**TECHNICAL MANUAL**

# TRANSPORTABILITY GUIDANCE

# ROUGH TERRAIN

# CONTAINER CRANE (RTCC)

**(NSN 3810-01-205-2716)**

**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 Rough Terrain Container Crane (RTCC). It also has guidance for safe transport of the crane. It includes significant technical and physical characteristics, as well as safety precautions required for worldwide movement by various modes of transportation.

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

*c*. Where appropriate, metric equivalents appear in parentheses following dimensions or other measurements.

## 1-2. Safety

Chapter 3 has appropriate precautionary measures required during RTCC movement.

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

Throughout this manual, warnings, cautions, and notes emphasize important or critical guidance. They apply to the following conditions:

*a. Warning*. Instructions that, if not correctly 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*. An operating procedure or condition that requires emphasis.

## 1-4. Reporting Recommendations and Comments

The Army requires users of this manual to submit comments and to recommend changes for its improvement. Users should prepare their comments and recommendations on DA Form 2028 (Recommended Changes to DA Publications and Blank Forms) and forward to Commander, Military Traffic Management Command Transportation Engineering Agency, ATTN: MTTE-TRA, P. O. Box 6276, Newport News, VA 23606-0276. Users should address electrically transmitted messages to CDR MTMCTEA FT EUSTIS VA//MTTE-TRA//. This command will furnish a reply.

# CHAPTER 2

# TRANSPORTABILITY DATA

## Section I. GENERAL

### 2-1. Scope

This chapter gives a general description and drawings of the RTCC, as well as transportability data necessary for transporting the RTCC.

### 2-2. Description

The RTCC is a commercial mobile hydraulic crane modified for military applications. Personnel will use this crane for handling materiel and both 20-and 40-foot ISO containers. The RTCC has a diesel engine, pneumatic tires for operating over rough terrain, and a hydraulically operated, full revolving, telescoping boom. Also, the RTCC is capable of sectionalization into two major components (superstructure and chassis). Personnel must disassemble the RTCC to remove the superstructure from the chassis (see app A).

## Section II. CHARACTERISTICS AND RELATED DATA

### 2-3. General

The following characteristics and data apply to the model number or national stock number (NSN) shown. Changes in model number or NSN may affect the loadability of the item as related to the guidance in this manual. Dimensions and weights represent the operational configuration and the two major sections when the RTCC is sectionalized for transport.

| | |
|---|---|
| Line item number | C39398 |
| National Stock Number | 3810-01-205-2716 |

Dimensional and Shipping Data

| | |
|---|---|
| *a. Operational Configuration* | |
| Length | 555.4 in. (14.11 m) |
| Width | 144.0 in. (3.66 m) |
| Height | 156.8 in.(3.98 m) |
| Weight | 94,500 lb (42,865 kg) |
| Axle Loads: | |
| Front axle | 36,516 lb (16,564 kg) |
| Rear Axle | 57,984 lb (26,301 kg) |
| Shipping cube | 7,278 cu ft (206.11 cu m) |
| Ground clearances | 16 in. (0.41 m) |
| Tires: | |
| Size | 29.5 x 25 |
| Inflation | 7 5 psi |
| Footprint: Front wheels each | 290 sq in. |
| Rear wheels each | 410 sq in. |
| Ground pressure: Front wheels each | 62.96 psi |
| Rear wheels each | 70.71 psi |
| Crane Capacity | 80,000 lb (36,288 kg) |
| Wheelbase | 170 in. (4.32 m) |
| Turning radius | 0 ft 3 in. (15.32 m) |
| Speed | 18 mph (28.96 km/hr) |
| *b. Sectionalized Configurations* | |

| *Carrier Section* | *Superstructure Section* |
|---|---|
| Length 360.5 in. (9.16 m) | 544.9 in. (13.84 m) |
| Width 144.0 in. (3.66 m) | 136.0 in. (3.45 m) |
| Height 106 in. (2.69 m) | 113.3 in. (2.88 m) |
| Weight 49,370 lb (22,394 kg) | 44,191 lb (20,045 kg) |

**NOTE**

**Hook and ball boxed separately Weight 939 lb (426 kg)**

### 2-4. Transportability Drawings

Figures 2-1 and 2-2 are detailed side- and end-elevation transportability drawings of the RTCC. These drawings show dimensions, and lifting and tiedown provision locations with load rating capabilities.

### 2-5. Unusual Characteristics

The RTCC has no unusual characteristics that require special attention to temperatures, atmospheric pressure, or humidity variations during exposure to the normal transportation environment.

### 2-6. Hazardous and Dangerous Characteristics

Unless transport personnel ship the cranes with ammunition, they will not present any special hazardous or dangerous characteristics during their exposure to the normal transportation environment.

**NOTE**

**Those regulations and/or transportation procedures normally associated with vehicles containing diesel fuel will apply.**