



LAREDO CONSTRUCTION

M/V Dularge – Class 170 Liftboat – Vessel Specifications

Main Characteristics

| | |
|-------------------|----------------------------------|
| Overall Length | 103 ft 6 in |
| Overall Beam | 73 ft |
| Length Barge Only | 100 ft |
| Hull Depth | 10 ft |
| Design Draft | 8 ft 0 in (based upon deck load) |
| Total Deck Space | 3,500 sq ft |
| Usable Deck Space | 3,000 sq ft |
| Fuel Capacity | 9,000 gal |
| Potable Water | 14,000 gal |
| Gross Tonnage | Under 200 GRT |
| Max Deck Cargo | 200,000 lbs. |

Special Features

| | |
|---------------|---|
| VIP Stateroom | (1) Company Rep Room with Workspace; Private Shower and Toilet |
| Lounge Room | Seating and TV |

Registration

| | |
|------|---------------|
| Flag | United States |
|------|---------------|

Jacking

| | |
|--------------------|--|
| Max Working Depth | 125 ft (with 25 ft air gap) |
| Max Height of Deck | 160 ft (above mud line less penetration) |
| Max Sea Conditions | 4 ft (hard bottom) / 5 ft (soft bottom) |

Legs

| | |
|---------------|---------------|
| Number | 4 |
| Length | 170 ft |
| Diameter | 54 in |
| Wal Thickness | 3/4 in Braced |

Navigation / Communication Equipment

| | |
|----------------|---|
| Communications | Satellite (phone, fax, internet, email) |
| Radios | Multichannel VHF Marine Radio; SSB |
| Positioning | GPS |
| Radar | Furuno System |
| Depth | Fathometer (Video Depth Sounder) |

Cranes (API 2C Certified)

| | |
|-----------|---|
| Main | Capacity – 100 tons Boom Length – 100 ft Engine – 8V-71N GM |
| Auxiliary | Capacity – 5 tons Boom Length – 50 ft2 Engine – 6V-71N GM |



Generators

| | |
|------------|---------------|
| Engines | (2) 8V-71N GM |
| Generators | (2) 99 KW |

Pads

| | |
|--------|-----------|
| Length | 28 ft |
| Width | 13 ft |
| Depth | 2 ft 6 in |

Propulsion

| | |
|----------------------------------|------------------|
| Main Engines | (3) 12V-71N GM |
| Shaft Horsepower | Approx. 1340 SHP |
| Estimated Speed | 5 knots |
| Reduction Gear (twin disc ratio) | 4:1 |

Accessories

| | |
|-------------------|-------------|
| Submersible Pumps | (2) |
| Welding Machines | (2) 300 Amp |

Accommodations

| | |
|---------------------|----------------------------------|
| Berths | Total 38 (5 crew / 33 PAC's) |
| Climate | Central A/C and Heating Units |
| Lounge | Satellite TV and Sofas |
| Lavatory Facilities | (4) |
| Galley | (16) Seats; Freezer and Icemaker |
| Laundry | (2) Washers and Dryers |

Moon Pool

30 in Diameter

DULARGE - CRANE LOAD CHART

LOADS STATED IN THOUSANDS OF POUNDS

| 100' BOOM | | | | | | | | | | JIB | | | |
|----------------|---------------|---------|-------|---------|-------|---------|-------|--------|-------|--------|------|--------|------|
| RADIUS FEET | ANGLE DEG. | 14 PART | | 12 PART | | 10 PART | | 8 PART | | 2 PART | | 1 PART | |
| | | STAT | DYN. | STAT | DYN. | STAT | DYN. | STAT | DYN. | STAT | DYN. | STAT | DYN. |
| 20.0 | 82.8 | 230.0 | 156.4 | 206.3 | 156.4 | 180.4 | 156.4 | 147.9 | 147.9 | 24.0 | 21.7 | 12.0 | 12.0 |
| 25.0 | 79.9 | 230.0 | 146.2 | 206.3 | 146.2 | 180.4 | 120.9 | 147.9 | 146.2 | 24.0 | 21.7 | 12.0 | 12.0 |
| 30.0 | 76.9 | 200.0 | 134.0 | 200.0 | 134.0 | 180.4 | 120.9 | 147.9 | 134.0 | 24.0 | 21.7 | 12.0 | 12.0 |
| 35.0 | 74.0 | 170.3 | 114.1 | 170.3 | 114.1 | 170.3 | 114.1 | 147.9 | 114.1 | 24.0 | 21.7 | 12.0 | 12.0 |
| 40.0 | 70.9 | 148.2 | 99.3 | 148.2 | 99.3 | 148.2 | 99.3 | 147.9 | 99.3 | 24.0 | 21.7 | 12.0 | 12.0 |
| 45.0 | 67.9 | 130.9 | 87.7 | 130.9 | 87.7 | 130.9 | 87.7 | 130.9 | 87.7 | 24.0 | 21.7 | 12.0 | 12.0 |
| 50.0 | 64.7 | 117.1 | 78.4 | 117.1 | 78.4 | 117.1 | 78.4 | 117.1 | 78.4 | 24.0 | 21.7 | 12.0 | 12.0 |
| 55.0 | 61.5 | 105.8 | 70.9 | 105.8 | 70.9 | 105.8 | 70.9 | 105.8 | 70.9 | 24.0 | 21.7 | 12.0 | 12.0 |
| 60.0 | 58.1 | 96.3 | 64.5 | 96.3 | 64.5 | 96.3 | 64.5 | 96.3 | 64.5 | 24.0 | 21.7 | 12.0 | 12.0 |
| 65.0 | 54.6 | 88.3 | 59.2 | 88.3 | 59.2 | 88.3 | 59.2 | 88.3 | 59.2 | 24.0 | 21.7 | 12.0 | 12.0 |
| 70.0 | 51.0 | 81.5 | 54.6 | 81.5 | 54.6 | 81.5 | 54.6 | 81.5 | 54.6 | 24.0 | 21.7 | 12.0 | 12.0 |
| 75.0 | 47.1 | 75.6 | 50.7 | 75.6 | 50.7 | 75.6 | 50.7 | 75.6 | 50.7 | 24.0 | 21.7 | 12.0 | 12.0 |
| 80.0 | 43.0 | 70.4 | 47.2 | 70.4 | 47.2 | 70.4 | 47.2 | 70.4 | 47.2 | 24.0 | 21.7 | 12.0 | 12.0 |
| 85.0 | 38.4 | 65.8 | 44.1 | 65.8 | 44.1 | 65.8 | 44.1 | 65.8 | 44.1 | 24.0 | 21.7 | 12.0 | 12.0 |
| 90.0 | 33.2 | 61.7 | 41.3 | 61.7 | 41.3 | 61.7 | 41.3 | 61.7 | 41.3 | 24.0 | 21.7 | 12.0 | 12.0 |
| 95.0 | 27.1 | 58.1 | 38.9 | 58.1 | 38.9 | 58.1 | 38.9 | 58.1 | 38.9 | 24.0 | 21.7 | 12.0 | 12.0 |
| 100.0 | 19.6 | 54.9 | 36.8 | 54.9 | 36.8 | 54.9 | 36.8 | 54.9 | 36.8 | 24.0 | 21.7 | 12.0 | 12.0 |
| 105.0 | 9.7 | 51.9 | 34.8 | 51.9 | 34.8 | 51.9 | 34.8 | 51.9 | 34.8 | 24.0 | 21.7 | 12.0 | 12.0 |
| 106.0 | 7.3 | 51.4 | 34.4 | 51.4 | 34.4 | 51.4 | 34.4 | 51.4 | 34.4 | 24.0 | 21.7 | 12.0 | 12.0 |

1. WORKING RADIUS MEASURED FROM THE MAIN HOOK TO THE CENTERLINE OF ROTATION.
2. STATIC RATED LOADS ARE TO BE USED FOR LIFTING LOADS FROM OR SETTING LOADS ONTO FIXED, BOTTOM SUPPORTED STRUCTURES OR PLATFORMS. DYNAMIC RATED LOADS ARE TO BE USED FOR LIFTING LOADS FROM OR SETTING LOADS ONTO FLOATING PLATFORMS OR BOATS.
3. STATIC AND DYNAMIC RATED LOADS WERE COMPUTED IN ACCORDANCE WITH ALL REQUIREMENTS OF (API STD. 2C) STATIC RATED LOAD BASIS : 1.33 X LIVE LOAD + 1.0 X DEAD LOAD DYNAMIC RATED LOAD BASIS : C_b = 2.0
4. RATED LOADS ARE NET LOADS, A 5000 LB MAIN BLOCK AND A 210 LB OVERHAUL BALL HAVE BEEN DEDUCTED FROM GROSS LOADS, WEIGHTS OF ALL SLINGS, SPREADERS, SHACKLES, ETC. MUST BE INCLUDED IN THE LIFTED LOAD.
5. MAIN DRUM CABLE IS :1" DIA. 6 X 19 IWRC EIPS 51.7 TON BREAKING STRENGTH.
6. AUXILIARY DRUM CABLE IS 7/8" DIA. 19 X 7 IWRC EIPS 32.5 TON BREAKING STRENGTH.
7. LUFFING DRUM CABLE IS 1" DIA. 6 X 19 IWRC DIPS 51.7 TON BREAKING STRENGTH.
8. THE ABOVE RATINGS ARE STRUCTURAL ONLY. THE ACTUAL LIFTING CAPACITY OF THIS MACHINE MAY BE LIMITED BY THE MAXIMUM LINE PULL OF THE HOIST DRUMS.

DULARGE – Auxillary

Nautilus 10-50

LOAD RATING
PERSONNEL RATED
WIRE ROPE 1/2 - 19 X 7 - 400 FT
4 PART CAPACITY

| BOOM ANGLE (DEGREES) | LOAD RADIUS | STATIC | DYNAMIC |
|-------------------------|-------------|--------|---------|
| 78 | 10 | 17200 | 11300 |
| 75 | 13 | 17100 | 11200 |
| 66 | 20 | 10000 | 6600 |
| 60 | 25 | 8000 | 5280 |
| 53 | 30 | 6500 | 4290 |
| 45 | 35 | 5300 | 3490 |
| 38 | 40 | 4500 | 3970 |
| 15 | 48 | 3750 | 2475 |
| 0 | 50 | 3500 | 2310 |