MJ-1C AERIAL STORES LIFT TRUCK
P/N 8141050-60 • NSN 1730-01-491-1557

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 table ............................ 3,000 lbs.
Minimum distance from ground to bottom of store on table .... 6.25 in.

GENERAL CHARACTERISTICS

TARE WEIGHT ................................................................. 3,860 lbs.

LIFT CAPACITY
On table ........................................................................ 3,000 lbs.
On forks ......................................................................... 2,250 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°
Roll .............................................................................. 360°
Yaw ................................................................................ 360°

MOBILITY
Specification ............................................................. MIL-M-8090
Max. Speed, loaded .......................................................... 12 mph
Braking distance, loaded ............................................... 15 ft.
Braking distance, unloaded ............................................. 6.5 ft.
Turning radius (total swing clear) .................................... 10 ft.
Tread width, rear wheels ............................................... 42.25 in.
Tread width, front wheels ................................................ 28 in.
Max. Grade, loaded .......................................................... 10%
Max. Grade, unloaded ........................................................ 20%

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 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

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.

HYDRAULIC CHARACTERISTICS

GENERAL
Fluid ............................................................. MIL-PRF-83282
Lift Arms 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
Motor drive operating pressure ........................................ 3,000–5,000 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.
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.