

MUNITIONS HANDLING/LOADING UNIT

MODEL MHU-83D/E P/N 971480-70

NSN 1730-01-446-2422



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APPLICATION

Diesel powered vehicle for loading munitions, fuel tanks, pylons and special weapons up to 7,000 lbs. onto military aircraft. It is also used to handle cargo and to fit aircraft components for maintenance and training purposes. Hydraulic power steering on the rear wheels, front and rear wheels equipped with pneumatic arctic type, tires, tubes, flaps, and conventional caliper type disc brakes.

Rear Tire: 12 Ply, 23-850x12
Front Tire: 10 Ply, 18-950-8

GENERAL CHARACTERISTICS

GROSS WEIGHT App. 7,230 lbs.

LIFT CAPACITY

On table up to 7,000 lbs.
On forks up to 6,000 lbs.

PERFORMANCE LIFT

On table min 12.00 in.
On table max 96.00 in.
Fork positions
Adapter normal, forks normal
Maximum height 85.5 in.
Minimum height 1.5 in.
Adapter inverted, forks normal
Maximum height 101.5 in.
Minimum height 17.5 in.
Azimuth (boom either side of center) ± 20°
Rate of lift 35 ft/min.

POSITION CAPABILITIES OF MANIPULATOR HEAD

Longitudinal (either side of center) ± 2 in.
Tilt (weapon nose up or down) ± 5°
Roll ± 7°
Roll (down) (with offset links for forks) ± 14°
Yaw (either side of center) ± 104°

MOBILITY

Maximum speed loaded 10 mph
Braking distance (loaded) 20 feet
Braking distance (unloaded) 15 feet
Turning radius 20 feet
Tread width, rear wheels 45.3 in.
Tread width, front wheels (adjustable) 47 to 118-1/2 in.
Maximum grade loaded 10%
Maximum grade unloaded 20%

Power steering, hydrostatic transmission, limited slip differential.
Conventional caliper type disc brakes on front wheels and rear drive. Front wheels are equipped 18 X 9.50 - 8NHS, 10 ply tires Rear wheels are equipped with 23 X 8.50 - 12 NHS, 12 ply tires.

ENGINE SPECIFICATIONS

Model No. Deutz D2011L021
Rated Output 29.1 HP @ 2,800 rpm
Operating Cycle 4 Stroke
Cooling System Forced air over oil
Bore 3.58 in.
Stroke 4.13 in.
Displacement 83.6 cu.in.
Fuel Diesel No. 1, 2, JP4, JP8

HYDRAULIC CHARACTERISTICS

GENERAL

Fluid MIL-H-83282
Lift boom system operating pressure 1,800 psi
Manipulator head motion system operating pressure 1,800 psi
Power steering system operating pressure 1500 psi
Power brake system operating pressure 450 psi
Frame extension system operating pressure 1,800 psi
Motor drive operating pressure 3,000-5,000 psi

HYDRAULICALLY OPERATED ITEMS

Hydrostatic drive system
Manipulator head (remote and manual control)
Lift Boom (remote and manual control)
Power steering
Brakes
Auxiliary controlled, hydraulic power take off @ manipulator head

ELECTRICAL CHARACTERISTICS

12 Volt System
Electric Starter
Alternator
Equipped with floodlights and back-up light
Electrical remote control

OPTIONAL ACCESSORIES

56D23736-2 Bomb Stand.
65F35539-1 Tie Down Strap (2 per set).
200334009-10 Universal Extender Assy (4 per set).
200414151-30 Six Inch Friction Bomb Roller Assy (per set 4).
000963-110 Ten Inch Friction Bomb Roller Assy (4 per set).
000963-200 Tree Inch Friction Bomb Roller Assy (4 per set).
000963-116 Hook Adapter.
000963-243-1 Fork Adapter Assy Short Bar (2 forks per set).
000963-243-3 Fork Adapter Assy Long Bar (4 forks per set).
000963-351 Fork Adapter Stand.
99284-135 Adapter Assy MHU-83 / MJ-1
99284-135 Adapter Assy MHU-83 / MJ-1
000963-367 Tow Ring Adapter (2 per set)

OPERATIONAL STATUS

Environmentally tested per MIL-STD-810
Certified for handling nuclear weapons in accordance with requirements of USAF Weapons Laboratory, Kirtland AFB, NM, and USAF/LG - Airforce Manual 91-118 Safety design and Evaluation Criteria for Nuclear Weapons Systems.



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