

AERIAL STORES LIFT TRUCK

MODEL MJ-1C P/N 8141050-60

NSN 1730-01-491-1557



HYDRAULICS INTERNATIONAL, INC.

9201 Independence Avenue, Chatsworth, CA 91311, USA
Tel: +1 (818) 718-2462 • Fax: +1 (818) 718-2459 • Website: www.hiinet.com



MJ-1C AERIAL STORES LIFT TRUCK

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APPLICATION

Standard equipment for loading/unloading & transporting of aerial stores including munitions, fuel tanks, pylons, special weapons, & SAR packs weighing up to 3,000 pounds onto/into tactical aircraft.

GENERAL

Maximum diameter of store*40 in.
Maximum length of store*144 in.
Maximum weight of store on load table3,000 lbs.
Minimum distance from ground to bottom of store on table6.25 in.

GENERAL CHARACTERISTICS

TARE WEIGHT3,860 lbs.

LIFT CAPACITY

On table3,000 lbs.
On forks2,250 lbs.

PERFORMANCE

Lift
On load table, min.6.25 in.
On load table, max.78 in.
On forks, normal position, min.1 in.
On forks, normal position, max.72.5 in.

POSITIONING CAPABILITIES OF TABLE

Lateral (either side of center)± 2 3/8 in.
Longitudinal (either side of center)± 2 3/8 in.
Tilt (either side of horizontal)± 5°
Roll360°
Yaw360°

MOBILITY

SpecificationMIL-M-8090
Max. Speed, loaded12 mph
Braking distance, loaded15 ft.
Braking distance, unloaded6.5 ft.
Turning radius (total swing clear)10 ft.
Tread width, rear wheels42.25 in.
Tread width, front wheels28 in.
Max. Grade, loaded10%
Max. Grade, unloaded20%

Power steering on rear wheels.
Equipped with hydrostatic transmission.
Front and rear wheels equipped with 5.70/5.00-8, 8 ply pneumatic.
Arctic type, tires, tubes and flaps.
Conventional caliper type disc brakes on front wheels and rear drive

ENGINE SPECIFICATIONS

Model No.Deutz F2L1011F
Rated output27 HP @ 2,800 rpm
Operating cycle4 stroke
Cooling systemForced air over oil
Bore3.58 in.
Stroke4.13 in.
Displacement83.6 cu. in.
FuelDiesel no. 1, 2, JP4, JP8

HYDRAULIC CHARACTERISTICS

GENERAL

FluidMIL-PRF-83282
Lift Arms system operating pressure1,800 psi
Manipulator head motion system operating pressure1,800 psi
Power steering system operating pressure850 psi
Power brake system operating pressure450 psi
Motor drive operating pressure3,000–5,000 psi

HYDRAULICALLY OPERATED ITEMS

Hydrostatic drive system
Manipulator head
Lift arms
Power steering
Brakes

COMPONENTS

Six gallon capacity hydraulic fluid reservoir.
Gear type pump for steering system delivers 3.3 gpm @ 700 psi
Pressure compensated piston type pump for manipulator head, brake and lift arm systems delivers up to 10 gpm @ 1,800 psi.
Emergency hand pump delivers 2 cu. in. per cycle at 1,500 psi.

ELECTRICAL CHARACTERISTICS

12 Volt System
Electrical Starter
Alternator
Equipped with floodlight and backup light

OPERATIONAL STATUS

Environmental tested per MIL-E-4970 (-65oF to 160oF).
Qualification tested to insure compliance with the MJ-1A test requirements.
Certified for handling nuclear weapons in accordance with requirements of USAF Weapons Laboratory, Kirtland AFB, NM.
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 80dBA at one meter distance of the unit or operator station per latest issue of ISO 3744.

* For applications which exceed these limitations, consult Engineering Dept.



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