

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 41 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.)	8.46'
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"
	Leg Wall (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

Propulsion

<input type="checkbox"/> Bow Thruster Equipped	
Mains - Make	Caterpillar
Mains - Model	3512
Horsepower	1600
Clutch Make/Reduction	5:1

Generators

Generator Engine Make	Caterpillar
Generator Engine Model	3306
Generator Output	Two (2) 175 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
- Satellite Phone
- Cellular Phone
- Private Freq Radiotelephone
- VHF Radio
- Single Sideband Radio
- GMDSS

Personnel Accommodations Features

Total Sleeping Accommodations	41
VIP Accommodations	2
Crew Accommodations	9
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.)	13'
Max Jacking	Soft Bottom 5'
Sea States (ft.)	Hard Bottom 4'

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LOAD CHART



**Class
245**

MODEL -Nautilus 1400-95 Marine Crane

CRANE	PORT CRANE														
	MAIN HOIST										INTERMEDIATE HOIST		AUXILIARY HOIST		
	STATIC RATING					DYNAMIC RATING					STATIC RATING	DYNAMIC RATING	STATIC RATING	DYNAMIC RATING	PERSONNEL RATING
RADIUS IN FEET	12 PART	10 PART	8 PART	6 PART	4 PART	12 PART	10 PART	8 PART	6 PART	4 PART	STATIC RATING	DYNAMIC RATING	STATIC RATING	DYNAMIC RATING	PERSONNEL RATING
20	500,000	422,562	343,082	256,984	168,856	330,893	330,893	330,893	256,984	168,856	40,000	26,667	10,207	9,333	3,397
25	404,992	404,992	343,082	256,984	168,856	267,528	267,528	267,528	256,984	168,856	40,000	26,667	10,207	9,333	3,397
30	338,863	338,863	338,863	256,984	168,856	223,442	223,442	223,442	223,442	168,856	40,000	26,667	10,207	9,333	3,397
35	290,380	290,380	290,380	256,984	168,856	192,120	192,120	192,120	192,120	168,856	40,000	26,667	10,207	9,333	3,397
40	253,309	253,309	253,309	253,309	168,856	166,406	166,406	166,406	166,406	168,856	40,000	26,667	10,207	9,333	3,397
45	224,042	224,042	224,042	224,042	168,856	146,895	146,895	146,895	146,895	146,895	40,000	26,667	10,207	9,333	3,397
50	200,346	200,346	200,346	200,346	168,856	131,097	131,097	131,097	131,097	131,097	40,000	26,667	10,207	9,333	3,397
55	180,767	180,767	180,767	180,767	168,856	118,045	118,045	118,045	118,045	118,045	40,000	26,667	10,207	9,333	3,397
60	164,316	164,316	164,316	164,316	168,856	107,077	107,077	107,077	107,077	107,077	40,000	26,667	10,207	9,333	3,397
65	150,296	150,296	150,296	150,296	150,296	97,731	97,731	97,731	97,731	97,731	40,000	26,667	10,207	9,333	3,397
70	138,204	138,204	138,204	138,204	138,204	89,669	89,669	89,669	89,669	89,669	40,000	26,667	10,207	9,333	3,397
75	127,666	127,666	127,666	127,666	127,666	82,644	82,644	82,644	82,644	82,644	40,000	26,667	10,207	9,333	3,397
80	118,398	118,398	118,398	118,398	118,398	76,465	76,465	76,465	76,465	76,465	40,000	26,667	10,207	9,333	3,397
83	110,181	110,181	110,181	110,181	110,181	70,987	70,987	70,987	70,987	70,987	40,000	26,667	10,207	9,333	3,397
90	102,841	102,841	102,841	102,841	102,841	66,094	66,094	66,094	66,094	66,094	40,000	26,667	10,207	9,333	3,397
95	96,240	96,240	96,240	96,240	96,240	61,693	61,693	61,693	61,693	61,693	40,000	26,667	10,207	9,333	3,397
100	86,041	86,041	86,041	86,041	86,041	54,894	54,894	54,894	54,894	54,894	40,000	26,667	10,207	9,333	3,397
102	70,834	70,834	70,834	70,834	70,834	44,756	44,756	44,756	44,756	44,756	40,000	26,667	10,207	9,333	3,397

HEELPIN 14FT. ABOVE DECK AND 7FT. 10IN. FROM BOW

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 WITH 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

CRANE	RETRACTED 70 FT. MAX REACH						EXTENDED 100 FT. MAX REACH								
	RADIUS IN FEET	ANGLE DEGREES	6-PART MAIN		AUXILIARY LIFTS		6-PART MAIN		AUXILIARY LIFTS						
			STATIC	DYNAMIC	STATIC	DYNAMIC	PERSONNEL	STATIC	DYNAMIC	PERSONNEL					
9	82.6	60,000	40,000												
10	82	60,000	40,000												
15	78	60,000	40,000												
20	74	60,000	40,000												
25	69	60,000	40,000												
30	65	60,000	40,000												
35	61	53,271	35,081												
40	56	45,862	30,141												
45	51	40,150	26,333	5,040	5,040	1,840									
50	45	35,611	23,307												
55	39	31,917	20,845												
60	32	28,851	18,801												
65	23	26,263	17,075												
70	0	17,869	11,479												
12.8	82.5	19,036	12,257												
15	81	18,726	12,051												
20	79	18,239	11,725												
25	76	17,458	11,205												
30	73	16,930	10,853												
35	70	16,457	10,538												
40	67	16,056	10,271												
45	64	15,717	10,045												
50	60	15,432	9,855												
55	57	15,414	9,843												
60	54	15,396	9,830												
65	50	15,377	9,818												
70	46	15,359	9,806	5,040	5,040	1,840									
75	42	15,341	9,794												
80	38	15,323	9,782												
85	33	15,304	9,770												
90	27	15,286	9,757												
95	19	15,268	9,745												
100	0	9,450	5,867												

NOTES: Main Hoist capacities are based on a six part reeving of 3/4" Diameter, Dyform 18 HSLR Wire Rope (BREAKING STRENGTH = 64,800 LBS.) 1,547 FT. of Wire Rope is Required.
 • Auxiliary Hoist Capacities are based on one part reeving of 1/2" Diameter Dyform 18 HSLR Wire Rope (BREAKING STRENGTH = 29,200 LBS.) 383 FT of Wire Rope is required.
 • All ratings in accordance with API Specification 20 (Spec. 20), Fifth Edition, April 3, 1995
 • The above ratings are considered net ratings as the main load block weight of 1,300 LBS. & the overhaul ball weight of 321 LBS has already been deducted.

HEELPIN 7' 10" TO BOW

HEELPIN 14' ABOVE DECK

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LIFTBOAT SPECIFICATIONS



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245

