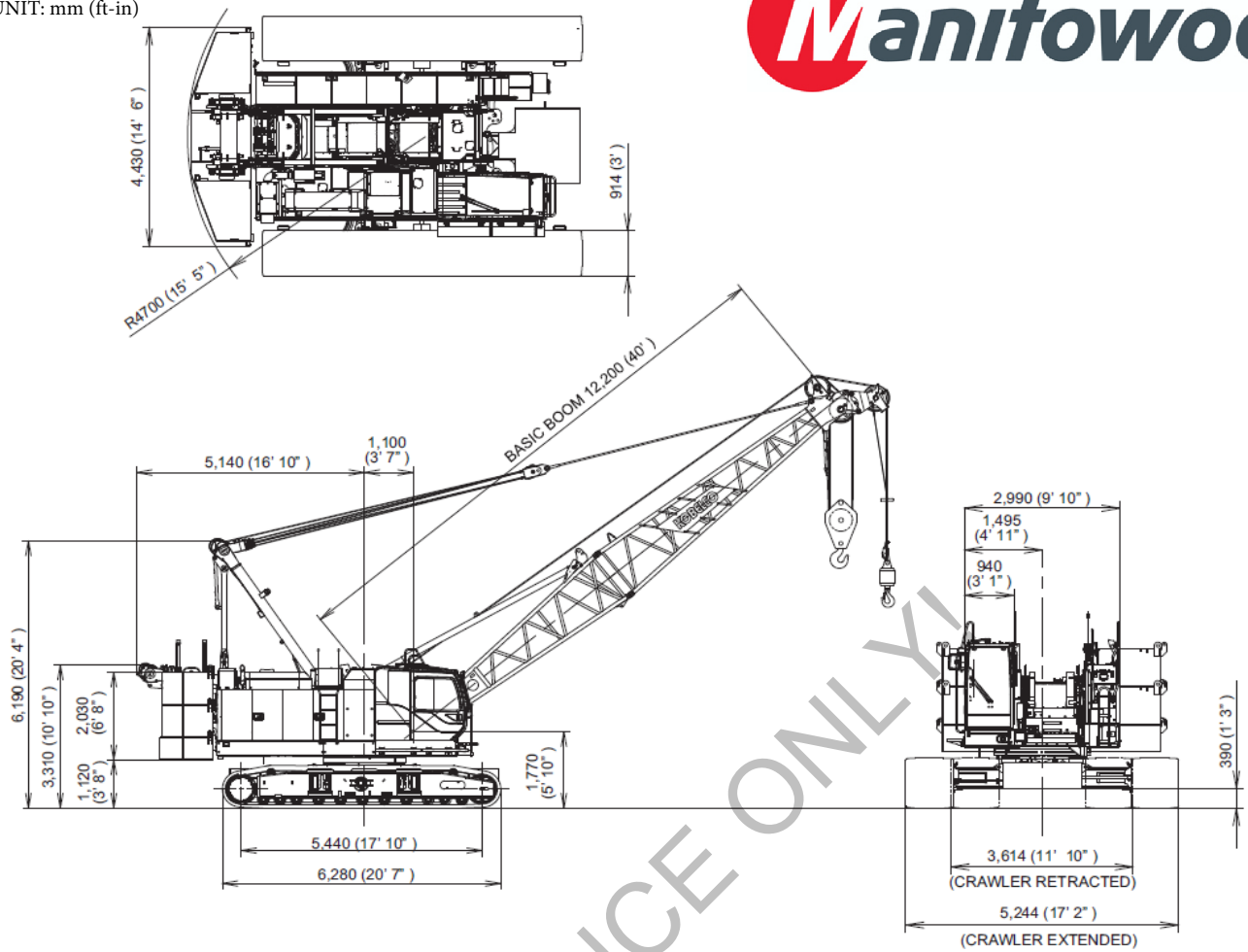


# MANITOWOC 11000-1 C.G. CHART

UNIT: mm (ft-in)



| NAME                 | WEIGHT<br>kg | C.G. (UNIT:mm) |        | REMARK            |
|----------------------|--------------|----------------|--------|-------------------|
|                      |              | HORIZONTAL     | HEIGHT |                   |
| UPPER MAIN BODY      | 16,384       | -964           | 2,060  | FREE, WITHOUT 3RD |
| LOWER MAIN BODY      | 22,557       | -152           | 597    |                   |
| CAR BODY WIGHT       | 14,408       | 0              | 630    |                   |
| SELF REMOVAL UNIT    | 986          | -3,861         | 2,316  |                   |
| MAIN HOIST ROPE      | 729          | -230           | 2,191  |                   |
| AUX. HOIST ROPE      | 504          | -1,255         | 2,191  |                   |
| BOOM HOIST ROPE      | 184          | -3,000         | 2,054  |                   |
| COUNTERWEIGHT(1)     | 8,300        | -3,947         | 1,302  |                   |
| COUNTERWEIGHT(2L&2R) | 11,500       | -3,883         | 1,999  |                   |
| COUNTERWEIGHT(3L&3R) | 11,500       | -3,883         | 2,756  |                   |
| HALF OF BACKSTOP     | 271.6        | 605            | 2,715  |                   |
| TOTAL                | 87,324       | -1,675         | 1,465  |                   |

TIPPING POINT(mm)

|                                 |       |
|---------------------------------|-------|
| SIDE(LOWER ROLLER TREAD CENTER) | 2,165 |
|---------------------------------|-------|

NOTE:

※DATUM POINT OF C.G.

HORIZONTAL:FROM CENTER OF SWING(+:FORWARD, -:BACKWARD)

HEIGHT:FROM GROUND

※LOWER MAIN BODY WEIGHT INCLUDES WEIGHT OF ALL SHOES.

※ALL WIREROPE ARE WOUND UP IN THE DRUMS.

※IF KOBELCO HOOK BLOCK IS ATTACHED WITH MACHINE, USE BELOW CHART.

| TYPE OF HOOK  | WEIGHT<br>kg |
|---------------|--------------|
| 100t          | 1,700        |
| 70t           | 900          |
| 50t           | 850          |
| 35t           | 700          |
| 11t Ball Hook | 300          |

| BOOM LENGTH<br>m(ft) | WEIGHT<br>kg | C.G.<br>mm |
|----------------------|--------------|------------|
| 12.19(40)            | 2,850        | 5,810      |
| 15.24(50)            | 3,220        | 7,170      |
| 18.29(60)            | 3,580        | 8,540      |
| 21.34(70)            | 3,830        | 9,900      |
| 24.38(80)            | 4,190        | 11,290     |
| 27.43(90)            | 4,440        | 12,730     |
| 30.48(100)           | 4,810        | 14,110     |
| 33.53(110)           | 4,930        | 15,490     |
| 36.58(120)           | 5,290        | 16,830     |
| 39.62(130)           | 5,540        | 18,350     |
| 42.67(140)           | 5,910        | 19,720     |
| 45.72(150)           | 6,030        | 21,220     |
| 48.77(160)           | 6,390        | 22,580     |
| 51.82(170)           | 6,640        | 24,100     |
| 54.86(180)           | 7,000        | 25,460     |
| 57.91(190)           | 7,120        | 27,110     |
| 60.96(200)           | 7,490        | 28,410     |

※BOOM WEIGHT INCLUDES WEIGHT OF GUY CABLE.

※BOOM WEIGHT INCLUDES HALF OF BACKSTOP WEIGHT

※C.G. IS DISTANCE FROM BOOMFOOT PIN CENTER.