

TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL
MAINTENANCE MANUAL

CRANE, TRUCK, WAREHOUSE, 10,000 LB. CAPACITY, GED, PT

PETTIBONE MODEL 10FM

ARMY MODEL MHE 216, FSN 3950-197-4935

This copy is a reprint which includes current
pages from Change 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY

JULY 1971

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No. 10495-206-12

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 14 July 1971

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for the use of personnel to whom the Pettibone Model 10FM, Army Model MHE 216, Warehouse Truck Crane is issued. They provide information on the operation and organizational maintenance of the equipment. Also included are descriptions of the main components and systems and their functions.

b. Refer to TM 750-24413 for instructions on the destruction of Army material to prevent enemy use.

1-2. Forms and Records

a. DA Forms and records used for equipment maintenance will be only those prescribed in TM 38-750.

b. Reports of error omissions, and recommendations for improving this publication by the individual user is encouraged. Report should be submitted on DA Form 2028 (Recommended Changes to Publications), and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1-3. Description

The Pettibone Model 10FM Warehouse Truck Crane (fig. 1-1 and 1-2) is a front wheel drive, pneumatic tired, materials handling vehicle. The crane is powered by a six-cylinder gasoline engine coupled through a torque converter to a two-speed forward and reverse, power shift transmission. The crane is equipped with a hydraulic powered slewing boom capable of lifting and transporting loads up to 10,000 pounds at a 36 inch load center front of bumper.

1-4. Identification and Tabulated Data

a. *Identification and Data Plates.* The crane has three major identification and data plates.

(1) The U.S. Army identification plate (A, fig. 1-4) is located on the left side of the instrument control support.

(2) The transportation data plate (B, fig. 1-3) is located on the left side of the instrument control support immediately below the identification plate.

(3) The load capacity data plate (C, fig. 1-3) is located to the right of the operator's seat on the battery access cover.

b. *Tabulated Data.*

(1) *Performance data.*

Load capacity (fig. 1-3 C) 10,000 lb. max.
Towing capacity (level) 9,000 lb. max.

Maximum gradability (with rated load on dry surface) 15%
Speed (maximum):
 Forward 20 mph
 Reverse 19.4 mph
Turning radius:
 Outside 16 ft. 2 in.
 Inside 3 ft. 9 in.
Slewing: Arc maximum 180
Radius (from front of bumper)
 Minimum 1 ft. 1 in.
 Maximum 17 ft. 3 in.
Boom lift 70°
Boom hydraulic extended ft.
Maximum hook height 23 ft.
(2) *Dimensions and weight.*
Height 9 ft. 1/2 in.
Length:
 Overall 24 ft.
 Bumper to bumper 14 ft.
Width 8 ft.
Weight 31,000 lb.
Ground clearance 8 in.
Wheel base 10 ft. 3 in.
Wheel loading (no load):
Front wheels (dual) 14,580 lb.