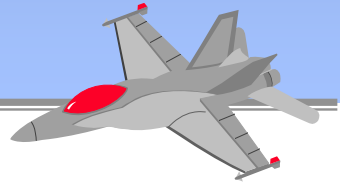
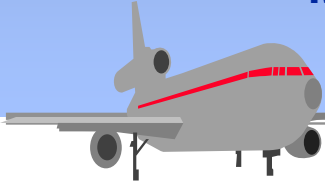


MUNITIONS HANDLING/LOADING UNIT

MODEL MHU-83D/E P/N 971480-30

NSN 1730-01-446-2422



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MHU-83D/E Munitions Handling/Loading Unit

P/N 971480-30 • NSN 1730-01-446-2422

APPLICATION

Standardized equipment for loading/unloading & transporting aerial stores including Munitions, fuel tanks, pylons, special weapons & SAR packs weighing up to 7000 pounds onto/into tactical aircraft

GENERAL

Maximum diameter of store 44 in.
Maximum length of store 230 in.
Maximum weight of store 7,000 lbs.

GENERAL CHARACTERISTICS

TARE WEIGHT 7,536 lbs.

LIFT CAPACITY

On table 7,000 lbs.

PERFORMANCE

Lift 84 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°

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) 0° to 14°
Yaw (either side of center) ± 104°
Rate of lift 35 ft/min.

MOBILITY

Maximum speed loaded 10.6 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 F2L1011F
Rated Output 27 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 850 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 control option)
Lift Boom (remote control option)
Power steering
Brakes
Auxiliary proportional controlled hydraulic power take off @ manipulator head

COMPONENTS

6 gallon capacity hydraulic fluid reservoir.
Pressure compensated piston type pump for manipulator head, brake, and frame extension delivers 10 gpm at 1,800 psi.
Gear type pump for power steering delivers 1.9 gpm at 1,500 psi.
Emergency hand pump delivers 2 cu.in. per cycle at 1,500 psi.

ELECTRICAL CHARACTERISTICS

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

OPERATIONAL STATUS

Qualification tested per USAF specification MIL-T-38646 REV. C
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.
EMI tested and qualified for Radiated Emissions (RE102), and Radiated Susceptibility (RS103) per MIL-STD-461D and MIL-STD-462D.
CE certified per European Machinery Directives and Standards of EN60204-1:1997.
Engine exhaust emission is certified to TIER 2 of European Emission Standards.
Noise emission is limited to less than 85dBA at one meter distance of the unit or operator station per latest issue of ISO 3744.



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The technical information contained on this product sheet is current as of this publishing. Information contained herein is subject to revision without advanced notification from the manufacturer. For the most recent up-to-date information, please contact Hydraulics International, Inc.

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