

LOAD LINE HOISTING RANGE

4600 SERIES-4
RINGER® - SERIES-3

BOOM NO. 65 WITH JIB NO. 27AB
REAR DRUM: 43" (1.1m) WIDTH, 28" (.7m)
DIAMETER, 50½" (1.3m) DIAMETER FLANGE

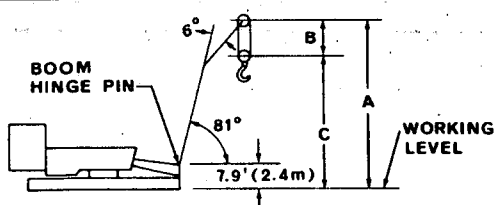
TABLE 1: CONDITIONS

1. Capacities based on jib capacity chart No. 7301-A and No. 7301-AM.
2. Number of "Parts of Line" based on load line specification chart No. 7307-A.
3. Minimum block to jib point distance of 7.3' (2.2m) (Manitowoc 350 ton (318tm) load block).
4. 7.9' (2.4m) distance from center of boom hinge pin to working level and 81 degree boom angle.
5. 2 dead wraps (16' (4.9m)) on drum.

TOTAL USABLE DRUM SPOOLING CAPACITIES:

Rear Drum (w/o ratchet) — 1¼" (31.8mm)
Wire Rope 2,886' (879.7m)

TABLE 2: ILLUSTRATION



Dimension A = Distance From Jib Point Shaft to Working Level.
Dimension B = Distance Between Jib Point Shaft And Load Block.
Dimension C = Block Travel.

TABLE 3: HOISTING RANGE

80 Foot (24.4m) Jib											
Boom Length — Feet	180	200	220	240	260	280	300	320	340	360	380
Boom Length — Meter	54.9	61.0	67.1	73.2	79.2	85.3	91.4	97.5	103.6	109.7	115.8
A — Feet	267.9	287.7	307.4	327.2	346.9	366.7	386.4	406.2	425.9	445.7	465.4
A — Meter	81.7	87.7	93.7	99.7	105.7	111.8	117.8	123.8	129.8	135.8	141.9
B — Feet	75.5	81.6	87.7	93.8	99.9	106.0	112.1	118.2	124.3	130.4	136.5
B — Meter	23.0	24.9	26.8	28.7	30.6	32.4	34.3	36.2	38.1	40.0	41.9
C — Feet	192.4	206.1	219.8	233.5	247.2	260.9	274.6	288.3	302.0	315.7	329.4
C — Meter	58.6	62.8	66.9	71.1	75.3	79.5	83.7	87.9	92.1	96.3	100.5
(1) Parts of Line	15	14	14	13	12	11	10	9	8	7	7
(2) Parts of Line	11	10	9	9	8	8	7	7	6	6	6
100 Foot (30.5m) Jib											
A — Feet	287.3	307.0	326.8	346.5	366.3	386.0	405.8	425.5	445.3	465.0	484.8
A — Meter	87.6	93.6	99.6	105.6	111.6	117.7	123.7	129.7	135.7	141.7	147.8
B — Feet	65.3	66.5	67.7	68.9	70.1	71.3	72.5	73.7	74.9	76.1	77.3
B — Meter	19.9	20.3	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8
C — Feet	222.0	240.5	259.0	277.5	296.0	314.5	333.0	351.5	370.0	388.5	407.0
C — Meter	67.7	73.3	78.9	84.5	90.1	95.7	101.3	106.9	112.5	118.1	123.7
(1) Parts of Line	13	12	12	11	11	10	9	8	7	7	6
(2) Parts of Line	10	9	9	8	8	7	7	6	6	6	5

- (1) Parts of line required for maximum capacity.
(2) Maximum parts of line which will allow full hoisting range.

Continued on reverse side

TABLE 3: HOISTING RANGE (Continued)

120 Foot (36.6m) Jib											
Boom Length — Feet	180	200	220	240	260	280	300	320	340	360	380
Boom Length — Meter	54.9	61.0	67.1	73.2	79.2	85.3	91.4	97.5	103.6	109.7	115.8
A — Feet	306.6	326.3	346.1	365.8	385.6	405.3	425.1	444.8	464.6	484.3	504.1
A — Meter	93.5	99.5	105.5	111.5	117.5	123.5	129.6	135.6	141.6	147.6	153.6
B — Feet	44.2	63.9	83.7	77.2	97.0	84.6	64.3	32.5	52.3	7.3	23.1
B — Meter	13.5	19.5	25.5	23.5	29.6	25.8	19.6	9.9	15.9	2.2	7.0
C — Feet	262.4	262.4	262.4	288.6	288.6	320.7	360.8	412.3	412.3	481.0	481.0
C — Meter	80.0	80.0	80.0	88.0	88.0	97.7	110.0	125.7	125.7	146.6	146.6
(1) Parts of Line	11	11	11	10	10	9	8	7	7	6	6
(2) Parts of Line	9	9	8	8	7	7	6	6	6	6	5

(1) Parts of line required for maximum capacity.

(2) Maximum parts of line which will allow full hoisting range.

TABLE 4: NOTES

1. Dimension "C" (block travel) is determined by dividing drum spooling capacity by number of parts of load line.
2. If dimension "C" plus 7.3' (2.2m) is greater than dimension "A" load block can be lowered below working level.
3. Distance load block can be lowered below working level depends on boom length, parts of load line and drum spooling capacity.
4. Total usable drum spooling capacity is drum capacity minus 2 dead wraps.