

M/V SUPERIOR INTEGRITY

Marine Division Liftboat Specifications



**Class
160**

Official No.: 663833	Year Built: 1983	Call Sign: WRC 6548
- 160' Legs	Gross Tons: 192	ITC: 333
- 3,160 Square Feet of Total Deck Area	Net Tons: 152	100
- 171,500 Lbs. Maximum Deckload	<input checked="" type="checkbox"/> USCG Inspected	
- Works In Water Depths Up To 110'	<input type="checkbox"/> ABS Classed	
- Sleeps 28 Persons, Including a Standard Crew Complement of 4	<input type="checkbox"/> SOLAS Classed	
- Can travel with 16 Passengers	<input type="checkbox"/> SOLAS Ready	
	<input type="checkbox"/> Moonpool Equipped	
	<input checked="" type="checkbox"/> Zero Discharge Capable	
	<input type="checkbox"/> Zero Discharge Ready	

Vessel Characteristics

Hull Dimensions

Length Overall (ft.)	105.5'
Length (Barge Only) (ft.)	90'
Beam Overall (ft.)	71'
Beam (Barge Only) (ft.)	40'
Hull Depth (ft.)	8'
Design Draft (ft./in.)	8' 0"
Open Deck Area (sq. ft.)	2,560
(40 x 64) Irregular	

Leg Dimensions

<input checked="" type="checkbox"/> Internally Braced	Number of Legs	3
	Leg Length (ft.)	160'
	Leg Diameter (in.)	48"
	LegWall (in.)	0.625"
	Leg Tower Height (ft.)	16'
Triangle: 56 P/S x 82 AFT		

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	Nautilus	EBI Cranes
Model	70-2-80	TC 30-40-70B
Load Rating (tons)	47	15
Boom Type	Fixed (Box)	Telescopic
Boom Length (ft.)	80'	70'
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	Detroit Diesel
Mains - Model	12V71
Horsepower	900
Clutch Make/Reduction	Twin Disc MG514 3:1

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.)	7,440
Potable Water (gal.)	6,000
<input type="checkbox"/> Watermaker Equipped	

Electronic Aids & Communications

<input checked="" type="checkbox"/> Compass	<input type="checkbox"/> Cellular Phone
<input checked="" type="checkbox"/> GPS/DGPS	<input type="checkbox"/> Private Freq Radiotelephone
<input type="checkbox"/> Loran	<input checked="" type="checkbox"/> VHF Radio
<input checked="" type="checkbox"/> Radar	<input checked="" type="checkbox"/> Single Sideband Radio
<input checked="" type="checkbox"/> Fathometer	<input type="checkbox"/> GMDSS
<input checked="" type="checkbox"/> Loudhailer	
<input checked="" type="checkbox"/> Sattelite Phone	

Personnel Accommodations Features

Total Sleeping Accommodations	28
VIP Accommodations	2
Crew Accommodations	4
Contractor Accommodations	22

Other Features

<input checked="" type="checkbox"/> VIP Office	<input checked="" type="checkbox"/> Laundry Facility
<input checked="" type="checkbox"/> Galley & Dining	<input checked="" type="checkbox"/> Air Conditioned/Heated
<input checked="" type="checkbox"/> TV Lounge	

Performance Characteristics

Estimated Speed	5 mph/ 4.34 knots
Max Separation, Pad to Deck (ft.)	144'
Max Working Water Depth (ft.)	110'
Min Working Water Depth (ft.)	9'
Max Jacking	Soft Bottom 5'
Sea States (ft.)	Hard Bottom 4'

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LOAD CHART



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PORT CRANE

CRANE		Personal Lifts Auxiliary Hoist		1-Part Auxiliary Hoist		10-Part Main Hoist	
		STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC
ANGLE DEGREES	RADIUS IN FEET						
83	10	6,350B	6,350B	12,701 B	12,701 B	116,381 B	93,333 A
75	20	6,350B	6,350B	12,701 B	12,701 B	95,380 A	63,587 A
72	25	6,350B	6,350B	12,701 B	12,701 B	90,760 A	60,507 A
66	30	6,350B	6,350B	12,701 B	12,701 B	76,180 A	50,787 A
64	35	6,350B	6,350B	12,701 B	12,701 B	65,610 A	43,740 A
60	40	6,350B	6,350B	12,701 B	12,701 B	57,510 A	38,340 A
58	45	6,350B	6,350B	12,701 B	12,701 B	51,030 A	34,020 A
51	50	6,350B	6,350B	12,701 B	12,701 B	45,610 A	30,407 A
47	55	6,350B	6,350B	12,701 B	12,701 B	41,000 A	27,333 A
41	60	6,350B	6,350B	12,701 B	12,701 B	36,830 A	24,553 A
36	65	6,350B	6,350B	12,701 B	12,701 B	32,870 A	21,913 A
29	70	6,350B	6,350B	12,701 B	12,701 B	28,820 A	19,213 A
20	75	6,350B	6,350B	12,701 B	12,701 B	24,020 A	16,013 A
1	80	6,350B	6,350B	11,670 A	7,747 B	11,620 A	7,747 A

MODEL -EBI CRANE TC30-40-70

STBD CRANE

CRANE		RETRACTED 40' FT MAX REACH				EXTENDED 50' FT MAX REACH				EXTENDED 60' FT MAX REACH				EXTENDED 70' FT MAX REACH						
		LOAD LINE LBS		FAST LINE LBS		LOAD LINE LBS		FAST LINE LBS		LOAD LINE LBS		FAST LINE LBS		LOAD LINE LBS		FAST LINE LBS				
RADIUS IN FEET	BOOM ANGLE	STATIC	DYNAMIC	STATIC	DYNAMIC	BOOM ANGLE	STATIC	DYNAMIC	STATIC	DYNAMIC	BOOM ANGLE	STATIC	DYNAMIC	STATIC	DYNAMIC	BOOM ANGLE	STATIC	DYNAMIC	STATIC	DYNAMIC
10	76'	53,040	34,890	4,890	4,890	78'	20,290	20,290	4,890	4,890	80'	20,090	20,090	4,890	4,890	82'	20,090	20,090	4,890	4,890
15	69'	39,015	25,540	4,890	4,890	73'	20,290	20,290	4,890	4,890	76'	20,090	19,860	4,890	4,890	78'	20,090	16,860	4,890	4,890
20	61'	30,485	19,840	4,890	4,890	67'	20,290	18,890	4,890	4,890	71'	20,090	15,990	4,890	4,890	73'	18,860	12,090	4,890	4,890
25	53'	25,290	16,390	4,890	4,890	60'	20,290	15,340	4,890	4,890	66'	20,090	13,310	4,890	4,890	69'	15,765	10,040	4,890	4,890
30	43'	21,165	13,640	4,890	4,890	54'	20,115	12,960	4,890	4,890	60'	17,715	11,340	4,890	4,890	65'	13,290	8,390	4,890	4,890
35	31'	17,490	11,190	4,890	4,890	46'	17,190	10,990	4,890	4,890	55'	15,465	9,860	4,890	4,890	60'	11,340	7,090	4,890	4,890
40	0	10,665	6,640	4,890	4,890	38'	14,790	9,390	4,890	4,890	49'	13,590	8,590	4,890	4,890	56'	9,990	6,190	4,890	4,890
45						27'	12,540	7,890	4,890	4,890	42'	12,240	7,960	4,890	4,890	50'	8,565	5,240	4,890	4,890
50						0	7,440	4,490	4,890	4,890	34'	10,665	6,640	4,890	4,890	45'	7,590	4,590	4,890	4,590
55											25'	9,090	5,590	4,890	4,890	39'	6,765	4,040	4,890	4,040
60											0'	5,115	2,960	4,890	2,960	32'	6,090	3,590	4,890	3,590
65																23'	5,490	3,190	4,890	3,190
70																0	3,390	1,790	3,390	1,790

VALUES SHOWN ARE HOOK LOADS

EBI LOAD LINE BLOCK AND HOOK WIEGHT IS 13,000 LBS

EBI WHIP LINE BLOCK AND HOOK WEIGHT IS 110 LBS.

THE LOADS SHOWN ARE LESS THAN THE ALLOWABLES TO ACCOUNT FOR THE WEIGHT OF THE BLOCKS AND HOOKS

LOAD LINE: 4-PART LINE, 1" 6 X 25 EIPS IWRC

100,000 LB NOMINAL STRENGTH

20,000 LB WORKING

FAST LINE: 1-PART 9/16" 9 X 17 EIPS IWRC

25,000 LB. NOMINAL STRENGTH

5,000 LB. WORKING

M/V SUPERIOR INTEGRITY

LIFTBOAT SPECIFICATIONS



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