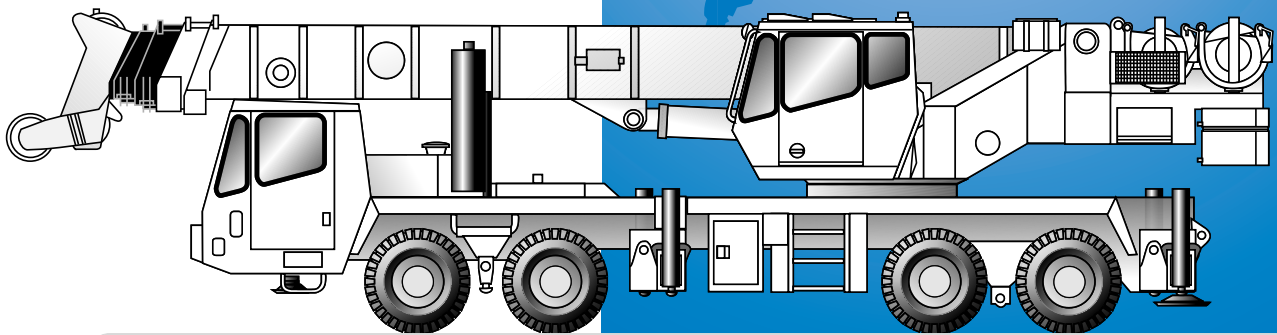




**GROVE<sup>®</sup>**  
**CRANE**

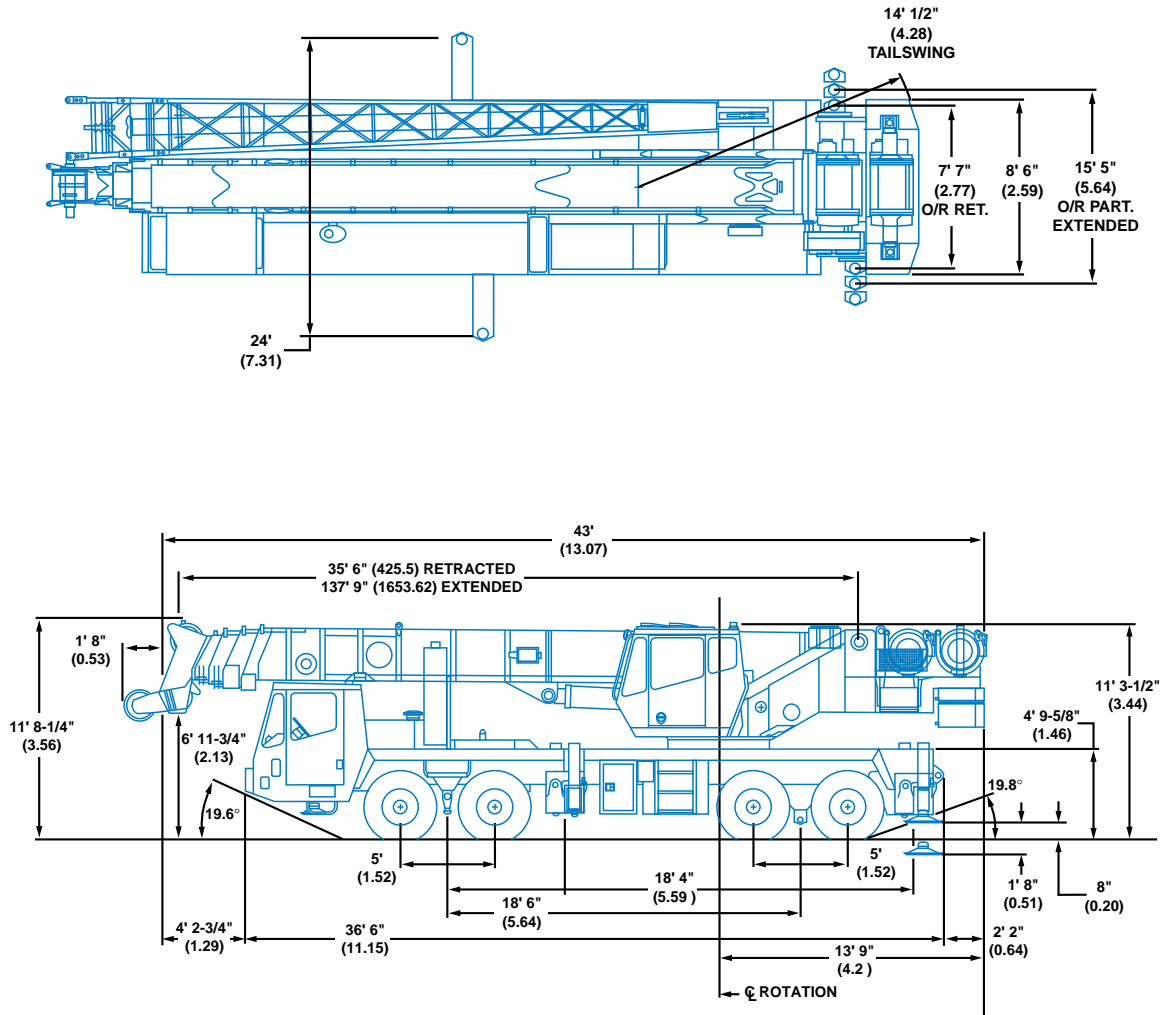
A GROVE WORLDWIDE COMPANY

**TMS870**  
**TTS870**



**Truck Mounted Hydraulic Cranes**

# Dimensions



**Turning Radius:** TMS870 - 45' 1" (13.7 m)  
 TTS870 - 29' 8" (9.04 m) (8 wheel)

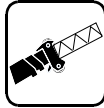
**Curb Clearance:** TMS870 45' 9-9/16" (13.9 m)  
 TTS870 29' 8" (9.04 m)

Note: ( ) Reference in meters.

# Working Range



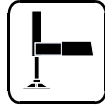
35-138 ft.  
(10.8-42.0 m)



31-56 ft.  
(9.4-17 m)

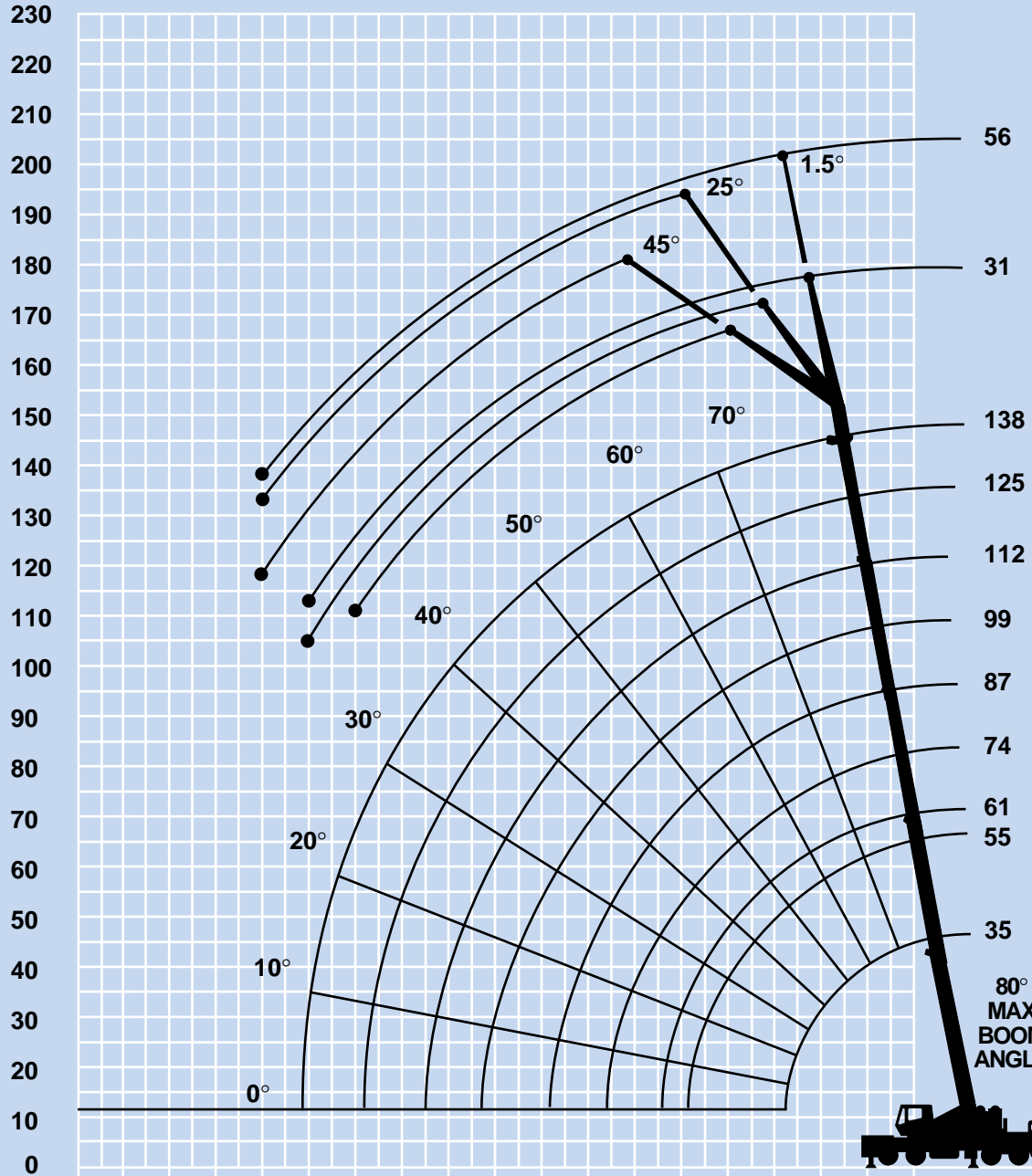


8,500 lbs.  
(3856 kg)



360°

FEET



180 170 150 130 110 90 80 70 60 50 40 30 20 10 0 FEET

AXIS OF ROTATION

# *Weight Reductions for Load Handling Devices*

## **5 Section Boom 31 ft. - 56 ft. (9.4 m - 17 m) Folding Boom Extension**

|                                     |            |           |
|-------------------------------------|------------|-----------|
| *31 ft. (9.4 m) extension (erected) | 4,048 lbs. | (1836 kg) |
| *56 ft. (17 m) extension (erected)  | 8,941 lbs. | (4056 kg) |

\*Reduction of main boom capacities:

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances **MUST BE MADE** for their combined weights. Weights are for Grove furnished equipment.

|  |            |          |
|--|------------|----------|
| Auxiliary Boom Nose                          | 116 lbs.   | (53 kg)  |
| + 70 ton, 6 sheave hookblock w/o cheekplates | 1,674 lbs. | (759 kg) |
| + 70 ton, 6 sheave hookblock w/cheekplates   | 2,010 lbs. | (912 kg) |
| + 45 ton, 3 sheave hookblock w/o cheekplates | 876 lbs.   | (397 kg) |
| + 45 ton, 3 sheave hookblock w/cheekplates   | 1,066 lbs. | (484 kg) |
| + 15 ton, 1 sheave hookblock                 | 380 lbs.   | (173 kg) |
| + 10 ton headache ball                       | 560 lbs.   | (254 kg) |
| + Refer to rating plate for actual weight.   |            |          |



35 - 138 ft.  
(10.8 - 42.0 m)



18,000 lbs.  
(8165 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

| (Feet) | 35                 | 55               | 61               | 74               | 87               | 99               | 112              | 125              | 138              |
|--------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10     | +140,000<br>(65.5) | 79,100<br>(76)   | 78,450<br>(77.5) | *57,050<br>(80)  |                  |                  |                  |                  |                  |
| 12     | 110,000<br>(62)    | 79,100<br>(73.5) | 77,500<br>(75.5) | 57,050<br>(78.5) | *43,300<br>(80)  |                  |                  |                  |                  |
| 15     | 95,800<br>(56)     | 79,100<br>(70)   | 69,850<br>(72.5) | 51,650<br>(76)   | 43,300<br>(78.5) | *32,100<br>(80)  |                  |                  |                  |
| 20     | 77,250<br>(44.5)   | 70,850<br>(64.5) | 59,850<br>(67.5) | 44,350<br>(71.5) | 39,550<br>(75)   | 32,100<br>(77.5) | 30,050<br>(79.5) | *20,150<br>(80)  |                  |
| 25     | 58,500<br>(29.5)   | 58,200<br>(58)   | 52,200<br>(62)   | 38,750<br>(67.5) | 33,800<br>(71.5) | 32,100<br>(74.5) | 30,050<br>(77)   | 20,150<br>(79)   | *19,000<br>(80)  |
| 30     |                    | 45,850<br>(51)   | 46,200<br>(56.5) | 34,200<br>(63)   | 29,200<br>(68)   | 30,200<br>(71.5) | 27,350<br>(74.5) | 19,100<br>(76.5) | 18,300<br>(78.5) |
| 35     |                    | 37,100<br>(43.5) | 37,500<br>(50)   | 29,050<br>(58.5) | 25,800<br>(64)   | 26,600<br>(68.5) | 24,300<br>(71.5) | 18,100<br>(74)   | 17,650<br>(76.5) |
| 40     |                    | 27,050<br>(34.5) | 27,500<br>(43)   | 25,150<br>(53.5) | 22,900<br>(60)   | 23,450<br>(65)   | 21,600<br>(69)   | 17,250<br>(72)   | 17,000<br>(74)   |
| 45     |                    | 22,000<br>(21.5) | 22,450<br>(35)   | 21,800<br>(48.5) | 20,000<br>(56)   | 20,450<br>(61.5) | 19,250<br>(66)   | 16,450<br>(69)   | 16,350<br>(72)   |
| 50     |                    |                  | 18,500<br>(24.5) | 18,550<br>(42.5) | 17,500<br>(52)   | 17,900<br>(58.5) | 16,900<br>(63)   | 15,750<br>(66.5) | 15,700<br>(69.5) |
| 60     |                    |                  |                  | 12,800<br>(28)   | 12,800<br>(42.5) | 14,000<br>(51)   | 13,250<br>(57)   | 13,100<br>(61.5) | 13,300<br>(65)   |
| 70     |                    |                  |                  |                  | 8,830<br>(30)    | 10,150<br>(42.5) | 10,700<br>(50)   | 10,700<br>(56)   | 11,050<br>(60)   |
| 80     |                    |                  |                  |                  |                  | 7,160<br>(32)    | 8,240<br>(42.5)  | 8,660<br>(49.5)  | 9,120<br>(55)    |
| 90     |                    |                  |                  |                  |                  | 4,800<br>(15.5)  | 5,870<br>(33.5)  | 6,700<br>(43)    | 7,380<br>(49.5)  |
| 100    |                    |                  |                  |                  |                  |                  | 4,010<br>(21)    | 4,840<br>(35)    | 5,500<br>(43)    |
| 110    |                    |                  |                  |                  |                  |                  |                  | 3,340<br>(24.5)  | 4,000<br>(36)    |
| 120    |                    |                  |                  |                  |                  |                  |                  |                  | 2,760<br>(27)    |
| 130    |                    |                  |                  |                  |                  |                  |                  |                  | 1,720<br>(9.5)   |

Minimum boom angle (deg.) for indicated length (no load) 9

Maximum boom length (ft.) at 0 degree boom angle (no load) 125

NOTE: ( ) Boom angles are in degrees.

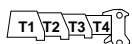
\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 55               | 61               | 74              | 87              | 99              | 112            | 125              |
|------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|------------------|
| 0          | 26,400<br>(28.2) | 12,500<br>(47.4) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,420<br>(79.4) | 2,440<br>(92.2) | 1,680<br>(105) | 1,070<br>(117.8) |

NOTE: ( ) Reference radii are in feet.

A6-829-014914



%

### MODE B

|    | T1 | T2 | T3 | T4 |
|----|----|----|----|----|
| T1 | 0  | 50 | 50 | 75 |
| T2 | 0  | 25 | 50 | 75 |
| T3 | 0  | 0  | 0  | 0  |
| T4 | 0  | 0  | 0  | 0  |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



12,500 lbs.  
(5670 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

| (Feet) | 35                 | 55               | 61               | 74               | 87               | 99               | 112              | 125              | 138              |
|--------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10     | +140,000<br>(65.5) | 79,100<br>(76)   | 78,450<br>(77.5) | *57,050<br>(80)  |                  |                  |                  |                  |                  |
| 12     | 110,000<br>(62)    | 79,100<br>(73.5) | 77,500<br>(75.5) | 57,050<br>(78.5) | *43,300<br>(80)  |                  |                  |                  |                  |
| 15     | 95,800<br>(56)     | 79,100<br>(70)   | 69,850<br>(72.5) | 51,650<br>(76)   | 43,300<br>(78.5) | *32,100<br>(80)  |                  |                  |                  |
| 20     | 70,700<br>(44.5)   | 70,300<br>(64.5) | 59,850<br>(67.5) | 44,350<br>(71.5) | 39,550<br>(75)   | 32,100<br>(77.5) | 30,050<br>(79.5) | *20,150<br>(80)  |                  |
| 25     | 53,150<br>(29.5)   | 52,850<br>(58)   | 52,200<br>(62)   | 38,750<br>(67.5) | 33,800<br>(71.5) | 32,100<br>(74.5) | 30,050<br>(77)   | 20,150<br>(79)   | *19,000<br>(80)  |
| 30     |                    | 41,400<br>(51)   | 41,800<br>(56.5) | 34,200<br>(63)   | 29,200<br>(68)   | 30,200<br>(71.5) | 27,350<br>(74.5) | 19,100<br>(76.5) | 18,300<br>(78.5) |
| 35     |                    | 33,350<br>(43.5) | 33,700<br>(50)   | 29,050<br>(58.5) | 25,800<br>(64)   | 26,600<br>(68.5) | 24,300<br>(71.5) | 18,100<br>(74)   | 17,650<br>(76.5) |
| 40     |                    | 27,050<br>(34.5) | 27,500<br>(43)   | 25,150<br>(53.5) | 22,900<br>(60)   | 23,450<br>(65)   | 21,600<br>(69)   | 17,250<br>(72)   | 17,000<br>(74)   |
| 45     |                    | 21,750<br>(21.5) | 22,050<br>(35)   | 21,800<br>(48.5) | 20,000<br>(56)   | 20,450<br>(61.5) | 19,250<br>(66)   | 16,450<br>(69)   | 16,350<br>(72)   |
| 50     |                    |                  | 17,900<br>(24.5) | 17,600<br>(42.5) | 17,500<br>(52)   | 17,900<br>(58.5) | 16,900<br>(63)   | 15,750<br>(66.5) | 15,700<br>(69.5) |
| 60     |                    |                  |                  | 11,200<br>(28)   | 11,450<br>(42.5) | 12,500<br>(51)   | 13,250<br>(57)   | 13,100<br>(61.5) | 13,300<br>(65)   |
| 70     |                    |                  |                  |                  | 7,460<br>(30)    | 8,480<br>(42.5)  | 9,520<br>(50)    | 10,550<br>(56)   | 11,050<br>(60)   |
| 80     |                    |                  |                  |                  |                  | 5,610<br>(32)    | 6,610<br>(42.5)  | 7,630<br>(49.5)  | 8,650<br>(55)    |
| 90     |                    |                  |                  |                  |                  | 3,480<br>(15.5)  | 4,450<br>(33.5)  | 5,440<br>(43)    | 6,430<br>(49.5)  |
| 100    |                    |                  |                  |                  |                  |                  | 2,790<br>(21)    | 3,750<br>(35)    | 4,720<br>(43)    |
| 110    |                    |                  |                  |                  |                  |                  |                  | 2,400<br>(24.5)  | 3,360<br>(36)    |
| 120    |                    |                  |                  |                  |                  |                  |                  |                  | 2,250<br>(27)    |
| 130    |                    |                  |                  |                  |                  |                  |                  |                  | 1,330<br>(9.5)   |

Minimum boom angle (deg.) for indicated length (no load)

9

Maximum boom length (ft.) at 0 degree boom angle (no load)

125

NOTE: ( ) Boom angles are in degrees.

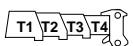
\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 55               | 61               | 74              | 87              | 99              | 112            | 125              |
|------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|------------------|
| 0          | 26,400<br>(28.2) | 12,500<br>(47.4) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,420<br>(79.4) | 2,440<br>(92.2) | 1,680<br>(105) | 1,070<br>(117.8) |

NOTE: ( ) Reference radii are in feet.

A6-829-014915



%

## MODE B

|    | T1 | T2 | T3 | T4 |     |     |     |     |     |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| T1 | 0  | 50 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T2 | 0  | 25 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0  | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |
| T4 | 0  | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



8,500 lbs.  
(3856 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

| (Feet) | 35                 | 55               | 61               | 74               | 87               | 99               | 112              | 125              | 138              |
|--------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10     | +140,000<br>(65.5) | 79,100<br>(76)   | 78,450<br>(77.5) | *57,050<br>(80)  |                  |                  |                  |                  |                  |
| 12     | 110,000<br>(62)    | 79,100<br>(73.5) | 77,500<br>(75.5) | 57,050<br>(78.5) | *43,300<br>(80)  |                  |                  |                  |                  |
| 15     | 95,800<br>(56)     | 79,100<br>(70)   | 69,850<br>(72.5) | 51,650<br>(76)   | 43,300<br>(78.5) | *32,100<br>(80)  |                  |                  |                  |
| 20     | 70,700<br>(44.5)   | 70,300<br>(64.5) | 59,850<br>(67.5) | 44,350<br>(71.5) | 39,550<br>(75)   | 32,100<br>(77.5) | 30,050<br>(79.5) | *20,150<br>(80)  |                  |
| 25     | 53,150<br>(29.5)   | 52,850<br>(58)   | 52,200<br>(62)   | 38,750<br>(67.5) | 33,800<br>(71.5) | 32,100<br>(74.5) | 30,050<br>(79.5) | 20,150<br>(79)   | *19,000<br>(80)  |
| 30     |                    | 41,400<br>(51)   | 41,800<br>(56.5) | 34,200<br>(63)   | 29,200<br>(68)   | 30,200<br>(71.5) | 27,350<br>(74.5) | 19,100<br>(76.5) | 18,300<br>(78.5) |
| 35     |                    | 31,850<br>(43.5) | 31,950<br>(50)   | 29,050<br>(58.5) | 25,800<br>(64)   | 26,600<br>(68.5) | 24,300<br>(71.5) | 18,100<br>(74)   | 17,650<br>(76.5) |
| 40     |                    | 24,700<br>(34.5) | 24,750<br>(43)   | 24,800<br>(53.5) | 22,900<br>(60)   | 23,450<br>(65)   | 21,600<br>(69)   | 17,250<br>(72)   | 17,000<br>(74)   |
| 45     |                    | 19,550<br>(21.5) | 19,550<br>(35)   | 19,750<br>(48.5) | 19,500<br>(56)   | 20,450<br>(61.5) | 19,250<br>(66)   | 16,450<br>(69)   | 16,350<br>(72)   |
| 50     |                    |                  | 15,700<br>(24.5) | 15,400<br>(42.5) | 15,350<br>(52)   | 16,550<br>(58.5) | 16,900<br>(63)   | 15,750<br>(66.5) | 15,700<br>(69.5) |
| 60     |                    |                  |                  | 9,490<br>(28)    | 9,730<br>(42.5)  | 10,800<br>(51)   | 11,900<br>(57)   | 13,000<br>(61.5) | 13,300<br>(65)   |
| 70     |                    |                  |                  |                  | 6,020<br>(30)    | 7,040<br>(42.5)  | 8,080<br>(50)    | 9,130<br>(56)    | 10,200<br>(60)   |
| 80     |                    |                  |                  |                  |                  | 4,390<br>(32)    | 5,390<br>(42.5)  | 6,400<br>(49.5)  | 7,430<br>(55)    |
| 90     |                    |                  |                  |                  |                  | 2,420<br>(15.5)  | 3,390<br>(33.5)  | 4,370<br>(43)    | 5,370<br>(49.5)  |
| 100    |                    |                  |                  |                  |                  |                  | 1,840<br>(21)    | 2,800<br>(35)    | 3,770<br>(43)    |
| 110    |                    |                  |                  |                  |                  |                  |                  | 1,550<br>(24.5)  | 2,510<br>(36)    |
| 120    |                    |                  |                  |                  |                  |                  |                  |                  | 1,480<br>(27)    |

Minimum boom angle (deg.) for indicated length (no load)

5 10

Maximum boom length (ft.) at 0 degree boom angle (no load)

112

NOTE: ( ) Boom angles are in degrees.

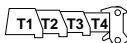
\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 55               | 61               | 74              | 87              | 99              | 112            |
|------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|
| 0          | 26,400<br>(28.2) | 12,500<br>(47.4) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,420<br>(79.4) | 2,060<br>(92.2) | 1,200<br>(105) |

NOTE: ( ) Reference radii are in feet.

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%

## MODE B

|    | T1 | T2 | T3 | T4 |
|----|----|----|----|----|
| T1 | 0  | 50 | 50 | 75 |
| T2 | 0  | 25 | 50 | 75 |
| T3 | 0  | 0  | 0  | 0  |
| T4 | 0  | 0  | 0  | 0  |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



5,500 lbs.  
(2495 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

| (Feet)   | 35                 | 55               | 61               | 74               | 87               | 99               | 112              | 125              | 138              |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10   | +140,000<br>(65.5) | 79,100<br>(76)   | 78,450<br>(77.5) | *57,050<br>(80)  |                  |                  |                  |                  |                  |
| 12   | 110,000<br>(62)    | 79,100<br>(73.5) | 77,500<br>(75.5) | 57,050<br>(78.5) | *43,300<br>(80)  |                  |                  |                  |                  |
| 15   | 95,800<br>(56)     | 79,100<br>(70)   | 69,850<br>(72.5) | 51,650<br>(76)   | 43,300<br>(78.5) | *32,100<br>(80)  |                  |                  |                  |
| 20   | 68,550<br>(44.5)   | 68,150<br>(64.5) | 59,850<br>(67.5) | 44,350<br>(71.5) | 39,550<br>(75)   | 32,100<br>(77.5) | 30,050<br>(77)   | *20,150<br>(80)  |                  |
| 25   | 51,450<br>(29.5)   | 51,150<br>(58)   | 51,550<br>(62)   | 38,750<br>(67.5) | 33,800<br>(71.5) | 32,100<br>(74.5) | 30,050<br>(77)   | 20,150<br>(79)   | *19,000<br>(80)  |
| 30   |                    | 39,750<br>(51)   | 39,600<br>(56.5) | 34,200<br>(63)   | 29,200<br>(68)   | 30,200<br>(71.5) | 27,350<br>(74.5) | 19,100<br>(76.5) | 18,300<br>(78.5) |
| 35   |                    | 29,550<br>(43.5) | 29,500<br>(50)   | 29,050<br>(58.5) | 25,800<br>(64)   | 26,600<br>(68.5) | 24,300<br>(71.5) | 18,100<br>(74)   | 17,650<br>(76.5) |
| 40   |                    | 22,750<br>(34.5) | 22,500<br>(43)   | 22,850<br>(53.5) | 22,750<br>(60)   | 23,450<br>(65)   | 21,600<br>(69)   | 17,250<br>(72)   | 17,000<br>(74)   |
| 45   |                    | 17,650<br>(21.5) | 17,650<br>(35)   | 17,850<br>(48.5) | 17,600<br>(56)   | 18,800<br>(61.5) | 19,250<br>(66)   | 16,450<br>(69)   | 16,350<br>(72)   |
| 50   |                    |                  | 14,050<br>(24.5) | 13,800<br>(42.5) | 13,750<br>(52)   | 14,900<br>(58.5) | 16,050<br>(63)   | 15,750<br>(66.5) | 15,700<br>(69.5) |
| 60   |                    |                  |                  | 8,190<br>(28)    | 8,430<br>(42.5)  | 9,500<br>(51)    | 10,550<br>(57)   | 11,700<br>(61.5) | 12,800<br>(65)   |
| 70   |                    |                  |                  |                  | 4,950<br>(30)    | 5,970<br>(42.5)  | 7,000<br>(50)    | 8,060<br>(56)    | 9,120<br>(60)    |
| 80   |                    |                  |                  |                  |                  | 3,470<br>(32)    | 4,470<br>(42.5)  | 5,480<br>(49.5)  | 6,510<br>(55)    |
| 90   |                    |                  |                  |                  |                  | 1,610<br>(15.5)  | 2,580<br>(33.5)  | 3,570<br>(43)    | 4,560<br>(49.5)  |
| 100  |                    |                  |                  |                  |                  |                  | 1,130<br>(21)    | 2,090<br>(35)    | 3,060<br>(43)    |
| 110  |                    |                  |                  |                  |                  |                  |                  |                  | 1,870<br>(36)    |
| Minimum boom angle (deg.) for indicated length (no load)   |                    |                  |                  |                  |                  |                  | 20               | 27               | 33               |
| Maximum boom length (ft.) at 0 degree boom angle (no load) |                    |                  |                  |                  |                  |                  |                  | 99               |                  |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 55               | 61               | 74              | 87              | 99              |
|------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
| 0          | 26,400<br>(28.2) | 12,500<br>(47.4) | 10,150<br>(53.8) | 5,640<br>(66.6) | 2,630<br>(79.4) | 1,280<br>(92.2) |

NOTE: ( ) Reference radii are in feet.

A6-829-014533A



### MODE B

|    | T1 | T2 | T3 | T4 |     |     |     |     |     |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| T1 | 0  | 50 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T2 | 0  | 25 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0  | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |
| T4 | 0  | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.





35 - 138 ft.  
(10.8 - 42.0 m)



3,000 lbs.  
(1361 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

| (Feet)   | 35                 | 55               | 61               | 74               | 87               | 99               | 112              | 125              | 138              |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10   | +140,000<br>(65.5) | 79,100<br>(76)   | 78,450<br>(77.5) | *57,050<br>(80)  |                  |                  |                  |                  |                  |
| 12   | 110,000<br>(62)    | 79,100<br>(73.5) | 77,500<br>(75.5) | 57,050<br>(78.5) | *43,300<br>(80)  |                  |                  |                  |                  |
| 15   | 95,350<br>(56)     | 79,100<br>(70)   | 69,850<br>(72.5) | 51,650<br>(76)   | 43,300<br>(78.5) | *32,100<br>(80)  |                  |                  |                  |
| 20   | 66,750<br>(44.5)   | 66,400<br>(64.5) | 59,850<br>(67.5) | 44,350<br>(71.5) | 39,550<br>(75)   | 32,100<br>(77.5) | 30,050<br>(79.5) | *20,150<br>(80)  |                  |
| 25   | 50,050<br>(29.5)   | 49,750<br>(58)   | 50,150<br>(62)   | 38,750<br>(67.5) | 33,800<br>(71.5) | 32,100<br>(74.5) | 30,050<br>(77)   | 20,150<br>(79)   | *19,000<br>(80)  |
| 30   |                    | 37,300<br>(51)   | 37,200<br>(56.5) | 34,200<br>(63)   | 29,200<br>(68)   | 30,200<br>(71.5) | 27,350<br>(74.5) | 19,100<br>(76.5) | 18,300<br>(78.5) |
| 35   |                    | 27,600<br>(43.5) | 27,250<br>(50)   | 27,500<br>(58.5) | 25,800<br>(64)   | 26,600<br>(68.5) | 24,300<br>(71.5) | 18,100<br>(74)   | 17,650<br>(76.5) |
| 40   |                    | 20,900<br>(34.5) | 20,650<br>(43)   | 21,250<br>(53.5) | 21,000<br>(60)   | 22,300<br>(65)   | 21,600<br>(69)   | 17,250<br>(72)   | 17,000<br>(74)   |
| 45   |                    | 16,050<br>(21.5) | 16,050<br>(35)   | 16,300<br>(48.5) | 16,000<br>(56)   | 17,250<br>(61.5) | 18,450<br>(66)   | 16,450<br>(69)   | 16,350<br>(72)   |
| 50   |                    |                  | 12,650<br>(24.5) | 12,400<br>(42.5) | 12,350<br>(52)   | 13,500<br>(58.5) | 14,700<br>(63)   | 15,750<br>(66.5) | 15,700<br>(69.5) |
| 60   |                    |                  |                  | 7,110<br>(28)    | 7,340<br>(42.5)  | 8,420<br>(51)    | 9,510<br>(57)    | 10,600<br>(61.5) | 11,700<br>(65)   |
| 70   |                    |                  |                  |                  | 4,050<br>(30)    | 5,070<br>(42.5)  | 6,110<br>(50)    | 7,160<br>(56)    | 8,220<br>(60)    |
| 80   |                    |                  |                  |                  |                  | 2,700<br>(32)    | 3,700<br>(42.5)  | 4,720<br>(49.5)  | 5,740<br>(55)    |
| 90   |                    |                  |                  |                  |                  |                  | 1,920<br>(33.5)  | 2,900<br>(43)    | 3,900<br>(49.5)  |
| 100  |                    |                  |                  |                  |                  |                  |                  | 1,500<br>(35)    | 2,470<br>(43)    |
| 110  |                    |                  |                  |                  |                  |                  |                  |                  | 1,340<br>(36)    |
| Minimum boom angle (deg.) for indicated length (no load)   |                    |                  |                  |                  |                  | 20               | 27               | 32               | 35               |
| Maximum boom length (ft.) at 0 degree boom angle (no load) |                    |                  |                  |                  |                  |                  | 87               |                  |                  |

NOTE: ( ) Boom angles are in degrees.

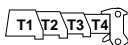
\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 55               | 61               | 74              | 87              |
|------------|------------------|------------------|------------------|-----------------|-----------------|
| 0          | 26,400<br>(28.2) | 12,500<br>(47.4) | 10,150<br>(53.8) | 4,680<br>(66.6) | 1,860<br>(79.4) |

NOTE: ( ) Reference radii are in feet.

A6-829-014536A



%

### MODE B

|    |   |    |    |    |     |     |     |     |     |
|----|---|----|----|----|-----|-----|-----|-----|-----|
| T1 | 0 | 50 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T2 | 0 | 25 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0 | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |
| T4 | 0 | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



0 lbs.  
(0 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

| (Feet)   | 35                | 55               | 61               | 74               | 87               | 99               | 112              | 125              | 138              |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10   | 139,500<br>(65.5) | 79,100<br>(76)   | 78,450<br>(77.5) | *57,050<br>(80)  |                  |                  |                  |                  |                  |
| 12   | 110,000<br>(62)   | 79,100<br>(73.5) | 77,500<br>(75.5) | 57,050<br>(78.5) | *43,300<br>(80)  |                  |                  |                  |                  |
| 15   | 92,450<br>(56)    | 79,100<br>(70)   | 69,850<br>(72.5) | 51,650<br>(76)   | 43,300<br>(78.5) | *32,100<br>(80)  |                  |                  |                  |
| 20   | 64,600<br>(44.5)  | 64,250<br>(64.5) | 59,850<br>(67.5) | 44,350<br>(71.5) | 39,550<br>(75)   | 32,100<br>(77.5) | 30,050<br>(79.5) | *20,150<br>(80)  |                  |
| 25   | 48,350<br>(29.5)  | 48,050<br>(58)   | 48,450<br>(62)   | 38,750<br>(67.5) | 33,800<br>(71.5) | 32,100<br>(74.5) | 30,050<br>(77)   | 20,150<br>(79)   | *19,000<br>(80)  |
| 30   |                   | 34,400<br>(51)   | 34,050<br>(56.5) | 34,050<br>(63)   | 29,200<br>(68)   | 30,200<br>(71.5) | 27,350<br>(74.5) | 19,100<br>(76.5) | 18,300<br>(78.5) |
| 35   |                   | 25,150<br>(43.5) | 24,500<br>(50)   | 25,200<br>(58.5) | 25,250<br>(64)   | 26,600<br>(68.5) | 24,300<br>(71.5) | 18,100<br>(74)   | 17,650<br>(76.5) |
| 40   |                   | 18,650<br>(34.5) | 18,400<br>(43)   | 19,300<br>(53.5) | 18,750<br>(60)   | 20,050<br>(65)   | 21,350<br>(69)   | 17,250<br>(72)   | 17,000<br>(74)   |
| 45   |                   | 14,150<br>(21.5) | 14,150<br>(35)   | 14,400<br>(48.5) | 14,100<br>(56)   | 15,350<br>(61.5) | 16,550<br>(66)   | 16,450<br>(69)   | 16,350<br>(72)   |
| 50   |                   |                  | 11,050<br>(24.5) | 10,750<br>(42.5) | 10,700<br>(52)   | 11,850<br>(58.5) | 13,050<br>(63)   | 14,250<br>(66.5) | 15,450<br>(69.5) |
| 60   |                   |                  |                  | 5,810<br>(28)    | 6,040<br>(42.5)  | 7,110<br>(51)    | 8,210<br>(57)    | 9,310<br>(61.5)  | 10,400<br>(65)   |
| 70   |                   |                  |                  |                  | 2,970<br>(30)    | 3,990<br>(42.5)  | 5,030<br>(50)    | 6,080<br>(56)    | 7,140<br>(60)    |
| 80   |                   |                  |                  |                  |                  | 1,780<br>(32)    | 2,780<br>(42.5)  | 3,800<br>(49.5)  | 4,820<br>(55)    |
| 90   |                   |                  |                  |                  |                  |                  | 1,120<br>(33.5)  | 2,100<br>(43)    | 3,100<br>(49.5)  |
| 100  |                   |                  |                  |                  |                  |                  |                  |                  | 1,760<br>(43)    |
| Minimum boom angle (deg.) for indicated length (no load)   |                   |                  |                  |                  | 20               | 25               | 33               | 37               | 40               |
| Maximum boom length (ft.) at 0 degree boom angle (no load) |                   |                  |                  |                  |                  |                  | 74               |                  |                  |

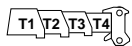
NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

| Boom Angle | 35               | 55               | 61              | 74              |
|------------|------------------|------------------|-----------------|-----------------|
| 0          | 26,400<br>(28.2) | 12,500<br>(47.4) | 9,190<br>(53.8) | 3,540<br>(66.6) |

NOTE: ( ) Reference radii are in feet.

A6-829-014539



%

## MODE B

|    | T1 | T2 | T3 | T4 |     |     |     |     |     |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| T1 | 0  | 50 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T2 | 0  | 25 | 50 | 75 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0  | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |
| T4 | 0  | 0  | 0  | 0  | 0   | 25  | 50  | 75  | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



18,000 lbs.  
(8165 kg)



100%



360°



85% Domestic (Pounds)

31 FT. LENGTH (SWINGAWAY BASE)

56 FT. LENGTH (SWINGAWAY BASE & FLY)

| (Feet)   | 1.5°            | 25°             | 45°             | 1.5°            | 25°             | 45°             |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 35   | 9,500<br>(79.5) |                 |                 |                 |                 |                 |
| 40   | 9,500<br>(78)   |                 |                 | *5,500<br>(80)  |                 |                 |
| 45   | 9,500<br>(76.5) | *8,750<br>(80)  |                 | 5,400<br>(79.5) |                 |                 |
| 50   | 9,500<br>(75)   | 7,490<br>(78.5) | *7,800<br>(80)  | 5,300<br>(78)   |                 |                 |
| 60   | 9,110<br>(71.5) | 7,060<br>(75)   | 6,740<br>(77)   | 5,100<br>(75.5) | *4,640<br>(80)  |                 |
| 70   | 8,450<br>(68.5) | 6,720<br>(71.5) | 6,460<br>(73.5) | 4,900<br>(72.5) | 4,430<br>(78)   | *3,600<br>(80)  |
| 80   | 7,550<br>(64.5) | 6,330<br>(68)   | 6,350<br>(69.5) | 4,700<br>(69.5) | 4,220<br>(74.5) | 3,500<br>(77.5) |
| 90   | 6,990<br>(60.5) | 6,060<br>(64)   | 6,280<br>(65.5) | 4,500<br>(66.5) | 4,120<br>(71)   | 3,400<br>(74)   |
| 100  | 6,330<br>(56.5) | 5,820<br>(60)   | 6,220<br>(61)   | 4,300<br>(63.5) | 3,810<br>(67.5) | 3,300<br>(70.5) |
| 110  | 4,820<br>(52)   | 5,400<br>(55.5) | 5,670<br>(56.5) | 4,100<br>(59.5) | 3,600<br>(64)   | 3,200<br>(67)   |
| 120  | 3,580<br>(47)   | 4,050<br>(50.5) | 4,050<br>(52)   | 3,900<br>(56)   | 3,400<br>(60.5) | 3,100<br>(63)   |
| 130  | 2,550<br>(41.5) | 2,910<br>(45)   |                 | 3,190<br>(52)   | 3,190<br>(56)   | 3,000<br>(58.5) |
| 140  | 1,680<br>(35.5) | 1,940<br>(38.5) |                 | 2,300<br>(47.5) | 2,980<br>(51.5) | 2,900<br>(53.5) |
| 150  |                 |                 |                 | 1,540<br>(42.5) | 2,100<br>(46.5) |                 |
| 160  |                 |                 |                 |                 | 1,300<br>(41)   |                 |
| Minimum boom angle (deg.) for indicated length | 32              | 32              | 45              | 40              | 40              | 45              |
| Maximum boom length (ft.) at 0 deg. boom angle |                 | 112             |                 |                 | 99              |                 |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

MODE B

A6-829-014929



35 - 138 ft.  
(10.8 - 42.0 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



12,500 lbs.  
(5670 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)  | 31 FT. LENGTH (SWINGAWAY BASE) |                 |                 | 56 FT. LENGTH (SWINGAWAY BASE & FLY) |                 |                 |
|---|--------------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|
|   | 1.5°                           | 25°             | 45°             | 1.5°                                 | 25°             | 45°             |
| 35  | 9,500<br>(79.5)                |                 |                 |                                      |                 |                 |
| 40  | 9,500<br>(78)                  |                 |                 | *5,500<br>(80)                       |                 |                 |
| 45  | 9,500<br>(76.5)                | *8,750<br>(80)  |                 | 5,400<br>(79.5)                      |                 |                 |
| 50  | 9,500<br>(75)                  | 7,490<br>(78.5) | *7,800<br>(80)  | 5,300<br>(78)                        |                 |                 |
| 60  | 9,110<br>(71.5)                | 7,060<br>(75)   | 6,740<br>(77)   | 5,100<br>(75.5)                      | *4,640<br>(80)  |                 |
| 70  | 8,450<br>(68.5)                | 6,720<br>(71.5) | 6,460<br>(73.5) | 4,900<br>(72.5)                      | 4,430<br>(78)   | *3,600<br>(80)  |
| 80  | 7,550<br>(64.5)                | 6,330<br>(68)   | 6,350<br>(69.5) | 4,700<br>(69.5)                      | 4,220<br>(74.5) | 3,500<br>(77.5) |
| 90  | 6,990<br>(60.5)                | 6,060<br>(64)   | 6,280<br>(65.5) | 4,500<br>(66.5)                      | 4,120<br>(71)   | 3,400<br>(74)   |
| 100   | 5,480<br>(56.5)                | 5,820<br>(60)   | 6,220<br>(61)   | 4,300<br>(63.5)                      | 3,810<br>(67.5) | 3,300<br>(70.5) |
| 110   | 4,050<br>(52)                  | 4,710<br>(55.5) | 4,820<br>(56.5) | 4,100<br>(59.5)                      | 3,600<br>(64)   | 3,200<br>(67)   |
| 120   | 2,890<br>(47)                  | 3,430<br>(50.5) | 3,430<br>(52)   | 3,890<br>(56)                        | 3,400<br>(60.5) | 3,100<br>(63)   |
| 130   | 1,920<br>(41.5)                | 2,370<br>(45)   |                 | 2,850<br>(52)                        | 3,190<br>(56)   | 3,000<br>(58.5) |
| 140   | 1,110<br>(35.5)                | 1,470<br>(38.5) |                 | 1,970<br>(47.5)                      | 2,290<br>(51.5) | 2,570<br>(53.5) |
| 150   |                                |                 |                 | 1,220<br>(42.5)                      | 1,390<br>(46.5) |                 |
| Minimum boom angle<br>(deg.) for indicated length | 34                             | 38              | 45              | 42                                   | 45              | 47              |
| Maximum boom length<br>(ft.) at 0 deg. boom angle |                                | 99              |                 |                                      | 74              |                 |

NOTE: ( ) Boom angles are in degrees.

\* This capacity is based on maximum boom angle.

A6-829-014931

## MODE B



35 - 138 ft.  
(10.8 - 42.0 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



8,500 lbs.  
(3855 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)   | 31 FT. LENGTH (SWINGAWAY BASE) |                 |                 | 56 FT. LENGTH (SWINGAWAY BASE & FLY) |                 |                 |
|--|--------------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|
|  | 1.5°                           | 25°             | 45°             | 1.5°                                 | 25°             | 45°             |
| 35   | 9,500<br>(79.5)                |                 |                 |                                      |                 |                 |
| 40   | 9,500<br>(78)                  |                 |                 | *5,500<br>(80)                       |                 |                 |
| 45   | 9,500<br>(76.5)                | *8,750<br>(80)  |                 | 5,400<br>(79.5)                      |                 |                 |
| 50   | 9,500<br>(75)                  | 7,490<br>(78.5) | *7,800<br>(80)  | 5,300<br>(78)                        |                 |                 |
| 60   | 9,110<br>(71.5)                | 7,060<br>(75)   | 6,740<br>(77)   | 5,100<br>(75.5)                      | *4,640<br>(80)  |                 |
| 70   | 8,450<br>(68.5)                | 6,720<br>(71.5) | 6,460<br>(73.5) | 4,900<br>(72.5)                      | 4,430<br>(78)   | *3,600<br>(80)  |
| 80   | 7,550<br>(64.5)                | 6,330<br>(68)   | 6,350<br>(69.5) | 4,700<br>(69.5)                      | 4,220<br>(74.5) | 3,500<br>(77.5) |
| 90   | 6,200<br>(60.5)                | 6,060<br>(64)   | 6,280<br>(65.5) | 4,500<br>(66.5)                      | 4,120<br>(71)   | 3,400<br>(74)   |
| 100  | 4,530<br>(56.5)                | 5,330<br>(60)   | 5,580<br>(61)   | 4,300<br>(63.5)                      | 3,810<br>(67.5) | 3,300<br>(70.5) |
| 110  | 3,200<br>(52)                  | 3,860<br>(55.5) | 3,970<br>(56.5) | 4,100<br>(59.5)                      | 3,600<br>(64)   | 3,200<br>(67)   |
| 120  | 2,120<br>(47)                  | 2,660<br>(50.5) | 2,660<br>(52)   | 3,120<br>(56)                        | 3,400<br>(60.5) | 3,100<br>(63)   |
| 130  | 1,220<br>(41.5)                | 1,660<br>(45)   |                 | 2,150<br>(52)                        | 2,640<br>(56)   | 3,000<br>(58.5) |
| 140  |                                |                 |                 | 1,320<br>(47.5)                      | 1,640<br>(51.5) | 1,920<br>(53.5) |
| Minimum boom angle (deg.) for indicated length | 39                             | 44              | 45              | 47                                   | 49              | 50              |
| Maximum boom length (ft.) at 0 deg. boom angle |                                | 99              |                 |                                      | 87              |                 |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

## MODE B

A6-829-014543A



35 - 138 ft.  
(10.8 - 42.0 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



5,500 lbs.  
(2495 kg)



100%



360°



85% Domestic (Pounds)

31 FT. LENGTH (SWINGAWAY BASE)

56 FT. LENGTH (SWINGAWAY BASE & FLY)

| (Feet)  | 1.5°            | 25°             | 45°             | 1.5°            | 25°             | 45°             |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 35  | 9,500<br>(79.5) |                 |                 |                 |                 |                 |
| 40  | 9,500<br>(78)   |                 |                 | *5,500<br>(80)  |                 |                 |
| 45  | 9,500<br>(76.5) | *8,750<br>(80)  |                 | 5,400<br>(79.5) |                 |                 |
| 50  | 9,500<br>(75)   | 7,490<br>(78.5) | *7,800<br>(80)  | 5,300<br>(78)   |                 |                 |
| 60  | 9,110<br>(71.5) | 7,060<br>(75)   | 6,740<br>(77)   | 5,100<br>(75.5) | *4,640<br>(80)  |                 |
| 70  | 8,450<br>(68.5) | 6,720<br>(71.5) | 6,460<br>(73.5) | 4,900<br>(72.5) | 4,430<br>(78)   | *3,600<br>(80)  |
| 80  | 7,450<br>(64.5) | 6,330<br>(68)   | 6,350<br>(69.5) | 4,700<br>(69.5) | 4,220<br>(74.5) | 3,500<br>(77.5) |
| 90  | 5,400<br>(60.5) | 6,060<br>(64)   | 6,280<br>(65.5) | 4,500<br>(66.5) | 4,120<br>(71)   | 3,400<br>(74)   |
| 100   | 3,820<br>(56.5) | 4,390<br>(60)   | 4,870<br>(61)   | 4,300<br>(63.5) | 3,810<br>(67.5) | 3,300<br>(70.5) |
| 110   | 2,560<br>(52)   | 2,980<br>(55.5) | 3,330<br>(56.5) | 3,660<br>(59.5) | 3,600<br>(64)   | 3,200<br>(67)   |
| 120   | 1,540<br>(47)   | 1,830<br>(50.5) | 2,080<br>(52)   | 2,540<br>(56)   | 3,250<br>(60.5) | 3,100<br>(63)   |
| 130   |                 |                 |                 | 1,620<br>(52)   | 2,110<br>(56)   | 2,540<br>(58.5) |
| 140   |                 |                 |                 |                 | 1,150<br>(51.5) | 1,430<br>(53.5) |
| Minimum boom angle<br>(deg.) for indicated length | 44              | 44              | 45              | 50              | 51              | 52              |
| Maximum boom length<br>(ft.) at 0 deg. boom angle |                 | 74              |                 |                 | 74              |                 |

NOTE: ( ) Boom angles are in degrees.

\* This capacity is based on maximum boom angle.

## MODE B

A6-829-014545



35 - 138 ft.  
(10.8 - 42.0 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



3,000 lbs.  
(1361 kg)



100%



360°



85% Domestic (Pounds)

31 FT. LENGTH (SWINGAWAY BASE)

56 FT. LENGTH (SWINGAWAY BASE & FLY)

| (Feet)  | 1.5°            | 25°             | 45°             | 1.5°            | 25°             | 45°             |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 35  | 9,500<br>(79.5) |                 |                 |                 |                 |                 |
| 40  | 9,500<br>(78)   |                 |                 | *5,500<br>(80)  |                 |                 |
| 45  | 9,500<br>(76.5) | *8,750<br>(80)  |                 | 5,400<br>(79.5) |                 |                 |
| 50  | 9,500<br>(75)   | 7,490<br>(78.5) | *7,800<br>(80)  | 5,300<br>(78)   |                 |                 |
| 60  | 9,110<br>(71.5) | 7,060<br>(75)   | 6,740<br>(77)   | 5,100<br>(75.5) | *4,640<br>(80)  |                 |
| 70  | 8,450<br>(68.5) | 6,720<br>(71.5) | 6,460<br>(73.5) | 4,900<br>(72.5) | 4,430<br>(78)   | *3,600<br>(80)  |
| 80  | 6,680<br>(64.5) | 6,330<br>(68)   | 6,350<br>(69.5) | 4,700<br>(69.5) | 4,220<br>(74.5) | 3,500<br>(77.5) |
| 90  | 4,730<br>(60.5) | 5,490<br>(64)   | 6,140<br>(65.5) | 4,500<br>(66.5) | 4,120<br>(71)   | 3,400<br>(74)   |
| 100   | 3,230<br>(56.5) | 3,790<br>(60)   | 4,280<br>(61)   | 4,300<br>(63.5) | 3,810<br>(67.5) | 3,300<br>(70.5) |
| 110   | 2,030<br>(52)   | 2,450<br>(55.5) | 2,800<br>(56.5) | 3,130<br>(59.5) | 3,600<br>(64)   | 3,200<br>(67)   |
| 120   | 1,060<br>(47)   | 1,350<br>(50.5) | 1,600<br>(52)   | 2,060<br>(56)   | 2,770<br>(60.5) | 3,100<br>(63)   |
| 130   |                 |                 |                 | 1,170<br>(52)   | 1,670<br>(56)   | 2,100<br>(58.5) |
| 140   |                 |                 |                 |                 |                 | 1,020<br>(53.5) |
| Minimum boom angle<br>(deg.) for indicated length | 47              | 47              | 48              | 52              | 53              | 54              |
| Maximum boom length<br>(ft.) at 0 deg. boom angle |                 | 74              |                 |                 | 61              |                 |

NOTE: ( ) Boom angles are in degrees.

\* This capacity is based on maximum boom angle.

MODE B

A6-829-014547A



35 - 138 ft.  
(10.8 - 42.0 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



0 lbs.  
(0 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)   | 31 FT. LENGTH (SWINGAWAY BASE) |                 |                 | 56 FT. LENGTH (SWINGAWAY BASE & FLY) |                 |                 |
|--|--------------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|
|  | 1.5°                           | 25°             | 45°             | 1.5°                                 | 25°             | 45°             |
| 35   | 9,500<br>(79.5)                |                 |                 |                                      |                 |                 |
| 40   | 9,500<br>(78)                  |                 |                 | *5,500<br>(80)                       |                 |                 |
| 45   | 9,500<br>(76.5)                | *8,750<br>(80)  |                 | 5,400<br>(79.5)                      |                 |                 |
| 50   | 9,500<br>(75)                  | 7,490<br>(78.5) | *7,800<br>(80)  | 5,300<br>(78)                        |                 |                 |
| 60   | 9,110<br>(71.5)                | 7,060<br>(75)   | 6,740<br>(77)   | 5,100<br>(75.5)                      | *4,640<br>(80)  |                 |
| 70   | 8,220<br>(68.5)                | 6,720<br>(71.5) | 6,460<br>(73.5) | 4,900<br>(72.5)                      | 4,430<br>(78)   | *3,600<br>(80)  |
| 80   | 5,760<br>(64.5)                | 6,330<br>(68)   | 6,350<br>(69.5) | 4,700<br>(69.5)                      | 4,220<br>(74.5) | 3,500<br>(77.5) |
| 90   | 3,930<br>(60.5)                | 4,690<br>(64)   | 5,330<br>(65.5) | 4,500<br>(66.5)                      | 4,120<br>(71)   | 3,400<br>(74)   |
| 100  | 2,520<br>(56.5)                | 3,080<br>(60)   | 3,570<br>(61)   | 3,730<br>(63.5)                      | 3,810<br>(67.5) | 3,300<br>(70.5) |
| 110  | 1,390<br>(52)                  | 1,810<br>(55.5) | 2,160<br>(56.5) | 2,490<br>(59.5)                      | 3,450<br>(64)   | 3,200<br>(67)   |
| 120  |                                |                 | 1,020<br>(52)   | 1,480<br>(56)                        | 2,190<br>(60.5) | 2,790<br>(63)   |
| 130  |                                |                 |                 |                                      | 1,140<br>(56)   | 1,570<br>(58.5) |
| Minimum boom angle (deg.) for indicated length | 50                             | 51              | 52              | 55                                   | 55              | 56              |
| Maximum boom length (ft.) at 0 deg. boom angle |                                | 74              |                 |                                      | 61              |                 |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

## MODE B

A6-829-014549A





35 - 125 ft.  
(10.8 - 38.1 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



18,000 lbs.  
(8165 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)   | 31 FT. LENGTH (SWINGAWAY BASE) |                 |                 | 56 FT. LENGTH (SWINGAWAY BASE & FLY) |                 |                 |
|--|--------------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|
|  | 1.5°                           | 25°             | 45°             | 1.5°                                 | 25°             | 45°             |
| 30   | *11,500<br>(80)                |                 |                 |                                      |                 |                 |
| 35   | 11,500<br>(78.5)               |                 |                 |                                      |                 |                 |
| 40   | 11,500<br>(77)                 | *10,000<br>(80) |                 | 6,950<br>(79.5)                      |                 |                 |
| 45   | 11,500<br>(75)                 | 9,300<br>(78.5) | *8,000<br>(80)  | 6,780<br>(78.5)                      |                 |                 |
| 50   | 11,000<br>(73.5)               | 8,790<br>(76.5) | 6,810<br>(78.5) | 6,620<br>(77)                        |                 |                 |
| 60   | 10,050<br>(70)                 | 7,960<br>(72.5) | 6,490<br>(74.5) | 6,290<br>(74)                        | *4,900<br>(80)  |                 |
| 70   | 9,220<br>(66)                  | 7,360<br>(68.5) | 6,400<br>(70.5) | 5,960<br>(71)                        | 4,560<br>(76.5) | *3,700<br>(80)  |
| 80   | 8,440<br>(62)                  | 6,900<br>(64.5) | 6,350<br>(66)   | 5,640<br>(67.5)                      | 4,230<br>(73)   | 3,520<br>(76.5) |
| 90   | 7,340<br>(57.5)                | 6,590<br>(60)   | 6,340<br>(61.5) | 5,260<br>(64.5)                      | 3,870<br>(69.5) | 3,400<br>(72.5) |
| 100  | 6,020<br>(53)                  | 6,250<br>(55)   | 6,320<br>(56.5) | 4,980<br>(60.5)                      | 3,700<br>(65.5) | 3,290<br>(68.5) |
| 110  | 4,510<br>(47.5)                | 5,050<br>(50)   | 5,260<br>(51)   | 4,650<br>(56.5)                      | 3,480<br>(61.5) | 3,190<br>(64)   |
| 120  | 3,280<br>(41.5)                | 3,690<br>(44)   |                 | 4,070<br>(52)                        | 3,290<br>(57.5) | 3,110<br>(59.5) |
| 130  | 2,250<br>(34.5)                | 2,540<br>(36.5) |                 | 3,020<br>(47.5)                      | 3,120<br>(52.5) | 3,040<br>(54)   |
| 140  | 1,380<br>(26)                  |                 |                 | 2,140<br>(42.5)                      | 2,750<br>(47.5) |                 |
| 150  |                                |                 |                 | 1,380<br>(36.5)                      | 1,840<br>(41)   |                 |
| Minimum boom angle (deg.) for indicated length | 24                             | 25              | 45              | 35                                   | 37              | 45              |
| Maximum boom length (ft.) at 0 deg. boom angle |                                | 112             |                 |                                      | 99              |                 |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

## MODE B

A6-829-014930



35 - 125 ft.  
(10.8 - 38.1 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



12,500 lbs.  
(5670 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)  | 31 FT. LENGTH (SWINGAWAY BASE) |                 |                 | 56 FT. LENGTH (SWINGAWAY BASE & FLY) |                 |                 |
|---|--------------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|
|   | 1.5°                           | 25°             | 45°             | 1.5°                                 | 25°             | 45°             |
| 30  | *11,500<br>(80)                |                 |                 |                                      |                 |                 |
| 35  | 11,500<br>(78.5)               |                 |                 |                                      |                 |                 |
| 40  | 11,500<br>(77)                 | *10,000<br>(80) |                 | 6,950<br>(79.5)                      |                 |                 |
| 45  | 11,500<br>(75)                 | 9,300<br>(78.5) | *8,000<br>(80)  | 6,780<br>(78.5)                      |                 |                 |
| 50  | 11,000<br>(73.5)               | 8,790<br>(76.5) | 6,810<br>(78.5) | 6,620<br>(77)                        |                 |                 |
| 60  | 10,050<br>(70)                 | 7,960<br>(72.5) | 6,490<br>(74.5) | 6,290<br>(74)                        | *4,900<br>(80)  |                 |
| 70  | 9,220<br>(66)                  | 7,360<br>(68.5) | 6,400<br>(70.5) | 5,960<br>(71)                        | 4,560<br>(76.5) | *3,700<br>(80)  |
| 80  | 8,440<br>(62)                  | 6,900<br>(64.5) | 6,350<br>(66)   | 5,640<br>(67.5)                      | 4,230<br>(73)   | 3,520<br>(76.5) |
| 90  | 6,850<br>(57.5)                | 6,590<br>(60)   | 6,340<br>(61.5) | 5,260<br>(64.5)                      | 3,870<br>(69.5) | 3,400<br>(72.5) |
| 100   | 5,090<br>(53)                  | 5,490<br>(55)   | 6,060<br>(56.5) | 4,980<br>(60.5)                      | 3,700<br>(65.5) | 3,290<br>(68.5) |
| 110   | 3,690<br>(47.5)                | 3,940<br>(50)   | 4,310<br>(51)   | 4,650<br>(56.5)                      | 3,480<br>(61.5) | 3,190<br>(64)   |
| 120   | 2,540<br>(41.5)                | 2,670<br>(44)   |                 | 3,620<br>(52)                        | 3,290<br>(57.5) | 3,110<br>(59.5) |
| 130   | 1,600<br>(34.5)                | 1,620<br>(36.5) |                 | 2,620<br>(47.5)                      | 3,110<br>(52.5) | 3,040<br>(54)   |
| 140   |                                |                 |                 | 1,770<br>(42.5)                      | 2,130<br>(47.5) |                 |
| 150   |                                |                 |                 | 1,050<br>(36.5)                      | 1,290<br>(41)   |                 |
| Minimum boom angle<br>(deg.) for indicated length | 33                             | 33              | 45              | 36                                   | 40              | 46              |
| Maximum boom length<br>(ft.) at 0 deg. boom angle |                                | 99              |                 |                                      | 74              |                 |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

## MODE B

A6-829-014932



35 - 125 ft.  
(10.8 - 38.1 m)



31 - 56 ft.  
(9.4 - 17 m)  
FOLDING



8,500 lbs.  
(3855 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)  | 31 FT. LENGTH (SWINGAWAY BASE) |                 |                 | 56 FT. LENGTH (SWINGAWAY BASE & FLY) |                 |                 |
|---|--------------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|
|   | 1.5°                           | 25°             | 45°             | 1.5°                                 | 25°             | 45°             |
| 30  | *11,500<br>(80)                |                 |                 |                                      |                 |                 |
| 35  | 11,500<br>(78.5)               |                 |                 |                                      |                 |                 |
| 40  | 11,500<br>(77)                 | *10,000<br>(80) |                 | 6,950<br>(79.5)                      |                 |                 |
| 45  | 11,500<br>(75)                 | 9,300<br>(78.5) | *8,000<br>(80)  | 6,780<br>(78.5)                      |                 |                 |
| 50  | 11,000<br>(73.5)               | 8,790<br>(76.5) | 6,810<br>(78.5) | 6,620<br>(77)                        |                 |                 |
| 60  | 10,050<br>(70)                 | 7,960<br>(72.5) | 6,490<br>(74.5) | 6,290<br>(74)                        | *4,900<br>(80)  |                 |
| 70  | 9,220<br>(66)                  | 7,360<br>(68.5) | 6,400<br>(70.5) | 5,960<br>(71)                        | 4,560<br>(76.5) | *3,700<br>(80)  |
| 80  | 7,910<br>(62)                  | 6,900<br>(64.5) | 6,350<br>(66)   | 5,640<br>(67.5)                      | 4,230<br>(73)   | 3,520<br>(76.5) |
| 90  | 5,790<br>(57.5)                | 6,380<br>(60)   | 6,340<br>(61.5) | 5,260<br>(64.5)                      | 3,870<br>(69.5) | 3,400<br>(72.5) |
| 100   | 4,140<br>(53)                  | 4,550<br>(55)   | 5,110<br>(56.5) | 4,980<br>(60.5)                      | 3,700<br>(65.5) | 3,290<br>(68.5) |
| 110   | 2,840<br>(47.5)                | 3,090<br>(50)   | 3,460<br>(51)   | 4,060<br>(56.5)                      | 3,480<br>(61.5) | 3,190<br>(64)   |
| 120   | 1,770<br>(41.5)                | 1,900<br>(44)   |                 | 2,860<br>(52)                        | 3,290<br>(57.5) | 3,110<br>(59.5) |
| 130   |                                |                 |                 | 1,860<br>(47.5)                      | 2,380<br>(52.5) | 2,830<br>(54)   |
| 140   |                                |                 |                 | 1,020<br>(42.5)                      | 1,430<br>(47.5) |                 |
| Minimum boom angle<br>(deg.) for indicated length | 37                             | 39              | 46              | 42                                   | 46              | 47              |
| Maximum boom length<br>(ft.) at 0 deg. boom angle |                                | 99              |                 |                                      | 87              |                 |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

## MODE B

A6-829-014542



35 - 138 ft.  
(10.8 - 42.0 m)



8,500 lbs.  
(3855 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

|     | 35                 | 61               | 74               | 87               | 99               | 112              | 138              |
|-----|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10  | +140,000<br>(65.5) | 42,900<br>(77.5) | *32,100<br>(80)  |                  |                  |                  |                  |
| 12  | 110,000<br>(62)    | 42,000<br>(75.5) | 32,100<br>(78.5) | *31,850<br>(80)  |                  |                  |                  |
| 15  | 95,800<br>(56)     | 36,550<br>(72.5) | 32,100<br>(76)   | 31,850<br>(78.5) | *21,350<br>(80)  |                  |                  |
| 20  | 70,700<br>(44.5)   | 29,400<br>(67.5) | 31,350<br>(71.5) | 28,850<br>(75)   | 21,350<br>(77.5) | 19,000<br>(79.5) |                  |
| 25  | 53,150<br>(29.5)   | 24,350<br>(62)   | 26,450<br>(67.5) | 25,050<br>(71.5) | 20,850<br>(74.5) | 18,150<br>(77)   | *19,000<br>(80)  |
| 30  |                    | 20,500<br>(56.5) | 22,300<br>(63)   | 21,550<br>(68)   | 18,650<br>(71.5) | 17,300<br>(74.5) | 18,300<br>(78.5) |
| 35  |                    | 17,450<br>(50)   | 19,100<br>(58.5) | 18,500<br>(64)   | 16,900<br>(68.5) | 16,450<br>(71.5) | 17,650<br>(76.5) |
| 40  |                    | 15,050<br>(43)   | 16,500<br>(53.5) | 16,000<br>(60)   | 15,300<br>(65)   | 15,650<br>(69)   | 17,000<br>(74)   |
| 45  |                    | 13,100<br>(35)   | 14,450<br>(48.5) | 14,000<br>(56)   | 13,650<br>(61.5) | 14,150<br>(66)   | 16,350<br>(72)   |
| 50  |                    | 11,450<br>(24.5) | 12,750<br>(42.5) | 12,350<br>(52)   | 12,100<br>(58.5) | 12,700<br>(63)   | 15,700<br>(69.5) |
| 60  |                    |                  | 10,050<br>(28)   | 9,780<br>(42.5)  | 9,580<br>(51)    | 10,150<br>(57)   | 13,300<br>(65)   |
| 70  |                    |                  |                  | 7,860<br>(30)    | 7,710<br>(42.5)  | 8,220<br>(50)    | 10,200<br>(60)   |
| 80  |                    |                  |                  |                  | 6,270<br>(32)    | 6,730<br>(42.5)  | 7,430<br>(55)    |
| 90  |                    |                  |                  |                  | 4,800<br>(15.5)  | 5,550<br>(33.5)  | 5,370<br>(49.5)  |
| 100 |                    |                  |                  |                  |                  | 4,010<br>(21)    | 3,770<br>(43)    |
| 110 |                    |                  |                  |                  |                  |                  | 2,510<br>(36)    |
| 120 |                    |                  |                  |                  |                  |                  | 1,480<br>(27)    |

Minimum boom angle (deg.) for indicated length (no load)

0 10

Maximum boom length (ft.) at 0 degree boom angle (no load)

112

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 61               | 74              | 87              | 99              | 112            |
|------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|
| 0          | 26,400<br>(28.2) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,420<br>(79.4) | 2,440<br>(92.2) | 1,680<br>(105) |

NOTE: ( ) Reference radii are in feet.

A6-829-014468A



## MODE A

|    | T1 | T2  | T3  | T4  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|
| T1 | 0  | 0   | 0   | 0   | 0   | 0   | 100 |
| T2 | 0  | 100 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0  | 0   | 25  | 50  | 75  | 100 | 100 |
| T4 | 0  | 0   | 25  | 50  | 75  | 100 | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.

  
35 - 138 ft.  
(10.8 - 42.0 m)

  
5,500 lbs.  
(2495 kg)

  
100%

  
360°

  
(Feet)

 85% Domestic (Pounds)

| (Feet)   | 35                 | 61               | 74               | 87               | 99               | 112              | 138              |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10   | +140,000<br>(65.5) | 42,900<br>(77.5) | *32,100<br>(80)  |                  |                  |                  |                  |
| 12   | 110,000<br>(62)    | 42,000<br>(75.5) | 32,100<br>(78.5) | *31,850<br>(80)  |                  |                  |                  |
| 15   | 95,800<br>(56)     | 36,550<br>(72.5) | 32,100<br>(76)   | 31,850<br>(78.5) | *21,350<br>(80)  |                  |                  |
| 20   | 68,550<br>(44.5)   | 29,400<br>(67.5) | 31,350<br>(71.5) | 28,850<br>(75)   | 21,350<br>(77.5) | 19,000<br>(79.5) |                  |
| 25   | 51,450<br>(29.5)   | 24,350<br>(62)   | 26,450<br>(67.5) | 25,050<br>(71.5) | 20,850<br>(74.5) | 18,150<br>(77)   | *19,000<br>(80)  |
| 30   |                    | 20,500<br>(56.5) | 22,300<br>(63)   | 21,550<br>(68)   | 18,650<br>(71.5) | 17,300<br>(74.5) | 18,300<br>(78.5) |
| 35   |                    | 17,450<br>(50)   | 19,100<br>(58.5) | 18,500<br>(64)   | 16,900<br>(68.5) | 16,450<br>(71.5) | 17,650<br>(76.5) |
| 40   |                    | 15,050<br>(43)   | 16,500<br>(53.5) | 16,000<br>(60)   | 15,300<br>(65)   | 15,650<br>(69)   | 17,000<br>(74)   |
| 45   |                    | 13,100<br>(35)   | 14,450<br>(48.5) | 14,000<br>(56)   | 13,650<br>(61.5) | 14,150<br>(66)   | 16,350<br>(72)   |
| 50   |                    | 11,450<br>(24.5) | 12,750<br>(42.5) | 12,350<br>(52)   | 12,100<br>(58.5) | 12,700<br>(63)   | 15,700<br>(69.5) |
| 60   |                    |                  | 10,050<br>(28)   | 9,780<br>(42.5)  | 9,580<br>(51)    | 10,150<br>(57)   | 12,800<br>(65)   |
| 70   |                    |                  |                  | 7,830<br>(30)    | 7,710<br>(42.5)  | 8,220<br>(50)    | 9,120<br>(60)    |
| 80   |                    |                  |                  |                  | 6,270<br>(32)    | 6,730<br>(42.5)  | 6,510<br>(55)    |
| 90   |                    |                  |                  |                  | 4,040<br>(15.5)  | 5,110<br>(33.5)  | 4,560<br>(49.5)  |
| 100  |                    |                  |                  |                  |                  | 3,340<br>(21)    | 3,060<br>(43)    |
| 110  |                    |                  |                  |                  |                  |                  | 1,870<br>(36)    |
| Minimum boom angle (deg.) for indicated length (no load)   |                    |                  |                  |                  |                  | 0                | 33               |
| Maximum boom length (ft.) at 0 degree boom angle (no load) |                    |                  |                  |                  |                  | 112              |                  |

NOTE: ( ) Boom angles are in degrees.

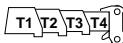
\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 61               | 74              | 87              | 99              | 112            |
|------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|
| 0          | 26,400<br>(28.2) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,420<br>(79.4) | 2,440<br>(92.2) | 1,680<br>(105) |

NOTE: ( ) Reference radii are in feet.

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 %

### MODE A

|    |   |     |     |     |     |     |     |
|----|---|-----|-----|-----|-----|-----|-----|
| T1 | 0 | 0   | 0   | 0   | 0   | 0   | 100 |
| T2 | 0 | 100 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0 | 0   | 25  | 50  | 75  | 100 | 100 |
| T4 | 0 | 0   | 25  | 50  | 75  | 100 | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



3,000 lbs.  
(1361 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

|  | 35                 | 61               | 74               | 87               | 99               | 112              | 138              |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10   | +140,000<br>(65.5) | 42,900<br>(77.5) | *32,100<br>(80)  |                  |                  |                  |                  |
| 12   | 110,000<br>(62)    | 42,000<br>(75.5) | 32,100<br>(78.5) | *31,850<br>(80)  |                  |                  |                  |
| 15   | 95,350<br>(56)     | 36,550<br>(72.5) | 32,100<br>(76)   | 31,850<br>(78.5) | *21,350<br>(80)  |                  |                  |
| 20   | 66,750<br>(44.5)   | 29,400<br>(67.5) | 31,350<br>(71.5) | 28,850<br>(75)   | 21,350<br>(77.5) | 19,000<br>(79.5) |                  |
| 25   | 50,050<br>(29.5)   | 24,350<br>(62)   | 26,450<br>(67.5) | 25,050<br>(71.5) | 20,850<br>(74.5) | 18,150<br>(77)   | *19,000<br>(80)  |
| 30   |                    | 20,500<br>(56.5) | 22,300<br>(63)   | 21,550<br>(68)   | 18,650<br>(71.5) | 17,300<br>(74.5) | 18,300<br>(78.5) |
| 35   |                    | 17,450<br>(50)   | 19,100<br>(58.5) | 18,500<br>(64)   | 16,900<br>(68.5) | 16,450<br>(71.5) | 17,650<br>(76.5) |
| 40   |                    | 15,050<br>(43)   | 16,500<br>(53.5) | 16,000<br>(60)   | 15,300<br>(65)   | 15,650<br>(69)   | 17,000<br>(74)   |
| 45   |                    | 13,100<br>(35)   | 14,450<br>(48.5) | 14,000<br>(56)   | 13,650<br>(61.5) | 14,150<br>(66)   | 16,350<br>(72)   |
| 50   |                    | 11,450<br>(24.5) | 12,750<br>(42.5) | 12,350<br>(52)   | 12,100<br>(58.5) | 12,700<br>(63)   | 15,700<br>(69.5) |
| 60   |                    |                  | 10,050<br>(28)   | 9,780<br>(42.5)  | 9,580<br>(51)    | 10,150<br>(57)   | 11,700<br>(65)   |
| 70   |                    |                  |                  | 6,990<br>(30)    | 7,710<br>(42.5)  | 8,220<br>(50)    | 8,220<br>(60)    |
| 80   |                    |                  |                  |                  | 5,580<br>(32)    | 6,660<br>(42.5)  | 5,740<br>(55)    |
| 90   |                    |                  |                  |                  | 3,410<br>(15.5)  | 4,480<br>(33.5)  | 3,900<br>(49.5)  |
| 100  |                    |                  |                  |                  |                  | 2,770<br>(21)    | 2,470<br>(43)    |
| 110  |                    |                  |                  |                  |                  |                  | 1,340<br>(36)    |
| Minimum boom angle (deg.) for indicated length (no load)   |                    |                  |                  |                  |                  | 0                | 35               |
| Maximum boom length (ft.) at 0 degree boom angle (no load) |                    |                  |                  |                  |                  |                  | 112              |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

| Boom Angle | 35               | 61               | 74              | 87              | 99              | 112            |
|------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|
| 0          | 26,400<br>(28.2) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,420<br>(79.4) | 2,440<br>(92.2) | 1,680<br>(105) |

NOTE: ( ) Reference radii are in feet.

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MODE A

|    | T1 | T2  | T3  | T4  | %   |
|----|----|-----|-----|-----|-----|
| T1 | 0  | 0   | 0   | 0   | 100 |
| T2 | 0  | 100 | 100 | 100 | 100 |
| T3 | 0  | 0   | 25  | 50  | 100 |
| T4 | 0  | 0   | 25  | 50  | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft.  
(10.8 - 42.0 m)



0 lbs.  
(0 kg)



100%



360°



(Feet)



85% Domestic (Pounds)

|  | 35                | 61               | 74               | 87               | 99               | 112              | 138              |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10   | 139,500<br>(65.5) | 42,900<br>(77.5) | *32,100<br>(80)  |                  |                  |                  |                  |
| 12   | 110,000<br>(62)   | 42,000<br>(75.5) | 32,100<br>(78.5) | *31,850<br>(80)  |                  |                  |                  |
| 15   | 92,450<br>(56)    | 36,550<br>(72.5) | 32,100<br>(76)   | 31,850<br>(78.5) | *21,350<br>(80)  |                  |                  |
| 20   | 64,600<br>(44.5)  | 29,400<br>(67.5) | 31,350<br>(71.5) | 28,850<br>(75)   | 21,350<br>(77.5) | 19,000<br>(79.5) |                  |
| 25   | 48,350<br>(29.5)  | 24,350<br>(62)   | 26,450<br>(67.5) | 25,050<br>(71.5) | 20,850<br>(74.5) | 18,150<br>(77)   | *19,000<br>(80)  |
| 30   |                   | 20,500<br>(56.5) | 22,300<br>(63)   | 21,550<br>(68)   | 18,650<br>(71.5) | 17,300<br>(74.5) | 18,300<br>(78.5) |
| 35   |                   | 17,450<br>(50)   | 19,100<br>(58.5) | 18,500<br>(64)   | 16,900<br>(68.5) | 16,450<br>(71.5) | 17,650<br>(76.5) |
| 40   |                   | 15,050<br>(43)   | 16,500<br>(53.5) | 16,000<br>(60)   | 15,300<br>(65)   | 15,650<br>(69)   | 17,000<br>(74)   |
| 45   |                   | 13,100<br>(35)   | 14,450<br>(48.5) | 14,000<br>(56)   | 13,650<br>(61.5) | 14,150<br>(66)   | 16,350<br>(72)   |
| 50   |                   | 11,450<br>(24.5) | 12,750<br>(42.5) | 12,350<br>(52)   | 12,100<br>(58.5) | 12,700<br>(63)   | 15,450<br>(69.5) |
| 60   |                   |                  | 9,160<br>(28)    | 9,710<br>(42.5)  | 9,580<br>(51)    | 10,150<br>(57)   | 10,400<br>(65)   |
| 70   |                   |                  |                  | 5,990<br>(30)    | 7,430<br>(42.5)  | 8,220<br>(50)    | 7,140<br>(60)    |
| 80   |                   |                  |                  |                  | 4,720<br>(32)    | 5,790<br>(42.5)  | 4,820<br>(55)    |
| 90   |                   |                  |                  |                  | 2,550<br>(15.5)  | 3,700<br>(33.5)  | 3,100<br>(49.5)  |
| 100  |                   |                  |                  |                  |                  | 1,990<br>(21)    | 1,760<br>(43)    |
| Minimum boom angle (deg.) for indicated length (no load)   |                   |                  |                  |                  |                  | 0                | 40               |
| Maximum boom length (ft.) at 0 degree boom angle (no load) |                   |                  |                  |                  |                  | 112              |                  |

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based on maximum boom angle.

| Boom Angle | 35               | 61               | 74              | 87              | 99              | 112            |
|------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|
| 0          | 26,400<br>(28.2) | 10,150<br>(53.8) | 6,240<br>(66.6) | 3,330<br>(79.4) | 2,130<br>(92.2) | 1,260<br>(105) |

NOTE: ( ) Reference radii are in feet.

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### MODE A

|    | T1 | T2  | T3  | T4  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|
| T1 | 0  | 0   | 0   | 0   | 0   | 0   | 100 |
| T2 | 0  | 100 | 100 | 100 | 100 | 100 | 100 |
| T3 | 0  | 0   | 25  | 50  | 75  | 100 | 100 |
| T4 | 0  | 0   | 25  | 50  | 75  | 100 | 100 |

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.

## TMS870 5 SECTION BOOM .....

### Machine equipped as follows:

- 138 ft. full power 5 section boom
- 31 - 56 ft. (9.4 - 17 m) folding swingaway
- Main and auxiliary hoist w/rope
- Auxiliary boom nose
- Full fuel and hydraulics
- 445/65R22.5 front tires
- 315/80R22.5 rear tires
- 45 ton hook block (on carrier deck)
- 10 ton ball (on carrier deck)
- Counterweight configuration-see chart

| AXLE/TIRE CAPACITY | FRONT<br>49,200 lbs.<br>(22 317 kg) | REAR<br>60,000 lbs.<br>(27 216 kg) | GVW<br>109,200 lbs.<br>(49 533 kg) |
|--------------------|-------------------------------------|------------------------------------|------------------------------------|
|--------------------|-------------------------------------|------------------------------------|------------------------------------|

Counterweight placement effects:

|  |                            |                            |                            |
|--|----------------------------|----------------------------|----------------------------|
| 8,500 lbs. (3856 kg) cwt.<br>on superstructure                 | 37,739 lbs.<br>(17 118 kg) | 58,701 lbs.<br>(26 627 kg) | 96,440 lbs.<br>(43 745 kg) |
| 8,500 lbs. (3856 kg) cwt.<br>on carrier                        | 49,234 lbs.<br>(22 333 kg) | 47,206 lbs.<br>(21 413 kg) | 96,440 lbs.<br>(43 745 kg) |
| 3,000 lbs. (1361 kg) on S/S<br>5,500 lbs. (2495 kg) on carrier | 45,177 lbs.<br>(20 492 kg) | 51,263 lbs.<br>(23 253 kg) | 96,440 lbs.<br>(43 745 kg) |
| 5,500 lbs. (2495 kg) on S/S<br>3,000 lbs. (1361 kg) on carrier | 41,796 lbs.<br>(18 959 kg) | 54,644 lbs.<br>(24 787 kg) | 96,440 lbs.<br>(43 745 kg) |
| 5,500 lbs. (2495 kg) ONLY<br>on superstructure                 | 39,092 lbs.<br>(17 732 kg) | 54,348 lbs.<br>(24 652 kg) | 93,440 lbs.<br>(42 384 kg) |
| 5,500 lbs. (2495 kg) ONLY<br>on carrier                        | 46,530 lbs.<br>(21 106 kg) | 46,910 lbs.<br>(21 278 kg) | 93,440 lbs.<br>(42 384 kg) |
| No cwt. on carrier<br>or superstructure                        | 41,572 lbs.<br>(18 857 kg) | 46,368 lbs.<br>(21 033 kg) | 87,940 lbs.<br>(39 890 kg) |

## TTS870 5 SECTION BOOM .....

### Machine equipped as follows:

- 138 ft. full power 5 section boom
- 31 - 56 ft. (9.4 - 17 m) folding swingaway
- Main and auxiliary hoist w/rope
- Auxiliary boom nose
- Full fuel and hydraulics
- 445/65R22.5 front and single rear tires
- 45 ton hook block (on carrier deck)
- 10 ton ball (on carrier deck)
- Counterweight configuration-see chart

| AXLE/TIRE CAPACITY | FRONT<br>49,200 lbs.<br>(22 317 kg) | REAR<br>49,200 lbs.<br>(22 317 kg) | GVW<br>98,400 lbs.<br>(44 634 kg) |
|--------------------|-------------------------------------|------------------------------------|-----------------------------------|
|--------------------|-------------------------------------|------------------------------------|-----------------------------------|

Counterweight placement effects:

|   |                            |                            |                            |
|---|----------------------------|----------------------------|----------------------------|
| 8,500 lbs. (3856 kg) cwt.<br>on carrier | 49,031 lbs.<br>(22 240 kg) | 47,665 lbs.<br>(21 621 kg) | 96,696 lbs.<br>(43 861 kg) |
| 5,500 lbs. (2495 kg) ONLY<br>on carrier | 46,327 lbs.<br>(21 014 kg) | 47,369 lbs.<br>(21 487 kg) | 93,696 lbs.<br>(42 501 kg) |
| No cwt. on carrier<br>or superstructure | 41,369 lbs.<br>(18 765 kg) | 46,827 lbs.<br>(21 241 kg) | 88,196 lbs.<br>(40 006 kg) |

**Note:** Weights will vary due to manufacturing tolerances.







































# 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 have been tested to and meet minimum requirements of SAEJ1063 NOV93 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers fully extended as determined by SAEJ765 OCT90 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. Capacities appearing above the bold line are based on structural strength. Tipping should never be relied upon as a capacity limitation.
4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
6. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising 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 |
|  | Jib                |  | Hoist            |
|  | Boom Nose          |  | Radius           |
|  | Boom Extension     |  | Boom Length      |
|  | Speed              |  | Hookblock        |
|  | Grade              |  | Gear             |
|  | Lattice Extension  |  | Luffing Jib      |