31 gpm 60 Hp