

M/V SUPERIOR STORM

Marine Division Liftboat Specifications



Class 245

Official No.: 1120898

Year Built: 2002

Call Sign: WDA 8731

- 245' Legs
- 6,550 Square Feet of Total Deck Area
- 1,000,000 Lbs. Maximum Deckload
- Works In Water Depths Up To 180'
- Sleeps 42 Persons, Including a Standard Crew Complement of 10
- Can travel with 36 Passengers

Gross Tons: 174 ITC: 1142

Net Tons: 127 342

- USCG Inspected
- ABS Classed
- SOLAS Classed
- SOLAS Ready
- Moonpool Equipped
- Zero Discharge Capable
- Zero Discharge Ready

Vessel Characteristics

Hull Dimensions

Length Overall (ft.)	141'
Length (Barge Only) (ft.)	133'
Beam Overall (ft.)	100'
Beam (Barge Only) (ft.)	67'
Hull Depth (ft.)	13'
Design Draft (ft./in.)	13' 0"
Open Deck Area (sq. ft.)	5,135'
	(65 x 79)

Leg Dimensions

<input checked="" type="checkbox"/> Internally Braced	Number of Legs	3
	Leg Length (ft.)	245'
	Leg Diameter (in.)	72"
	LegWall (in.)	1.375"
	Leg Tower Height (ft.)	20'
	Triangle	84 P/S x 107 AFT

Pad Dimensions

Pad Length (ft.)	40'
Pad Width (ft.)	16'
Pad Depth (ft.)	4'

Comments: Raked at both ends

Crane Specifications

	Port	Starboard
Make	Nautilus	Nautilus
Model	1400L-95	200BT70/100
Load Rating (tons)	250	30
Boom Type	Lattice	Telescoping
Boom Length (ft.)	100'	100'
Crane Inst. Type	Pedestal	Pedestal

All published load ratings are based upon a 20 ft. radius

Propulsion

<input type="checkbox"/> Bow Thruster Equipped	
Mains - Make	Caterpillar
Mains - Model	3512
Horsepower	1500
Clutch Make/Reduction	5:1

Generators

Generator Engine Make	Caterpillar
Generator Engine Model	3306
Generator Output	One (1) 170 kw & One (1) 95 kw
<input checked="" type="checkbox"/> Equipped w/ Aux Genset	Output: 95 kw

Capacities

Diesel Fuel (gal.)	15,000
Potable Water (gal.)	37,146
<input type="checkbox"/> Watermaker Equipped	

Electronic Aids & Communications

- Compass
- GPS/DGPS
- Loran
- Radar
- Fathometer
- Loudhailer
- Sattelite Phone
- Cellular Phone
- Private Freq Radiotelephone
- VHF Radio
- Single Sideband Radio
- GMDSS

Personnel Accommodations Features

Total Sleeping Accommodations	42
VIP Accommodations	2
Crew Accommodations	10
Contractor Accommodations	30

Other Features

- VIP Office
- Galley & Dining
- TV Lounge
- Laundry Facility
- Air Conditioned/Heated

Performance Characteristics

Estimated Speed	5 mph/ 4.34 knots
Max Separation, Pad to Deck (ft.)	225'
Max Working Water Depth (ft.)	180'
Min Working Water Depth (ft.)	14'
Max Jacking	Soft Bottom 5'
Sea States (ft.)	Hard Bottom 4'

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LOAD CHART



**Class
245**

PORT CRANE MODEL -Nautilus 1400L-95 Marine Crane

CRANE		PERSONNEL LIFTS AUXILIARY HOIST		1 - PART AUXILIARY HOIST		4 - PART INTERMEDIATE HOIST		8 - PART MAIN HOIST		12 - PART MAIN HOIST	
		STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC
RADIUS IN FEET	ANGLE IN DEGREES										
20	83.5	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	322,548B	322,548B	500,000A	333,334A
25	80	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	322,548B	269,995A	404,992A	269,995A
30	77	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	322,548B	225,909A	338,863A	225,909A
35	74	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	290,380A	193,587A	290,380A	193,587A
40	71	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	253,309A	168,873A	253,309A	168,873A
45	68	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	224,042A	149,361A	224,042A	149,361A
50	65	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	200,346A	133,564A	200,346A	133,564A
55	61	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	180,767A	120,511A	180,767A	120,511A
60	58	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	164,316A	109,544A	164,316A	109,544A
65	54	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	150,296A	100,197A	150,296A	100,97A
70	50	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	138,204A	92,136A	138,204A	92,136A
75	46	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	127,666A	85,111A	127,666A	85,111A
80	41	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	118,398A	78,932A	118,398A	78,932A
83	36	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	110,181A	73,454A	110,181A	73,454A
90	31	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	102,841A	68,561A	102,841A	68,561A
95	24	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	96,240A	64,160A	96,240A	64,160A
100	13	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	86,041A	57,361A	86,041A	57,361A
102	0	3,397B	3,397B	10,207B	9,333B	40,000B	26,667B	70,834A	47,223A	70,834A	47,223A

IMPORTANT

1. MAIN HOIST CAPACITIES ARE BASED ON 1 1/4" DIAMETER DYFORM 34 HSLR WIRE ROPE. (BREAKING STRENGTH = 220,320 LBS.) 2855 FT. OF WIRE ROPE IS REQUIRED.
2. INTERMEDIATE HOIST CAPACITIES ARE BASED ON FOUR PART REEVING OF 3/4" DIAMETER, DYFORM 18 HSLR WIRE ROPE (BREAKING STRENGTH = 64,800 LBS.) 1085 FT. OF WIRE ROPE IS REQUIRED.
3. AUXILIARY HOIST CAPACITIES ARE BASED ON ONE PART REEVING OF 3/4" DIAMETER, DYFORM 18 HSLR WIRE ROPE (BREAKING STRENGTH 64,800 LBS.) 450 FT. OF WIRE ROPE IS REQUIRED.
4. "A" LOADS ARE LIMITED BY STRUCTURAL DESIGN
5. "B" LOADS ARE LIMITED BY WIRE ROPE CAPACITY
6. "C" LOADS ARE LIMITED BY AVAILABLE HOIST LINE PULL
7. ALL RATINGS IN ACCORDANCE WIT API SPECIFICATION 20 (SPEC 2C), FIFTH EDITION, APRIL 3, 1995
8. 64,800 BREAKING STRENGTH 3/4" - DIAMETER DYFORM 18 AUXILIARY HOIST
9. 64,800 BREAKING STRENGTH 3/4" - DIAMETER DYFORM 18 INTERMEDIATE HOIST
10. 220,320 BREAKING STRENGTH 1-1/4" - DIAMETER DYFORM 34 MAIN HOIST

STBD CRANE

STBD CRANE

CRANE		RETRACTED 70 FT. MAX REACH							
		PERSONNEL LIFT		1-PART AUX		4-PART MAIN		6-PART MAIN	
RADIUS IN FEET	ANGLE DEGREES	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC
9	82.6	1,840	1,840	5,040	5,040	51,000	40,000	60,000	40,000
10	82	1,840	1,840	5,040	5,040	51,000	40,000	60,000	40,000
15	78	1,840	1,840	5,040	5,040	51,000	40,000	60,000	40,000
20	74	1,840	1,840	5,040	5,040	51,000	40,000	60,000	40,000
25	69	1,840	1,840	5,040	5,040	51,000	40,000	60,000	40,000
30	65	1,840	1,840	5,040	5,040	51,000	40,000	60,000	40,000
35	61	1,840	1,840	5,040	5,040	51,000	35,081	53,271	35,081
40	56	1,840	1,840	5,040	5,040	45,862	30,141	45,862	30,141
45	51	1,840	1,840	5,040	5,040	40,150	26,333	40,150	26,333
50	45	1,840	1,840	5,040	5,040	35,611	23,307	35,611	23,307
55	39	1,840	1,840	5,040	5,040	31,917	20,845	31,917	20,845
60	32	1,840	1,840	5,040	5,040	28,851	18,801	28,851	18,801
65	23	1,840	1,840	5,040	5,040	26,263	17,075	26,263	17,075
70	0	1,840	1,840	5,040	5,040	17,869	11,479	17,869	11,479

RETRACTED 100 FT. MAX REACH

CRANE		RETRACTED 100 FT. MAX REACH							
		PERSONNEL LIFT		1-PART AUX		4-PART MAIN		6-PART MAIN	
RADIUS IN FEET	ANGLE DEGREES	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC
12.8	82.5	1,840	1,840	5,040	5,040	19,036	12,257	19,036	12,257
15	81	1,840	1,840	5,040	5,040	18,726	12,051	18,726	12,051
20	79	1,840	1,840	5,040	5,040	18,239	11,725	18,239	11,725
25	76	1,840	1,840	5,040	5,040	17,458	11,205	17,458	11,205
30	73	1,840	1,840	5,040	5,040	16,930	10,853	16,930	10,853
35	70	1,840	1,840	5,040	5,040	16,457	10,538	16,457	10,538
40	67	1,840	1,840	5,040	5,040	16,056	10,271	16,056	10,271
45	64	1,840	1,840	5,040	5,040	15,717	10,045	15,717	10,045
50	60	1,840	1,840	5,040	5,040	15,432	9,855	15,432	9,855
55	57	1,840	1,840	5,040	5,040	15,215	9,710	15,215	9,710
60	54	1,840	1,840	5,040	5,040	15,072	9,615	15,072	9,615
65	50	1,840	1,840	5,040	5,040	14,993	9,562	14,993	9,562
70	46	1,840	1,840	5,040	5,040	15,003	9,569	15,003	9,569
75	42	1,840	1,840	5,040	5,040	15,108	9,639	15,108	9,639
80	38	1,840	1,840	5,040	5,040	15,324	9,783	15,324	9,783
85	33	1,840	1,840	5,040	5,040	15,753	10,069	15,753	10,069
90	27	1,840	1,840	5,040	5,040	16,486	10,557	16,486	10,557
95	19	1,840	1,840	5,040	5,040	15,286	9,757	15,286	9,757
100	0	1,840	1,840	5,040	5,040	9,450	5,867	9,450	5,867

1. Main Hoist capacities are based on 3/4" Diameter, Dyform 18 HSLR Wire Rope (BREAKING STRENGTH = 64,800 LBS.) 1,550 FT. of Wire Rope is Required.
2. Auxiliary Hoist Capacities are based on one part reeving of 1/2" Diameter Dyform 18 HSLR Wire Rope (BREAKING STRENGTH - 29,200 LBS.) 400 FT of Wire Rope is required.
3. All ratings in accordance with API Specification 20 (Spec. 2C). Fifth Edition, April 3, 1995. A dynamic coefficient (cb) of 2.0 is used.
4. The above ratings are considered "net ratings" as the load block weight of 1,300 LBS. & the overhull ball weight of 210 LBS has already been deducted.

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LIFTBOAT SPECIFICATIONS



Class
245

