



**TRINITY**

**LIFTBOAT SERVICES, LLC**

**TRINITY I**

- Official No.: 629196      Year Built: 1980
- 145' Legs
  - 1,824 Square Feet of Total Deck Area
  - 130,000 Lbs. Maximum Deckload
  - With Forward Water Tanks Empty
  - Works In Water Depths Up To 85'
  - Sleeps 28 Persons, Including a Standard Crew Complement of 6
  - Can Travel with 16 Passengers

Call Sign: WDA 5235

- Gross Tons: 191    ITC:  
 Net Tons: 130
- USCG Inspected
  - ABS Classed
  - SOLAS Classed
  - SOLAS Ready
  - Moonpool Equipped
  - Zero Discharge Capable
  - Zero Discharge Ready

Hull Dimensions

|                            |       |
|----------------------------|-------|
| Length Overall (ft.)       | 91'   |
| Length (Barge Only) (ft.)  | 78'   |
| Beam Overall (ft.)         | 63'   |
| Beam (Barge Only) (ft.)    | 38'   |
| Hull Depth (ft.)           | 8'    |
| Design Draft (ft./in.)     | 6' 6" |
| Open Deck Area (sq. ft.)   | 1,522 |
| (38 x 48) Irregular        |       |
| (10' FROM BOW) Coring Hole | 18"   |

Generators

|   |                |
|---|----------------|
| Generator Engine Make                           | Detroit Diesel |
| Generator Engine Model                          | 4-71           |
| Generator Output                                | (Two) 2 75 kw  |
| <input type="checkbox"/> Equipped w/ Aux Genset | <b>Output:</b> |

Capacities

|  |       |
|--|-------|
| Diesel Fule (gal.)                           | 4,452 |
| Potable Water (gal.)                         | 9,000 |
| <input type="checkbox"/> Watermaker Equipped |       |

Leg Dimensions

Internally Braced

|                           |      |
|---------------------------|------|
| Number of Legs            | 3    |
| Leg Length (ft.)          | 145' |
| Leg Diameter (in.)        | 42"  |
| LegWall (in.)             | 5/8" |
| Leg Tower Height (ft.)    | 13'  |
| Triangle: 51 P/S x 70 AFT |      |

Electronic Aids & Communications

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

Pad Dimensions

|                  |     |
|------------------|-----|
| Pad Length (ft.) | 24' |
| Pad Width (ft.)  | 12' |
| Pad Depth (ft.)  | 2'  |

Comments: Raked at both ends

Personnel Accommodations Features

|                               |    |
|-------------------------------|----|
| Total Sleeping Accommodations | 28 |
| VIP Accommodations            | 2  |
| Crew Accommodations           | 6  |
| Contractor Accommodations     | 20 |

Other Features

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

| <u>Crane Specifications</u> | Port        | Starboard   |
|-----------------------------|-------------|-------------|
| Make                        | Nautilus    | RECO        |
| Model                       | M70-90      | RC10B-50    |
| Load Rating (tons)          | 47          | 6.5         |
| Boom Type                   | Fixed (Box) | Fixed (Box) |
| Boom Length (ft.)           | 90'         | 50'         |
| Crane Inst. Type            | Pedestal    | Pedestal    |

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

Performance Characteristics

|                                    |                   |
|------------------------------------|-------------------|
| Estimated Speed (mph/knots)        | 5 MPH/ 4.34 knots |
| Max Separation, Pad to Deck ( ft.) | 132'              |
| Max Working Water Depth ( ft.)     | 85'               |
| Min Working Water Depth ( ft.)     | 9'                |
| Max Jacking      Soft Bottom       | 5'                |
| Sea States (ft.)      Hard Bottom  | 4'                |

Propulsion

Bow Thruster Equipped

|                       |                |
|-----------------------|----------------|
| Mains - Make          | Detroit Diesel |
| Mains - Model         | 12V71          |
| SHP Horsepower        | 800            |
| Clutch Make/Reduction | 3:1            |

## CRANE INFORMATION | TRINITY I

**MODEL - NAUTILUS 70-2-90**

**PORT**

| CRANE I |    | PERSONNEL LIFTS<br>AUXILIARY HOIST |                     | 1 PART<br>AUXILIARY HOIST |         | 2 PART<br>MAIN HOIST |         | 4 PART<br>MAIN HOIST |         | 6 PART<br>MAIN HOIST |         | 8 PART<br>MAIN HOIST |         |
|---------|----|------------------------------------|---------------------|---------------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|
|         |    | RADIUS<br>IN FEET                  | ANGLE IN<br>DEGREES | STATIC                    | DYNAMIC | STATIC               | DYNAMIC | STATIC               | DYNAMIC | STATIC               | DYNAMIC | STATIC               | DYNAMIC |
| 10      | 83 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 49,378B | 72,567B              | 66,667A | 94,867B              | 66,667A |
| 15      | 80 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 49,378B | 72,567B              | 62,833A | 94,250A              | 62,833A |
| 20      | 76 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 49,378B | 72,567B              | 59,000A | 88,500A              | 59,000A |
| 25      | 73 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 49,378B | 72,567B              | 58,120A | 87,180A              | 58,120A |
| 30      | 70 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 42,667A | 64,000A              | 42,667A | 64,000A              | 42,667A |
| 35      | 67 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 40,000A | 60,000A              | 40,000A | 60,000A              | 40,000A |
| 40      | 63 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 37,333A | 56,000A              | 37,333A | 56,000A              | 37,333A |
| 45      | 60 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 49,378B              | 36,613A | 54,920A              | 36,613A | 54,920A              | 36,613A |
| 50      | 56 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 25,142B | 39,800A              | 26,533A | 39,800A              | 26,533A | 39,800A              | 26,533A |
| 55      | 52 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 24,033A | 36,050A              | 24,033A | 36,050A              | 24,033A | 36,050A              | 24,033A |
| 60      | 48 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 21,533A | 32,300A              | 21,533A | 32,300A              | 21,533A | 32,300A              | 21,533A |
| 65      | 44 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 20,433A | 30,650A              | 20,433A | 30,650A              | 20,433A | 30,650A              | 20,433A |
| 70      | 39 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 25,142B              | 17,867A | 26,800A              | 17,867A | 26,800A              | 17,867A | 26,800A              | 17,867A |
| 75      | 34 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 22,000A              | 14,667A | 22,000A              | 14,667A | 22,000A              | 14,667A | 22,000A              | 14,667A |
| 80      | 27 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 18,800A              | 12,533A | 18,800A              | 12,533A | 18,800A              | 12,533A | 18,800A              | 12,533A |
| 85      | 20 | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 12,900A              | 8,600A  | 12,900A              | 8,600A  | 12,900A              | 8,600A  | 12,900A              | 8,600A  |
| 90      | 0  | 4,273B                             | 4,273B              | 8,546B                    | 8,546B  | 12,900A              | 8,600A  | 12,900A              | 8,600A  | 12,900A              | 8,600A  | 12,900A              | 8,600A  |

**HEELPIN IS 10 FT. 5IN. FROM BOW AND 7 FT. 5IN. ABOVE DECK**

**MODEL - RECO 10B50**

**STBD**

| CRANE II               |                   |                     | 2 PART MAIN HOIST |         |
|------------------------|-------------------|---------------------|-------------------|---------|
| STRUCTURAL<br>CAPACITY | RADIUS<br>IN FEET | ANGLE IN<br>DEGREES | STATIC            | DYNAMIC |
| 24,800                 | 7                 | 81                  | 13,440B           | 13,440B |
| 22,200                 | 8                 | 80                  | 13,440B           | 13,440B |
| 20,000                 | 9                 | 79                  | 13,440B           | 13,330A |
| 18,300                 | 10                | 78                  | 13,440B           | 12,200A |
| 13,000                 | 15                | 72                  | 13,000A           | 8,660A  |
| 10,200                 | 20                | 66                  | 10,200A           | 6,800A  |
| 8,400                  | 25                | 59                  | 8,400A            | 5,600A  |
| 7,200                  | 30                | 53                  | 7,200A            | 4,800A  |
| 6,300                  | 35                | 45                  | 6,300A            | 4,200A  |
| 5,600                  | 40                | 36                  | 5,600             | 3,730A  |
| 4,900                  | 45                | 25                  | 4,900A            | 3,260A  |
| 3,700                  | 50                | 0.1                 | 3,700A            | 2,460A  |

**NOTES:**

1. STATIC RATED LOADS ARE TO BE USED FOR LIFTS TO OR FROM STATIONARY PLATFORMS
2. DYNAMIC RATED LOADS ARE TO BE USED FOR LIFTS TO AND FROM VESSELS
3. "A" LOADS ARE LIMITED BY STRUCTURAL CRANE CAPACITY
4. "B" LOADS ARE LIMITED BY WIRE ROPE CAPACITY
5. "C" LOADS ARE LIMITED BY AVAILABLE HOIST LINE PULL
6. N/A LB AUXILIARY BALL MUST BE DEDUCTED FROM THE ABOVE LOADS
7. 850 LB LOAD BLOCK MUST BE DEDUCTED FROM THE ABOVE LOADS
8. N/A BREAKING STRENGTH CLASS AUXILIARY WIRE ROPE
9. 33,600 BREAKING STRENGTH 5/8" 19 X 7 EIPS CLASS-MAIN WIRE ROPE
10. MAX BOOM PRESSURE NOT TO EXCEED 1875 PSI



TRINITY  
LIFTBOAT SERVICES, LLC

# VESSEL LAYOUT | TRINITY I

