

# AERIAL STORES LIFT TRUCK

MJ-1C

P/N: 8141050-70, NSN: 1730-01-491-1557



## HYDRAULICS INTERNATIONAL, INC.

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# AERIAL STORES LIFT TRUCK MJ-1C

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## APPLICATION

The MJ-1C is a Diesel-powered lift truck for loading/unloading and transporting aerial stores including munitions, fuel tanks, pylons, special weapons, and special mission pods weighing up to 3,000 pounds onto tactical aircraft. The MJ-1C is a versatile vehicle, which can be used with almost all weapons utilized by the US Military on numerous fixed-wing and rotor-wing aircraft in a wide range of environments. It has a variety of adapters available, such as the one-step loading adapter (OSLA) for missiles, pylon adapters, and various roller adapters.

## GENERAL

Maximum diameter of store.....	40 in.
Maximum length of store.....	144 in.
Maximum weight of store on table.....	3,000 lbs.
Minimum distance from ground to bottom of store.....	6.25 ins.

## ENGINE SPECIFICATIONS

Model No.....	Deutz D2011L021
Rated output.....	29.1 HP @ 2,800 rpm
Operating cycle.....	4 stroke
Cooling system.....	Forced air over oil
Displacement.....	83.6 cu. in.
Fuel.....	Diesel no. 1, 2, JP4, JP8

## GENERAL CHARACTERISTICS

TARE WEIGHT ..... 3,660 lbs.

## LIFT CAPACITY

On table.....	3,000 lbs.
On forks.....	2,250 lbs.

## LIFT PERFORMANCE

On table, min. ....	6.25 in.
On table, max. ....	78 in.
On forks, normal position, min.....	1 in.
On forks, normal position, max.....	72.5 in.
Min. Time, lift, full travel.....	9 sec.
Min. time, lower, full travel.....	9 sec.

## POSITIONING CAPABILITIES OF TABLE

Lateral (either side of center).....	± 2.00 in.
Longitudinal (either side of center).....	± 2.00 in.
Tilt (weapon nose up or down).....	± 5 degrees
Roll.....	360 degrees
Yaw.....	360 degrees

## MOBILITY

Specification.....	MIL-M-8090
Max. Speed, loaded.....	12 mph
Braking distance, loaded.....	15 feet
Braking distance, unloaded.....	6.5 feet
Turning radius (total swing clear).....	15 feet
Tread width, rear wheels.....	42.25 inches
Tread width, front wheels.....	28 inches
Max. Grade, loaded.....	10%
Max. Grade, unloaded.....	20%
Conventional automotive power steering on rear wheels.	
Front and rear wheels equipped with 5.70/5.00-8, 8 ply pneumatic,	
Arctic type, tires, tubes and flaps.	
Rear drive is equipped with conventional caliper type disc brake.	

## HYDRAULIC CHARACTERISTICS

Fluid.....	MIL-PRF-83282
Cantilever lift boom system operating pressure.....	1,200 psi
Manipulator head motion system operating pressure.....	1,200 psi
Power steering system operating pressure.....	450 psi
Power brake system operating pressure.....	450 psi

## HYDRAULICALLY OPERATED SYSTEMS

Manipulator head
Cantilever lift arms
Power steering
Brakes
Hydrostatic drive system

## OPERATIONAL STATUS

Environmental tested per MIL-STD-810.
EMI tested and qualified for Radiated Emissions (RE102), and Radiated Susceptibility (RS103) per MIL-STD-461 and MIL-STD-462.
CE certified per European Machinery Directives and Standards of EN60204-1:1997.
Qualified and under operation with F-35, F-15, F-16 and A-10.

## ACCESSORIES

Bomb Support Roller, steel (4 req).....	56B23563
Utility Chain.....	56C23171
Lift Sling.....	56D23161
Canvas Cover.....	56D23174-2
Load Binder.....	56D23588-3
Bomb Stand.....	56D23736-2
Fuel Tank Adapter.....	56E23564
Extension Lift Arms.....	85002-184
Fork Lift Adapter.....	85002-190
Bomb Support Roller, Aluminum (4 req).....	000963-200
Maintenance Platform.....	TIF52J2
Lug Beam.....	TIF68D
Tilt Adapter Cradle.....	TIF102D
Adapter Missile-Munitions Loading (OSLA).....	8644425-10



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