



LOAD CHARTS

Cranes & Digger Derrick

Altec DM-47B (Digger Derrick)

EICA Testing Purposes Only

These Range Diagrams and Capacity Charts are not to be used for lifting operations.
These Load Charts have been modified from the original manufacturer's charts.

LOAD RADIUS
BOOM ANGLE
LOAD CAPACITY

LOAD CAPACITIES (LB) FOR DIGGER DERRICK USE ¹

LOAD RADIUS (FT) ³	FULLY RETRACTED ⁴		INTERMEDIATE BOOM ONLY EXTENDED ⁴		UPPER BOOM ONLY EXTENDED ⁴		INTERMEDIATE & UPR BOOMS EXTENDED ⁴	
	BOOM ANGLE	LOAD CAPACITY ²	BOOM ANGLE	LOAD CAPACITY ²	BOOM ANGLE	LOAD CAPACITY ²	BOOM ANGLE	LOAD CAPACITY ²
4.7	80°	23790	-	-	-	-	-	-
6	76°	17880	-	-	-	-	-	-
8	70°	15000	76°	13900	77°	14240	80°	13530
10	64°	11570	72°	10550	72°	10900	77°	10230
12	57°	9470	68°	8530	68°	8890	74°	8250
15	45°	7430	61°	6650	61°	7020	69°	6410
20	14°	4850	49°	4840	48°	5200	60°	4690
25	-	-	33°	3690	31°	4020	50°	3670
30	-	-	-	-	-	-	39°	2960
35	-	-	-	-	-	-	22°	2320
-	0°	3940	0	2190	0°	2630	0	1590



MODEL: **DM47B T R**

SERIAL NO: _____

ALTEC INDUSTRIES, INC.
210 RIVERNESS CENTER DRIVE
BIRMINGHAM, ALABAMA 35242 U.S.A.

This unit complies with ANSI A10.31 as of manufacturing date. It is the responsibility of dealers, owners, users, operators, lessors, lessees and installers to comply with appropriate sections of ANSI A10.31.

Values shown in Load Capacity Chart at left must be reduced by amount shown below for each option which is mounted on boom:

- TRANSF FLARES ON EXTENDED UPPER BOOM..... 100 LBS
- PLATFORM AT BOOM TIP..... 125 LB EACH
- LINER..... 40 LB EACH
- 4' MATERIAL HANDLING JIB (ANY MODEL)..... 120 LB
- 8' MATERIAL HANDLING JIB..... 150 LB
- 8' PERSONNEL JIB WITH NO PLATFORM..... 160 LB
- 8' PERSONNEL JIB WITH 1 PLATFORM..... 350 LB
- 8' PERSONNEL JIB WITH 2 PLATFORMS..... 550 LB

CAUTION

Read and understand all operating and safety information in manual and on all placards before operating this unit. If you do not have manual, or if placards are missing/unreadable, please call 1-877-462-5832 for assistance. See adjoining placard for notes 1 thru 6 which are referenced on this chart.

INCLUDED OPTIONS:

- PLATFORM - (QTY) 1 4' MATERIAL HANDLING JIB
- LINER 8' MATERIAL HANDLING JIB
- NON-INSULATED DERRICK 8' PERSONNEL JIB
- INSULATED DERRICK (46 KV AND UNDER)

THD 970340870 A

UNLOADED VEHICLE WEIGHT 25690 LB⁶
WINCH LINE RATED WORKING LOAD 13000 LB⁵
WINCH CAPACITY 15000 LB

MAXIMUM HYDRAULIC SYSTEM PRESSURE SETTING 3000 PSI
ELECTRICAL CONTROLS OPERATING VOLTAGE 12 VDC
QUALIFICATION VOLTAGE 46 KV
DATE UNIT TESTED 05 17 17

ANSI A10.31 STABILITY TEST LOAD - 2840 LB⁶ AT
25° BOOM ANGLE AND FULL EXTENSION. REDUCE
TEST LOAD BY 90 LB IF UNIT HAS TRANSFERABLE
FLARES PINNED TO UPPER BOOM.

OPERATING TEMPERATURE RANGE TO MAINTAIN STRUCTURAL
INTEGRITY: -40°F TO 130°F (-40°C TO 55°C)



CAUTION

READ AND UNDERSTAND OPERATOR'S MANUAL BEFORE OPERATING THIS UNIT.

LOAD CAPACITIES (LB)⁵(PERSONNEL AND MATERIAL) FOR PLATFORM AND COMBINED DERRICK/PLATFORM USE¹

BOOM ³ ANGLE	FULLY RETRACTED ⁴	UPPER BOOM ONLY EXTENDED ⁴	INTERMEDIATE & UPR BOOMS EXTENDED ⁴
	LOAD CAPACITY ²	LOAD CAPACITY ²	LOAD CAPACITY ²
80°	3000	3000	3000
70°	3000	3000	3000
60°	3000	3000	3000
50°	3000	3000	1970
40°	3000	2340	1350
30°	2870	1850	980
20°	2470	1570	760
10°	2270	1420	650
0°	2070	1380	610

¹ Load capacities shown in chart are for Platform or Combined Digger Derrick and Platform Use only. This means that personnel platform is occupied, with or without winch line being used for lifting load at boom tip or material handling jib tip. If platform is not occupied, refer to Load Capacity Chart for Digger Derrick Use located at lower controls for proper load capacities.

- ² Loading must not exceed any of the following conditions:
- Total personnel and material load (load in platform(s) plus load on winch line) must not exceed 3000 lbs. for any configuration
 - Total personnel and material load must not exceed load capacity shown in chart minus reductions for all options mounted on boom
 - Load on winch line must not exceed either of the following values:
 - Winch Line Rated Working Load
 - Rated capacity shown in Rated Capacity Chart for Material Handling Jib (if jib is in use)
 - Load in platform(s) must not exceed Rated Platform Capacity or Rated capacity shown in Rated Capacity Chart for Personnel Jib (if jib is in use)
 - No Load is permitted on winch line when personnel jib is in use

³ If actual boom angle is not shown in chart, use load capacity at next lower boom angle.

⁴ If a boom section is not fully retracted, use load capacity for extended boom section.

⁵ Load capacities shown in chart do not exceed 67% (50% for CSA) of tipping loads on level surface or 75% (50% for CSA) of tipping loads on 5° slope, based on Unloaded Vehicle Weight shown. If derrick is remounted or if vehicle is modified in any way affecting stability, contact Altec to determine if new load capacity chart is required.



CAUTION

READ AND UNDERSTAND OPERATOR'S MANUAL BEFORE OPERATING THIS UNIT.

Notes 1 thru 5 on this placard refer to adjoining Load Capacity Chart for Platform and Combined Derrick/Platform Use.

