

### GENERAL DATA

|  |   |
|--|---|
| <b>CRANE CAPACITY</b>                              | 70 ton at 10 feet<br>(63t at 3.0m)                  |
| <b>BOOM</b>  | 4-section,<br>37' 6" – 111' 6"<br>(11.4 m – 34.0 m) |
| <b>DIMENSION</b>                                   |   |
| Overall Length                                     | 49' 0" (14.94 m)                                    |
| Overall Width (tracks extended)                    | 18' 8" (5.69 m)                                     |
| Overall Width (tracks retracted)                   | 12' 6" (3.81 m)                                     |
| Overall Width (tracks removed)                     | 10' 8" (3.25 m)                                     |
| Overall Height                                     | 10' 4" (3.15 m)                                     |
| <b>MASS</b>  |   |
| Gross Vehicle Mass<br>(Standard Equipment Package) | 132,154 LB<br>(59,940 kg)                           |
| <b>PERFORMANCE</b>                                 |   |
| Travel Speed                                       | 0.8 mph – 1.2 mph<br>(1.3 km/h – 2.1 km/h)          |
| Gradability  | 46%   |

### CRANE SPECIFICATION

#### MODEL

14010

#### CAPACITY

70 ton at 10 feet (63t at 3.0m)

#### BOOM

4-section full power synchronized telescoping boom. Synchronized telescoping system consists of two double acting hydraulic cylinders with load holding valves and extension and retraction cables.

- Retracted Length: 37' 6" (11.4m)
- Extended Length: 111' 6" (34 m)    • Extension Time: 102 s
- Elevating Angles: -1° to 78°       • Elevating Time: 64 s
- Boom Head: Seven, 19 inch (483 mm) diameter cast nylon sheaves on heavy-duty roller bearings. (5 load bearing and 2 lead in sheaves)

#### AUXILIARY BOOM HEAD

Quick reeve, single 19 inch (483 mm) diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.

#### COUNTERWEIGHT

Total 30,000 LB (two pieces at 15,000 lbs each)  
13,610 kg (Two pieces at 6,805 kg each)

### WINCHES

Planetary geared two-speed winch includes a bent axis hydraulic motor, multi-disc internal brake and counterbalance valve. Drum rotation indicator is included (complete winch performance specs on Page 4)

- Main Winch
  - Rope Diameter and Length: ¾" x 700 ft (19mm x 213m)
  - Single line pull: 17,960 lb (79.9 kN)(first layer)
  - Single line speed: 192 ft/min (59 m/min)(4th layer)
- Auxiliary Winch
  - Rope Diameter and Length: ¾" x 350 ft (19mm x 107m)
  - Single line pull: 15,360 lb (69.3 kN) (first layer)
  - Single line speed: 243 ft/min (74.0 m/min) (at the 4th layer)

### TRAVEL

Each side frame contains a pilot controlled, two-speed track drive with hydraulic axial piston motor and parking brake. Travel system provides skid steering and counter rotation.

- Low travel speed: 0.8 mph (1.3 km/h)
- High travel speed : 1.2 mph (1.9 km/h)
- Gradeability (unladen): 46%

### SWING

Gear motor driving a planetary gear reducer with a shaft mounted pinion, external gear shear ball slew bearing bolted to the superstructure and the carbody allows the superstructure to rotate 360°

- Swing Speed: 0 – 2.2 rpm
- Swing Parking Brake: Spring applied failsafe brake with hydraulic release that is controlled from the operators cab
- Swing Service Brake: Hydraulically applied, controlled through foot actuated pedal
- House Lock System: 2-position, manually pinned

### LOAD MOMENT INDICATOR

Standard Rated Capacity Limiter and Anti-Two Block system

- Control function shutdown. Audible and visual warnings
- LCD screen provides a continuous display of working boom length, boom angle, working load radius, tip height, parts-of-line (operator set), machine track configuration, relative load moment, maximum permissible load and actual load.
- Anti-two block weight allows quick reeving of hook block

### FRAME

The frame is an all-steel, welded structure, precision machined to accept attachment of the boom and swing components.

**OPERATORS CAB**

Fully-enclosed, air conditioned all-steel modular cab with lockable swinging door, acoustical lining, anti-slip floor and tinted safety glass.

- Rear view cameras are appropriately located as are three remote control work lights.
- Vent window in the rear of the cab.
- Grab bars and steps are located for easy access to the cab.
- Defroster, heater, circulating fan
- 2-speed windshield wiper, top glass wiper
- Six-way adjustable fabric seat with headrest, seat belt
- Dome light
- Dry-chemical fire extinguisher
- Four-way electronic armrest mounted joysticks control swing, boom extend, main winch, auxiliary winch and boom hoist. Electronic foot pedals control the travel and swing service brake functions.
- Selectable control modes for: Fine Control, Auger, and hand control of travel functions.
- Seat and armrest termination switches immediately disable all hydraulic functions as the operator rises from the seat or lifts the left hand armrest.

Dash instrumentation: tachometer, voltmeter, oil pressure gauge, temperature gauge, hour meter and fuel gauge. Indicators are provided for crane level, load moment, drum rotation, air filter restriction, hydraulic oil temperature and filter restriction, engine oil pressure and temperature.

**ENGINE**

- Make/ Model: Cummins QSB 6.7
- Type: 6 Cylinder, Water cooled, 4 Cycle
- Aspiration: Turbocharged and Aftercooled
- Max.Output: 260 hp (194 kw) @ 2200 RPM
- Max Torque: 728 Lb-ft (987 Nm) @ 1500 RPM
- Piston Disp: 6.7 liter
- Bore x Stroke: 107mm x 124mm
- Emission Cert: U.S. EPA Tier 3, Euromot Stage IIIA
- Alternator: 130 amp

**ELECTRICAL SYSTEM**

12 VDC

**FUEL SYSTEM**

- Capacity: 100 gallon (378 liter)
- Filtration: Inline fuel/water separator and engine mounted fuel filter

**SIDE FRAMES**

Two welded steel side frames are paired with a track group. The side frames extend and retract hydraulically and are controlled from the cab.

- Track Rollers: Two top and twelve bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with spring type tensioner
- Track Shoes: 36 inch (900 mm), 3-bar semi grouser

**HYDRAULIC SYSTEM**

- Hydraulic Pumps: Two high pressure, variable axial piston pumps with load sense and power limiting control for crane functions. One variable axial piston pump for cooling loop
- Directional Valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by hydraulic pilot signals.
- Pump output: 154 gpm (583 l/min) @ 2100 RPM engine speed. 4,800 psi (330 bar) maximum pressure
- Reservoir: 300 gallon (1,136 liter) capacity, spin-on filler/ breather, sight gauge, cleanout, and sump drain.
- Filtration: 5 micron, full flow tank mounted return filters with electrical clogging indicator. 5 micron pilot oil in-line pressure filter
- Diagnostic Ports: Provided for system, load sense, and pilot pressure

**OPTIONAL EQUIPMENT**

- Boom Extension: Lattice type, swing away
  - Length: 30 feet (9.1m)
  - Head: Two, 19-inch (483 mm) diameter cast nylon sheaves on heavy-duty roller bearings
  - Max. Lifting Height: 142 ft (43.3 m)
- Boom Jib: Lattice type, swing away, stores along boom extension
  - Length: 20 feet (6.1m)
  - Offset Angles: 15° & 30°
  - Max. Lifting Height: 162 feet (49.4 m)
- Track Shoes: 30 inch (760 mm) 3-bar semi grouser
- Track Shoes: 31.5 inch (800 mm) flat shoe
- Auger Ready Package: Includes hoses, fasteners and stowage bracket assembly mounted to the base section of the boom with a flow capability of 34 gpm (130 l/min)
- Complete Auger Package: Adds a two speed auger motor/gear box and one 60 inch (1.52 m) kelly bar to the Auger Ready Package.
- Tool Circuit: Provides 5 gpm (23 l/min) and 10 gpm (45 l/min) at 2,500 PSI (176 bar) through a 50 foot (15.2m) twin hose reel with quick disconnect fittings to operate open center tools.
- Free Fall Hoists: All winches are available in controlled free fall configurations.
- Cold Weather Packages: Cold weather options are available for operation to -40°C (Consult factory for application support)
- Work Platform: Model WP750 – 36 in x 72 in (0.9m x 1.8m) , all steel, welded, two person platform with maximum capacity of 750 lbs (340 kg).
- Pole Claw: Heavy-duty pole claw with hydraulic clamp and tilt.
- Access walkways
- Radio control package.
- Rotation resistant wire rope.
- Hook Block: 70 ton (63 t) hook block - Five 19 inch (483 mm) diameter sheaves mounted on heavy duty roller bearings with swivel hook and safety latch.
- Headache Ball: 12 ton (11t) ball includes a swivel hook with a safety latch

## MAIN WINCH

Planetary geared two-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake.  
Wire Rope: 700 ft (213 m) 3/4 in (19 mm) 6 x 37 EIPS, IWRC, RRL. Line pulls are not based on wire rope strength. Drum rotation indicator is standard.

| Rope Layer | Maximum Line Pull |      | Full Load Line Speed |       | High Line Speed |       | Layer |    | Total |     |
|------------|-------------------|------|----------------------|-------|-----------------|-------|-------|----|-------|-----|
|            | lb                | kN   | ft/min               | m/min | ft/min          | m/min | ft    | m  | ft    | m   |
| 1          | 17,960            | 79.9 | 149                  | 45    | 336             | 102   | 109   | 33 | 109   | 33  |
| 2          | 16,400            | 72.9 | 164                  | 50    | 368             | 112   | 119   | 36 | 228   | 69  |
| 3          | 15,090            | 67.1 | 178                  | 54    | 400             | 122   | 130   | 40 | 358   | 109 |
| 4          | 13,970            | 62.1 | 192                  | 59    | 432             | 132   | 140   | 43 | 498   | 152 |
| 5          | 13,010            | 57.9 | 206                  | 63    | 464             | 141   | 153   | 46 | 649   | 198 |
| 6          | 12,170            | 54.1 | 221                  | 67    | 496             | 151   | 161   | 49 | 810   | 247 |

## AUXILIARY WINCH

Planetary geared two-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake.  
Wire Rope: 350 ft (107 m) 3/4 in (19 mm) 6 x 37 EIPS, IWRC, RRL. Line pulls are not based on wire rope strength. Drum rotation indicator is standard.

| Rope Layer | Maximum Line Pull |      | Full Load Line Speed |       | High Line Speed |       | Layer |    | Total |     |
|------------|-------------------|------|----------------------|-------|-----------------|-------|-------|----|-------|-----|
|            | lb                | kN   | ft/min               | m/min | ft/min          | m/min | ft    | m  | ft    | m   |
| 1          | 15,360            | 68.3 | 175                  | 53    | 392             | 119   | 64    | 20 | 64    | 20  |
| 2          | 13,590            | 60.5 | 197                  | 60    | 444             | 135   | 72    | 21 | 136   | 41  |
| 3          | 12,180            | 54.2 | 220                  | 67    | 495             | 151   | 80    | 25 | 216   | 66  |
| 4          | 11,040            | 49.1 | 243                  | 74    | 546             | 166   | 89    | 27 | 305   | 93  |
| 5          | 10,100            | 44.9 | 266                  | 81    | 597             | 182   | 97    | 30 | 402   | 123 |

## MACHINE WEIGHTS

LB KG

|   |         |        |
|---|---------|--------|
| Standard Crane with 4 Section 111 Ft 6 in (34.0 m) Boom, Auxiliary Winch, 70 Ton Hook Block, 12 Ton Headache Ball, 2 Piece Counterweight & 36 in (914 mm) Track Shoes | 132,154 | 59,940 |
| Crane Less Counterweight and Track Frames   | 62,150  | 28,122 |
| Counterweight, 2 Pieces at 15,500 Lb each   | 30,000  | 13,610 |
| Track Frames, 2 pieces at 18,000 LB each  | 36,000  | 16,290 |
| Auxiliary Winch with standard rope  | 960     | 434    |

## OPTIONAL EQUIPMENT

LB KG

|   |        |        |
|---|--------|--------|
| Alternative Boom 54 ft (16.46 m) three section boom in place of standard boom** | -8,300 | -3,756 |
| 70 ton Hook Block   | 1,600  | 726    |
| 12 ton Headache Ball  | 404    | 183    |
| 30 ft (9.1m) Lattice Extension  | 1,700  | 769    |
| 20 ft (6.1m) Jib  | 700    | 317    |
| Auxiliary Nose Sheave   | 210    | 95     |
| Auger Ready Package   | 440    | 199    |
| Complete Auger Package  | 1,520  | 688    |
| 60 in Kelly Bar   | 120    | 54     |
| 72 in Kelly Bar   | 140    | 63     |
| Heavy Duty Pole Claw  | 830    | 375    |

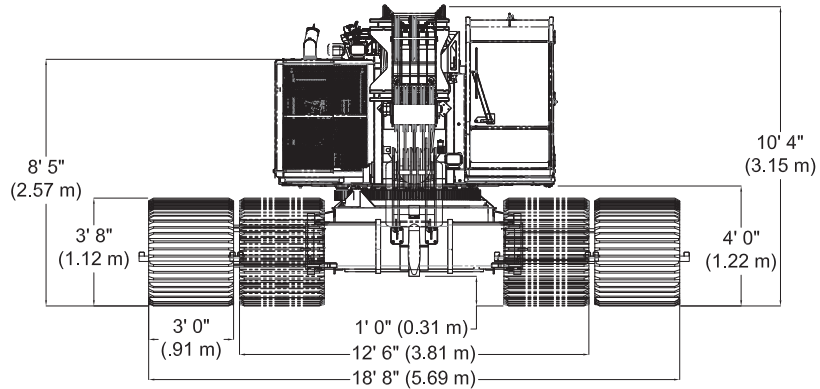
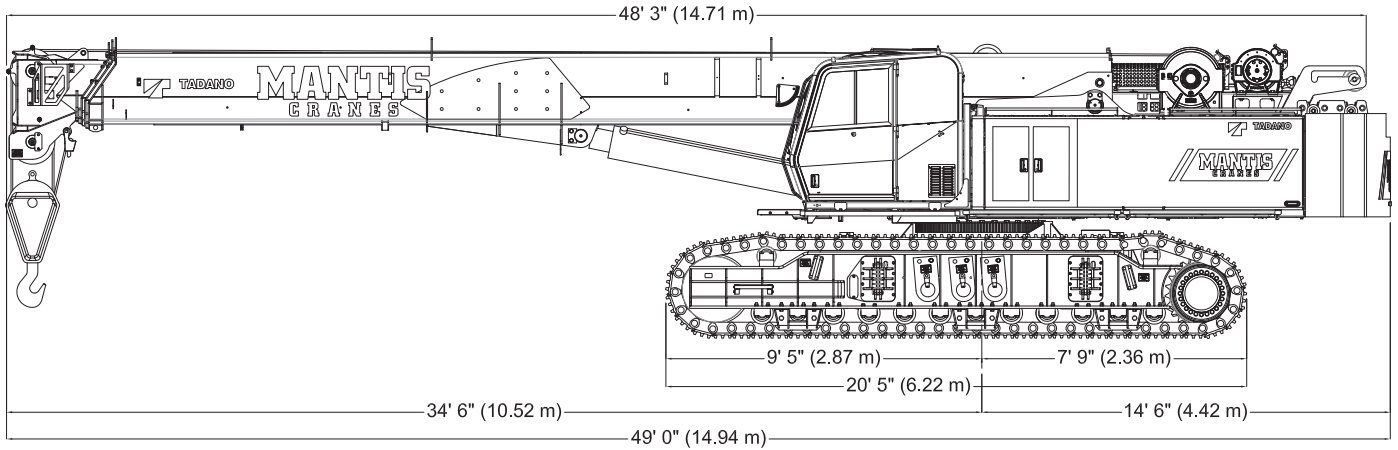
\*\* Deduction from Standard Crane Weight

# 14010

70 Ton Telescopic Boom Crawler Crane

SPECIFICATION SHEET NO. 473-01/11

## DIMENSIONS

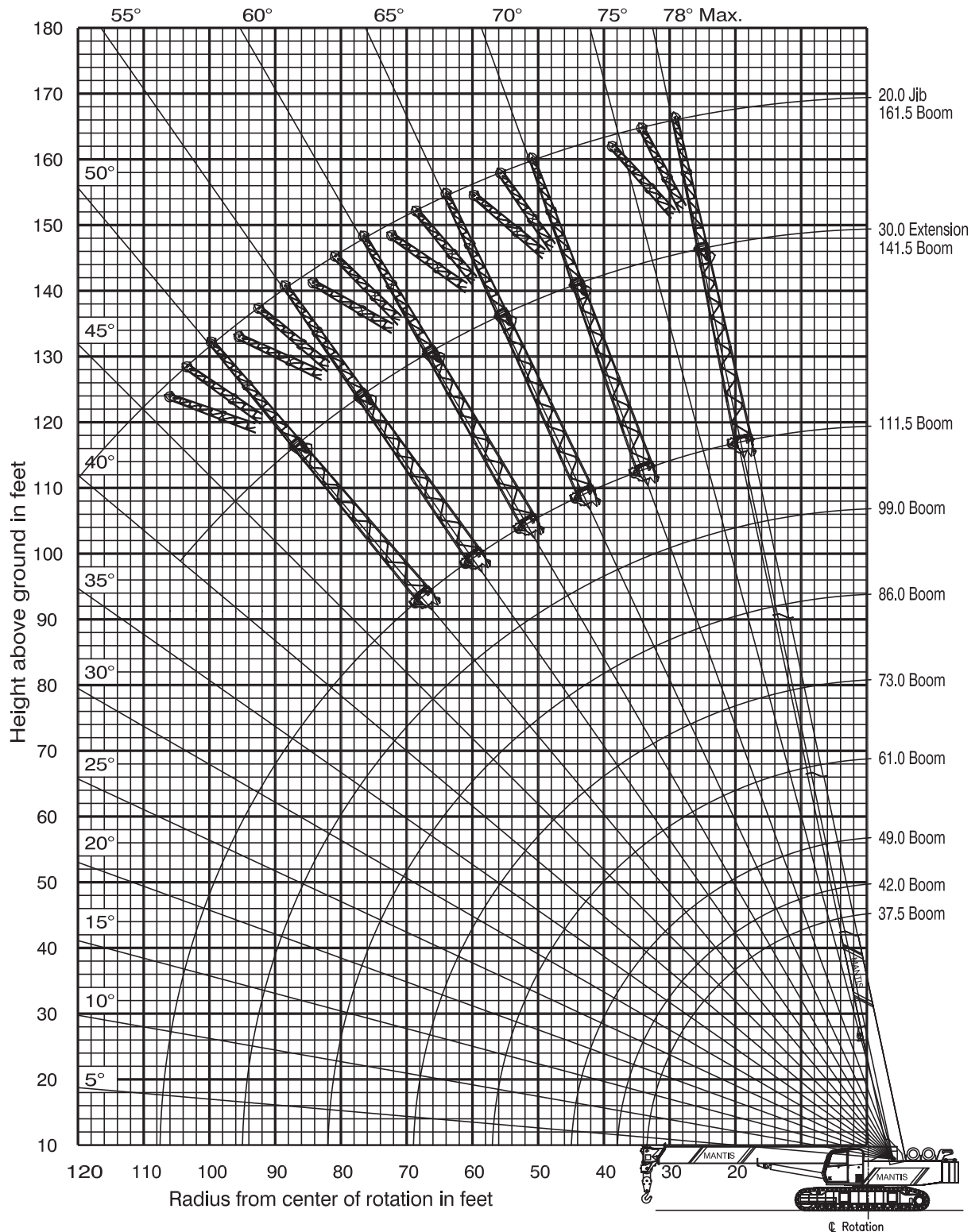


### WIDTHS, WEIGHTS, AND GROUND PRESSURES\*

| Shoe Width        | Overall Width          |                        | Area   | Ground Pressure                        | Working Weight            |
|-------------------|------------------------|------------------------|--|--|---------------------------|
|                   | Retracted              | Extended               |  |  |                           |
| 24 in<br>(609 mm) | 11 ft 6 in<br>(3.51 m) | 17 ft 8 in<br>(5.39 m) | 9,900 in <sup>2</sup><br>(6.38 m <sup>2</sup> )  | 13.0 psi<br>(0.91 kg/cm <sup>2</sup> ) | 128,490 lb<br>(58,280 kg) |
| 30 in<br>(762 mm) | 12 ft 0 in<br>(3.66 m) | 18 ft 2 in<br>(5.54 m) | 12,360 in <sup>2</sup><br>(7.97 m <sup>2</sup> ) | 10.5 psi<br>(0.74 kg/cm <sup>2</sup> ) | 130,330 lb<br>(59,120 kg) |
| 36 in<br>(900 mm) | 12 ft 6 in<br>(3.81 m) | 18 ft 8 in<br>(5.69 m) | 14,850 in <sup>2</sup><br>(9.57 m <sup>2</sup> ) | 8.9 psi<br>(0.63 kg/cm <sup>2</sup> )  | 132,154 lb<br>(59,940 kg) |

\* Crane equipped with: 111 ft 6 in boom, extension, jib, 70 ton hook block and 12 ton headache ball

111 FT 6 IN MAIN BOOM, 30 FT EXTENSION & 20 FT JIB



CAUTION: THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE.  
USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.

## LOAD CHARTS

### 360 DEGREE RATING - LOADS IN lb x 1000

| MAIN BOOM with TRACKS FULLY EXTENDED |                       |       |       |       |       |       |       |       |       |                         |       |       |       |       |       |       |       |                       |       |       |       |       |       |       |       |       |  |             |
|--------------------------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------------|
| 30,000 lb COUNTERWEIGHT              |                       |       |       |       |       |       |       |       |       | 15,000 lb COUNTERWEIGHT |       |       |       |       |       |       |       | ZERO COUNTERWEIGHT    |       |       |       |       |       |       |       |       |  |             |
| RADIUS (ft)                          | MAIN BOOM LENGTH (ft) |       |       |       |       |       |       |       |       | MAIN BOOM LENGTH (ft)   |       |       |       |       |       |       |       | MAIN BOOM LENGTH (ft) |       |       |       |       |       |       |       |       |  | RADIUS (ft) |
|                                      | 37.5                  | 37.5  | 42.0  | 49.0  | 61.0  | 73.0  | 86.0  | 99.0  | 111.5 | 37.5                    | 42.0  | 49.0  | 61.0  | 73.0  | 86.0  | 99.0  | 111.5 | 37.5                  | 42.0  | 49.0  | 61.0  | 73.0  | 86.0  | 99.0  | 111.5 |       |  |             |
| 10                                   | 140.0                 | 120.0 | 90.0  | 86.0  | 79.0* |       |       |       |       | 120.0                   | 90.0  | 86.0  | 79.0* |       |       |       |       | 120.0                 | 90.0  | 86.0  | 79.0* |       |       |       |       | 10    |  |             |
|                                      | 70.1°                 | 70.1° | 70.1° | 70.1° | 70.1° |       |       |       |       | 70.1°                   | 70.1° | 70.1° | 70.1° |       |       |       |       | 70.1°                 | 70.1° | 70.1° | 70.1° |       |       |       |       |       |  |             |
| 12                                   | 124.6                 | 100.0 | 88.0  | 84.0  | 72.6* |       |       |       |       | 100.0                   | 88.0  | 84.0  | 72.6* |       |       |       |       | 100.0                 | 88.0  | 84.0  | 72.6* |       |       |       |       | 12    |  |             |
|                                      | 66.8°                 | 66.8° | 69.4  | 72.5  | 76.0  |       |       |       |       | 66.8°                   | 69.4  | 72.5  | 76.0  |       |       |       |       | 66.8°                 | 69.4  | 72.5  | 76.0  |       |       |       |       |       |  |             |
| 15                                   | 98.3                  | 90.0  | 83.0  | 78.0  | 71.5  | 48.0  | 44.0* |       |       | 90.0                    | 83.0  | 78.0  | 71.5  | 48.0  | 44.0* |       |       | 70.2                  | 69.5  | 68.6  | 67.5  | 48.0  | 44.0* |       |       | 15    |  |             |
|                                      | 61.6°                 | 61.6° | 64.9° | 68.7° | 73.1° | 75.9° | 78.1° |       |       | 61.6°                   | 64.9° | 68.7° | 73.1° | 75.9° | 78.1° |       |       | 61.6°                 | 64.9° | 68.7° | 73.1° | 75.9° | 78.1° |       |       |       |  |             |
| 20                                   | 72.0                  | 72.0  | 71.7  | 71.3  | 66.5  | 43.0  | 40.0  | 38.1* |       | 56.2                    | 55.6  | 55.0  | 54.2  | 43.0  | 40.0  | 38.1* |       | 38.6                  | 38.0  | 37.4  | 36.5  | 37.8  | 38.8  | 38.1* |       | 20    |  |             |
|                                      | 52.2°                 | 52.2° | 57.0° | 62.2° | 68.1° | 71.8° | 74.7° | 76.7° |       | 52.2°                   | 57.0° | 62.2° | 68.1° | 71.8° | 74.7° | 76.7° |       | 52.2°                 | 57.0° | 62.2° | 68.1° | 71.8° | 74.7° | 76.7° |       |       |  |             |
| 25                                   |                       | 51.0  | 50.5  | 49.9  | 49.2  | 41.0  | 39.0  | 36.0  | 35.0* | 37.8                    | 37.3  | 36.8  | 36.1  | 37.2  | 38.1  | 36.0  | 35.0* | 25.3                  | 24.8  | 24.2  | 23.5  | 24.7  | 25.5  | 26.1  | 35.0* | 25    |  |             |
|                                      |                       | 41.4° | 48.2° | 55.3° | 62.9° | 67.6° | 71.2° | 73.7° | 75.6° |                         | 41.4° | 48.2° | 55.3° | 62.9° | 67.6° | 71.2° | 73.7° | 75.6°                 | 41.4° | 48.2° | 55.3° | 62.9° | 67.6° | 71.2° | 73.7° | 75.6° |  |             |
| 30                                   |                       | 37.8  | 37.4  | 36.9  | 36.3  | 37.3  | 34.5  | 31.5  | 30.8  | 27.5                    | 27.2  | 26.7  | 26.0  | 26.7  | 27.4  | 28.3  | 28.9  | 17.9                  | 17.5  | 17.0  | 16.4  | 17.4  | 18.2  | 18.8  | 19.2  | 30    |  |             |
|                                      |                       | 27.0° | 37.8° | 47.6° | 57.4° | 63.3° | 67.6° | 70.7° | 72.9° |                         | 27.0° | 37.8° | 47.6° | 57.4° | 63.3° | 67.6° | 70.7° | 72.9°                 | 27.0° | 37.8° | 47.6° | 57.4° | 63.3° | 67.6° | 70.7° | 72.9° |  |             |
| 35                                   |                       |       | 29.2  | 28.7  | 28.1  | 29.1  | 29.8  | 27.0  | 26.3  |                         | 20.8  | 20.4  | 19.8  | 20.7  | 21.3  | 21.5  | 22.0  |                       | 12.9  | 12.5  | 11.9  | 12.8  | 13.6  | 14.1  | 14.5  | 35    |  |             |
|                                      |                       |       | 23.7° | 38.8° | 51.5° | 58.7° | 63.9° | 67.6° | 70.2° |                         | 23.7° | 38.8° | 51.5° | 58.7° | 63.9° | 67.6° | 70.2° |                       | 23.7° | 38.8° | 51.5° | 58.7° | 63.9° | 67.6° | 70.2° |       |  |             |
| 40                                   |                       |       |       | 23.0  | 22.5  | 23.4  | 24.1  | 24.0  | 21.7  |                         |       | 15.5  | 13.8  | 14.4  | 15.0  | 15.6  | 16.2  |                       |       | 9.3   | 8.7   | 9.6   | 10.4  | 10.9  | 11.2  | 40    |  |             |
|                                      |                       |       |       | 27.7° | 45.1° | 54.0° | 60.1° | 64.4° | 67.4° |                         |       |       | 27.7° | 45.1° | 54.0° | 60.1° | 64.4° | 67.4°                 |       |       | 27.7° | 45.1° | 54.0° | 60.1° | 64.4° | 67.4° |  |             |
| 45                                   |                       |       |       | 20.9  | 18.3  | 19.2  | 19.9  | 20.4  | 19.0  |                         |       | 14.8  | 12.2  | 13.1  | 13.7  | 14.3  | 14.5  |                       | 9.0   | 6.4   | 7.3   | 8.0   | 8.5   | 8.9   | 8.9   | 45    |  |             |
|                                      |                       |       |       | 3.1°  | 37.8° | 48.9° | 56.1° | 61.1° | 64.6° |                         |       |       | 3.1°  | 37.8° | 48.9° | 56.1° | 61.1° | 64.6°                 |       | 3.1°  | 37.8° | 48.9° | 56.1° | 61.1° | 64.6° |       |  |             |
| 50                                   |                       |       |       |       | 15.2  | 16.0  | 16.7  | 17.1  | 16.9  |                         |       |       | 9.8   | 10.7  | 11.3  | 11.8  | 12.2  |                       |       |       | 4.7   | 5.6   | 6.2   | 6.7   | 7.1   | 50    |  |             |
|                                      |                       |       |       |       | 29.0° | 43.3° | 52.0° | 57.7° | 61.7° |                         |       |       |       | 29.0° | 43.3° | 52.0° | 57.7° | 61.7°                 |       |       |       | 29.0° | 43.3° | 52.0° | 57.7° | 61.7° |  |             |
| 55                                   |                       |       |       |       | 13.0  | 13.9  | 14.1  | 14.2  | 14.3  |                         |       |       | 7.9   | 8.7   | 9.4   | 9.9   | 10.2  |                       |       |       | 3.3   | 4.2   | 4.8   | 5.3   | 5.6   | 55    |  |             |
|                                      |                       |       |       |       | 16.0° | 37.1° | 47.6° | 54.2° | 58.7° |                         |       |       |       | 16.0° | 37.1° | 47.6° | 54.2° | 58.7°                 |       |       |       | 16.0° | 37.1° | 47.6° | 54.2° | 58.7° |  |             |
| 60                                   |                       |       |       |       |       | 11.9  | 12.0  | 12.1  | 12.2  |                         |       |       |       | 7.2   | 7.8   | 8.3   | 8.6   |                       |       |       |       | 3.0   | 3.7   | 4.2   | 4.5   | 60    |  |             |
|                                      |                       |       |       |       |       | 29.8° | 42.8° | 50.5° | 55.7° |                         |       |       |       |       | 29.8° | 42.8° | 50.5° | 55.7°                 |       |       |       |       | 29.8° | 42.8° | 50.5° | 55.7° |  |             |
| 65                                   |                       |       |       |       |       | 9.8   | 9.9   | 10.0  | 10.1  |                         |       |       |       | 5.9   | 6.5   | 7.0   | 7.3   |                       |       |       |       | 2.1   | 2.8   | 3.2   | 3.5   | 65    |  |             |
|                                      |                       |       |       |       |       | 20.1° | 37.5° | 46.6° | 52.4° |                         |       |       |       |       | 20.1° | 37.5° | 46.6° | 52.4°                 |       |       |       |       | 20.1° | 37.5° | 46.6° | 52.4° |  |             |
| 70                                   |                       |       |       |       |       |       | 8.1   | 8.2   | 8.4   |                         |       |       |       |       | 5.4   | 5.9   | 6.2   |                       |       |       |       |       | 2.0   | 2.4   | 2.7   | 70    |  |             |
|                                      |                       |       |       |       |       |       | 31.5° | 42.4° | 49.1° |                         |       |       |       |       | 31.5° | 42.4° | 49.1° |                       |       |       |       |       | 31.5° | 42.4° | 49.1° |       |  |             |
| 75                                   |                       |       |       |       |       |       | 7.3   | 7.4   | 7.5   |                         |       |       |       |       | 4.5   | 5.0   | 5.3   |                       |       |       |       |       | 1.3   | 1.7   | 2.1   | 75    |  |             |
|                                      |                       |       |       |       |       |       | 24.2° | 37.8° | 45.6° |                         |       |       |       |       | 24.2° | 37.8° | 45.6° |                       |       |       |       |       | 24.2° | 37.8° | 45.6° |       |  |             |
| 80                                   |                       |       |       |       |       |       | 6.6   | 6.7   | 6.9   |                         |       |       |       |       | 3.7   | 4.1   | 4.5   |                       |       |       |       |       | 0.7   | 1.2   | 1.5   | 80    |  |             |
|                                      |                       |       |       |       |       |       | 13.3° | 32.7° | 41.8° |                         |       |       |       |       | 13.3° | 32.7° | 41.8° |                       |       |       |       |       | 13.3° | 32.7° | 41.8° |       |  |             |
| 85                                   |                       |       |       |       |       |       |       | 6.3   | 6.4   |                         |       |       |       |       |       | 3.5   | 3.8   |                       |       |       |       |       |       | 0.7   | 1.0   | 85    |  |             |
|                                      |                       |       |       |       |       |       |       | 26.7° | 37.7° |                         |       |       |       |       |       | 26.7° | 37.7° |                       |       |       |       |       | 26.7° | 37.7° |       |       |  |             |
| 90                                   |                       |       |       |       |       |       |       | 5.6   | 5.7   |                         |       |       |       |       |       | 2.8   | 3.2   |                       |       |       |       |       |       |       | 0.5   | 90    |  |             |
|                                      |                       |       |       |       |       |       |       | 19.1° | 33.2° |                         |       |       |       |       |       | 19.1° | 33.2° |                       |       |       |       |       |       | NR    | 33.2° |       |  |             |
| 95                                   |                       |       |       |       |       |       |       | 4.9   | 5.2   |                         |       |       |       |       |       | 2.3   | 2.6   |                       |       |       |       |       |       |       | NR    | 95    |  |             |
|                                      |                       |       |       |       |       |       |       | 1.5°  | 28.1° |                         |       |       |       |       |       | 1.5°  | 28.1° |                       |       |       |       |       |       | NR    | NR    |       |  |             |
| 100                                  |                       |       |       |       |       |       |       |       | 4.6   |                         |       |       |       |       |       |       | 2.1   |                       |       |       |       |       |       |       | NR    | 100   |  |             |
|                                      |                       |       |       |       |       |       |       |       | 21.8° |                         |       |       |       |       |       |       | 21.8° |                       |       |       |       |       |       |       | NR    |       |  |             |
| 105                                  |                       |       |       |       |       |       |       |       | 4.0   |                         |       |       |       |       |       |       | 1.7   |                       |       |       |       |       |       |       | NR    | 105   |  |             |
|                                      |                       |       |       |       |       |       |       |       | 12.9° |                         |       |       |       |       |       |       | 12.9° |                       |       |       |       |       |       |       | NR    |       |  |             |

NOTE: Capacities appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation.  
 Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.

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 USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.

## LOAD CHARTS

### 360 DEGREE RATING - LOADS IN lb x 1000

| MAIN BOOM<br>with TRACKS FULLY RETRACTED |                          |                          |                |
|--|--------------------------|--------------------------|----------------|
| 30,000 lb COUNTERWEIGHT                  |                          |                          |                |
| RADIUS<br>(ft)                           | MAIN BOOM<br>LENGTH (ft) | MAIN BOOM<br>LENGTH (ft) | RADIUS<br>(ft) |
|  | 37.5 to 61.0             | 61.0 to 111.5            |                |
| 15                                       | 70.6                     | 44.0                     | 15             |
| 20                                       | 46.7                     | 38.4                     | 20             |
| 25                                       | 33.5                     | 33.5                     | 25             |
| 30                                       | 24.5                     | 24.5                     | 30             |
| 35                                       | 19.2                     | 19.2                     | 35             |
| 40                                       | 15.8                     | 15.8                     | 40             |
| 45                                       | 13.2                     | 13.2                     | 45             |
| 50                                       | 10.7                     | 10.7                     | 50             |
| 55                                       | 8.8                      | 8.8                      | 55             |
| 60                                       | 7.2                      | 7.2                      | 60             |
| 65                                       | 6.0                      | 6.0                      | 65             |
| 70                                       | 5.0                      | 5.0                      | 70             |

| 30' EXTENSION & 20' JIB<br>with TRACKS FULLY EXTENDED |                            |         |                            |         |   |     |     |               |
|---|----------------------------|---------|----------------------------|---------|---|-----|-----|---------------|
| 30' EXTENSION   |                            |         |                            |         | 20' JIB                                 |     |     | Boom<br>Angle |
| Boom<br>Angle   | 30,000 lb<br>COUNTERWEIGHT |         | 15,000 lb<br>COUNTERWEIGHT |         | 30,000 lb or 15,000 lb<br>COUNTERWEIGHT |     |     |               |
|   | Total Boom Length (ft)     |         | Total Boom Length (ft)     |         | Jib Offset Angles                       |     |     |               |
|   | 67.5 to 129                | > 129.0 | 67.5 to 103.0              | > 103.0 | 0°                                      | 15° | 30° |               |
| 78°   | 18.0                       | 18.0    | 18.0                       | 18.0    | 6.6                                     | 4.0 | 2.2 | 78°           |
| 75°   | 13.6                       | 13.6    | 13.6                       | 13.6    | 6.3                                     | 4.0 | 2.1 | 75°           |
| 72°   | 11.5                       | 11.5    | 11.5                       | 11.5    | 5.6                                     | 3.5 | 2.0 | 72°           |
| 70°   | 10.1                       | 10.1    | 10.1                       | 10.1    | 5.1                                     | 3.2 | 1.9 | 70°           |
| 68°   | 8.9                        | 8.9     | 8.9                        | 8.9     | 4.6                                     | 3.0 | 1.8 | 68°           |
| 65°   | 8.0                        | 8.0     | 8.0                        | 8.0     | 4.2                                     | 2.8 | 1.8 | 65°           |
| 62°   | 7.2                        | 7.2     | 7.2                        | 6.3     | 3.9                                     | 2.6 | 1.7 | 62°           |
| 60°   | 6.7                        | 6.7     | 6.7                        | 5.4     | 3.5                                     | 2.4 | 1.7 | 60°           |
| 58°   | 6.1                        | 6.1     | 6.1                        | 4.5     | 3.2                                     | 1.9 | 1.4 | 58°           |
| 55°   | 5.8                        | 5.8     | 5.8                        | 3.6     | 2.6                                     | 1.3 | 1.0 | 55°           |
| 52°   | 5.3                        | 5.3     | 5.3                        | 2.8     | 2.0                                     | 0.6 | 0.4 | 52°           |
| 50°   | 5.1                        | 5.1     | 5.1                        | 2.3     | 1.5                                     | 0.3 | 0.2 | 50°           |
| 48°   | 4.9                        | 4.6     | 4.9                        | 1.9     | X X X                                   |     |     | 48°           |
| 45°   | 4.6                        | 4.0     | 4.6                        | 1.4     | X X X                                   |     |     | 45°           |

| WEIGHT REDUCTIONS<br>LOAD HANDLING DEVICES |          |
|--|----------|
| HOOKBLOCK: 70 Ton - 5 Sheave               | 1600 lbs |
| OVERHAUL BALL: 12 Ton w/Swivel             | 404 lbs  |
| OPTIONAL HANDLING DEVICES                  |          |
| 30 ft. Extension - Stowed**                | 350 lbs  |
| 30 ft. Extension - Erected**               | 2000 lbs |
| 30 ft. Ext. and 20 ft. Jib - Stowed**      | 750 lbs  |
| 30 ft. Ext. and 20 ft. Jib - Erected**     | 3500 lbs |
| Auxillary Nose Sheave**                    | 250 lbs  |

\*\* Reduction of main boom capacities.

| ZERO DEGREE BOOM ANGLE<br>MAXIMUM CAPACITY<br>with TRACKS FULLY EXTENDED<br>30,000 lb COUNTERWEIGHT |             |                        |                        |
|---|-------------|------------------------|------------------------|
| BOOM<br>LENGTH (ft)   | RADIUS (ft) | LOAD (lbs)<br>(x 1000) | BOOM<br>LENGTH<br>(ft) |
| <b>37.5</b>   | 33.5        | 30.6                   | <b>37.5</b>            |
| <b>42.0</b>   | 38.0        | 24.3                   | <b>42.0</b>            |
| <b>49.0</b>   | 45.0        | 20.9                   | <b>49.0</b>            |
| <b>61.0</b>   | 57.0        | 11.5                   | <b>61.0</b>            |
| <b>73.0</b>   | 69.0        | 8.2                    | <b>73.0</b>            |
| <b>86.0</b>   | 82.0        | 7.0                    | <b>86.0</b>            |
| <b>99.0</b>   | 95.0        | 4.9                    | <b>99.0</b>            |
| <b>111.5</b>  | 107.5       | 4.1                    | <b>111.5</b>           |

NOTE: Capacities appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.

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**LOAD CHARTS**

**360 DEGREE RATING - LOADS IN lb x 1000**

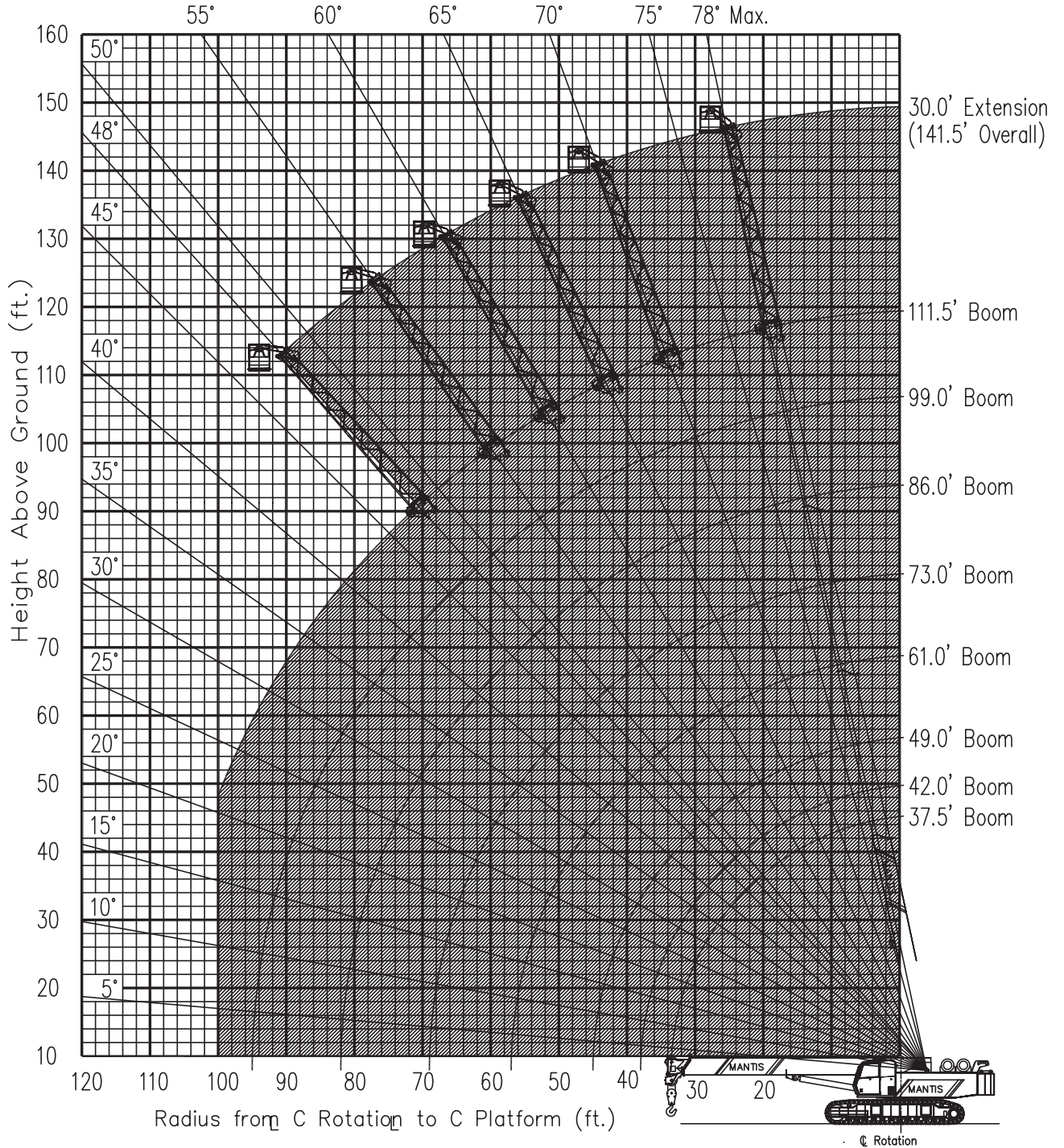
| AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED |                       |       |       |       |       |       |       |                         |                       |       |       |       |       |       |       |                    |                       |       |       |       |       |       |       |       |             |
|--|-----------------------|-------|-------|-------|-------|-------|-------|-------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------------|
| 30,000 lb COUNTERWEIGHT                          |                       |       |       |       |       |       |       | 15,000 lb COUNTERWEIGHT |                       |       |       |       |       |       |       | ZERO COUNTERWEIGHT |                       |       |       |       |       |       |       |       |             |
| RADIUS (ft)                                      | MAIN BOOM LENGTH (ft) |       |       |       |       |       |       |                         | MAIN BOOM LENGTH (ft) |       |       |       |       |       |       |                    | MAIN BOOM LENGTH (ft) |       |       |       |       |       |       |       | RADIUS (ft) |
|  | 37.5                  | 42.0  | 49.0  | 61.0  | 73.0  | 86.0  | 99.0  | 111.5                   | 37.5                  | 42.0  | 49.0  | 61.0  | 73.0  | 86.0  | 99.0  | 111.5              | 37.5                  | 42.0  | 49.0  | 61.0  | 73.0  | 86.0  | 99.0  | 111.5 |             |
| 10   | 11.0                  | 11.0  | 11.0  | 11.0* |       |       |       |                         | 11.0                  | 11.0  | 11.0  | 11.0* |       |       |       |                    | 11.0                  | 11.0  | 11.0  | 11.0* |       |       |       |       | 10          |
|  | 70.1°                 | 70.1° | 70.1° | 70.1° |       |       |       |                         | 70.1°                 | 70.1° | 70.1° | 70.1° |       |       |       |                    | 70.1°                 | 70.1° | 70.1° | 70.1° |       |       |       |       | 10          |
| 12   | 11.0                  | 11.0  | 11.0  | 11.0* |       |       |       |                         | 11.0                  | 11.0  | 11.0  | 11.0* |       |       |       |                    | 11.0                  | 11.0  | 11.0  | 11.0* |       |       |       |       | 12          |
|  | 66.8°                 | 69.4° | 72.5° | 76.0° |       |       |       |                         | 66.8°                 | 69.4° | 72.5° | 76.0° |       |       |       |                    | 66.8°                 | 69.4° | 72.5° | 76.0° |       |       |       |       | 12          |
| 15   | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* |       |                         | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* |       |                    | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* |       |       | 15          |
|  | 61.6°                 | 64.9° | 68.7° | 73.1° | 75.9° | 78.1° |       |                         | 61.6°                 | 64.9° | 68.7° | 73.1° | 75.9° | 78.1° |       |                    | 61.6°                 | 64.9° | 68.7° | 73.1° | 75.9° | 78.1° |       |       | 15          |
| 20   | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* |                         | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* |                    | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* |       | 20          |
|  | 52.2°                 | 57.0° | 62.2° | 68.1° | 71.8° | 74.7° | 76.7° |                         | 52.2°                 | 57.0° | 62.2° | 68.1° | 71.8° | 74.7° | 76.7° |                    | 52.2°                 | 57.0° | 62.2° | 68.1° | 71.8° | 74.7° | 76.7° |       | 20          |
| 25   | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0*                   | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* | 11.0               | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0* | 25          |
|  | 41.4°                 | 48.2° | 55.3° | 62.9° | 67.6° | 71.2° | 73.7° | 75.6°                   | 41.4°                 | 48.2° | 55.3° | 62.9° | 67.6° | 71.2° | 73.7° | 75.6°              | 41.4°                 | 48.2° | 55.3° | 62.9° | 67.6° | 71.2° | 73.7° | 75.6° | 25          |
| 30   | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0               | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 30          |
|  | 27.0°                 | 37.8° | 47.6° | 57.4° | 63.3° | 67.6° | 70.7° | 72.9°                   | 27.0°                 | 37.8° | 47.6° | 57.4° | 63.3° | 67.6° | 70.7° | 72.9°              | 27.0°                 | 37.8° | 47.6° | 57.4° | 63.3° | 67.6° | 70.7° | 72.9° | 30          |
| 35   | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0               | 11.0                  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 35          |
|  |                       | 23.7° | 38.8° | 51.5° | 58.7° | 63.9° | 67.6° | 70.2°                   |                       | 23.7° | 38.8° | 51.5° | 58.7° | 63.9° | 67.6° | 70.2°              |                       | 23.7° | 38.8° | 51.5° | 58.7° | 63.9° | 67.6° | 70.2° | 35          |
| 40   |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0               |                       |       | 9.3   | 8.7   | 9.6   | 10.4  | 10.9  | 11.0  | 40          |
|  |                       |       | 27.7° | 45.1° | 54.0° | 60.1° | 64.4° | 67.4°                   |                       |       | 27.7° | 45.1° | 54.0° | 60.1° | 64.4° | 67.4°              |                       |       | 27.7° | 45.1° | 54.0° | 60.1° | 64.4° | 67.4° | 40          |
| 45   |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0               |                       |       | 6.4   | 7.3   | 8.0   | 8.5   | 8.9   |       | 45          |
|  |                       |       | 3.1°  | 37.8° | 48.9° | 56.1° | 61.1° | 64.6°                   |                       |       | 3.1°  | 37.8° | 48.9° | 56.1° | 61.1° | 64.6°              |                       |       | 37.8° | 48.9° | 56.1° | 61.1° | 64.6° |       | 45          |
| 50   |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    |                       |       | 9.8   | 10.7  | 11.0  | 11.0  | 11.0  | 11.0               |                       |       | 4.7   | 5.6   | 6.2   | 6.7   | 7.1   |       | 50          |
|  |                       |       | 29.0° | 43.3° | 52.0° | 57.7° | 61.7° |                         |                       | 29.0° | 43.3° | 52.0° | 57.7° | 61.7° |       |                    | 29.0°                 | 43.3° | 52.0° | 57.7° | 61.7° |       |       | 50    |             |
| 55   |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    |                       |       | 7.9   | 8.7   | 9.4   | 9.9   | 10.2  |                    |                       | 3.3   | 4.2   | 4.8   | 5.3   | 5.6   |       |       | 55          |
|  |                       |       | 16.0° | 37.1° | 47.6° | 54.2° | 58.7° |                         |                       | 16.0° | 37.1° | 47.6° | 54.2° | 58.7° |       |                    | 16.0°                 | 37.1° | 47.6° | 54.2° | 58.7° |       |       | 55    |             |
| 60   |                       |       | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0                    |                       |       | 7.2   | 7.8   | 8.3   | 8.6   |       |                    |                       | 3.0   | 3.7   | 4.2   | 4.5   |       |       |       | 60          |
|  |                       |       | 29.8° | 42.8° | 50.5° | 55.7° |       |                         | 29.8°                 | 42.8° | 50.5° | 55.7° |       |       |       |                    | 29.8°                 | 42.8° | 50.5° | 55.7° |       |       |       | 60    |             |
| 65   |                       |       | 9.8   | 9.9   | 10.0  | 10.1  |       |                         |                       |       | 5.9   | 6.5   | 7.0   | 7.3   |       |                    |                       | 2.1   | 2.8   | 3.2   | 3.5   |       |       |       | 65          |
|  |                       |       | 20.1° | 37.5° | 46.6° | 52.4° |       |                         | 20.1°                 | 37.5° | 46.6° | 52.4° |       |       |       |                    | 20.1°                 | 37.5° | 46.6° | 52.4° |       |       |       | 65    |             |
| 70   |                       |       |       | 8.1   | 8.2   | 8.4   |       |                         |                       |       |       | 5.4   | 5.9   | 6.2   |       |                    |                       |       | 2.0   | 2.4   | 2.7   |       |       |       | 70          |
|  |                       |       |       | 31.5° | 42.4° | 49.1° |       |                         |                       |       | 31.5° | 42.4° | 49.1° |       |       |                    |                       | 31.5° | 42.4° | 49.1° |       |       |       | 70    |             |
| 75   |                       |       |       | 7.3   | 7.4   | 7.5   |       |                         |                       |       |       | 4.5   | 5.0   | 5.3   |       |                    |                       |       | 1.3   | 1.7   | 2.1   |       |       |       | 75          |
|  |                       |       |       | 24.2° | 37.8° | 45.6° |       |                         |                       |       | 24.2° | 37.8° | 45.6° |       |       |                    |                       | 24.2° | 37.8° | 45.6° |       |       |       | 75    |             |
| 80   |                       |       |       | 6.6   | 6.7   | 6.9   |       |                         |                       |       |       | 3.7   | 4.1   | 4.5   |       |                    |                       |       | 0.7   | 1.2   | 1.5   |       |       |       | 80          |
|  |                       |       |       | 13.3° | 32.7° | 41.8° |       |                         |                       |       | 13.3° | 32.7° | 41.8° |       |       |                    |                       | 13.3° | 32.7° | 41.8° |       |       |       | 80    |             |
| 85   |                       |       |       |       | 6.3   | 6.4   |       |                         |                       |       |       |       | 3.5   | 3.8   |       |                    |                       |       | 0.7   | 1.0   |       |       |       |       | 85          |
|  |                       |       |       |       | 26.7° | 37.7° |       |                         |                       |       |       |       | 26.7° | 37.7° |       |                    |                       |       | 26.7° | 37.7° |       |       |       | 85    |             |
| 90   |                       |       |       |       | 5.6   | 5.7   |       |                         |                       |       |       |       | 2.8   | 3.2   |       |                    |                       |       |       |       | 0.5   |       |       |       | 90          |
|  |                       |       |       |       | 19.1° | 33.2° |       |                         |                       |       |       |       | 19.1° | 33.2° |       |                    |                       |       | NR    | NR    | 33.2° |       |       | 90    |             |
| 95   |                       |       |       |       | 4.9   | 5.2   |       |                         |                       |       |       |       | 2.3   | 2.6   |       |                    |                       |       |       |       | NR    | NR    |       |       | 95          |
|  |                       |       |       |       | 1.5°  | 28.1° |       |                         |                       |       |       |       | 1.5°  | 28.1° |       |                    |                       |       | NR    | NR    |       |       |       | 95    |             |
| 100  |                       |       |       |       |       | 4.6   |       |                         |                       |       |       |       |       | 2.1   |       |                    |                       |       |       |       | NR    | NR    |       |       | 100         |
|  |                       |       |       |       |       | 21.8° |       |                         |                       |       |       |       |       | 21.8° |       |                    |                       |       |       | NR    | NR    |       |       | 100   |             |
| 105  |                       |       |       |       |       | 4.0   |       |                         |                       |       |       |       |       | 1.7   |       |                    |                       |       |       |       | NR    | NR    |       |       | 105         |
|  |                       |       |       |       |       | 12.9° |       |                         |                       |       |       |       |       | 12.9° |       |                    |                       |       |       | NR    | NR    |       |       | 105   |             |

NOTE: Capacities appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation.  
 Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.

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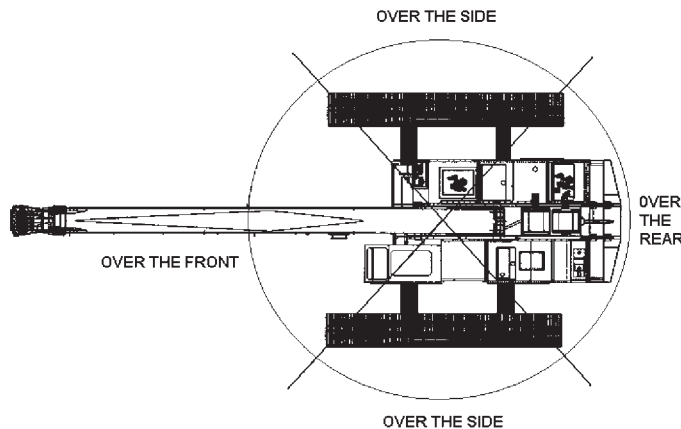
**LOAD CHARTS**

**750 WORK PLATFORM**  
**Installed on MANTIS MODEL 15010**  
**as originally manufactured and equipped by Tadano Mantis Corporation**



Limits of operation: Maximum load capacity = 750 lb      Maximum radius when mounted on main boom = 100 ft

CAUTION: THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE.  
 USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.



| TADANO MANTIS 14010            |                 |                |               |                 |
|--------------------------------|-----------------|----------------|---------------|-----------------|
| WIRE ROPE LINE PULL CAPACITIES |                 |                |               |                 |
| PARTS OF LINE                  | MAIN WINCH (LB) | AUX WINCH (LB) | PARTS OF LINE | MAIN WINCH (LB) |
| 1                              | 16,800          | 15,360         | 6             | 95,713          |
| 2                              | 32,859          | 30,105         | 7             | 110,850         |
| 3                              | 48,925          | N/A            | 8             | 125,764         |
| 4                              | 64,754          | N/A            | 9             | 140,457         |
| 5                              | 80,348          | N/A            | 10            | 154,933         |

3/4 inch (19 mm) diameter wire rope, 6x37 Class, EIP, IWRC

**PLEASE READ, UNDERSTAND, AND FOLLOW THE MANUALS FURNISHED WITH THE CRANE (OPERATORS AND SAFETY) AS WELL AS THE CAPACITY LIMITATIONS AND GENERAL CONDITIONS LISTED BELOW PRIOR TO OPERATION OF THE CRANE. FAILURE TO DO SO MAY RESULT IN AN ACCIDENT.**

This **MANTIS CRANE** as manufactured by Tadano Mantis Corporation meets the requirements of **ASME B30.5**. Structure and stability have been tested in accordance with **SAE J1063** and **SAE J765**, respectively. Lifting capacities as determined by boom length, angle or radius, apply only to machines as originally equipped by manufacturer and in a properly maintained condition. Capacities given are maximum covered by the manufacturer's warranty and are based on a freely suspended load with **NO** allowance for factors as out-of-level operation, supporting surface conditions, hazardous surroundings, experience of personnel, etc. The operator shall establish practical working loads based on prevailing operating conditions, such as, but not limited to the above.

When making lifts where capacities may be within a zone limited by structural strength, the operator shall determine that the weight of the load is known within plus or minus (+/-) ten percent (10%) before making lift. **DO NOT** lift load or extend boom without counterweight in place. Deductions from rated capacities must be made for the weight of the hook block, hook/ball, slings, spreader bar, or other suspended equipment.

Side pull on boom is extremely dangerous and must be avoided.

**DO NOT** exceed manufacturer's maximum specified reeving.

**DO NOT** use this chart if wind speed exceeds 20 mph. Consult the manufacturer for specialized load ratings.

Load radius is defined as the horizontal distance from the axis of rotation (with no load) to the center of the lifting device after load is applied. Boom angle is the included angle between the longitudinal axis of the boom base section and the horizontal axis, after lifting load. The boom angle before lifting should be slightly greater than desired to account for boom deflection.

Boom angle/boom length relationships given are an approximation of the resulted load radius, which should be an accurate measurement. Boom height dimensions are measured from ground to center of lower boom head sheave.

It is permissible to attempt to telescope boom with a load within the limits of rated capacities. However, boom angle system hydraulic pressure, and/or boom lubrication may affect operation.

It is permissible to travel with loads within the rated capacity of the crane. Travel speeds should be greatly reduced to reflect terrain limitations and minimize dynamic loads applied to the crane structure.

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# TADANO MANTIS CORPORATION

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