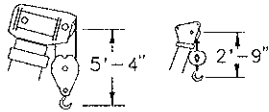


TEREX RT 450

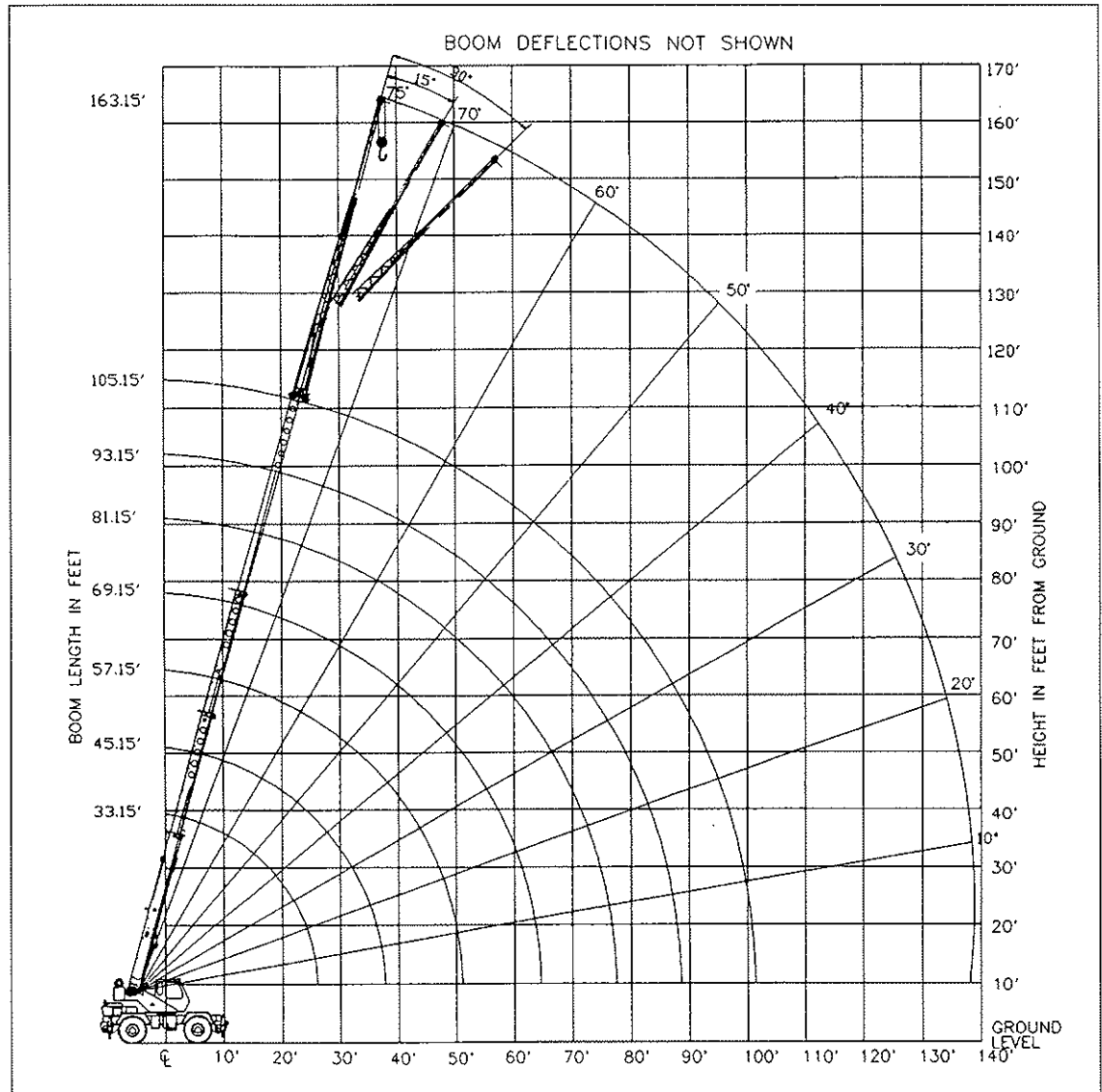
rough terrain crane
50 ton capacity

range diagram & lifting capacities

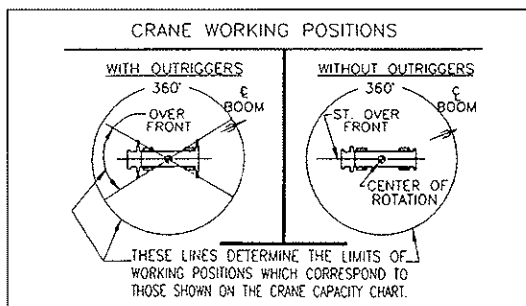


DIMENSIONS ARE FOR
LARGEST FACTORY
FURNISHED HOOK BLOCK
AND HOOK & BALL,
WITH ANTI-TWO BLOCK
ACTIVATED

Range
Diagram
(33' - 105' boom)



CRANE WORKING CONDITIONS



REDUCTION IN MAIN BOOM CAPACITY

| | |
|-----------------------------|----------|
| All Jibs in Stowed Position | 0 Lbs. |
| Aux. Boom in Head Sheave | 100 Lbs. |

HOOK BLOCK WEIGHTS

| | |
|-----------------------|----------|
| Hook & Ball | 239 Lbs. |
| Hook Block (4 Sheave) | 690 Lbs. |
| Hook Block (5 Sheave) | 888 Lbs. |
| Hook Block (6 Sheave) | 913 Lbs. |

Lifting Capacities – Pounds (33' – 105' boom)

MODEL RT 450

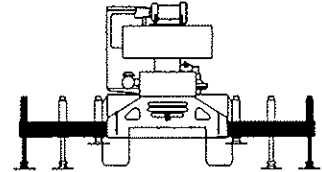
COUNTERWEIGHT:
W/AUX. WINCH 13,100 LBS.
W/O AUX. WINCH 14,200 LBS.
BOOM LENGTH 33-105 FT.
OUTRIGGER SPREAD 22 FT.

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-176

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - FULLY EXTENDED

| LOAD RADIUS (FT) | BOOM LENGTH 33.15 FT | | | BOOM LENGTH 45.15 FT | | | BOOM LENGTH 57.15 FT | | | LOAD RADIUS (FT) |
|------------------|----------------------|------------------------|-----------|----------------------|------------------------|-----------|----------------------|------------------------|-----------|------------------|
| | BOOM ANGLE (DEG) | LOADED OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) | LOADED OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) | LOADED OVER FRONT (LB) | 360° (LB) | |
| 10 | 65.3 | 100,000* | 100,000* | 72.2 | 75,100* | 75,100* | | | | 10 |
| 12 | 61.5 | 76,200* | 76,200* | 69.5 | 73,100* | 73,100* | 73.9 | 59,700* | 59,700* | 12 |
| 15 | 55.4 | 64,300* | 62,500* | 65.4 | 61,800* | 61,800* | 70.8 | 55,100* | 55,100* | 15 |
| 20 | 44.0 | 46,300* | 44,300* | 58.1 | 47,200* | 45,200* | 65.4 | 47,700* | 45,700* | 20 |
| 25 | 29.6 | 34,800* | 33,300* | 50.3 | 35,800* | 34,300* | 59.7 | 36,300* | 34,800* | 25 |
| 30 | ** | | | 41.5 | 28,100* | 27,000* | 53.7 | 28,700* | 27,500* | 30 |
| 35 | | | | 30.7 | 22,700* | 21,700* | 47.2 | 23,200* | 22,300* | 35 |
| 40 | | | | 13.9 | 18,500* | 17,700* | 39.9 | 19,100* | 18,300* | 40 |
| 45 | | | | ** | | | 31.3 | 15,900* | 15,200* | 45 |
| 50 | | | | | | | 19.6 | 13,300* | 12,700* | 50 |
| 55 | | | | | | | ** | | | 55 |
| 60 | | | | | | | | | | 60 |
| 65 | | | | | | | | | | 65 |
| 70 | | | | | | | | | | 70 |
| 75 | | | | | | | | | | 75 |
| 80 | | | | | | | | | | 80 |
| 85 | | | | | | | | | | 85 |
| 90 | | | | | | | | | | 90 |
| 95 | | | | | | | | | | 95 |
| 100 | | | | | | | | | | 100 |



**USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS
ARE FULLY EXTENDED**

ON OUTRIGGERS - FULLY EXTENDED

| LOAD RADIUS (FT) | BOOM LENGTH 69.15 FT | | | BOOM LENGTH 81.15 FT | | | BOOM LENGTH 93.15 FT | | | BOOM LENGTH 105.15 FT | | | LOAD RADIUS (FT) |
|------------------|-------------------------|----------------|-----------|-------------------------|----------------|-----------|-------------------------|----------------|-----------|-------------------------|----------------|-----------|------------------|
| | LOADED BOOM ANGLE (DEG) | OVER REAR (LB) | 360° (LB) | LOADED BOOM ANGLE (DEG) | OVER REAR (LB) | 360° (LB) | LOADED BOOM ANGLE (DEG) | OVER REAR (LB) | 360° (LB) | LOADED BOOM ANGLE (DEG) | OVER REAR (LB) | 360° (LB) | |
| 10 | | | | | | | | | | | | | 10 |
| 12 | | | | | | | | | | | | | 12 |
| 15 | 74.2 | 44,000* | 44,000* | | | | | | | | | | 15 |
| 20 | 69.8 | 36,200* | 36,200* | 72.9 | 33,500* | 33,500* | | | | | | | 20 |
| 25 | 65.4 | 30,400* | 30,400* | 69.2 | 28,400* | 28,400* | 72.0 | 22,200* | 22,200* | | | | 25 |
| 30 | 60.7 | 26,100* | 26,100* | 65.4 | 24,300* | 24,300* | 68.7 | 19,000* | 19,000* | 71.2 | 15,100* | 15,100* | 30 |
| 35 | 55.8 | 22,800* | 22,800* | 61.4 | 21,100* | 21,100* | 65.4 | 16,300* | 16,300* | 68.3 | 13,400* | 13,400* | 35 |
| 40 | 50.7 | 19,500* | 18,700* | 57.3 | 18,700* | 18,700* | 61.9 | 14,300* | 14,300* | 65.4 | 12,000* | 12,000* | 40 |
| 45 | 45.1 | 16,300* | 15,600* | 53.0 | 16,500* | 15,800* | 58.4 | 12,400* | 12,400* | 62.3 | 10,800* | 10,800* | 45 |
| 50 | 38.9 | 13,800* | 13,100* | 48.4 | 14,000* | 13,400* | 54.7 | 10,900* | 10,900* | 59.2 | 9,600* | 9,600* | 50 |
| 55 | 31.7 | 11,500* | 10,900* | 43.5 | 11,700* | 11,000* | 50.8 | 9,700* | 9,700* | 56.0 | 8,600* | 8,600* | 55 |
| 60 | 22.6 | 9,500* | 8,900* | 38.1 | 9,700* | 9,100* | 46.7 | 8,700* | 8,700* | 52.6 | 7,600* | 7,600* | 60 |
| 65 | | | | 32.0 | 8,100* | 7,600* | 42.4 | 7,800* | 7,700* | 49.1 | 6,700* | 6,700* | 65 |
| 70 | | | | 24.5 | 6,700* | 6,200* | 37.6 | 6,900* | 6,400* | 45.4 | 6,000* | 6,000* | 70 |
| 75 | | | | 13.7 | 5,500* | 5,100* | 32.2 | 5,700* | 5,300* | 41.4 | 5,300* | 5,300* | 75 |
| 80 | | | | ** | | | 25.8 | 4,800* | 4,400* | 37.1 | 4,700* | 4,500* | 80 |
| 85 | | | | | | | 17.5 | 3,900* | 3,500* | 32.3 | 4,000* | 3,700* | 85 |
| 90 | | | | | | | ** | | | 26.8 | 3,300* | 2,900* | 90 |
| 95 | | | | | | | | | | 20.0 | 2,600* | 2,300* | 95 |
| 100 | | | | | | | | | | 9.1 | 2,000* | 1,700* | 100 |

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 33.15 FT | | | BOOM LENGTH 45.15 FT | | | BOOM LENGTH 57.15 FT | | | BOOM LENGTH 69.15 FT | | | BOOM LENGTH 81.15 FT | | | BOOM LENGTH 93.15 FT | | | BOOM LENGTH 105.15 FT | | |
|----------------------|-----------------|-----------|----------------------|-----------------|-----------|----------------------|-----------------|-----------|----------------------|-----------------|-----------|----------------------|-----------------|-----------|----------------------|-----------------|-----------|-----------------------|-----------------|-----------|
| LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) |
| 29.3 | 17,100* | 17,100* | 41.3 | 10,700* | 10,700* | 53.3 | 6,900* | 6,900* | 65.3 | 4,500* | 4,500* | 77.3 | 2,700* | 2,700* | 89.3 | 1,500* | 1,500* | 101.3 | 500* | 500* |

Lifting Capacities – Pounds (33’ – 105’ boom)

MODEL RT 450

COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS.
 W/O AUX. WINCH 14,200 LBS.
 BOOM LENGTH 33-105 FT.
 OUTRIGGER SPREAD 22 FT.

STABILITY PCT. ON OUTRIGGERS 85%
 ON TIRES 75%
 PCSA CLASS 10-176

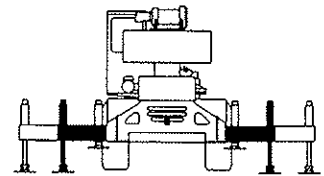
CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - MID POSITION

| LOAD RADIUS (FT) | BOOM LENGTH 33.15 FT | | BOOM LENGTH 45.15 FT | | BOOM LENGTH 57.15 FT | | BOOM LENGTH 69.15 FT | | BOOM LENGTH 81.15 FT | | BOOM LENGTH 93.15 FT | | BOOM LENGTH 105.15 FT | | LOAD RADIUS (FT) |
|------------------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|------------------|
| | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | |
| 10 | 65.3 | 87,000* | 72.2 | 75,100* | | | | | | | | | | | 10 |
| 12 | 61.5 | 70,900* | 69.5 | 71,800* | 73.9 | 59,700* | | | | | | | | | 12 |
| 15 | 55.4 | 54,800* | 65.4 | 55,700* | 70.8 | 55,100* | 74.2 | 44,000* | | | | | | | 15 |
| 20 | 44.0 | 38,600* | 58.1 | 39,500* | 65.4 | 39,900* | 69.8 | 36,200* | 72.9 | 33,500* | | | | | 20 |
| 25 | 29.6 | 25,300 | 50.3 | 26,400 | 59.7 | 26,700 | 65.4 | 26,900 | 69.2 | 27,000 | 72.0 | 22,200* | | | 25 |
| 30 | ** | | 41.5 | 18,600 | 53.7 | 19,000 | 60.7 | 19,200 | 65.4 | 19,300 | 68.7 | 19,000* | 71.2 | 15,100* | 30 |
| 35 | | | 30.7 | 13,500 | 47.2 | 14,000 | 55.8 | 14,200 | 61.4 | 14,400 | 65.4 | 14,400 | 68.3 | 13,400* | 35 |
| 40 | | | 13.9 | 9,800 | 39.9 | 10,600 | 50.7 | 10,800 | 57.3 | 10,900 | 61.9 | 11,000 | 65.4 | 11,100 | 40 |
| 45 | | | ** | | 31.3 | 8,000 | 45.1 | 8,300 | 53.0 | 8,500 | 58.4 | 8,500 | 62.3 | 8,600 | 45 |
| 50 | | | | | 19.6 | 5,900 | 38.9 | 6,300 | 48.4 | 6,600 | 54.7 | 6,600 | 59.2 | 6,700 | 50 |
| 55 | | | | | ** | | 31.7 | 4,800 | 43.5 | 5,000 | 50.8 | 5,100 | 56.0 | 5,200 | 55 |
| 60 | | | | | | | 22.6 | 3,500 | 38.1 | 3,800 | 46.7 | 3,900 | 52.6 | 4,000 | 60 |
| 65 | | | | | | | ** | | 32.0 | 2,700 | 42.4 | 2,900 | 49.1 | 3,000 | 65 |
| 70 | | | | | | | | | 24.5 | 1,800 | 37.6 | 2,000 | 45.4 | 2,100 | 70 |
| 75 | | | | | | | | | | | 32.2 | 1,300 | 41.4 | 1,400 | 75 |

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 33.15 FT | | BOOM LENGTH 45.15 FT | | BOOM LENGTH 57.15 FT | | BOOM LENGTH 69.15 FT | | BOOM LENGTH 81.15 FT | | BOOM LENGTH 93.15 FT | | BOOM LENGTH 105.15 FT | |
|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|-----------------------|-----------|
| LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) |
| 29.3 | 17,100* | 41.3 | 8,900 | 53.3 | 4,700 | 65.3 | 2,300 | | | | | | |



**USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS ARE
PINNED IN MID POSITION**

Lifting Capacities – Pounds (33' – 105' boom)

MODEL RT 450

COUNTERWEIGHT:
 W/AUX. WINCH 13,100 LBS.
 W/O AUX. WINCH 14,200 LBS.
 BOOM LENGTH 33-105 FT.
 OUTRIGGER SPREAD 22 FT.

STABILITY PCT.
 ON OUTRIGGERS 85%
 ON TIRES 75%
 PCSA CLASS 10-176

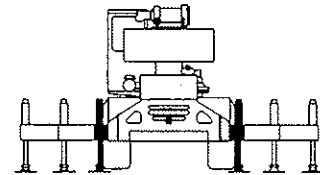
CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - RETRACTED

| LOAD RADIUS (FT) | BOOM LENGTH 33.15 FT | | BOOM LENGTH 45.15 FT | | BOOM LENGTH 57.15 FT | | BOOM LENGTH 69.15 FT | | BOOM LENGTH 81.15 FT | | BOOM LENGTH 93.15 FT | | BOOM LENGTH 105.15 FT | | LOAD RADIUS (FT) |
|------------------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|------------------|
| | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | LOADED BOOM ANGLE (DEG) | 360° (LB) | |
| 10 | 65.3 | 70,000 | 72.2 | 70,700 | | | | | | | | | | | 10 |
| 12 | 61.5 | 48,900 | 69.5 | 49,500 | 73.9 | 49,800 | | | | | | | | | 12 |
| 15 | 55.4 | 32,300 | 65.4 | 33,000 | 70.8 | 33,300 | 74.2 | 33,400 | | | | | | | 15 |
| 20 | 44.0 | 18,700 | 58.1 | 19,700 | 65.4 | 20,000 | 69.8 | 20,100 | 72.9 | 20,200 | | | | | 20 |
| 25 | 29.6 | 11,700 | 50.3 | 12,700 | 59.7 | 13,100 | 65.4 | 13,300 | 69.2 | 13,400 | 72.0 | 13,500 | | | 25 |
| 30 | ** | | 41.5 | 8,400 | 53.7 | 8,900 | 60.7 | 9,200 | 65.4 | 9,300 | 68.7 | 9,300 | 71.2 | 9,400 | 30 |
| 35 | | | 30.7 | 5,500 | 47.2 | 6,000 | 55.8 | 6,300 | 61.4 | 6,500 | 65.4 | 6,600 | 68.3 | 6,600 | 35 |
| 40 | | | 13.9 | 3,300 | 39.9 | 3,900 | 50.7 | 4,300 | 57.3 | 4,500 | 61.9 | 4,600 | 65.4 | 4,600 | 40 |
| 45 | | | ** | | 7.9 | 2,300 | 45.1 | 2,700 | 53.0 | 2,900 | 58.4 | 3,000 | 62.3 | 3,100 | 45 |
| 50 | | | | | 19.6 | 1,100 | 38.9 | 1,500 | 48.4 | 1,700 | 54.7 | 1,800 | 59.2 | 1,900 | 50 |

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 33.15 FT | | BOOM LENGTH 45.15 FT | | BOOM LENGTH 57.15 FT | | BOOM LENGTH 69.15 FT | | BOOM LENGTH 81.15 FT | | BOOM LENGTH 93.15 FT | | BOOM LENGTH 105.15 FT | |
|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|-----------------------|-----------|
| LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) |
| 29.3 | 7,500 | 41.3 | 2,700 | | | | | | | | | | |



USE THESE CHARTS WHEN ALL OUTRIGGER BEAMS ARE NOT IN EITHER THE MID OR FULLY EXTENDED POSITION

Lifting Capacities – Pounds (33' – 105' boom)

MODEL RT 450

COUNTERWEIGHT: STABILITY PCT.
 W/AUX. WINCH 13,100 LBS. ON OUTRIGGERS 85%
 W/O AUX. WINCH 14,200 LBS. ON TIRES 75%
 BOOM LENGTH 33-105 FT. PCSA CLASS 10-176
 OUTRIGGER SPREAD 22 FT.

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS

| LOADED BOOM ANGLE (DEG) | 33 FT OFFSETABLE JIB/NO PULL OUT INSTALLED | | | | | | 33 FT OFFSETABLE JIB/PULL OUT RETRACTED | | | | | | 58 FT OFFSETABLE JIB | | | | | | LOADED BOOM ANGLE (DEG) |
|-------------------------|--|-----------|------------------------|-----------|------------------------|-----------|---|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|-------------------------|
| | 0° OFFSET | | 15° OFFSET | | 30° OFFSET | | 0° OFFSET | | 15° OFFSET | | 30° OFFSET | | 0° OFFSET | | 15° OFFSET | | 30° OFFSET | | |
| | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | LOAD RADIUS (REF) (FT) | 360° (LB) | |
| 75 | 38 | 9,100* | 46 | 7,300* | 52 | 6,100* | 38 | 9,100* | 46 | 7,300* | 52 | 6,100* | 50 | 5,100* | 64 | 4,100* | 75 | 3,400* | 75 |
| 73 | 43 | 7,800* | 50 | 6,700* | 57 | 5,600* | 43 | 7,800* | 50 | 6,700* | 57 | 5,600* | 55 | 4,800* | 69 | 3,900* | 79 | 3,300* | 73 |
| 70 | 50 | 7,600* | 56 | 6,400* | 63 | 5,500* | 50 | 7,400* | 56 | 6,000* | 63 | 5,100* | 63 | 4,600* | 76 | 3,600* | 86 | 3,000* | 70 |
| 67 | 57 | 7,400* | 63 | 6,000* | 69 | 5,200* | 57 | 6,800* | 63 | 5,500* | 69 | 4,700* | 71 | 4,500* | 83 | 3,300* | 92 | 2,800* | 67 |
| 64 | 63 | 6,400* | 69 | 5,300* | 75 | 4,700* | 63 | 5,800* | 69 | 4,800* | 75 | 4,100* | 78 | 4,400* | 90 | 3,000* | 98 | 2,600* | 64 |
| 61 | 70 | 5,600* | 76 | 4,800* | 81 | 4,200* | 70 | 5,000* | 76 | 4,200* | 81 | 3,700* | 86 | 4,000* | 97 | 2,900* | 104 | 2,300* | 61 |
| 58 | 76 | 5,000* | 81 | 4,300* | 86 | 3,800* | 76 | 4,300* | 81 | 3,700* | 86 | 3,300* | 93 | 3,600* | 103 | 2,700* | 110 | 2,300* | 58 |
| 54 | 83 | 4,300* | 88 | 3,800* | 93 | 3,400* | 83 | 3,600* | 88 | 3,100* | 93 | 2,800* | 102 | 3,100* | 111 | 2,600* | 117 | 2,200* | 54 |
| 50 | 90 | 3,800* | 95 | 3,300* | 99 | 3,100* | 90 | 3,100* | 95 | 2,700* | 99 | 2,500* | 110 | 2,700* | 118 | 2,300* | 123 | 2,000* | 50 |
| 46 | 97 | 3,300* | 101 | 2,900* | 105 | 2,700* | 97 | 2,600* | 101 | 2,300* | 105 | 2,100* | 117 | 2,000* | 124 | 1,900* | 128 | 1,800* | 46 |
| 42 | 103 | 2,900* | 107 | 2,700* | 110 | 2,500* | 103 | 2,200* | 107 | 2,000* | 110 | 1,900* | 123 | 1,400* | 130 | 1,300* | 133 | 1,300* | 42 |
| 38 | 109 | 2,200* | 112 | 2,000* | 115 | 1,800* | 109 | 1,500* | 112 | 1,400* | 115 | 1,300* | 129 | 1,100* | | | | | 38 |
| 32 | 117 | 1,500* | 116 | 1,400* | 121 | 1,400* | | | | | | | | | | | | | 32 |

NOTES FOR JIB CAPACITIES

- A. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.
- B. For boom angle not shown, use the capacity of the next lower boom angle.
- C. Listed radii are for extended main boom only.

ON TIRES

| RADIUS (FT) | MAX BOOM LENGTH (FT) | 21:00 X 25-28PR | | | | 26.5 x 25-26PR | | | | RADIUS (FT) |
|-------------|----------------------|-----------------|---------------------|--------------|---------------------|----------------|---------------------|--------------|---------------------|-------------|
| | | STATIONARY | | PICK & CARRY | | STATIONARY | | PICK & CARRY | | |
| | | 360° | STRAIGHT OVER FRONT | 360° | STRAIGHT OVER FRONT | 360° | STRAIGHT OVER FRONT | 360° | STRAIGHT OVER FRONT | |
| | | 360° | STRAIGHT OVER FRONT | 360° | STRAIGHT OVER FRONT | 360° | STRAIGHT OVER FRONT | 360° | STRAIGHT OVER FRONT | |
| 10 | 33 | 36,000 | 70,000* | 53,100* | 47,200* | 39,500* | 61,800* | 47,200* | 39,800* | 10 |
| 12 | 33 | 30,600 | 64,900* | 49,400* | 43,700* | 32,100* | 57,000* | 43,300* | 36,300* | 12 |
| 15 | 33 | 22,900 | 53,500 | 41,800* | 35,900* | 23,000 | 48,800* | 36,600* | 30,200* | 15 |
| 20 | 45 | 14,000 | 31,800 | 31,800 | 27,000* | 14,700 | 33,200 | 27,500* | 22,500* | 20 |
| 25 | 45 | 9,300 | 21,700 | 22,000 | 21,000 | 10,500 | 21,500 | 21,200 | 17,100* | 25 |
| 30 | 45 | 6,100 | 15,300 | 15,300 | 15,300 | 7,500 | 15,400 | 15,400 | 13,000* | 30 |
| 35 | 45 | 4,000 | 12,000 | 12,000 | 12,000 | 5,200 | 11,900 | 11,900 | 10,300* | 35 |
| 40 | 57 | 2,400 | 9,400 | 9,400 | 9,400 | 3,500 | 9,500 | 9,500 | 8,200* | 40 |
| 45 | 57 | | 7,400 | 7,400 | 7,400 | 2,000 | 7,600 | 7,600 | 6,500* | 45 |
| 50 | 57 | | 6,000 | 6,000 | 6,000 | | 6,000 | 6,000 | 5,100* | 50 |
| 55 | 69 | | 4,700 | 4,700 | 4,700 | | 4,700 | 4,700 | 4,000* | 55 |
| 60 | 69 | | 3,600 | 3,600 | 3,600 | | 3,600 | 3,600 | 3,000* | 60 |

NOTES FOR ON TIRE CAPACITIES

- A. For Pick and Carry operations, boom must be centered over the front of the crane with swing brake and lock engaged. Use minimum boom point height and keep load close to ground surface.
- B. The load should be restrained from swinging. NO ON TIRE OPERATION WITH JIB ERRECTED.
- C. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires to ensure stability.
- D. Creep speed is crane movement of less than 200 Ft. (61m) in a 30 minute period and not exceeding 1.0 mph(1.6 km/h).
- E. Refer to General Notes for additional information.

MAXIMUM PERMISSIBLE HOIST LINE LOAD

| LINE PARTS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| STD. HOIST | 10,000 | 20,000 | 30,000 | 40,000 | 50,000 | 60,000 | 70,000 | 80,000 | 90,000 | 100,000 |
| AUX HOIST | 9,080 | 18,160 | 27,240 | 36,320 | 45,400 | 54,480 | 65,560 | 70,000 | 81,270 | 90,000 |
| HOOK BLOCK | 7,400 | 14,800 | 22,200 | 29,600 | 37,000 | 44,400 | 51,800 | 59,200 | 66,600 | 74,000 |
| WIRE ROPE: 5/8" ROTATION RESISTANT COMPACTED STRAND, 18X19 OR 19X19 MINIMUM BREAKING STRENGTH - 22.7 TONS 5/8" 6X19 OR 6X37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 17.9 TONS | | | | | | | | | | |

RECOMMENDED TIRE PRESSURE

| TIRE SIZE | STATIONARY | CREEP | 2 1/2 MPH | TRAVEL |
|------------------|------------|--------|-----------|--------|
| 21:00 X 25-28 PR | 85 PSI | 85 PSI | 85 PSI | 65 PSI |
| 26:50 X 25-26 PR | 65 PSI | 65 PSI | 65 PSI | 50 PSI |

GENERAL NOTES

GENERAL

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through your distributor.
3. These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDARDS FOR CRANES.
4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO. 4, SAE CRANE LOAD STABILITY TEST CODE J765A, SAE METHOD OF TEST FOR CRANE STRUCTURE J1063 AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5.

DEFINITIONS

1. **LOAD RADIUS** – The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. **LOADED BOOM ANGLE** – It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with boom length give only an approximation of the operating radius.
3. **WORKING AREA** – Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
4. **FREELY SUSPENDED LOAD** – Load hanging free with no direct external force applied except by the hoist rope.
5. **SIDE LOAD** – Horizontal force applied to the lifted load either on the ground or in the air.
6. **NO LOAD STABILITY LIMIT** – The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to position the boom, when the boom angle is less than the minimum shown on the applicable load chart, because the machine can overturn without any load.

SET-UP


1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.
3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator's Manual for precautions.
4. Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
5. Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
6. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.
7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.

8. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.

OPERATION

1. **CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.**
2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams).
4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. Power telescoping boom sections must be extended equally.
6. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.
When lifting over the jib the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load.
When jibs are erected but unused add two (2) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.
7. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765a. Rated loads for partially extended outriggers are determined from the formula, $\text{Rated Load} = (\text{Tipping Load} - 0.1 \times \text{Tip Reaction}) / 1.25$. Structural strength ratings in chart are indicated with an asterisk (*).
8. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.
9. The user shall operate at reduced ratings to allow for adverse job conditions, such as: Soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc., (side pull on boom or jib is hazardous). Derating of the cranes lifting capacity is required when wind speed exceeds 20 MPH. The center of the lifted load must never be allowed to move more than 3' feet off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.
**Use 2 feet off the center line of the base boom for a two section boom, 3 feet for a three section boom, or 4 feet for a four section boom.
10. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.
11. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
12. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
13. **FOR TRUCK ONLY:** 360° capacities apply only to machines equipped with a front outrigger jack and all five (5) outrigger jacks properly set. If the front (5th) outrigger jack is not properly set, the work area is restricted to the over side and over rear areas as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work areas.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.



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