# TRANSPORTABILITY GUIDANCE

## CRANE, TRUCK-MOUNTED, HYDRAULIC, 25-TON HARNISCHFEGER MODEL MT-250 (NSN 3810-00-018-2021) CRANE, TRUCK-MOUNTED, HYDRAULIC, 35-TON HARNISCHFEGER MODEL MT-300 (NSN NA)

D E P A R T M E N T S O F T H E A R M Y A N D T H E N A V Y
7 JANUARY 1985

Technical Manual
No. 55-3810-229-14
NAVFAC P-941

DEPARTMENTS OF THE ARMY
AND THE NAVY
Washington, DC *7 January 1985*

# TRANSPORTABILITY GUIDANCE
# CRANE, TRUCK-MOUNTED, HYDRAULIC, 25-TON
# HARNISCHFEGER MODEL MT-250
# (NSN 3810-00-018-2021)
# CRANE, TRUCK-MOUNTED, HYDRAULIC, 35-TON
# HARNISCHFEGER MODEL MT-300
# (NSN NA)

| | | Paragraph |
|---|---|---|
| Chapter 1. | INTRODUCTION | |
| | Purpose and Scope | 1-1 |
| | Reporting of Recommendations and Comments | 1-2 |
| | Safety | 1-3 |
| | Definitions of Warnings, Cautions, and Notes | 1-4 |
| 2. | TRANSPORTABILITY DATA | |
| Section I. | GENERAL | |
| | Scope | 2-1 |
| | Description | 2-2 |
| II. | CHARACTERISTICS AND RELATED DATA | |
| | General Transportability Characteristics | 2-3 |
| | Elevation Drawings | 2-4 |
| | Reduced Configuration | 2-5 |
| | Unusual Characteristics | 2-6 |
| | Hazardous and Dangerous Characteristics | 2-7 |
| | Sensitivity | 2-8 |
| | CONUS Freight Classification | 2-9 |
| Chapter 3. | SAFETY | |
| | General | 3-1 |
| | Specific Safety Requirements | 3-2 |
| Chapter 4. | AIR TRANSPORTABILITY GUIDANCE | |
| | Scope | 4-1 |
| | Transport by US Army Aircraft | 4-2 |
| | Maximum Utilization of Aircraft | 4-3 |
| | Safety | 4-4 |
| | General | 4-5 |
| | Aircraft Preparation | 4-6 |
| | Load Preparation | 4-6 |
| | Loading/Unloading and Tiedown Instructions | 4-8 |
| Chapter 5. | HIGHWAY TRANSPORTABILITY GUIDANCE | |
| Section I. | GENERAL | |
| | Scope | 5-1 |
| | Safety | 5-2 |
| II. | MOVEMENTS OF CRANES UNDER THEIR OWN POWER | |
| | General | 5-3 |
| | Preparation | 5-4 |
| Chapter 6. | MARINE AND TERMINAL TRANSPORTABILITY GUIDANCE | |
| | Scope | 6-1 |
| | Safety | 6-2 |
| | Water Shipment | 6-3 |
| | General Rules | 6-4 |
| Chapter 7. | RAIL TRANSPORTABILITY GUIDANCE | |
| Section I. | GENERAL | |
| | Scope | 7-1 |

***This manual supersedes TM 55-3810-229-14, 30 August 1977.**

| | | |
|---|---|---|
| | Maximum Utilization of Railcars | 7-2 |
| II. | TRANSPORT ON CONUS RAILROADS | |
| | General | 7-3 |
| | Preparation of Vehicles | 7-4 |
| | Loading on General Purpose Flatcars | 7-5 |
| | Loading on Special Purpose Flatcars | 7-6 |
| III. | TRANSPORT ON FOREIGN RAILROADS | |
| | General | 7-7 |
| | Transport on Foreign Service Flatcars | 7 8 |
| Appendix | REFERENCES | A-1 |

# CHAPTER 1
# INTRODUCTION

## 1-1. Purpose and Scope

*a.* This manual provides transportability guidance for logistical handling and movement of the crane, truck-mounted, hydraulic, 25-ton, Harnischfeger Model MT-250, and the crane, truck-mounted, hydraulic, 35-ton, Harnischfeger Model MT-300, which are sometimes referred to in this manual as "the vehicles."

*b.* The intent of this manual is to provide transportation officers and other personnel responsible for movement or transportation services with appropriate information for safe transport. This manual contains significant technical and physical characteristics as well as safety considerations required for world-wide movement by the various modes of transportation. Where considered appropriate, metric equivalents are given in parentheses following dimensions or other measurements. References are contained in the appendix.

## 1-2. Reporting of Recommendations and Comments

Users of this publication are encouraged to recommend changes and submit comments for its improvement. Comments should be prepared on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded to Commander, Military Traffic Management Command Transportation Engineering Agency, ATTN: MTT-TRC, PO Box 6276, Newport News, Virginia 23606-0276 (electrically transmitted messages should be addressed to: CDRMTMCTEA FT EUSTIS VA//MTT-TRC//).

## 1-3. Safety

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

## 1-4. Definitions of Warnings, Cautions, and Notes

Throughout this manual, warnings, cautions, and notes emphasize important or critical guidance. They are used for the following conditions:

*a. Warning*. An operating procedure or practice that, if not correctly followed, could result in injury or loss of life.

*b. Caution*. An operating procedure or practice that, if not strictly observed, could result in damage to or destruction of equipment.

*c. Note*. An operating procedure or condition that must be emphasized.

# CHAPTER 2
# TRANSPORTABILITY DATA

## Section I. GENERAL

### 2-1. Scope

This chapter provides a general description of the crane, truck-mounted, hydraulic, 25-ton, MT-250, and the crane, truck-mounted, hydraulic, 35-ton, MT-300, including photographs, characteristics, and data necessary for movement by various transportation modes.

### 2-2. Description

These cranes are commercially designed vehicles with a hydraulically operated boom assembly mounted on a carrier chassis. The carrier is an 8 x 4, diesel-powered vehicle. It has tandem axles, front and rear; dual rear tires; and a 224-inch wheelbase. Right side views are shown in figures 2-1 and 2-2.

*Figure 2-1. Right side view of crane, truck-mounted, hydraulic, 25-ton, MT-250.*

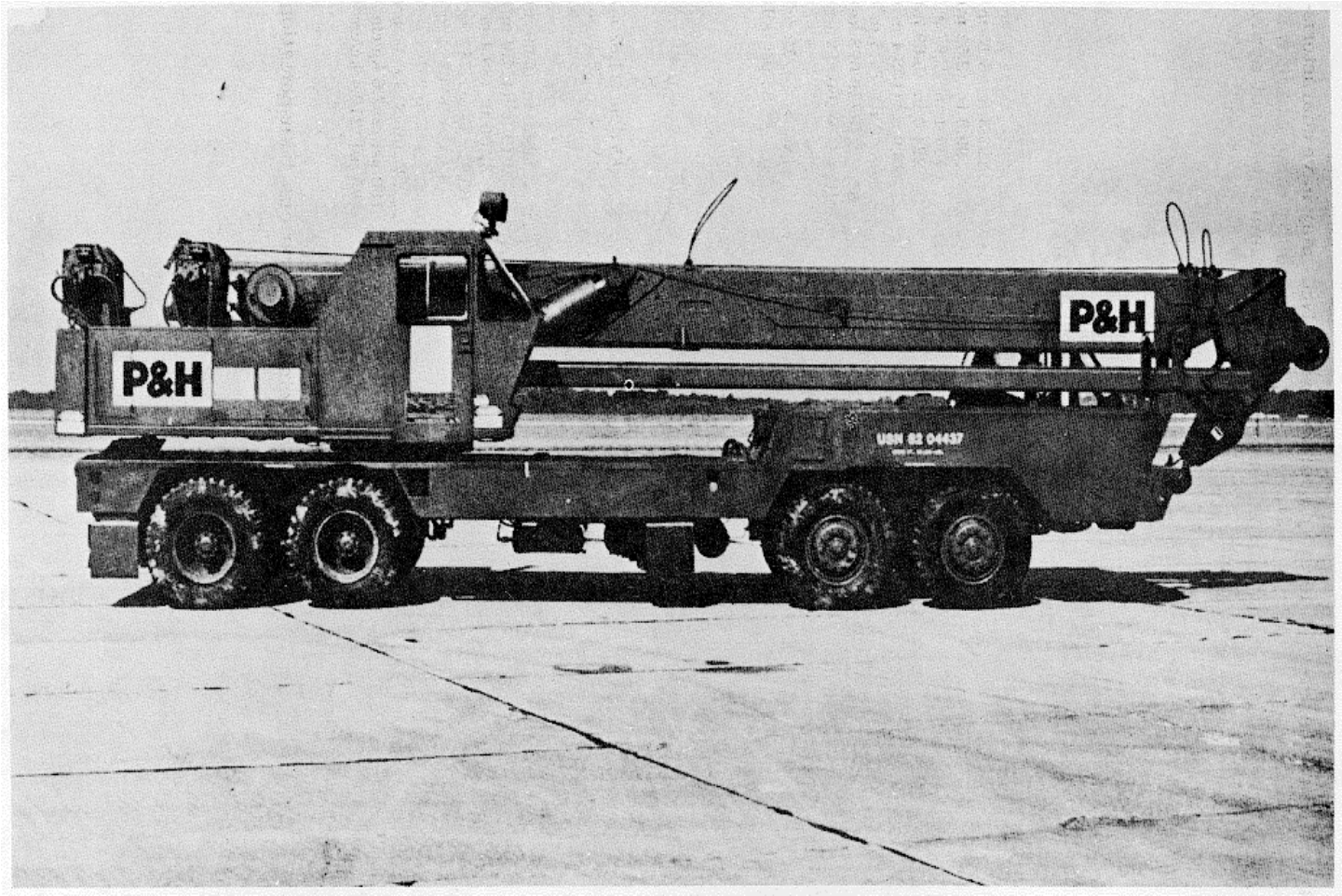


*Figure 2-2. Right side view of crane, truck-mounted, hydraulic, 35-ton, MT-300.*