

TECHNICAL MANUAL

**TRANSPORTABILITY GUIDANCE
FOR THE
CRANE, 7½-TON, ROUGH-TERRAIN,
KOEHRING
TYPE I (NSN 3810-01-165-0646)
TYPE II (NSN 3810-01-165-0647)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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CHAPTER 1

INTRODUCTION

1-1. Purpose and Scope

a. This manual provides transportability guidance for logistical handling and movement of the Koehring 7½-ton rough-terrain crane. It contains information considered appropriate for safe transport of the crane. Also included are physical characteristics, as well as safety considerations, required for worldwide movement by various transport modes. Where considered necessary, metric equivalents appear in parentheses following the dimensions or other measurements.

b. This manual is for transportation officers and other personnel responsible for movement or providing transportation services.

1-2. Safety

Appropriate precautionary measures required during movement of the item are in chapter 3.

1-3. Definitions of Warnings, Cautions, and Notes

Throughout this manual, warnings, cautions, and notes emphasize important or critical guidance.

a. Warning. Instructions that, if not followed, could result in injury to or death of personnel.

b. Caution. Instructions that, if not strictly observed, could result in damage to or destruction of equipment.

c. Note. A brief statement for use as necessary to emphasize a particular operating procedure or condition.

1-4. Reporting of Recommendations and Comments

Request users of this manual report errors, omissions, and recommendations to Commander, Military Traffic Management Command Transportation Engineering Agency, ATTN: MTTE-TRS (J. Atwood), PO Box 6276, Newport News, VA 23606-0276, AUTOVON 927-4646 or (804) 878-4646. Report changes on DA Form 2028 (Recommended Changes to DA Publications and Blank Forms). Address electrically transmitted messages to CDR MTMCTEA FT EUSTIS VA//MTTE-TRS//.

CHAPTER 2 TRANSPORTABILITY DATA

Section I. GENERAL

2-1. Scope

This chapter provides a general description and identification photographs of the 7½-ton crane, as well as tabulated transportability characteristics of the types I and II cranes.

2-2. Description

The 7½-ton types I and II cranes have a rated lift capacity of 7½- tons at a 10-foot radius. Each crane has a two- and four-wheel drive, two-wheel steering, and four-wheel crab steering, pneumatic tired, diesel-engine-driven chassis. On this chassis is a center mounted, hydraulically operated, fully revolving telescoping boom. The cranes are capable of maintaining a speed of about 22 miles per hour (mph) (35.39 km/hr) and are equipped with an audio warning buzzer

that sounds at speeds exceeding 25 mph. Each crane has an adequate fuel capacity for a maximum of 20 hours of operation or 200 miles of travel at maximum road speed. The type I crane (fig 2-1) is for general-purpose operations. The type II crane (fig 2-2) is for airborne and airmobile operations. The types I and II cranes are the same except for changes required to allow the type II to be sectionalized for external helicopter transport. The sectionalization parts and tools are stowed on the type II crane. When this crane is sectionalized, the carrier unit (section with the wheels, chassis, body, and so forth) weighs 15,600 pounds (7076 kg), and the boom assembly (upper structure) weighs 8,630 pounds (3915 kg). For simplicity in this manual, the power unit is called the carrier, and the boom section is called the upper structure.

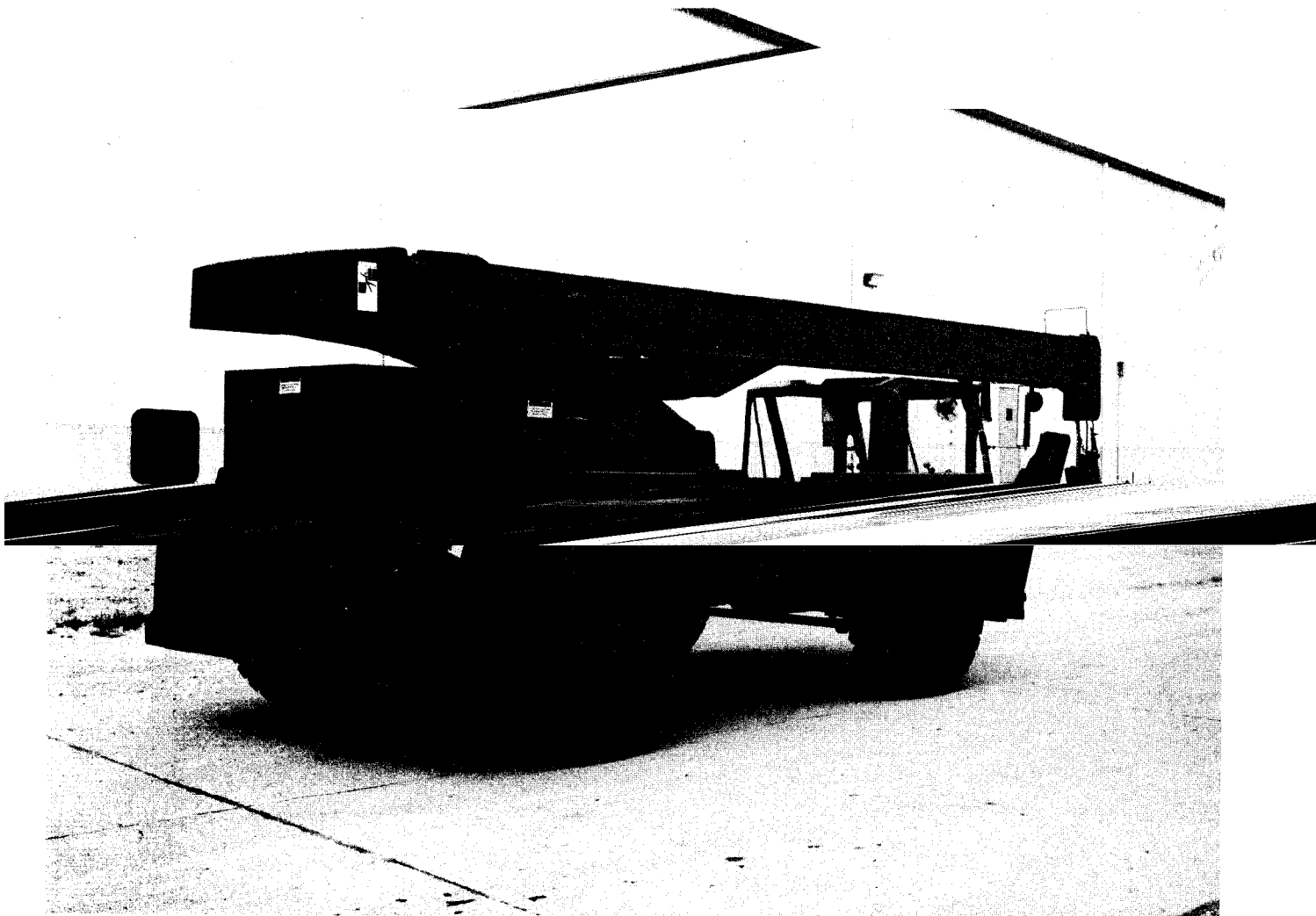


Figure 2-1. Type I crane, right rear view.