

# M/V SUPERIOR SPIRIT

## Marine Division Liftboat Specifications



**Class  
170**

Official No.: 680240

Year Built: 1985

Call Sign: WCW 7250

- 170' Legs
- 3,400 Square Feet of Open Deck Area
- 175,000 Lbs. Maximum Deckload
- Works In Water Depths Up To 115'
- Sleeps 28 Persons, Including a Standard Crew Complement of 6
- Can travel with 16 Passengers

Gross Tons: 193 ITC: 489

Net Tons: 140 146

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

## Vessel Characteristics

### Hull Dimensions

Length Overall (ft.)	115.5'
Length (Barge Only) (ft.)	100'
Beam Overall (ft.)	71'
Beam (Barge Only) (ft.)	40'
Hull Depth (ft.)	8'
Design Draft (ft./in.)	7' 6"
Open Deck Area (sq. ft.)	3,400

### Leg Dimensions

<input checked="" type="checkbox"/> Internally Braced	Number of Legs	3
	Leg Length (ft.)	170'
	Leg Diameter (in.)	48"
	LegWall (in.)	0.75"
	Leg Tower Height (ft.)	16'

### Pad Dimensions

Pad Length (ft.)	34'
Pad Width (ft.)	15'
Pad Depth (ft.)	2.3'

Comments: Raked at both ends

### Crane Specifications

	Port	Starboard
Make	EBI Cranes	SeaKing
Model	C-20-50	2100
Load Rating (tons)	10	50
Rated @ (ft.)	10'	25'
Boom Type	Fixed (Box)	Lattice
Boom Length (ft.)	50'	80'
Crane Inst. Type	Pedestal	King Post

### Propulsion

<input type="checkbox"/> Bow Thruster Equipped	
Mains - Make	Detroit Diesel
Mains - Model	12V71
Horsepower	750
Clutch Make/Reduction	Twin Disc 5.16:1

### Generators

Generator Engine Make	Detroit Diesel
Generator Engine Model	6-71
Generator Output	99 kw
<input type="checkbox"/> Equipped w/ Aux Genset	Output:

### Capacities

Diesel Fuel (gal.)	6,592
Potable Water (gal.)	10,374
<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	28
VIP Accommodations	2
Crew Accommodations	6
Contractor Accommodations	20

### 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.)	154'
Max Working Water Depth (ft.)	115'
Max Jacking Sea States (ft.)	Soft Bottom 5'
	Hard Bottom 4'

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## LOAD CHART



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PORT

### MODEL - SEAKING SK-2100 CRANE LOAD CHART

CRANE	80 FOOT BOOM LENGTH			
	STATIC RATING		DYNAMIC RATING	
RADIUS IN FEET	8 PART MAIN	10 PART MAIN	8 PART MAIN	10 PART MAIN
15	92,480	116,000	92,480	92,480
20	92,480	116,000	80,691	80,691
25	92,480	104,050	68,833	68,833
30	86,557	86,557	57,171	57,171
35	73,895	73,895	48,730	48,730
40	64,304	64,304	42,336	42,336
45	56,788	56,788	37,325	37,325
50	50,739	50,739	33,293	33,293
55	45,766	45,766	29,977	29,977
60	41,606	41,606	27,204	27,204
65	38,074	38,074	24,849	24,849
70	35,037	35,037	22,825	22,825
75	32,400	32,400	21,066	21,066
80	30,086	30,086	19,524	19,524

STBD

### MODEL - EBI C2550 CRANE LOAD CHART

CRANE	STATIC RATING				DYNAMIC RATING	
	2 PART MAIN	4 PART MAIN	2 PART MAIN	4 PART MAIN	2 PART MAIN	4 PART MAIN
10	10,553	20,000	10,553	13,333	10,553	13,333
15	10,553	13,300	8,866	8,866	8,866	8,866
20	10,000	10,000	6,666	6,666	6,666	6,666
25	7,600	7,600	5,066	5,066	5,066	5,066
30	6,000	6,000	4,000	4,000	4,000	4,000
35	4,800	4,800	3,200	3,200	3,200	3,200
40	4,000	4,000	2,666	2,666	2,666	2,666
45	3,400	3,400	2,266	2,266	2,266	2,266
50	3,000	3,000	1,000	1,000	1,000	1,000

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## LIFTBOAT SPECIFICATIONS



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