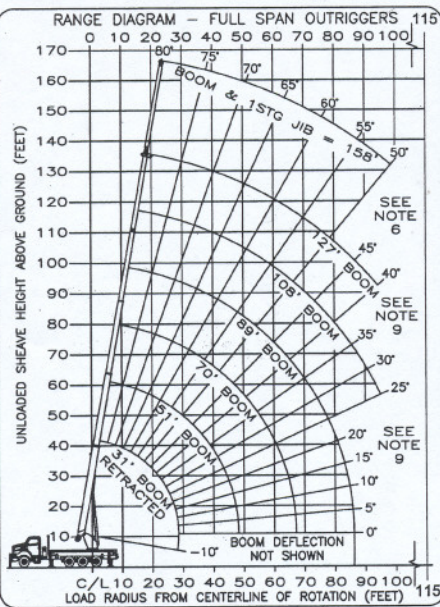


# Altec AC38-127S Hydraulic Telescopic Crane



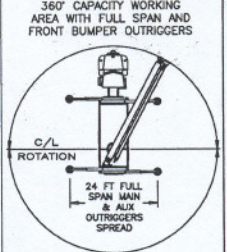
- 38 Ton (34.5 t) Maximum Lifting Capacity
- 127 ft (38.7 m) 5-Section Boom
- Altec LMAP (Load Moment & Area Protection) System



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

RADIUS (FEET)	31 ft		51 ft		70 ft		89 ft		108 ft		127 ft	
	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)
4.5	76	80 000										
6	73	76 000										
8	70	62 600										
10	66	54 000	75	35 000								
12	61	47 500	73	33 000								
15	55	39 500	70	31 500	75	30 000						
20	43	31 500	63	26 450	71	23 000	75	17 000				
25	26	24 500	57	23 300	67	20 500	72	16 500	75	14 000		
30			50	19 200	62	15 650	68	14 400	72	13 100	75	9 100
35			42	15 300	57	13 700	65	11 850	69	11 340	73	8 500
40			33	12 700	52	11 000	61	10 000	67	10 100	70	7 900
45			20	10 400	47	9 950	57	9 000	64	8 500	68	7 350
50					34	7 500	54	8 000	61	7 400	65	6 500
55					26	6 000	45	6 400	54	5 550	60	4 900
65					14	5 200	40	5 300	51	5 000	58	4 200
70							35	4 600	48	4 300	55	3 600
75							29	3 800	44	3 500	52	3 300
80							21	3 100	40	3 100	49	3 100
85							9	2 500	36	2 700	46	2 800
90									31	2 200	43	2 400
95									25	1 700	40	1 800
100									18	1 200	36	1 500
105											32	1 200
110											27	950
115											22	625
0	15500	0	6450	0	2900	0	1450	0	700	no capacity	0	no capacity
	500		350		250		200		150		150	

**AREA OF OPERATION**



DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

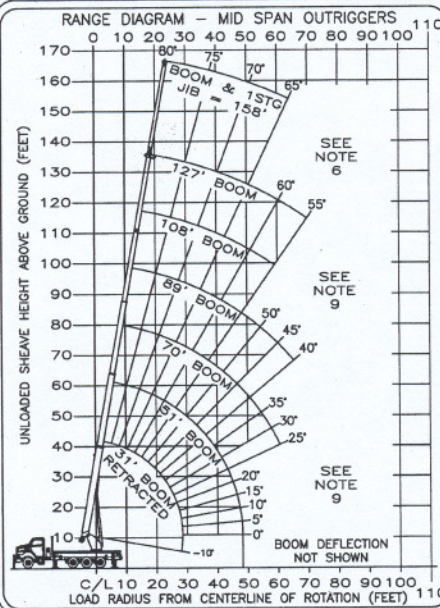
- OVERHAUL BALL: 230 LBS
- 1-SHEAVE LOADBLOCK: 360 LBS
- 2-SHEAVE LOADBLOCK: 500 LBS
- 3-SHEAVE LOADBLOCK: 600 LBS

**JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS**

JIB CAPACITIES FOR FULL SPAN OUTRIGGERS (24 FT)

LOADED BOOM ANGLE	50° (*)	55°	60°	65°	70°	75°	80°
1 STAGE 31 FT JIB	1200	1650	2200	2600	3100	3400	3900

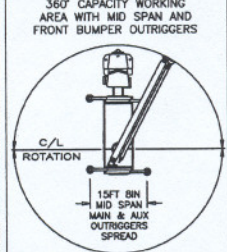
\* DO NOT OPERATE JIB BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 6.



**BOOM LOAD CAPACITIES IN LBS. WITH MID SPAN OUTRIGGERS (15 FT 8 IN)**

RADIUS (FEET)	31 ft		51 ft		70 ft		89 ft		108 ft		127 ft	
	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)	∠ (lb)
4.5	76											
6	73											
8	70											
10	66	54 000	75	35 000								
12	61	48 315	73	33 000								
15	55	38 793	70	31 500	75	28 643						
20	43	22 162	63	24 212	71	22 662	75	17 000				
25	26	13 668	57	15 368	67	15 968	72	16 500	75	14 000		
30			50	10 623	62	11 173	68	11 623	72	11 823	75	9 100
35			42	7 578	57	8 078	65	8 528	69	8 828	73	8 600
40			33	5 540	52	6 040	61	6 490	67	6 640	70	6 890
45			20	3 967	47	4 567	57	4 917	64	5 067	68	5 317
50					41	3 664	54	3 734	61	3 834	65	4 084
55					34	2 480	49	2 790	58	2 880	63	3 090
60					26	1 696	45	2 046	54	2 146	60	2 246
65					14		40	1 426	51	1 478	58	1 628
70							35		48		55	1 158
0	7850	0	2050	no capacity	250	no capacity	200	no capacity	150	no capacity	150	no capacity
	500		350		250		200		150		150	

**AREA OF OPERATION**



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

**JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS**

JIB CAPACITIES FOR MID SPAN OUTRIGGERS (15 FT 8 IN)

LOADED BOOM ANGLE	65° (*)	70°	75°	80°
1 STAGE 31 FT JIB	450	1700	3400	3900

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

1 PART LOAD LINE	2 PART LOAD LINE	3 PART LOAD LINE	4 PART LOAD LINE	5 PART LOAD LINE	6 PART LOAD LINE
LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO
12,971 LBS. IWRC XXIP	25,942 LBS. IWRC XXIP	38,913 LBS. IWRC XXIP	51,884 LBS. IWRC XXIP	64,855 LBS. IWRC XXIP	76,000 LBS. IWRC XXIP
9,080 LBS. ROT. RESISTANT WIRE ROPE	18,160 LBS. ROT. RESISTANT WIRE ROPE	27,240 LBS. ROT. RESISTANT WIRE ROPE	36,320 LBS. ROT. RESISTANT WIRE ROPE	45,400 LBS. ROT. RESISTANT WIRE ROPE	54,480 LBS. ROT. RESISTANT WIRE ROPE
127 FT + 31 FT JIB	119 FT + BOOM	87 FT BOOM	68 FT BOOM	55 FT BOOM	46 FT BOOM

MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN TO REACH THE GROUND

SEE OWNERS MANUAL FOR OTHER REEVING OPTIONS

With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.

**CAUTION**

OPERATOR AIDS MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNERS MANUAL.

KEEP AT LEAST 3 WRAPS OF LOADLINE ON DRUM AT ALL TIMES.

USE ONLY 5/8" DIAMETER IWRC OR ROTATION RESISTANT WIRE ROPE WITH 45,400 LBS. MIN. BREAKING STRENGTH ON THIS MACHINE.

**ANGER**

- The operator must read, understand and follow the instructions found in the owners manual before operating this crane.
- Positioning or operation of crane beyond areas shown on this chart is not intended nor approved except where specified in owners manual.
- Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for the deflections. Do not exceed the operating radius for rated loads.
- When between listed boom lengths or radii, always use the smallest of the values shown. Capacities for the 31-ft boom length must only be lifted with boom fully retracted.
- Do not attempt to tip the machine to determine allowable loads.
- 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° angle with full span outriggers and below a 65° angle with mid span outriggers. Use rating of next lower boom angle for boom angles not shown on jib load rating chart.
- Do not lift off the main boom tip while the jib is erected. Do not travel with crane boom extended or jib erected.
- Do not lower boom into this area. Instability may occur. Hydraulic pressure may not allow raising the boom without retracting boom first.
- Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on firm uniform supporting surface. Do not move a load horizontally on the ground in any direction.
- Actual working capacities depend on supporting surface, wind and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling. All these factors must be taken into account by the operator.
- The maximum in service wind speed is 20 mph. It is recommended when wind velocity is between 20 mph and 30 mph rated loads and boom lengths shall be appropriately reduced and/or other measures shall be taken to ensure stability and load control. When wind speed exceeds 30 mph main boom should be retracted and stowed.
- For duty cycle operations (e.g., clam shell, concrete bucket work) weight of load must not exceed 80% of rated lifting capacities.
- Multi-crane lift operations must be carefully planned well in advance and should only be performed by skilled personnel experienced in such procedures.
- When operating the crane in the "Mid Span" mode, the outrigger beam pins must be properly engaged.
- The maximum load which may be telescoped is limited by hydraulic pressure, boom angle and boom lubrication. It is allowable to attempt to telescope any load within the limits of the load rating chart.
- Never handle personnel with this machine unless the requirements of applicable national, state, and local regulations and safety codes are met.
- Do not lift loads when boom is fully lowered. The LMAP senses pressure and will not provide warnings or lockout when the boom cylinder is fully retracted.

**INFORMATION**

- Deductions must be made from rated loads for stowed jib, optional attachments, hooks and loadblocks (see deduction chart). Weights of slings and other load handling equipment shall be considered a part of the load.
- Crane load ratings with outriggers are based on outriggers extended and set with all tires clear of the ground.
- Load ratings do not exceed 85% of tipping load.

**DEFINITIONS**

- Operating radius is the horizontal distance from the centerline of rotation to the center of the vertical load line or load hook with load suspended.
- Loaded boom angle as shown in the capacity chart is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.