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 **Altec**
DUAL-RATED SOLUTION

STANDARD FEATURES

- Altec LMAP (Load Moment & Area Protection) System
 - » Rated Capacity Limiter
 - » Displays: Boom Length, Boom Angle, Load on Hook, Percent of Rated Capacity
 - » Operator Defined Audible Alarm Set-Points for Boom Angle, Length and Rotational Position
- Dual Entry 20° Tilt Cab with Heater and A/C
- Outrigger Boom Interlock System
- Outrigger Motion Alarm
- Winch Drum Rotation Indicator
- Anti-Two Block Device
- Rotation Resistant Wire Rope
- Winch Control at Load Hook Stow Point
- Hydraulic Oil Cooling System

OPTIONS

- ANSI A92.2 Compliant Aerial Operation Package
 - » Quick Attach 2-Man Platform, 1,200 lb (544.3 kg) capacity
 - » Radio Remote Controls
 - » Fall Protection
- 2-Piece 49 ft (14.9 m) Jib, 28 ft (8.5 m) Retracted
- Composite Reach Extension, 6 ft (1.8 m) Fixed

Recommended safety equipment, available through Altec Supply, include wheel chocks and outrigger pads.

GENERAL SPECIFICATIONS

Boom Length (6-Section)	152 ft (46.3 m)
Stowed Travel Height	13.16 ft (4.01 m)
Vehicle Travel Length	40 ft (12.19 m)
2 Position Out-and-Down Outriggers	
Full Span	24 ft (7.3 m)
Mid Span	17.9 ft (5.4 m)
Control System	Pilot-Operated, Hydraulic

CRANE SPECIFICATIONS

Maximum Lift Capacity	80,000 lb (36,287.4 kg)
Powered Sheave Height	161 ft (49.1 m)
Maximum Sheave Height with Telescopic Jib	207 ft (63.1 m)
Two Speed Winch Capacity	15,000 lb (6,803 kg)
ASME B30.5 Compliant	

AERIAL SPECIFICATIONS

Platform Capacity	1,200 lb (544.3 kg)
Platform Working Height	167.4 ft (51 m)
with Telescopic Jib	215.1 ft (65.6 m)
with Telescopic Jib and Composite Reach Extension	222 ft (67.7 m)
ANSI A92.2 Compliant	

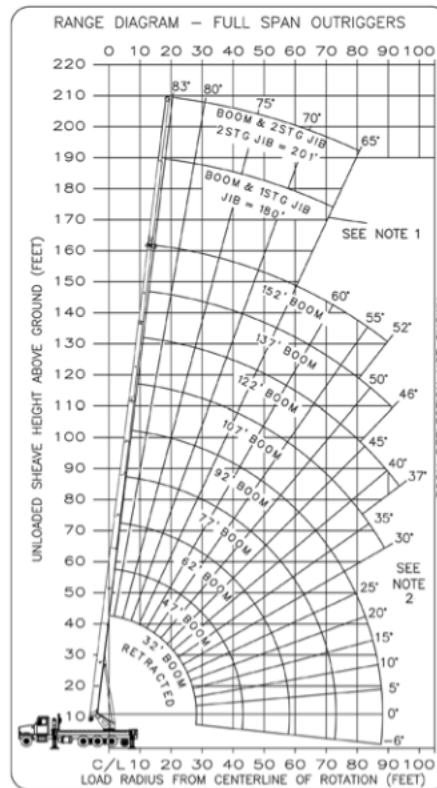
UNIT		RECOMMENDED CHASSIS DIM					MINIMUM RECOMMENDED CHASSIS SPECIFICATIONS				
Model	Rear Axle	CA (in)	WB (in)	AF (in)	AS (in)	Rear Axle to Tag Spread	Front Axle Rating (lb)	Rear Axle Rating (lb)	GVWR (lb)	Frame Sec Modulus (in ³)	Frame RBM (in-lb)
AC40-152S	Tri with tag axle	186	273	165	110	50	20,000	66,000	86,000	consult factory	



LOAD MOMENT AND AREA PROTECTION

The convenient LMAP menu navigation with an intuitive user interface displays load on hook, rated capacity percentage, boom length and angle, load radius, and operator-defined protection with audible alarms. While this feature is unique to Altec, the system's hardware consists of common "off-the-shelf" components that were critically selected for their performance and serviceability.

LOAD CHART - FULL SPAN OUTRIGGERS



BOOM LOAD CAPACITIES IN LBS. WITH FULL SPAN OUTRIGGERS (24 FT)

LOAD RADIUS (FT)	32 FT BOOM	47 FT BOOM	62 FT BOOM	77 FT BOOM	92 FT BOOM	107 FT BOOM	122 FT BOOM	137 FT BOOM	152 FT BOOM
7	72 80000	78 21100	81 21000						
8	70 75000	76 21100	80 21000						
10	66 66500	74 21100	78 21000	80 20900					
12	62 58550	71 21100	76 21000	79 20900	81 20800				
15	56 47700	67 21100	73 21000	77 20800	79 20800	82 17200			
20	43 29350	60 21100	68 21000	73 20900	76 20800	79 17200	81 14100	82 10000	
25	27 18050	53 21100	63 21000	69 20900	73 20400	76 15700	78 14100	80 10000	81 8000
30		44 18600	58 19100	65 19400	70 18900	74 13800	76 13000	78 10000	79 8000
35		34 14600	52 15200	61 15500	66 15700	71 11800	74 10800	76 10000	78 8000
40		20 11800	45 12400	56 12700	63 12800	68 10600	71 9900	74 9450	76 8000
45			38 10100	51 10400	59 10600	65 9600	69 9000	72 8500	74 8000
50			31 8250	47 8600	58 8800	62 8800	66 8200	70 7650	73 7050
55			19 6700	41 7100	52 7300	59 7400	63 7300	67 6650	70 6050
60				35 5500	47 5800	55 6000	61 6100	65 5800	68 5250
65				28 4200	43 4500	52 4700	58 4800	62 4900	66 4550
70				17 3200	38 3500	48 3600	55 3800	60 3900	64 3900
75					32 2600	44 2800	51 2900	57 3000	61 3100
80					25 1900	40 2100	48 2200	54 2300	59 2300
85					16 1200	35 1400	45 1600	51 1600	57 1700
90						30 900	41 1000	49 1100	54 1200
95							37 600	46 600	52 700
0	9400	0 8000	0 4700	0 2500	0 800				
	1130	790	600	480	400	350	300	270	240

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

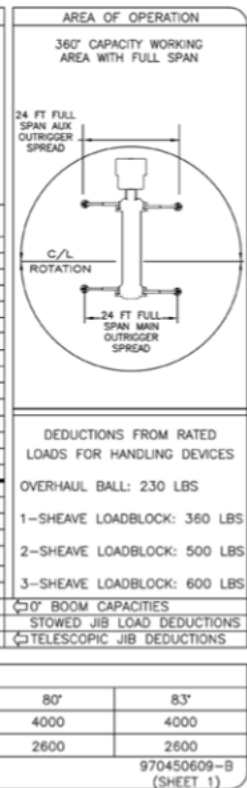
SEE NOTE 2

JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS. JIB CAPACITIES ARE FOR FULL SPAN OUTRIGGERS (24 FT)

LOADED BOOM ANGLE	65°*	70°	75°	80°	83°
TELESCOPING					
RETRACTED 28 FT JIB	1700	3100	4000	4000	4000
EXTENDED 49 FT JIB	1400	2600	2600	2600	2600

* DO NOT OPERATE JIBS BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 1.

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Note 1: When jib is erected, boom must be fully retracted before lowering below minimum boom with jib angles. Retracted boom with jib has no lifting capacity below a 50 degree angle with full span outriggers and below a 65 degree angle not shown on jib load rating chart.

Note 2: Do not lower boom into this area, instability may occur. Hydraulic pressure may not allow raising the boom without retracting boom first.

Charts published herein are intended to be a guide only and should not be construed to warrant application for lifting purposes. Consult supplied operation manual for further details.



QUICK ATTACH PLATFORM FOR AERIAL OPERATION

Altec's patent-pending quick attach platform reduces the overall time required to install the platform on uneven ground. The platform interfaces with the light-weight bracket that seamlessly interfaces and secures to the main boom, the end of the jib, or to the optional composite reach extension. Once the platform is in position on the ground and the bracket is attached to either of the above listed locations, the operator can simply extend the boom until the bracket engages the platform. The last step only requires a member of the ground-crew to quickly engage the spring-loaded, high visibility pins.

LONGER OUTRIGGER JACK CYLINDERS

Longer outrigger jack cylinders boost ground clearance, reduce the need to transport cribbing, free up deck space, minimize setup time, and reduce overall setup effort.



DUAL ENTRY CAB

Altec's dual entry cab provides safe access/egress throughout the entire range of rotation. The 20 degree tilt feature maximizes the viewing spectrum on the job site.



COMPOSITE REACH EXTENSION*

The feature provides an additional layer of protection for aerial workers when working de-energized lines in close proximity to energized lines, reducing the risk of electric-field induction hazards.



* This extension is rated as non-insulated and not intended for energized work.



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Fax 205.449.4774
www.altec.com

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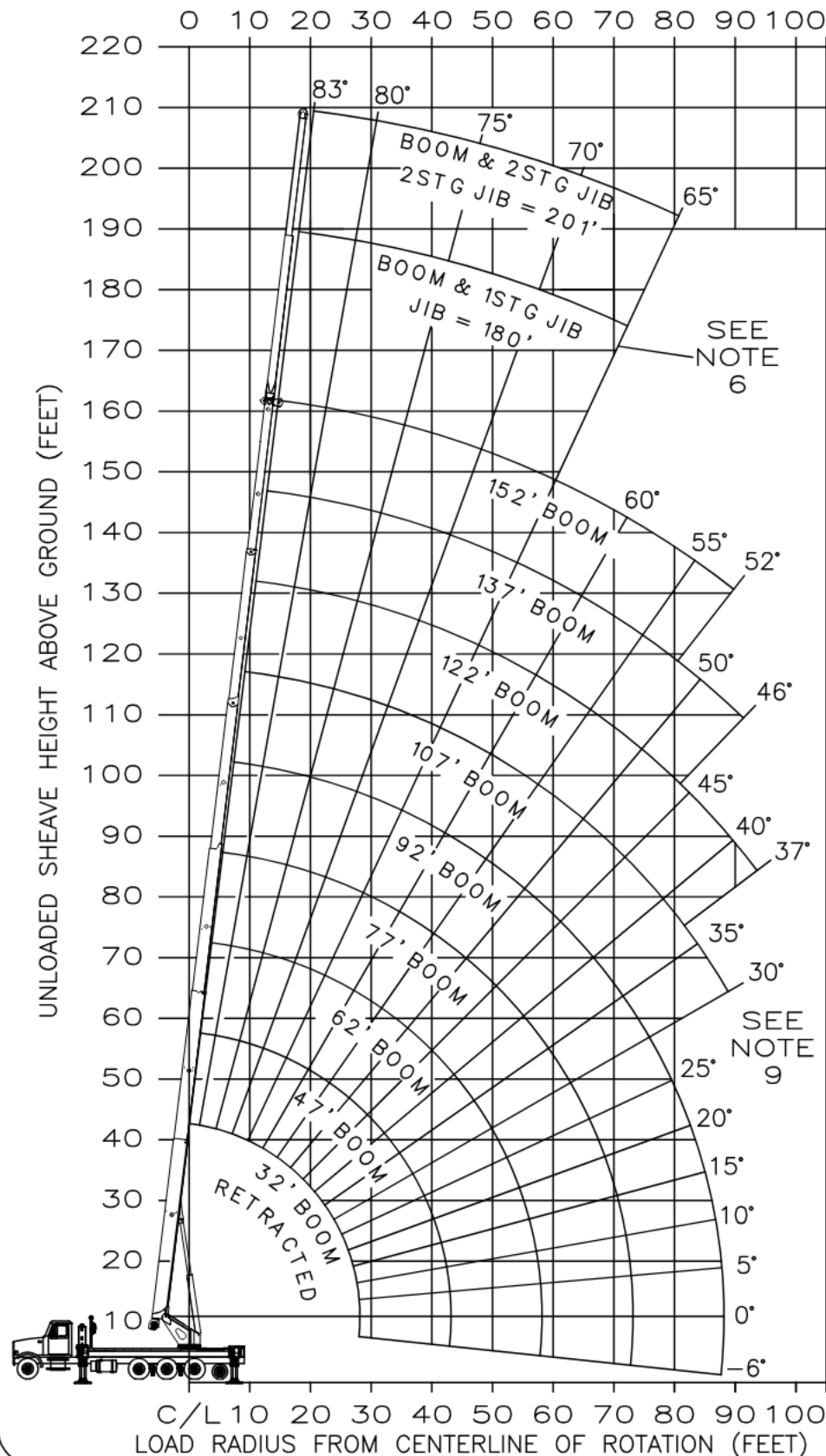
Material and specifications are subject to change without notice. Featured units in photos may include optional features. Please contact an Altec representative for all available options. Charts published herein are intended to be a guide only and should not be construed to warrant application for lifting purposes. Consult supplied operation manual for further details.

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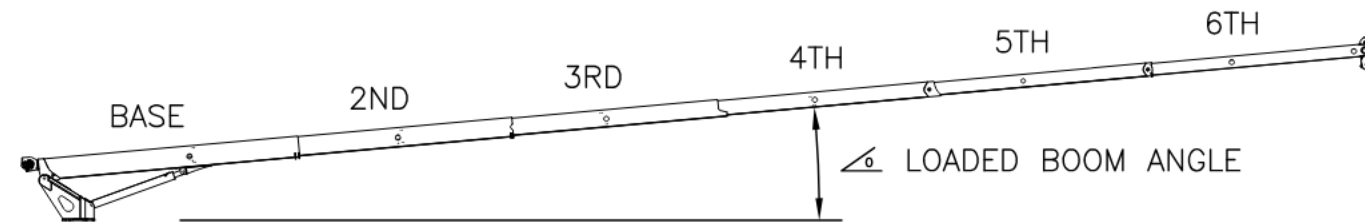
RANGE DIAGRAM – FULL SPAN OUTRIGGERS



FULL SPAN OUTRIGGERS

Ateco MODEL: AC40-152S
Altec Industries Inc.

BOOM LOAD CAPACITIES IN LBS. WITH FULL SPAN OUTRIGGERS (24 FT)



LOAD RADIUS (FT)	32 FT BOOM	47 FT BOOM	62 FT BOOM	77 FT BOOM	92 FT BOOM	107 FT BOOM	122 FT BOOM	137 FT BOOM	152 FT BOOM
	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS
7	72 80000	78 21100	81 21000						
8	70 75000	76 21100	80 21000						
10	66 66500	74 21100	78 21000	80 20900					
12	62 58550	71 21100	76 21000	79 20900	81 20800				
15	56 47700	67 21100	73 21000	77 20900	79 20800	82 17200			
20	43 29350	60 21100	68 21000	73 20900	76 20800	79 17200	81 14100	82 10000	
25	27 18050	53 21100	63 21000	69 20900	73 20400	76 15700	78 14100	80 10000	81 8000
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85					16 1200	35 1400	45 1600	51 1600	57 1700
90						30 900	41 1000	49 1100	54 1200
95							37 600	46 600	52 700
0	9400	8000	4700	2500	800	SEE NOTE 9			
	1130	790	600	480	400	350	300	270	240

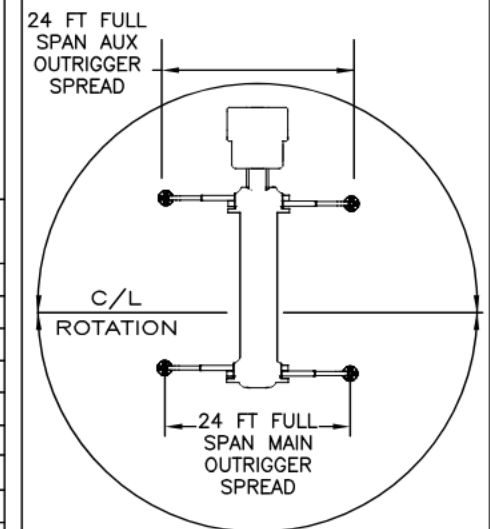
JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS. JIB CAPACITIES ARE FOR FULL SPAN OUTRIGGERS (24 FT)

LOADED BOOM ANGLE		65°*	70°	75°	80°	83°
TELESCOPING	RETRACTED 28 FT JIB	1700	3100	4000	4000	4000
	EXTENDED 49 FT JIB	1400	2600	2600	2600	2600

* DO NOT OPERATE JIBS BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 6.

AREA OF OPERATION

360° CAPACITY WORKING AREA WITH FULL SPAN



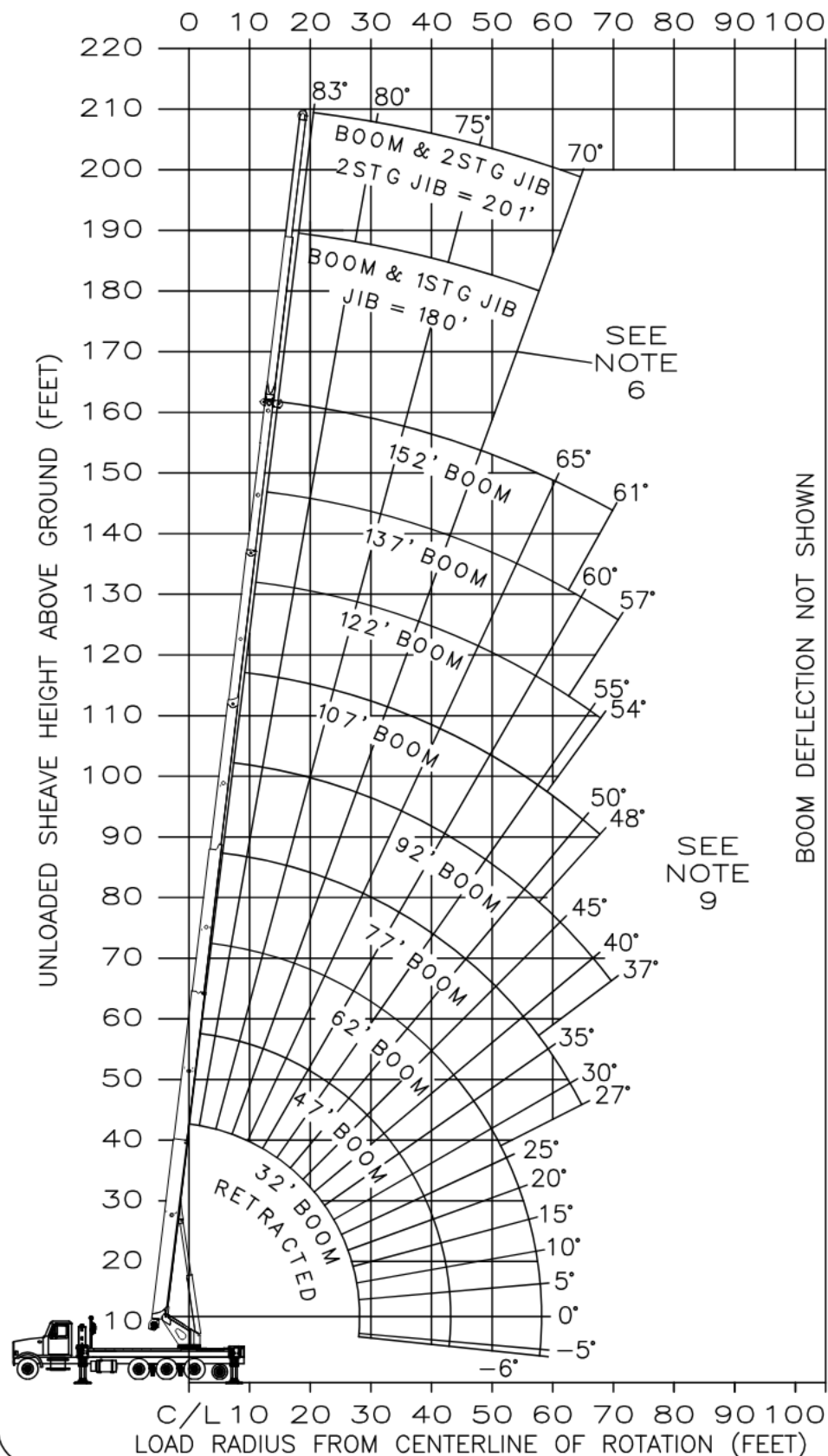
DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

- OVERHAUL BALL: 230 LBS
- 1-SHEAVE LOADBLOCK: 360 LBS
- 2-SHEAVE LOADBLOCK: 500 LBS
- 3-SHEAVE LOADBLOCK: 600 LBS

0° BOOM CAPACITIES
STOWED JIB LOAD DEDUCTIONS
TELESCOPIC JIB DEDUCTIONS

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(SHEET 1)

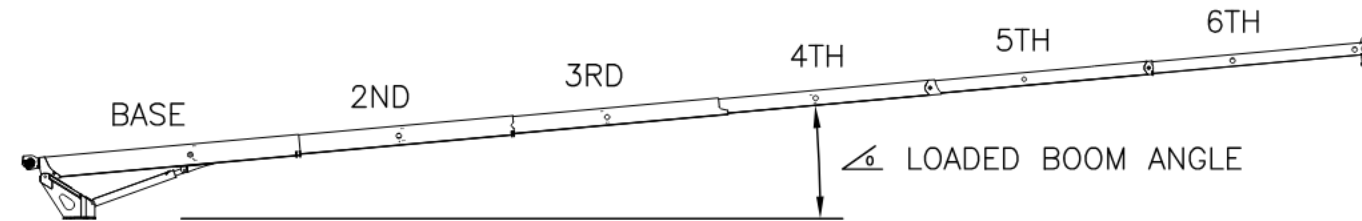
RANGE DIAGRAM – MID SPAN OUTRIGGERS



Atec MODEL: AC40-152S

Altec Industries Inc.

BOOM LOAD CAPACITIES IN LBS. WITH MID SPAN OUTRIGGERS (17 FT 11 IN)

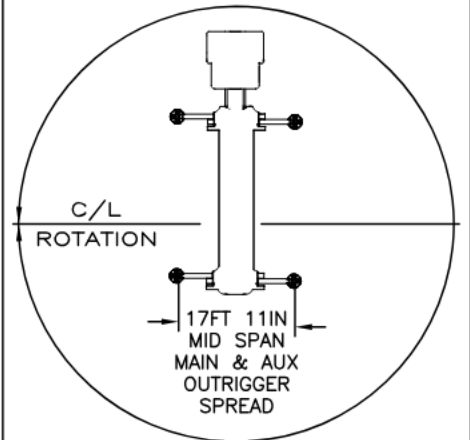


LOAD RADIUS (FT)	32 FT BOOM	47 FT BOOM	62 FT BOOM	77 FT BOOM	92 FT BOOM	107 FT BOOM	122 FT BOOM	137 FT BOOM	152 FT BOOM
	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS	∠ LBS
7	72 80000	78 21100	81 21000						
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12	62 58550	71 21100	76 21000	79 20900	81 20800				
15	56 47850	67 21100	73 21000	77 20900	79 20800	82 17200			
20	43 29350	60 21100	68 21000	73 20900	76 20800	79 17200	80 14100	82 10000	
25	27 17550	53 19050	63 19750	69 20150	73 20400	76 15700	78 14100	80 10000	81 8000
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35		34 9050	52 9650	61 10000	66 10200	71 10350	74 10500	76 10000	78 8000
40		20 6350	46 7000	56 7300	63 7550	68 7700	71 7800	74 7900	76 7950
45			39 5050	52 5400	59 5600	65 5750	68 5850	71 5950	74 6000
50			31 3600	47 3950	55 4150	62 4300	66 4400	69 4450	72 4550
55			19 2400	41 2800	51 3000	59 3150	63 3250	66 3300	69 3400
60				35 1850	47 2050	55 2200	60 2300	64 2400	67 2450
65				27 1100	42 1300	52 1450	57 1550	62 1650	65 1700
70					37 650	48 800	54 900	59 1000	63 1050
75								57 500	61 500
80									
85									
90									
95									
0	9400	0 4900	0 1700	SEE NOTE 9					
	1130	790	600	480	400	350	300	270	240

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

AREA OF OPERATION

360° CAPACITY WORKING AREA WITH MID SPAN OUTRIGGERS



DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

OVERHAUL BALL: 230 LBS

1-SHEAVE LOADBLOCK: 360 LBS

2-SHEAVE LOADBLOCK: 500 LBS

3-SHEAVE LOADBLOCK: 600 LBS

0° BOOM CAPACITIES

STOWED JIB LOAD DEDUCTIONS

TELESCOPIC JIB DEDUCTIONS

JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS. JIB CAPACITIES ARE FOR MID SPAN OUTRIGGERS (17 FT 11 IN)

LOADED BOOM ANGLE		70° *	75°	80°	83°
TELESCOPING	RETRACTED 28 FT JIB	1300	3900	4000	4000
	EXTENDED 49 FT JIB	1000	2600	2600	2600

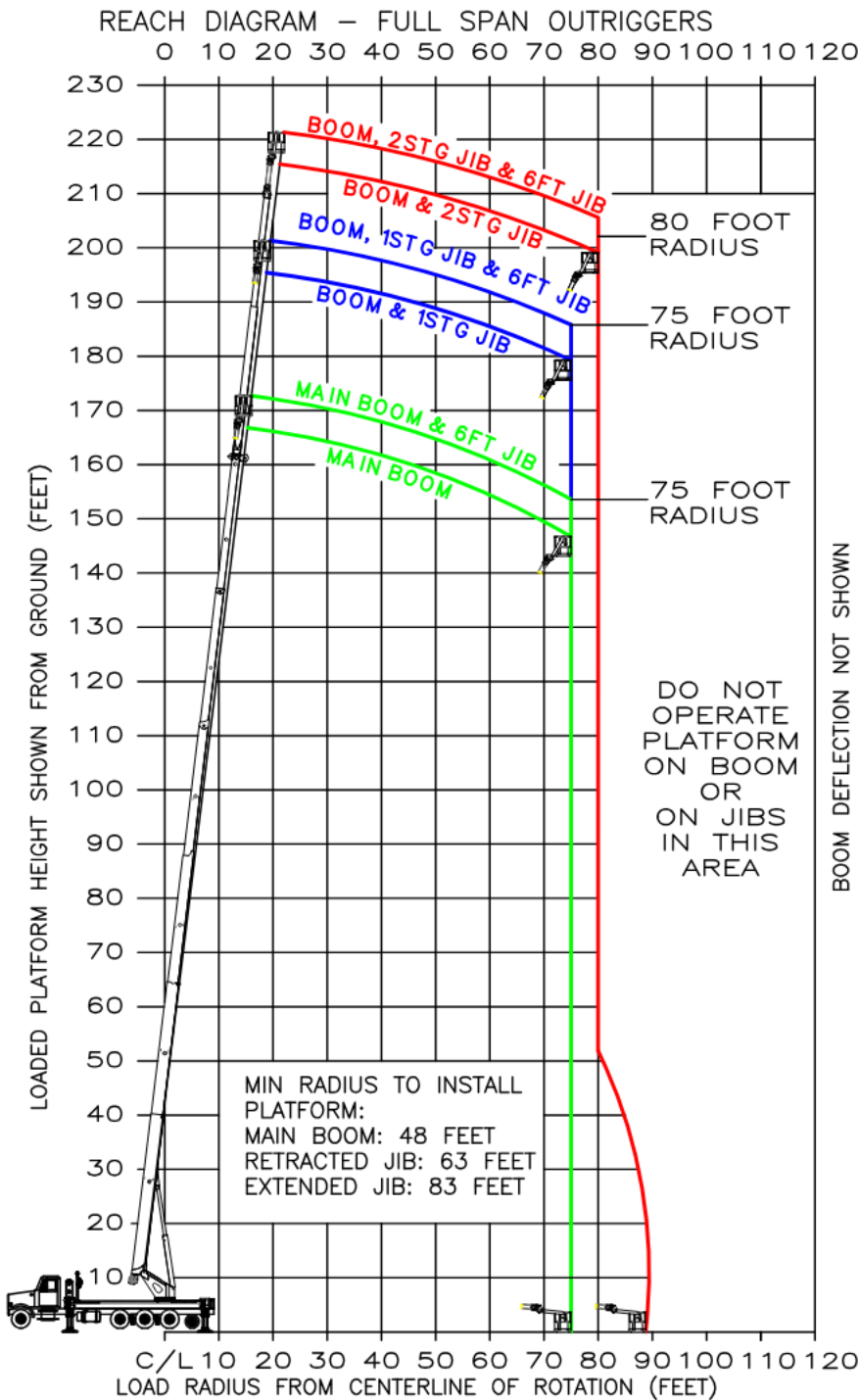
* DO NOT OPERATE JIBS BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 6.

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(SHEET 2)

MID SPAN OUTRIGGERS



AERIAL OPERATION—BOOM & JIBS MODEL AC40-152S



NON-INSULATED PLATFORM ASSEMBLY

FOR USE WITH ALTEC
PLATFORM ASSEMBLY PART
NUMBER 970420841 ONLY.

ONLY FOR USE ON
ALTEC AC40-152S.

DO NOT OPERATE THE
PLATFORM IN WINDS IN
EXCESS OF 20 MPH AT
PLATFORM WORKING HEIGHT.

PLATFORM ASSEMBLY
WEIGHT = 649 LBS.

PLATFORM LOAD
CAPACITY = 1200 LBS.

LOAD LINE MUST BE
STOWED AT WINCH WHEN
UNIT IS OPERATED
IN AERIAL MODE.

ANSI/SIA A92.2
COMPLIANT

ALTEC INDUSTRIES
325 SOUTH CENTER DRIVE
DALEVILLE, VA 24083

MFG. DATE __mo/20__yr

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