

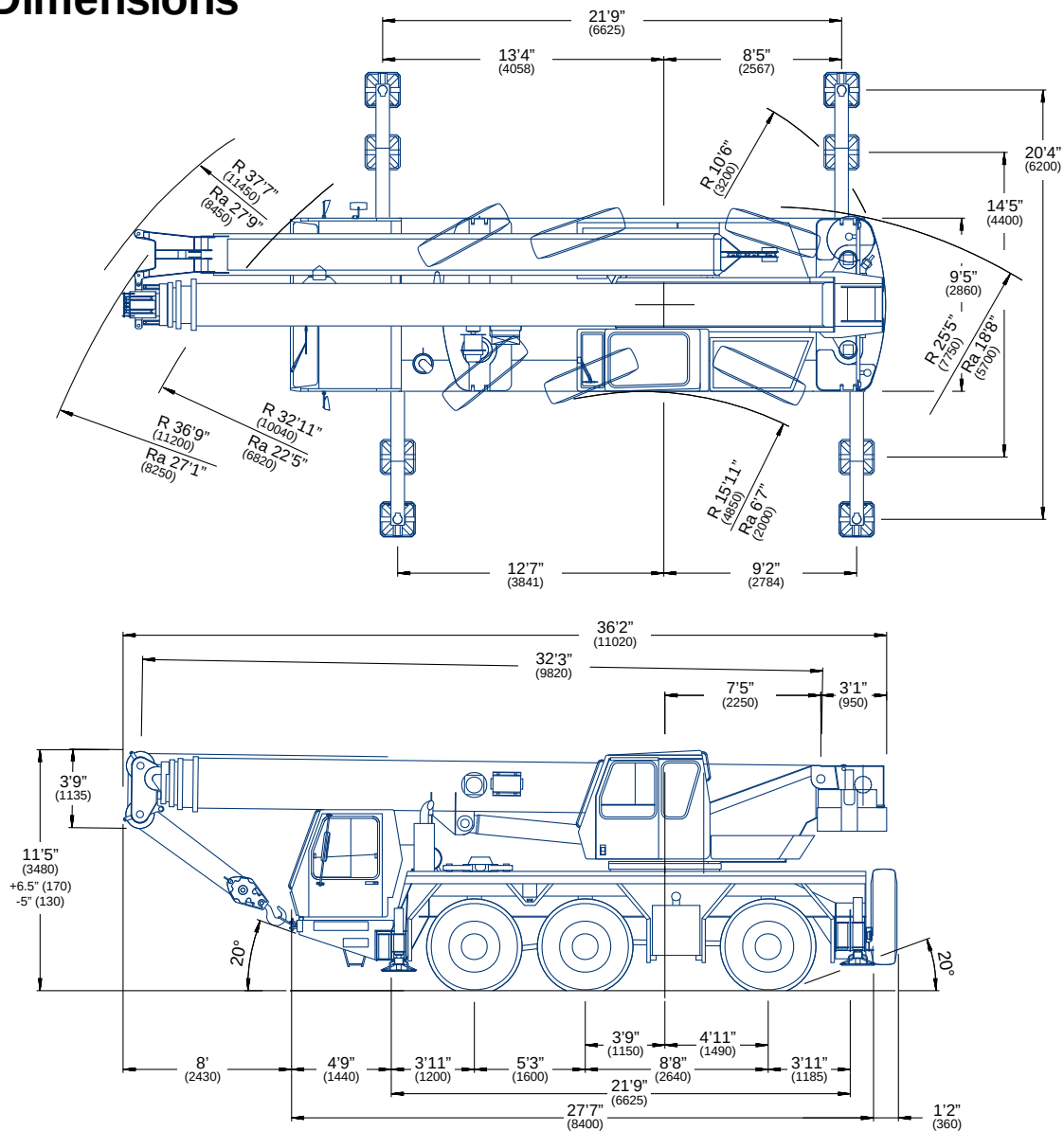


GMK3050

# All Terrain Hydraulic Crane



# Dimensions



Note: ( ) Reference dimensions in mm

## BASIC WEIGHTS (LBS.)

With Mercedes Power, 6x4x6, 20.5 R25 Tires,  
12,500 lbs Fixed Counterweight

Hydraulic Oil Cooler, Brackets for Lattice Extension

## Axles 1 & 2

## Axle 3

## Total

Additions:

Outrigger Pads

Auxiliary Hoist

Lattice Extension - 28/49 ft

Rooster Sheave

6 x 6 Drive

Electric Driveline Retarder

16.00 R25 Tires in lieu

14.00 R25 Tires in lieu

Spare Tire - 14.00 R25 (with stowage bracket)

Spare Tire - 16.00 R25 (with stowage bracket)

Spare Tire - 20.5 R25 (with stowage bracket)

45,632

28,548

74,180

227

104

331

-(712)

1,947

1,235

2,895

-(955)

1,940

293

-(181)

112

962

-(168)

794

44

375

419

-(370)

-(186)

-(556)

-(899)

-(450)

-(1,349)

-(282)

866

584

-(352)

1,069

717

-(408)

1,217

809

# Working range



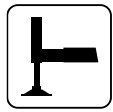
32 - 125 ft.  
(9.8 - 38.1 m)



28 - 49 ft.  
(8.7 - 15 m)



23,100 lbs.  
(10,500 kg)

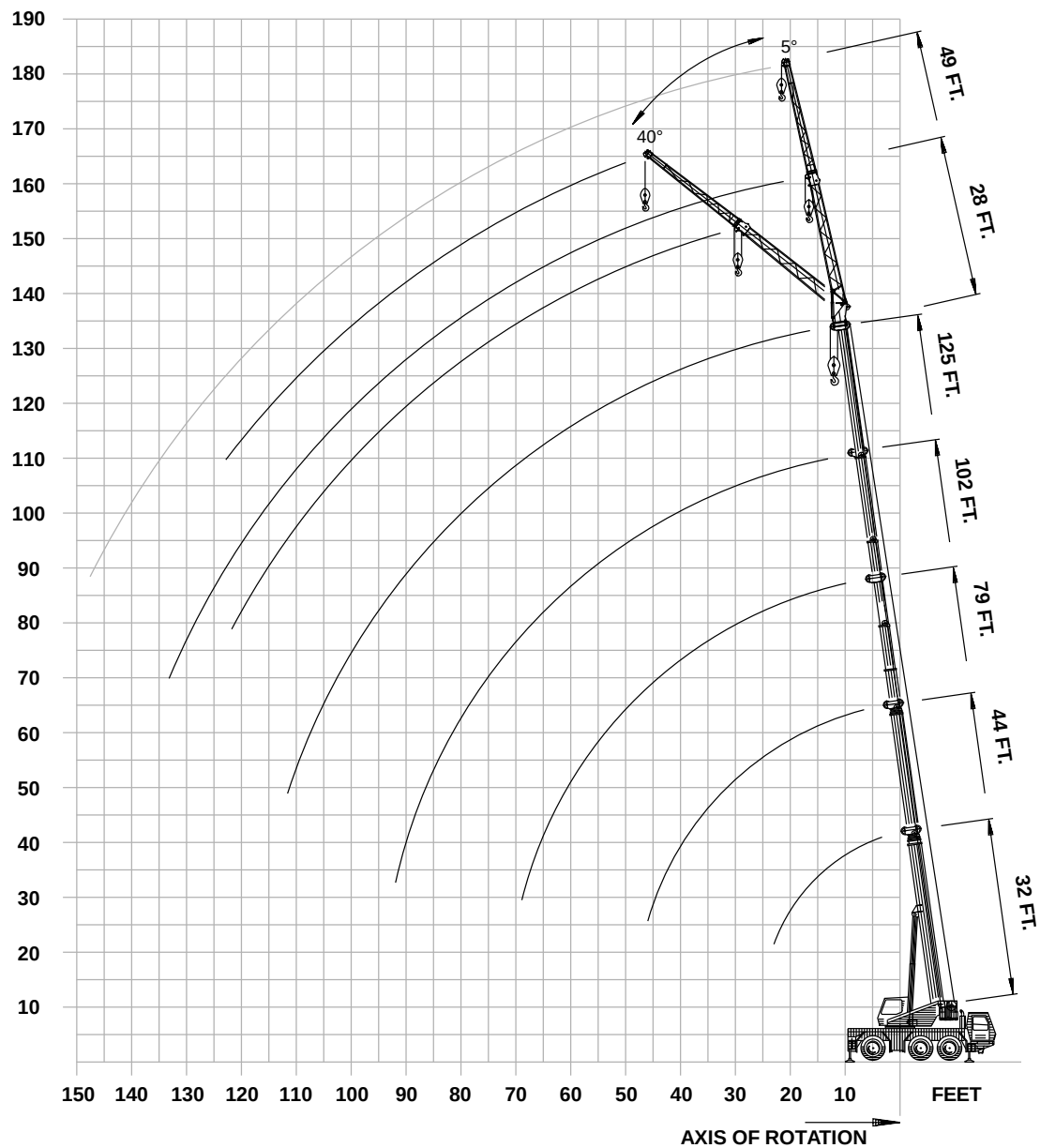


100%



360°

FEET



# Superstructure specifications

## Boom

32 ft. - 125 ft. (9.8 m - 38.1 m) five section, full-power boom. Maximum tip height: 133 ft. (40.5 m).

## Boom Elevation

Single lift cylinder with safety valve provides boom angle from -3° to +82°.

## Lattice Extension

28 ft. - 49 ft. (8.7 m - 15 m) lattice swingaway extension. Hydraulic offset / luffing capability 5° - 40°.

## Load Moment & Anti-Two Block System

Load moment and anti-two block system with audio/visual warning and control lever lockout provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

## Cab

Full vision aluminum cab, safety glass windows and adjustable operator's seat with hydraulic suspension. Other features include engine independent heater, arm-rest integrated crane controls, and ergonomically arranged instrumentation for carrier and superstructure.

## Swing

Axial piston motor with planetary gear. Holding and service brake. Swing speed variable from 0 - 2.5 RPM.

## Counterweight

23,150 lbs. (10 500 kg) consisting of various sections with hydraulic installation/removal system controlled from the cab.

## Hydraulic system

Two separate open pump circuits with one axial piston variable displacement pump (load sensing) and one gear pump for swing. Thermostatically controlled oil cooler.

159 gallon (600 L) reservoir capacity.

All crane movements infinitely variable by hydraulic pilot circuit control levers with automatic reset to zero.

## HOIST SPECIFICATIONS

### Main Hoist

Axial piston variable displacement motor with planetary gear and multiple disc brake. Rope drum with special grooving. "Thumb-thumper" hoist drum rotation indicator alerts operator of hoist movement.

Single line pull: 9,900 lbs.  
(44 kN)

Single line speed: 394 ft./min.  
(120m/min)

Rope diameter: 16 mm

Rope length: 492 ft.  
(150 m)

### Auxiliary Hoist

Axial piston variable displacement motor with planetary gear and multiple disc brake. Rope drum with special grooving. "Thumb-thumper" hoist drum rotation indicator alerts operator of hoist movement.

Single line pull: 9,900 lbs.  
(44 kN)

Single line speed: 394 ft./min.  
(120m/min)

Rope diameter: 16 mm

Rope length: 492 ft.  
(150 m)

### \* Optional equipment

\*Second spotlight

\*Stereo/cassette player

\*Air Conditioning

\*Denotes optional equipment

# Carrier specifications

## Chassis

Box-type, torsion resistant frame is fabricated from high-strength steel.

## Outrigger System

Four hydraulically telescoping beam outriggers with vertical cylinders and outrigger pads. Outriggers can be set in 2 positions:

Fully extended (100%) - 20' 4" (6.2m)

Partially extended (50%) - 14' 5" (4.4m)

Independent horizontal and vertical movement control on each side of the carrier and from the crane operator's cab. Crane level indicators at each control station.

## Engine

Mercedes-Benz OM501LA, diesel, 6 cylinders, water cooled, turbo charged and aftercooled, 349 HP (260 kW) at 1800 rpm. Max. torque: 1,276 ft./lbs. (1730 Nm) at 1080 rpm.

Engine emission: EURO II/EUROMOT/EPA/CARB (off highway).

Fuel Tank Capacity: 95 gallons. (360 L).

## Transmission

Allison automatic MD 3066 P, 6 forward and 1 reverse speed. Transfer case with 2 speeds, inter-axle differential lock and integrated central power take-off for the second axle line.

## Drive/Steer

6 x 4 x 6

## Axles

1st axle line - steer.

2nd axle line - drive/steer.

3rd axle line - drive/steer.

Drive axles with planetary hub reduction and center mounted gearing

## Suspension

GMK3050 features the Grove exclusive MEGATRAK<sup>†</sup> suspension. This revolutionary design features an independent hydroneumatic system with hydraulic lockout acting on all wheels. The suspension can be raised 6-1/2" (170 mm) or lowered 5" (130 mm) both longitudinally and transversely and features an automatic leveling system for on-highway travel.

## Tires

6 tires, 20.5 R25.

## Steering

Dual circuit, Servocom power steering with emergency steering pump. Axles 1 and 2 steer on highway. Separate steering of the 3rd axle line for all-wheel steering and crab-steer is controlled by an electric rocker switch.

## Brakes

Service brake: pneumatic dual circuit acting on all wheels, air dryer. Permanent brake: exhaust brake and constant throttle brake is standard.

Parking brake: pneumatically operated spring-loaded, acting on 2nd and 3rd axle lines.

## Cab

Aluminum, two-man design, safety glass, driver's seat with hydraulic suspension, engine-dependent hot water heater. Complete instrumentation and driving controls. Cab can be tilted forward by 60° for easy access to engine, transmission, hydraulic pumps, heater and batteries.

## Electrical system

24 V system with three-phase alternator 28 V/100 A, 2 batteries 12 V/170 Ah.

## Maximum Speed

53 mph (85 km/h) with 20.5 R25 Tires

## Gradeability (theoretical)

52% with 20.5 R25 Tires

## Miscellaneous standard equipment

Additional hydraulic oil cooler; spare tire and wheel - 20.5 R25 with carry bracket; flashing amber warning light on carrier cab; working light; tool kit; fire extinguisher; rooster sheave; radio cassette in carrier cab.

## \* Optional equipment

\* 6 x 6 x 6

\* Electric driveline retarder

\* 16.00 R25 tires (vehicle width 9 ft. [2.75 m])

\* 14.00 R25 tires (vehicle width 8 ft. 2 in. [2.50 m])

\* Engine-independent hot water heater, with engine pre-heater

\* Trailing boom kit (less dolly)

\* Air conditioning

\* Denotes optional equipment

† "G MEGATRAK" (and design) is a trademark of Grove U.S. L.L.C.

 32 - 125 ft.  
(9.8 - 38.1 m)

 23,150 lbs.  
(10,500 kg)

 100%  
20'4" Spread

 360°

|      | Pounds   |        |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Feet | 32       | 44     | 55     | 67     | 79     | 90     | 102    | 113    | 125    |
| 10   | *110,000 |        |        |        |        |        |        |        |        |
| 10   | 108,000  | 67,000 | 67,000 | 38,800 | 38,800 | 36,400 |        |        |        |
| 15   | 81,000   | 61,000 | 67,000 | 38,800 | 38,800 | 36,400 | 26,600 | 20,600 |        |
| 20   | 61,000   | 50,000 | 56,000 | 38,800 | 38,800 | 36,400 | 26,600 | 20,600 | 17,400 |
| 25   |          | 42,000 | 43,800 | 38,800 | 37,600 | 34,600 | 26,400 | 20,600 | 17,400 |
| 30   |          | 35,200 | 36,400 | 33,000 | 32,800 | 30,000 | 24,600 | 20,400 | 17,400 |
| 35   |          |        | 28,200 | 26,200 | 26,200 | 26,000 | 22,400 | 20,200 | 17,400 |
| 40   |          |        | 22,600 | 23,200 | 21,000 | 21,400 | 20,400 | 20,000 | 17,200 |
| 45   |          |        | 18,600 | 19,200 | 17,000 | 17,600 | 17,800 | 17,800 | 16,800 |
| 50   |          |        |        | 16,200 | 14,600 | 16,000 | 15,000 | 15,200 | 15,200 |
| 55   |          |        |        |        | 13,600 | 14,400 | 13,400 | 13,000 | 13,000 |
| 60   |          |        |        |        | 12,000 | 12,400 | 12,400 | 11,000 | 11,200 |
| 65   |          |        |        |        | 10,400 | 10,600 | 10,800 | 9,200  | 9,600  |
| 70   |          |        |        |        |        | 9,200  | 9,400  | 7,800  | 8,200  |
| 75   |          |        |        |        |        | 8,000  | 8,200  | 6,600  | 7,000  |
| 80   |          |        |        |        |        |        | 7,200  | 5,600  | 6,000  |
| 85   |          |        |        |        |        |        | 6,400  | 4,800  | 5,000  |
| 90   |          |        |        |        |        |        | 5,600  | 4,000  | 4,200  |
| 95   |          |        |        |        |        |        |        | 3,400  | 3,600  |
| 100  |          |        |        |        |        |        |        |        | 3,000  |
| 105  |          |        |        |        |        |        |        |        | 2,400  |
| 110  |          |        |        |        |        |        |        |        | 2,000  |



|    |   |      |       |       |       |       |        |     |     |
|----|---|------|-------|-------|-------|-------|--------|-----|-----|
| T1 | 0 | 50/0 | 100/0 | 100/0 | 100/0 | 100/0 | 100/0  | 100 | 100 |
| T2 | 0 | 0/17 | 0/33  | 17/50 | 33/67 | 50/83 | 67/100 | 83  | 100 |
| T3 | 0 | 0/17 | 0/33  | 17/50 | 33/67 | 50/83 | 67/100 | 83  | 100 |
| T4 | 0 | 0/17 | 0/33  | 17/50 | 33/67 | 50/83 | 67/100 | 83  | 100 |

\* Over rear only.  
Lifting capacities greater than 97,000 lbs (44,000 kg) require additional equipment.  
NOTE: Above loadchart also available with 50% outriggers.

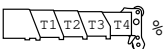
 32 - 125 ft.  
(9.8 - 38.1 m)

 15,400 lbs.  
(7,000 kg)

 100%  
20'4" Spread

 360°

|      | Pounds   |        |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Feet | 32       | 44     | 55     | 67     | 79     | 90     | 102    | 113    | 125    |
| 10   | *110,000 |        |        |        |        |        |        |        |        |
| 10   | 108,000  | 67,000 | 67,000 | 38,800 | 38,800 | 36,400 |        |        |        |
| 15   | 81,000   | 61,000 | 67,000 | 38,800 | 38,800 | 36,400 | 26,600 | 20,600 |        |
| 20   | 58,000   | 50,000 | 52,000 | 38,800 | 38,800 | 36,400 | 26,600 | 20,600 | 17,400 |
| 25   |          | 38,800 | 38,800 | 36,400 | 35,800 | 34,600 | 26,400 | 20,600 | 17,400 |
| 30   |          | 30,000 | 31,200 | 29,200 | 27,400 | 27,000 | 24,600 | 20,400 | 17,400 |
| 35   |          |        | 24,000 | 24,600 | 21,600 | 21,600 | 21,400 | 20,200 | 17,400 |
| 40   |          |        | 19,200 | 19,600 | 17,400 | 19,400 | 17,600 | 17,200 | 17,000 |
| 45   |          |        | 15,400 | 16,000 | 16,000 | 16,800 | 16,000 | 14,400 | 14,200 |
| 50   |          |        |        | 13,200 | 13,600 | 14,000 | 14,200 | 12,000 | 12,000 |
| 55   |          |        |        |        | 11,400 | 11,800 | 12,000 | 10,200 | 10,200 |
| 60   |          |        |        |        | 9,600  | 10,000 | 10,200 | 8,400  | 8,600  |
| 65   |          |        |        |        | 8,000  | 8,400  | 8,600  | 7,000  | 7,200  |
| 70   |          |        |        |        |        | 7,200  | 7,400  | 5,800  | 6,000  |
| 75   |          |        |        |        |        | 6,200  | 6,400  | 4,800  | 5,000  |
| 80   |          |        |        |        |        |        | 5,400  | 3,800  | 4,200  |
| 85   |          |        |        |        |        |        | 4,600  | 3,200  | 3,400  |
| 90   |          |        |        |        |        |        | 4,000  | 2,400  | 2,800  |
| 95   |          |        |        |        |        |        |        | 1,800  | 2,200  |
| 100  |          |        |        |        |        |        |        |        | 1,600  |



|    |   |      |       |       |       |       |        |     |     |
|----|---|------|-------|-------|-------|-------|--------|-----|-----|
| T1 | 0 | 50/0 | 100/0 | 100/0 | 100/0 | 100/0 | 100/0  | 100 | 100 |
| T2 | 0 | 0/17 | 0/33  | 17/50 | 33/67 | 50/83 | 67/100 | 83  | 100 |
| T3 | 0 | 0/17 | 0/33  | 17/50 | 33/67 | 50/83 | 67/100 | 83  | 100 |
| T4 | 0 | 0/17 | 0/33  | 17/50 | 33/67 | 50/83 | 67/100 | 83  | 100 |

\* Over rear only.  
Lifting capacities greater than 97,000 lbs (44,000 kg) require additional equipment.  
NOTE: Above loadchart also available with 50% outriggers.

32 - 125 ft.  
(9.8 - 38.1 m)

12,500 lbs.  
(5,700 kg)

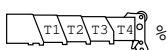
100%  
20'4" Spread

360°



Pounds

| Feet | 32       | 44     | 55     | 67     | 79     | 90     | 102    | 113    | 125    |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10   | *110,000 |        |        |        |        |        |        |        |        |
| 10   | 108,000  | 67,000 | 67,000 | 38,800 | 38,800 | 36,400 |        |        |        |
| 15   | 80,000   | 61,000 | 67,000 | 38,800 | 38,800 | 36,400 | 26,600 | 20,600 |        |
| 20   | 57,000   | 50,000 | 48,000 | 38,800 | 38,800 | 36,400 | 26,600 | 20,600 | 17,400 |
| 25   |          | 38,800 | 38,800 | 34,000 | 33,400 | 32,600 | 26,400 | 20,600 | 17,400 |
| 30   |          | 28,200 | 29,200 | 29,200 | 25,400 | 25,000 | 24,600 | 20,400 | 17,400 |
| 35   |          |        | 22,400 | 23,000 | 19,800 | 21,200 | 19,800 | 19,400 | 17,400 |
| 40   |          |        | 17,600 | 18,200 | 17,400 | 18,800 | 17,600 | 15,800 | 15,600 |
| 45   |          |        | 14,200 | 14,800 | 15,200 | 15,400 | 15,600 | 13,000 | 13,000 |
| 50   |          |        |        | 12,000 | 12,400 | 12,800 | 13,000 | 10,800 | 10,800 |
| 55   |          |        |        |        | 10,400 | 10,600 | 10,800 | 9,000  | 9,000  |
| 60   |          |        |        |        | 8,600  | 9,000  | 9,200  | 7,600  | 7,600  |
| 65   |          |        |        |        | 7,200  | 7,600  | 7,800  | 6,200  | 6,400  |
| 70   |          |        |        |        |        | 6,400  | 6,600  | 5,000  | 5,400  |
| 75   |          |        |        |        |        | 5,400  | 5,600  | 4,000  | 4,400  |
| 80   |          |        |        |        |        |        | 4,800  | 3,200  | 3,600  |
| 85   |          |        |        |        |        |        | 4,000  | 2,600  | 2,800  |
| 90   |          |        |        |        |        |        | 3,400  | 1,800  | 2,200  |
| 95   |          |        |        |        |        |        |        |        | 1,600  |



|    | T1 | T2   | T3    | T4    | %     |
|----|----|------|-------|-------|-------|
| T1 | 0  | 50/0 | 100/0 | 100/0 | 100/0 |
| T2 | 0  | 0/17 | 0/33  | 17/50 | 33/67 |
| T3 | 0  | 0/17 | 0/33  | 17/50 | 33/67 |
| T4 | 0  | 0/17 | 0/33  | 17/50 | 33/67 |

\* Over rear only.

Lifting capacities greater than 97,000 lbs (44,000 kg) require additional equipment.

NOTE: Above loadchart also available with 50% outriggers.

 102 - 125 ft.  
(31 - 38.1 m)
  28 - 49 ft.  
(8.7 - 15 m)
  23,100 lbs.  
(10,500 kg)
  100%  
20'4" Spread
  360°

## FIXED LATTICE EXTENSION

| Pounds           |        |              |       |    |              |                  |       |              |       |       |              |       |
|------------------|--------|--------------|-------|----|--------------|------------------|-------|--------------|-------|-------|--------------|-------|
| 102 FT MAIN BOOM |        |              |       |    |              | 125 FT MAIN BOOM |       |              |       |       |              |       |
| Feet             | 5°     | 28 FT<br>20° | 40°   | 5° | 49 FT<br>20° | 40°              | 5°    | 28 FT<br>20° | 40°   | 5°    | 49 FT<br>20° | 40°   |
| 20               | 10,000 |              |       |    |              |                  |       |              |       |       |              |       |
| 25               | 10,600 |              |       |    | 6,000        |                  |       |              |       |       |              |       |
| 30               | 10,600 | 10,600       |       |    | 6,600        |                  | 8,400 |              |       |       |              |       |
| 35               | 10,600 | 10,200       | 8,400 |    | 6,600        |                  | 8,400 |              |       | 5,400 |              |       |
| 40               | 10,600 | 9,800        | 8,200 |    | 6,400        | 5,800            | 8,400 | 8,400        |       | 5,400 |              |       |
| 45               | 10,600 | 9,400        | 8,000 |    | 6,400        | 5,600            | 8,400 | 8,400        | 7,800 | 5,400 |              |       |
| 50               | 10,200 | 9,000        | 7,800 |    | 6,400        | 5,400            | 8,400 | 8,400        | 7,800 | 5,400 | 5,200        |       |
| 55               | 9,600  | 8,800        | 7,600 |    | 6,200        | 5,200            | 8,400 | 8,400        | 7,600 | 5,400 | 5,200        |       |
| 60               | 9,200  | 8,400        | 7,400 |    | 5,800        | 5,000            | 8,400 | 8,400        | 7,400 | 5,400 | 5,000        | 4,200 |
| 65               | 8,600  | 8,200        | 7,400 |    | 5,600        | 4,800            | 8,400 | 8,400        | 7,400 | 5,400 | 4,800        | 4,000 |
| 70               | 8,200  | 7,800        | 7,200 |    | 5,400        | 4,600            | 8,400 | 8,200        | 7,200 | 5,400 | 4,600        | 4,000 |
| 75               | 7,800  | 7,600        | 7,200 |    | 5,200        | 4,400            | 7,400 | 7,800        | 7,200 | 5,400 | 4,600        | 4,000 |
| 80               | 7,400  | 7,200        | 7,000 |    | 5,000        | 4,400            | 6,400 | 6,800        | 7,200 | 5,200 | 4,400        | 3,800 |
| 85               | 6,800  | 7,000        | 6,800 |    | 4,800        | 4,200            | 5,600 | 5,800        | 6,200 | 5,000 | 4,400        | 3,800 |
| 90               | 6,000  | 6,200        | 6,400 |    | 4,600        | 4,200            | 4,800 | 5,000        | 5,200 | 4,800 | 4,200        | 3,800 |
| 95               | 5,400  | 5,400        | 5,600 |    | 4,600        | 4,000            | 4,000 | 4,200        | 4,400 | 4,800 | 4,200        | 3,600 |
| 100              | 4,600  | 4,800        |       |    | 4,200        | 4,000            | 3,400 | 3,600        | 3,800 | 4,000 | 4,000        | 3,600 |
| 105              | 4,000  | 4,200        |       |    | 4,200        | 3,800            | 2,800 | 3,000        | 3,200 | 3,600 | 4,000        | 3,600 |
| 110              | 3,600  | 3,600        |       |    | 4,000        | 3,800            | 2,200 | 2,400        | 2,600 | 3,000 | 3,400        | 3,600 |
| 115              | 3,200  |              |       |    | 3,800        | 3,600            | 1,800 | 2,000        |       | 2,600 | 3,000        | 3,200 |
| 120              |        |              |       |    | 3,400        | 3,600            |       |              |       | 2,200 | 2,400        | 2,800 |
| 125              |        |              |       |    | 3,000        | 3,200            |       |              |       |       | 2,000        | 2,200 |
| 130              |        |              |       |    | 2,600        | 2,600            |       |              |       |       | 1,600        | 1,800 |
| 135              |        |              |       |    | 2,200        |                  |       |              |       |       |              |       |

|    |        |     |
|----|--------|-----|
| T1 | 0/100  | 100 |
| T2 | 100/67 | 100 |
| T3 | 100/67 | 100 |
| T4 | 100/67 | 100 |

 102 - 125 ft.  
(31 - 38.1 m)
  28 - 49 ft.  
(8.7 - 15 m)
  23,100 lbs.  
(10,500 kg)
  100%  
20'4" Spread
  360°

## LATTICE EXTENSION (LUFFING)

| Pounds           |           |            |           |            |                  |            |           |            |  |
|------------------|-----------|------------|-----------|------------|------------------|------------|-----------|------------|--|
| 102 FT MAIN BOOM |           |            |           |            | 125 FT MAIN BOOM |            |           |            |  |
| Feet             | 28 FT     |            | 49 FT     |            | 28 FT            |            | 49 FT     |            |  |
|                  | *5° - 20° | *20° - 40° | *5° - 20° | *20° - 40° | *5° - 20°        | *20° - 40° | *5° - 20° | *20° - 40° |  |
| 30               | 5,600     |            |           |            |                  |            |           |            |  |
| 35               | 5,200     | 4,200      |           |            |                  |            |           |            |  |
| 40               | 5,000     | 4,000      | 2,800     |            | 5,200            |            |           |            |  |
| 45               | 4,600     | 4,000      | 2,600     |            | 5,000            | 4,000      |           |            |  |
| 50               | 4,400     | 3,800      | 2,400     | 2,000      | 4,800            | 4,000      |           |            |  |
| 55               | 4,200     | 3,800      | 2,400     | 2,000      | 4,600            | 3,800      | 2,600     |            |  |
| 60               | 4,000     | 3,600      | 2,200     | 1,800      | 4,400            | 3,800      | 2,400     | 2,000      |  |
| 65               | 3,800     | 3,600      | 2,000     | 1,800      | 4,200            | 3,800      | 2,200     | 1,800      |  |
| 70               | 3,800     | 3,600      | 2,000     | 1,800      | 4,000            | 3,600      | 2,200     | 1,800      |  |
| 75               | 3,600     | 3,400      | 1,800     | 1,600      | 4,000            | 3,600      | 2,000     | 1,800      |  |
| 80               | 3,400     | 3,400      | 1,800     | 1,600      | 3,800            | 3,600      | 2,000     | 1,800      |  |
| 85               | 3,400     | 3,400      | 1,800     | 1,600      | 3,600            | 3,400      | 1,800     | 1,600      |  |
| 90               | 3,200     | 3,200      | 1,600     | 1,600      | 3,600            | 3,400      | 1,800     | 1,600      |  |
| 95               | 3,200     | 3,200      | 1,600     | 1,600      | 3,400            | 3,400      | 1,800     | 1,600      |  |
| 100              | 3,000     |            | 1,600     | 1,400      | 3,000            | 3,200      | 1,600     | 1,600      |  |
| 105              | 3,000     |            | 1,400     | 1,400      | 2,600            | 2,800      | 1,600     | 1,600      |  |
| 110              | 2,800     |            | 1,400     | 1,400      | 2,000            | 2,200      | 1,600     | 1,400      |  |
| 115              |           |            | 1,400     | 1,400      | 1,600            |            | 1,600     | 1,400      |  |
| 120              |           |            |           |            |                  |            | 1,400     | 1,400      |  |
| 125              |           |            |           |            |                  |            |           | 1,400      |  |
| 130              |           |            |           |            |                  |            |           | 1,400      |  |

|    |        |     |
|----|--------|-----|
| T1 | 0/100  | 100 |
| T2 | 100/67 | 100 |
| T3 | 100/67 | 100 |
| T4 | 100/67 | 100 |

\* Luffing under load.



 102 - 125 ft.  
(31 - 38.1 m)
  28 - 49 ft.  
(8.7 - 15 m)
  15,400 lbs.  
(7,000 kg)
  100%  
20'4" Spread
  360°

## FIXED LATTICE EXTENSION

| Pounds           |        |              |       |    |              |                  |       |              |       |       |              |       |
|------------------|--------|--------------|-------|----|--------------|------------------|-------|--------------|-------|-------|--------------|-------|
| 102 FT MAIN BOOM |        |              |       |    |              | 125 FT MAIN BOOM |       |              |       |       |              |       |
| Feet             | 5°     | 28 FT<br>20° | 40°   | 5° | 49 FT<br>20° | 40°              | 5°    | 28 FT<br>20° | 40°   | 5°    | 49 FT<br>20° | 40°   |
| 20               | 10,000 |              |       |    |              |                  |       |              |       |       |              |       |
| 25               | 10,600 |              |       |    | 6,000        |                  |       |              |       |       |              |       |
| 30               | 10,600 |              |       |    | 6,600        |                  | 8,400 |              |       |       |              |       |
| 35               | 10,600 | 10,200       | 8,400 |    | 6,600        |                  | 8,400 |              |       | 5,400 |              |       |
| 40               | 10,600 | 9,800        | 8,200 |    | 6,400        | 5,800            | 8,400 | 8,400        |       | 5,400 |              |       |
| 45               | 10,600 | 9,400        | 8,000 |    | 6,400        | 5,600            | 8,400 | 8,400        | 7,800 | 5,400 |              |       |
| 50               | 10,200 | 9,000        | 7,800 |    | 6,400        | 5,400            | 8,400 | 8,400        | 7,800 | 5,400 | 5,200        |       |
| 55               | 9,600  | 8,800        | 7,600 |    | 6,200        | 5,200            | 8,400 | 8,400        | 7,600 | 5,400 | 5,200        |       |
| 60               | 9,200  | 8,400        | 7,400 |    | 5,800        | 5,000            | 8,400 | 8,400        | 7,400 | 5,400 | 5,000        | 4,200 |
| 65               | 8,600  | 8,200        | 7,400 |    | 5,600        | 4,800            | 7,400 | 8,000        | 7,400 | 5,400 | 4,800        | 4,000 |
| 70               | 8,000  | 7,800        | 7,200 |    | 5,400        | 4,600            | 6,200 | 8,800        | 7,200 | 5,400 | 4,600        | 4,000 |
| 75               | 7,000  | 7,200        | 7,200 |    | 5,200        | 4,400            | 5,400 | 5,800        | 6,200 | 5,400 | 4,600        | 4,000 |
| 80               | 6,000  | 6,200        | 6,600 |    | 5,000        | 4,400            | 4,400 | 4,800        | 5,200 | 5,000 | 4,400        | 3,800 |
| 85               | 5,200  | 5,400        | 5,600 |    | 4,800        | 4,200            | 3,800 | 4,200        | 4,400 | 4,400 | 4,400        | 3,800 |
| 90               | 4,400  | 4,600        | 4,800 |    | 4,600        | 4,200            | 3,800 | 3,400        | 3,800 | 3,800 | 4,200        | 3,800 |
| 95               | 3,800  | 4,000        | 4,200 |    | 4,400        | 4,000            | 3,600 | 2,600        | 2,800 | 3,200 | 3,800        | 3,600 |
| 100              | 3,200  | 3,400        |       |    | 4,000        | 3,800            | 3,600 | 2,000        | 2,200 | 2,600 | 3,200        | 3,600 |
| 105              | 2,800  | 2,800        |       |    | 3,400        | 3,800            | 3,600 | 1,400        | 1,800 | 2,200 | 2,600        | 3,200 |
| 110              | 2,400  | 2,400        |       |    | 3,000        | 3,200            | 3,600 |              |       | 1,800 | 2,200        | 2,600 |
| 115              | 2,000  |              |       |    | 2,600        | 2,800            | 3,000 |              |       | 1,400 | 1,800        | 2,000 |
| 120              |        |              |       |    | 2,200        | 2,400            |       |              |       |       | 1,400        | 1,600 |
| 125              |        |              |       |    | 1,800        | 2,000            |       |              |       |       |              |       |
| 130              |        |              |       |    | 1,600        | 1,600            |       |              |       |       |              |       |

|    |        |     |
|----|--------|-----|
| T1 | 0/100  | 100 |
| T2 | 100/67 | 100 |
| T3 | 100/67 | 100 |
| T4 | 100/67 | 100 |

 102 - 125 ft.  
(31 - 38.1 m)
  28 - 49 ft.  
(8.7 - 15 m)
  15,400 lbs.  
(7,000 kg)
  100%  
20'4" Spread
  360°

## LATTICE EXTENSION (LUFFING)

| Pounds           |           |            |           |            |                  |            |           |            |  |
|------------------|-----------|------------|-----------|------------|------------------|------------|-----------|------------|--|
| 102 FT MAIN BOOM |           |            |           |            | 125 FT MAIN BOOM |            |           |            |  |
| Feet             | 28 FT     |            | 49 FT     |            | 28 FT            |            | 49 FT     |            |  |
|                  | *5° - 20° | *20° - 40° | *5° - 20° | *20° - 40° | *5° - 20°        | *20° - 40° | *5° - 20° | *20° - 40° |  |
| 30               | 5,600     |            |           |            |                  |            |           |            |  |
| 35               | 5,200     | 4,200      |           |            |                  |            |           |            |  |
| 40               | 5,000     | 4,000      | 2,800     |            | 5,200            |            |           |            |  |
| 45               | 4,600     | 4,000      | 2,600     |            | 5,000            | 4,000      |           |            |  |
| 50               | 4,400     | 3,800      | 2,400     | 2,000      | 4,800            | 4,000      |           |            |  |
| 55               | 4,200     | 3,800      | 2,400     | 2,000      | 4,600            | 3,800      | 2,600     |            |  |
| 60               | 4,000     | 3,600      | 2,200     | 1,800      | 4,400            | 3,800      | 2,400     | 2,000      |  |
| 65               | 3,800     | 3,600      | 2,000     | 1,800      | 4,200            | 3,800      | 2,200     | 1,800      |  |
| 70               | 3,800     | 3,600      | 2,000     | 1,800      | 4,000            | 3,600      | 2,200     | 1,800      |  |
| 75               | 3,600     | 3,400      | 1,800     | 1,600      | 4,000            | 3,600      | 2,000     | 1,800      |  |
| 80               | 3,400     | 3,400      | 1,800     | 1,600      | 3,800            | 3,600      | 2,000     | 1,800      |  |
| 85               | 3,400     | 3,400      | 1,800     | 1,600      | 3,400            | 3,400      | 1,800     | 1,600      |  |
| 90               | 3,200     | 3,200      | 1,600     | 1,600      | 2,800            | 3,200      | 1,800     | 1,600      |  |
| 95               | 3,200     | 3,200      | 1,600     | 1,600      | 2,200            | 2,600      | 1,800     | 1,600      |  |
| 100              | 3,000     |            | 1,600     | 1,400      | 1,800            | 2,000      | 1,600     | 1,600      |  |
| 105              | 2,600     |            | 1,400     | 1,400      | 1,400            | 1,600      | 1,600     | 1,600      |  |
| 110              | 2,200     |            | 1,400     | 1,400      |                  |            | 1,600     | 1,400      |  |
| 115              |           |            | 1,400     | 1,400      |                  |            |           | 1,400      |  |

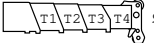
  

|    |        |     |
|----|--------|-----|
| T1 | 0/100  | 100 |
| T2 | 100/67 | 100 |
| T3 | 100/67 | 100 |
| T4 | 100/67 | 100 |

\* Luffing under load.

 102 - 125 ft.  
(31 - 38.1 m)
  28 - 49 ft.  
(8.7 - 15 m)
  12,500 lbs.  
(5,700 kg)
  100%  
20'4" Spread
  360°

## FIXED LATTICE EXTENSION

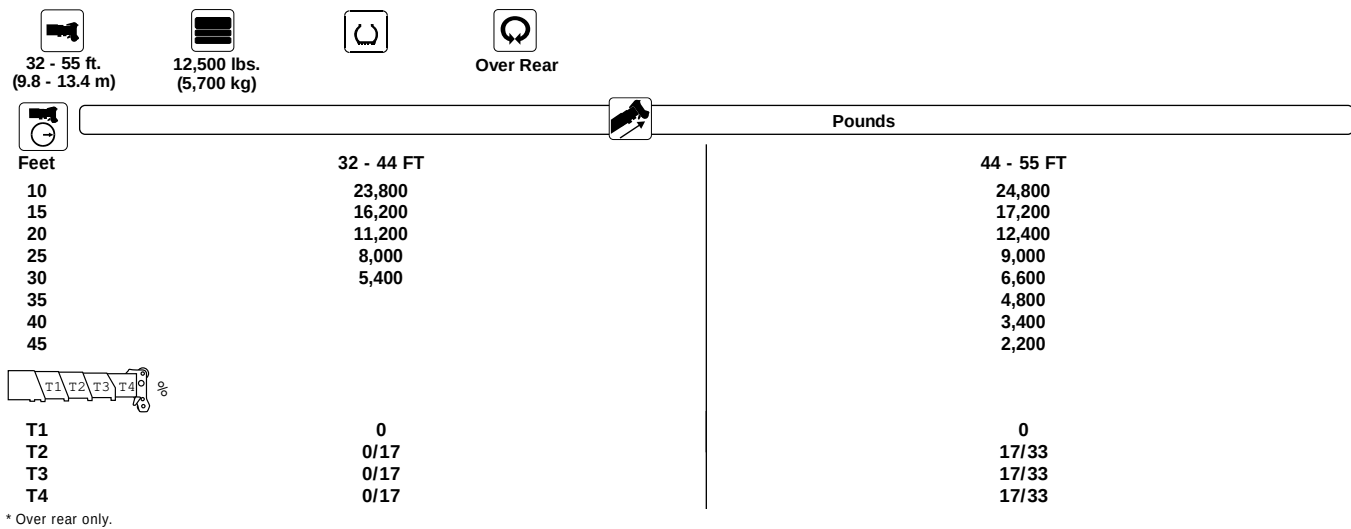
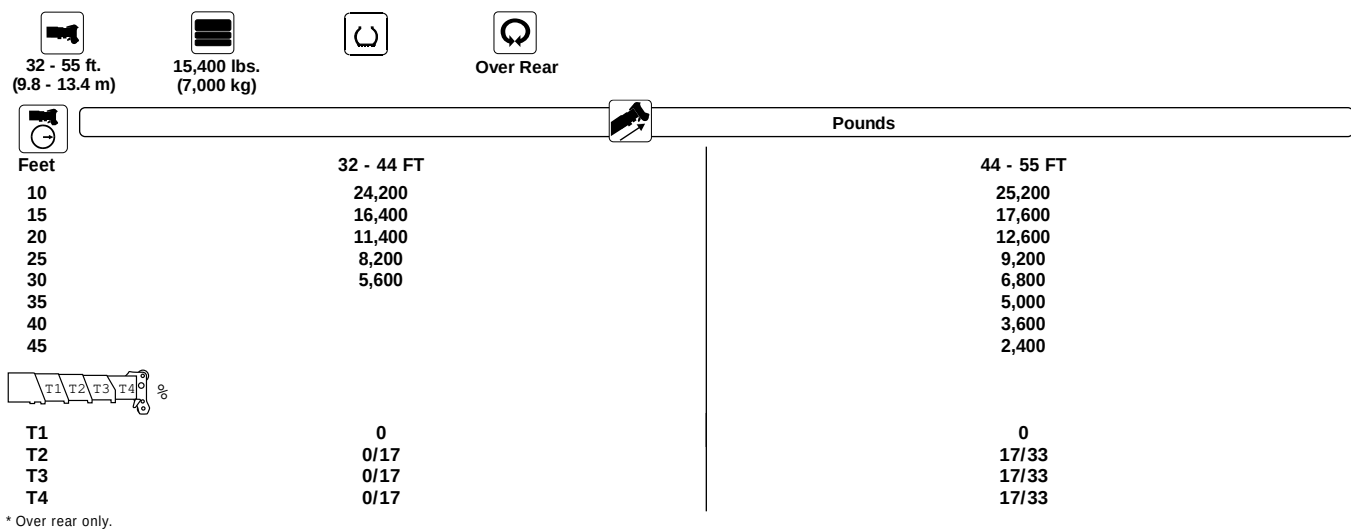
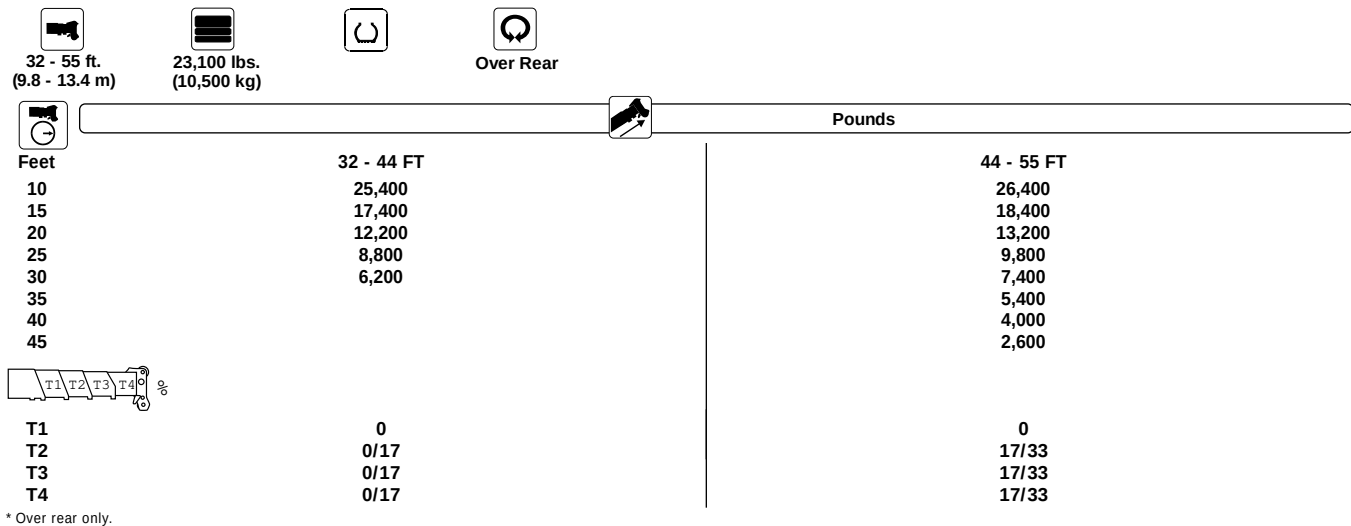
| Pounds                                                                            |        |              |        |    |              |                  |       |              |       |       |              |       |
|-----------------------------------------------------------------------------------|--------|--------------|--------|----|--------------|------------------|-------|--------------|-------|-------|--------------|-------|
| 102 FT MAIN BOOM                                                                  |        |              |        |    |              | 125 FT MAIN BOOM |       |              |       |       |              |       |
| Feet                                                                              | 5°     | 28 FT<br>20° | 40°    | 5° | 49 FT<br>20° | 40°              | 5°    | 28 FT<br>20° | 40°   | 5°    | 49 FT<br>20° | 40°   |
| 20                                                                                | 10,000 |              |        |    |              |                  |       |              |       |       |              |       |
| 25                                                                                | 10,600 |              |        |    | 6,000        |                  |       |              |       |       |              |       |
| 30                                                                                | 10,600 | 10,600       |        |    | 6,600        |                  | 8,400 |              |       |       |              |       |
| 35                                                                                | 10,600 | 10,200       | 8,400  |    | 6,600        |                  | 8,400 |              |       | 5,400 |              |       |
| 40                                                                                | 10,600 | 9,800        | 8,200  |    | 6,400        | 5,800            | 8,400 | 8,400        |       | 5,400 |              |       |
| 45                                                                                | 10,600 | 9,400        | 8,000  |    | 6,400        | 5,600            | 8,400 | 8,400        | 7,800 | 5,400 |              |       |
| 50                                                                                | 10,200 | 9,000        | 7,800  |    | 6,400        | 5,400            | 8,400 | 8,400        | 7,800 | 5,400 | 5,200        |       |
| 55                                                                                | 9,600  | 8,800        | 7,600  |    | 6,200        | 5,200            | 8,400 | 8,400        | 7,600 | 5,400 | 5,200        |       |
| 60                                                                                | 9,200  | 8,400        | 7,400  |    | 5,800        | 5,000            | 7,600 | 8,200        | 7,400 | 5,400 | 5,000        | 4,200 |
| 65                                                                                | 8,400  | 8,200        | 7,400  |    | 5,600        | 4,800            | 6,400 | 7,000        | 7,400 | 5,400 | 4,800        | 4,000 |
| 70                                                                                | 7,200  | 7,600        | 7,200  |    | 5,400        | 4,600            | 5,400 | 6,000        | 6,400 | 5,400 | 4,600        | 4,000 |
| 75                                                                                | 6,200  | 6,600        | 6,800  |    | 5,200        | 4,400            | 4,600 | 5,000        | 5,400 | 5,200 | 4,600        | 4,000 |
| 80                                                                                | 5,400  | 5,600        | 5,800  |    | 5,000        | 4,400            | 3,800 | 4,200        | 4,600 | 4,400 | 4,400        | 3,800 |
| 85                                                                                | 4,600  | 4,800        | 5,000  |    | 4,800        | 4,200            | 3,800 | 3,400        | 3,800 | 3,600 | 4,400        | 3,800 |
| 90                                                                                | 3,800  | 4,000        | 4,200  |    | 4,600        | 4,000            | 2,400 | 2,800        | 3,000 | 3,000 | 3,800        | 3,800 |
| 95                                                                                | 3,200  | 3,400        | 3,600  |    | 4,000        | 4,000            | 1,800 | 2,200        | 2,400 | 2,600 | 3,200        | 3,600 |
| 100                                                                               | 2,800  | 3,000        |        |    | 3,400        | 3,800            | 1,400 | 1,600        | 1,800 | 2,000 | 2,600        | 3,200 |
| 105                                                                               | 2,200  | 2,400        |        |    | 3,000        | 3,200            |       |              | 1,400 | 1,600 | 2,000        | 2,600 |
| 110                                                                               | 1,800  | 2,000        |        |    | 2,600        | 2,800            |       |              |       |       | 1,600        | 2,000 |
| 115                                                                               | 1,400  |              |        |    | 2,200        | 2,400            |       |              |       |       |              | 1,600 |
| 120                                                                               |        |              |        |    | 1,800        | 2,000            |       |              |       |       |              |       |
| 125                                                                               |        |              |        |    | 1,400        | 1,600            |       |              |       |       |              |       |
|  |        |              |        |    |              |                  |       |              |       |       |              |       |
| T1                                                                                |        |              | 0/100  |    |              |                  |       |              |       | 100   |              |       |
| T2                                                                                |        |              | 100/67 |    |              |                  |       |              |       | 100   |              |       |
| T3                                                                                |        |              | 100/67 |    |              |                  |       |              |       | 100   |              |       |
| T4                                                                                |        |              | 100/67 |    |              |                  |       |              |       | 100   |              |       |

 102 - 125 ft.  
(31 - 38.1 m)
  28 - 49 ft.  
(8.7 - 15 m)
  12,500 lbs.  
(5,700 kg)
  100%  
20'4" Spread
  360°

## LATTICE EXTENSION (LUFFING)

| Pounds                                                                              |           |            |           |            |                  |            |           |            |  |
|-------------------------------------------------------------------------------------|-----------|------------|-----------|------------|------------------|------------|-----------|------------|--|
| 102 FT MAIN BOOM                                                                    |           |            |           |            | 125 FT MAIN BOOM |            |           |            |  |
| Feet                                                                                | 28 FT     |            | 49 FT     |            | 28 FT            |            | 49 FT     |            |  |
|                                                                                     | *5° - 20° | *20° - 40° | *5° - 20° | *20° - 40° | *5° - 20°        | *20° - 40° | *5° - 20° | *20° - 40° |  |
| 30                                                                                  | 5,600     |            |           |            |                  |            |           |            |  |
| 35                                                                                  | 5,200     | 4,200      |           |            |                  |            |           |            |  |
| 40                                                                                  | 5,000     | 4,000      | 2,800     |            | 5,200            |            |           |            |  |
| 45                                                                                  | 4,600     | 4,000      | 2,600     |            | 5,000            | 4,000      |           |            |  |
| 50                                                                                  | 4,400     | 3,800      | 2,400     | 2,000      | 4,800            | 4,000      |           |            |  |
| 55                                                                                  | 4,200     | 3,800      | 2,400     | 2,000      | 4,600            | 3,800      | 2,600     |            |  |
| 60                                                                                  | 4,000     | 3,600      | 2,200     | 1,800      | 4,400            | 3,800      | 2,400     | 2,000      |  |
| 65                                                                                  | 3,800     | 3,600      | 2,000     | 1,800      | 4,200            | 3,800      | 2,200     | 1,800      |  |
| 70                                                                                  | 3,800     | 3,600      | 2,000     | 1,800      | 4,000            | 3,600      | 2,200     | 1,800      |  |
| 75                                                                                  | 3,600     | 3,400      | 1,800     | 1,600      | 4,000            | 3,600      | 2,000     | 1,800      |  |
| 80                                                                                  | 3,400     | 3,400      | 1,800     | 1,600      | 3,400            | 3,600      | 2,000     | 1,800      |  |
| 85                                                                                  | 3,400     | 3,400      | 1,800     | 1,600      | 2,800            | 3,200      | 1,800     | 1,600      |  |
| 90                                                                                  | 3,200     | 3,200      | 1,600     | 1,600      | 2,200            | 2,600      | 1,800     | 1,600      |  |
| 95                                                                                  | 3,000     | 3,200      | 1,600     | 1,600      | 1,800            | 2,000      | 1,800     | 1,600      |  |
| 100                                                                                 | 2,600     |            | 1,600     | 1,400      |                  | 1,600      | 1,600     | 1,600      |  |
| 105                                                                                 | 2,000     |            | 1,400     | 1,400      |                  |            | 1,400     | 1,600      |  |
| 110                                                                                 | 1,800     |            | 1,400     | 1,400      |                  |            |           | 1,400      |  |
| 115                                                                                 |           |            | 1,400     | 1,400      |                  |            |           |            |  |
|  |           |            |           |            |                  |            |           |            |  |
| T1                                                                                  |           |            | 0/100     |            |                  |            | 100       |            |  |
| T2                                                                                  |           |            | 100/67    |            |                  |            | 100       |            |  |
| T3                                                                                  |           |            | 100/67    |            |                  |            | 100       |            |  |
| T4                                                                                  |           |            | 100/67    |            |                  |            | 100       |            |  |

\* Luffing under load.



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Rated Lifting Capacities

## IMPORTANT NOTES:

### WARNING: THIS CHART IS ONLY A GUIDE.

The notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

1. All rated loads meet ANSI/ASME B30.5, Mobile and Locomotive Cranes. Testing and development were performed to SAEJ1063, Cantilevered Boom Crane Structures - Method of Test and SAEJ765 Crane Stability Test Code.

2. Capacities given do not include the weight of hook blocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.

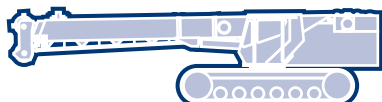
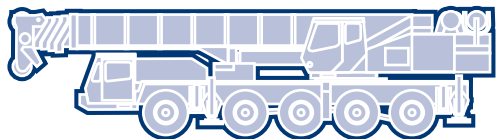
3. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.

4. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or next longer or shorter boom length shall be used.

5. For outrigger operation, outriggers shall be properly extended with tires raised off the ground before operating the boom or lifting loads.

## Symbols Glossary

|                                                                                     |                             |                                                                                       |                  |
|-------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|------------------|
|    | Frame                       |    | Steering         |
|    | Outriggers                  |    | Transmission     |
|    | Outrigger Controls          |    | Axles            |
|    | Engine                      |    | Brakes           |
|    | Fuel Tank Capacity          |    | Tires            |
|    | Electrical System           |    | Suspension       |
|    | Drive                       |    | Rotation         |
|    | Lights                      |    | Boom Elevation   |
|  | Cab                         |  | Swing            |
|  | Boom                        |  | Counterweight    |
|  | Fixed Swingaway             |  | Oil              |
|  | Tele-Swingaway              |  | Hydraulic System |
|  | Lattice Extension (Luffing) |  | Hoist            |
|  | Boom Nose                   |  | Radius           |
|  | Boom Extension              |  | Boom Length      |
|  | Speed                       |  | Hookblock        |
|  | Grade                       |  | Gear             |
|  | Lattice Extension           |  | Luffing Jib      |



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