

Submitted for recognition as an American National Standard

Mobile Crane Working Area Definitions

Foreword—This reaffirmed document has been changed only to reflect the new SAE Technical Standards Board format. Purpose was changed to 1.1 and References were added as Section 2.

1. **Scope**—This SAE Recommended Practice applies to stationary usage of mobile construction-type cranes, crawler or rubber-tire mounted, on outriggers or on tires, when used for lifting crane, clamshell, dragline, magnet, pile driver, or similar service.
 - 1.1 **Purpose**—The purpose of this document is to establish uniform definitions of the areas around mobile construction-type cranes in which the crane loads are handled.
2. **References**—There are no referenced publications specified herein.
3. **Definitions**
 - 3.1 **Rubber-Tire Mounted**—Carrier on outriggers, front outrigger behind front wheels. See Figure 1.
 - 3.2 **Rubber-Tire Mounted**—Carrier on outriggers, front outrigger ahead of front wheels. See Figure 2.
 - 3.3 **Rubber-Tire Mounted**—Carrier on tires. See Figure 3.
 - 3.4 **Crawler Mounted**—See Figure 4.
4. **Discussion**
 - 4.1 Diagrams depicting the appropriate definitions(s) should be supplied by the manufacturer and be located for ready reference by the user.
 - 4.2 These definitions are based upon the usual, full-revolving mobile crane configurations. Configurations which deviate sufficiently to make it impractical to use these definitions shall have their working areas defined by appropriate sets of diagrams supplied by the manufacturer and located for ready reference by the user.

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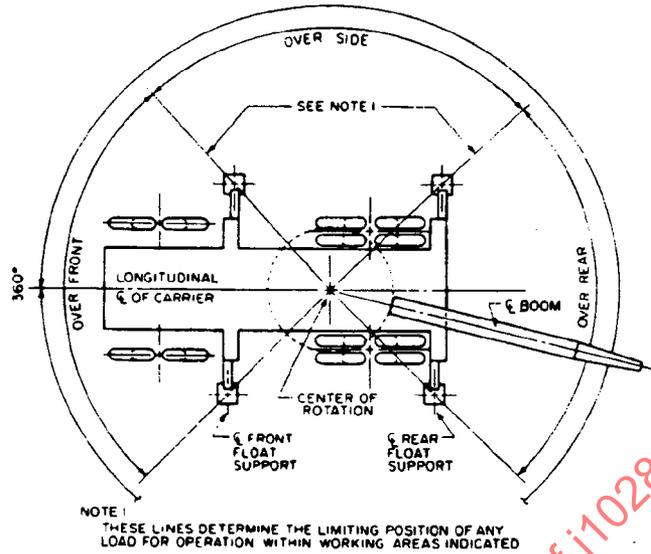


FIGURE 1—CARRIER ON OUTRIGGERS, FRONT OUTRIGGER BEHIND FRONT WHEELS

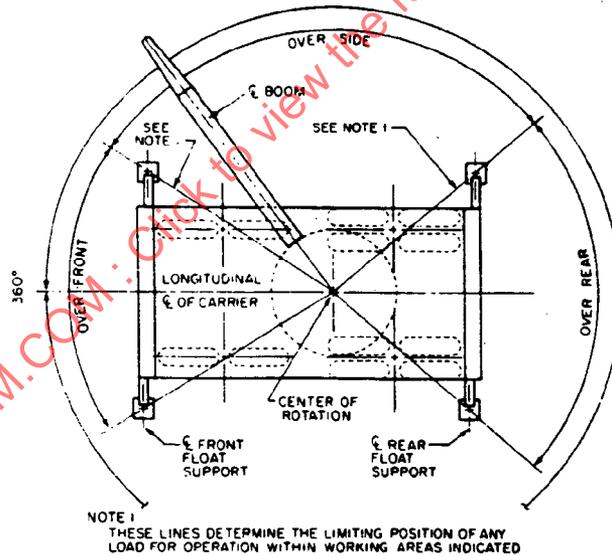


FIGURE 2—CARRIER ON OUTRIGGERS, FRONT OUTRIGGER AHEAD OF FRONT WHEELS

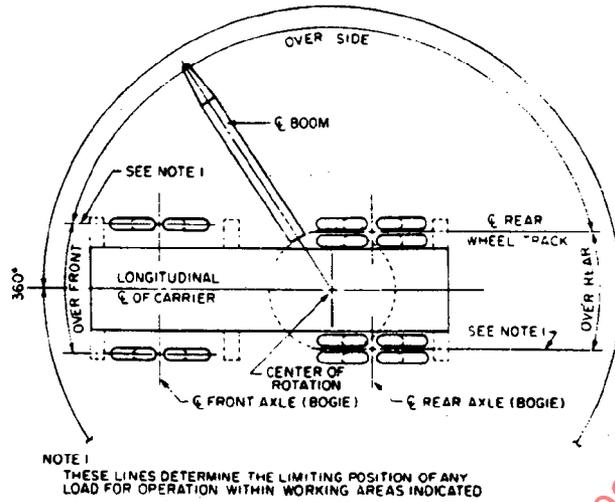


FIGURE 3—CARRIER ON TIRES

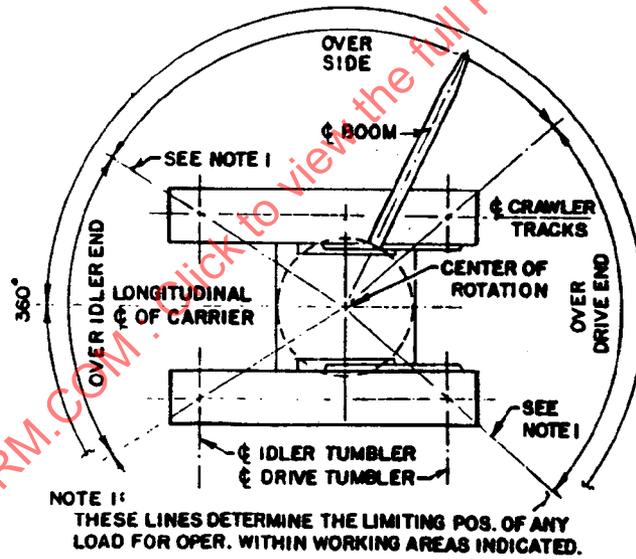


FIGURE 4—CRAWLER-TYPE UNDERCARRIAGE

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- 4.3 These definitions shall apply specifically to the working areas for which capacities are listed in a crane's capacity chart. However, it is not the intent of this SAE Recommended Practice to require the listing of capacities for each working area defined by this SAE Recommended Practice; for example, a manufacturer may, at his option, list capacities for one or more of these working areas, or may list capacities for any combination of working areas, so long as such areas or combination of areas are identified on the capacity chart and/or in the instructions.

NOTE—Crawler capacities are normally listed only for 360 degree operations; if special conditions require operation in specific working areas, a separate statement shall be given describing such operation.

PREPARED BY THE SAE CRANES AND LIFTING DEVICES COMMITTEE

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