111 & 222
Capacity Chart Supplemental Information

OPERATING RADIUS

Operating radius is the horizontal distance from the crane's centerline of rotation to the center of the freely suspended load line or load block.

The centerline of rotation is difficult to locate. The following method can be used. See Figure 1.

Deduct 2.7 feet (0.82 meters) from the operating radius given on the capacity chart. Then measure from the outside edge of ring gear to center of the load line or load block.

This practice eliminates the need to find the crane's centerline of rotation when measuring operating radius.

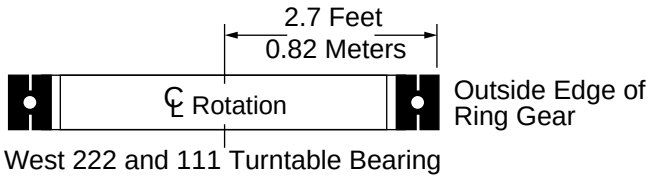


Figure 1 Centerline of Rotation

BLOCKED CRAWLERS

Liftcrane capacity charts always contain a "Maximum Boom and Jib Lengths Lifted Unassisted" table. Often this table refers to boom erection capability with crawlers "blocked".

Unless specifically stated otherwise, blocking crawlers refers to placing non-compressible material under the front (non-driven) crawler rollers on each track assembly. See Figures 2 and 3.

Blocking material and the ground beneath it must not compress when crane is traveled up on it. Dimension "X" listed in Figures 2 and 3 must be maintained.

Blocking cannot extend rearward beyond front idler roller.

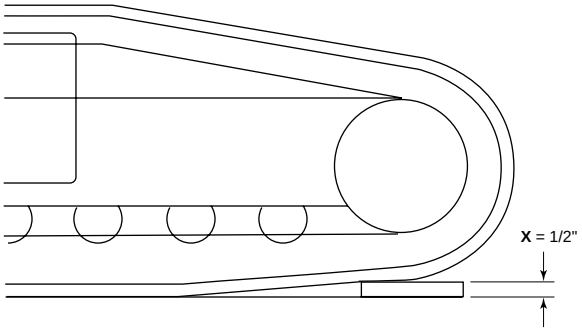


Figure 2 111 Crawler Blocking

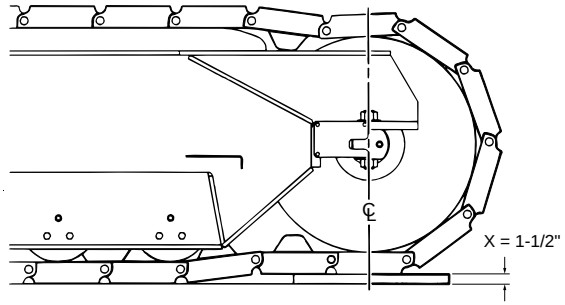
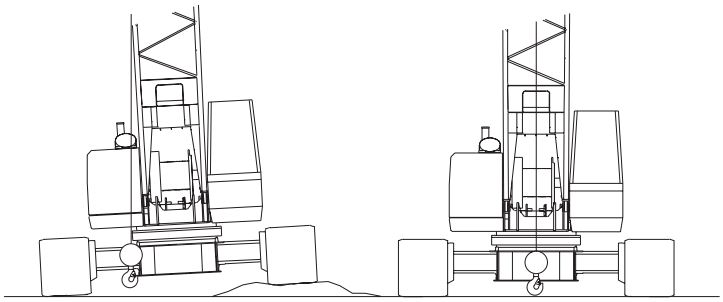


Figure 3 222 Crawler Blocking

LEVEL WITHIN 1°

Crane must be level within 1%, side to side, before any operations can begin.

Off level conditions create concentrated loads in structural members. These loads can easily exceed design limits leading to catastrophic failure.



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CAPACITY RATINGS

Capacities listed on a chart can be of several types: 360°, over side, over front, over rear, crawlers extended, and crawlers retracted.

Take time to obtain the correct chart for your crane and use the right headings to find the proper ratings for your intended use.