BoomTruck 36127R

TECHNICAL SPECIFICATIONS







36127R SIDE VIEW DIAGRAM ELLIOTT 12'-10" 12'-6" 204" 272" 41'-5"

Working Area

Lifting Capacity

Boom Length

• Crane Weight (Standard)

• Jib Lengths

• Winch Bare Drum Pull

186¹/56,7 m

360 Degrees

72,000 lbs/32 659 kg

127'/39m

33,585 lbs/15 234 kg

32-49'/10-15 m

12,800 lbs/5806 kg

• Powered Boom Sections

• Overall Height

Operator Controls

• Outrigger Type Front

Outrigger Spread Front

• Outrigger Type Rear

Outrigger Spread Rear

5

12'10"/3,9 m

Rotating Standup

Out-Down

21'2"/6,4 m

Out-Down

21'2"/6,4 m



Elliott Equipment Company 3514 South 25th Street Omaha, NE 68105

Phone: 402-592-4500 Fax: 402-592-4553 Email: sales@elliottequip.com



TECHNICAL SPECIFICATIONS

Crane Capacity: 72,000 lbs at 5' load radius.

Maximum Tip Height: 137' height (186' with optional 49' jib)

Control Console: Rotating turret single operator standup control station equipped with four single axis control levers for the main crane controls. Operator station includes LMI display, bubble level gauge, engine start/stop switch, signal horn button, variable speed throttle switch, lifting capacity chart, range diagram chart, boom angle indicator, system pressure gauge, 12V DC power source, and cup holder. Independent ground level electric operated outrigger controls.

Boom: Five-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 137' mounted on a truck. The boom nose contains one floating upper sheave and three lower sheaves. Assembly includes heavy-duty cylinder fittings, pivot pins, and replaceable wear pads.

Winch: Mounted at the base of the boom for a long fleet angle and flat level spooling of cable. Winch is driven by a planetary reducer and powered by a hydraulic motor. Burst-of-speed winch provides increased line speed. The winch brake is spring applied, pressure release design. Supplied with 425' of 9/16" diameter rotation resistant wire rope with a single line pull of 9,060 pounds, and a downhaul ball with swivel hook for single part line.

Load Moment Indicator System:

System senses hoist cylinder pressures, boom length and boom angle with hydraulic function lockout. The display console is equipped with a bar graph showing crane utilization, boom angle or boom length, a mode select controls for main boom and jib operation, and an anti-two block with an audio/visual warning and shut-off functions to limit

hook-boom point contact.

Outriggers: Two sets of out and down overframe outriggers with 21'2" span. Outriggers are configured for full span or mid span operation. Outriggers equipped with ball socket aluminum removable pads that stow on vertical outrigger legs. Single front bumper stabilizer.

Frame: Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of 20' aluminum bed wings, with top plate of subbase serving as a portion of the bed deck, to form a three-piece bed.

Turret: Reverse offset turret is onepiece weldment. Turret rotates on large diameter ball bearing.

Rotation: Hydraulic motor drives turret through double reduction planetary swing drive for continuous rotation. The swing drive system has a spring applied, pressure release brake.

Lift: One double-acting long stroke cylinder provides smooth and stable boom elevation. Holding valve prevents boom from falling in event of hose failure.

Boom Extension: Incorporates a 2-stage hydraulic extension cylinder, attached to the largest boom section, with a proportional cable extension system driving the outermost sections.

Hoses: All high pressure hoses are wire braid reinforced with a minimum safety factor of 4 to 1.

Cylinders: All cylinders use microhoned cylinder tubing, chrome shafts, top grade packing and protective rod wipers. Cylinder-mounted holding valves provided on all load-holding cylinders.

Hydraulic System: Equipped with air-shift PTO, piston pump, SAE O-ring face seals on pressure lines, and a 10-micron return line filter. The control valve distributes all flow to hoist system,

swing circuit, and other crane functions. System is closed center type.

Oil Tank Capacity: 143 gallon mounted on truck frame.

Cab Equipment: PTO switch with indicator lights installed in truck cab. U/L approved 5:BC dry chemical fire extinguisher installed in truck cab.

Operators Manual & Video: Two CD copies and one hard copy of operation, maintenance, safety and parts manual provided with each unit. Operational and safety video provided at delivery.

Installation: Unit installed on chassis, painted, system and tank filled with oil, tested, inspected, and ready to operate.

Standard Paint: Paint turret and boom white, outriggers red, and boxes black.

Bumper: Bureau of Motor Carrier Safety rear bumper.

Weight: Approximately 33,585 lbs. with 20' bed wings less truck.

Truck Chassis Required: Approx. 200" C.T. RBM 3,300,000 in-lb. per rail, 20,000 lb. front axle and 78,000 lb. GVWR recommended. Trucks must have 12V electrical system with high capacity alternator, cab clearance stop/tail/backup lights, and I.D. lamps. Contact factory when additional equipment is to be added.

Options:

Much more....

Enclosed Operator Cab
Open Seated Lower Controls
32' to 49' Two-Piece Telescopic Jib
Radio Remote Controls
Gravity-Leveled Steel Basket
Tool Box Configurations
Line Blocks for Multi-Part Line
Hydraulic Oil Cooler

Elliott Equipment Company reserves the right to change the specification of any unit at any time without prior notice. This brochure is only a statement of general specifications on the date of this publication. For more detailed info on specific Elliott trucks go to www.elliottequip.com



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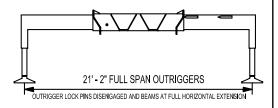
LOAD CHART - MAIN BOOM, FULL-SPAN OUTRIGGERS

MODEL 3600 127-ft BOOM

LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS

	MAIN BOOM LOAD RATINGS (lbs)											
LOAD	LOADED		LOADED	Α	LOADED	В	LOADED	С	LOADED	D	LOADED	Е
RADUIS IN FEET	BOOM ANGLE	32-ft	BOOM ANGLE	52-ft	BOOM ANGLE	70-ft	BOOM ANGLE	90-ft	BOOM ANGLE	110-ft	BOOM ANGLE	127-ft
5	73.0	72,000										
8	67.0	54,000										
10	63.0	48,000	73.2	36,000								
12	60.0	43,000	70.9	36,000								
15	53.0	33,500	67.4	31,000	74.7	28,000						
20	40.0	23,550	61.3	24,300	69.5	23,000	76.0	18,000				
25	23.0	17,400	54.8	18,200	66.0	18,000	72.5	17,500	77.0	14,200	80.0	8,800
30			47.7	14,000	62.0	14,300	69.0	14,500	74.2	12,900	77.5	8,400
35			39.7	11,150	56.5	11,400	65.0	11,500	71.0	11,400	75.0	8,000
40			30.1	8,950	51.9	9,000	61.0	9,400	68.0	9,500	72.5	7,500
45			15.9	7,250	45.5	7,500	57.0	7,700	65.0	7,800	70.0	7,000
50					40.0	6,100	53.5	6,300	61.5	6,400	67.0	6,450
55					33.0	5,000	49.5	5,200	58.5	5,300	64.5	5,350
60					24.0	4,000	45.2	4,200	55.0	4,300	62.0	4,400
65							40.5	3,300	51.3	3,500	59.5	3,550
70							34.0	2,600	48.0	2,700	56.0	2,800
75							28.0	2,050	44.4	2,150	53.5	2,200
80							20.0	1,500	40.6	1,600	50.0	1,700
85									36.5	1,150	44.0	1,200
90									31.5	800	44.3	850
95											40.0	500
	0	15,550	0	6,900	0	3,200	0	1,100				
		1,000		650		450		400		300		250
									30.0		40.0	

JIB LOAD RATINGS (lbs)									
	32-49 ft EXTENDABLE JIB								
LOAD RAD I US (FT)	LOADED BOOM ANGLE	32ft J I B RETRACTED		LOAD RAD I US (FT)	LOADED BOOM ANGLE	49-ft JIB EXTENDED			
30	80.0	3,400							
46	75.0	3,200		33	80.0	2,200			
60	70.0	2,700		50	75.0	2,200			
73	65.0	2,100		65	70.0	1,600			
85	60.0	1,700		80	65.0	1,000			
95	55.0	1,200							



ELLIOTT EQUIPMENT CO. SUPPLIED	
LOADLINE EQUIPMENT DEDUCTIONS:	
DOWNHAUL WEIGHT	.180 lbs
ONE SHEAVE BLOCK	236 lbs
TWO SHEAVE BLOCK	291 lbs
THREE SHEAVE BLOCK	639 lbs
FOUR SHEAVE BLOCK	762 lbs
AUXILIARY SHEAVE	100 lbs

MINIMUM BOOM ANGLE (°) FOR INDICATED LENGTH (NO LOAD) MAXIMUM BOOM LENGTH (FT) AT 0° BOOM ANGLE (NO LOAD)

DO NOT PAINT OVER ANY LABELS

DEDUCTIONS FOR STOWED EXTENDABLE JIB (lbs)

1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	5-PART LINE	6-PART LINE	7-PART LINE	8-PART LINE	NOTICE
(II) Description (IN)								- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES USE ONLY 9/16 DIAMETER WIRE ROPE, AS SPECIFIED BELOW, WITH THE PROPER BREAKING STRENGTHS LISTED ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION & SAFETY MANUAL.
MAX PULL: 9,600 lbs	19,200 l bs	28,800 l bs	38,400 l bs	48,000 l bs	57,600 lbs	67,200 l bs	72,000 l bs	9/16" - 6 x 37 IWRC (3.5:1 S.F.) 33,600-lbs. BREAKING STRENGTH
MAX PULL: 9,060 lbs	18,120 lbs	27,180 lbs	36,240 l bs	45,300 lbs	54,360 lbs	63,420 lbs	72,000 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300 lbs. BREAKING STRENGTH

90'



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CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE

LOAD CHART - MAIN BOOM, MID-SPAN OUTRIGGERS

ELLIOTT

MODEL 3600 127-ft BOOM

LOAD RATINGS WITH OUTRIGGERS AT MID-SPAN POSITION

	EQUIPMENT COMPANY											
				MA	N BC	OM LO	DAC	RATIN	IGS (lbs)		
LOAD	LOADED		LOADED	Α	LOADED	В	LOADED	С	LOADED	D	LOADED	E
RADUIS IN FEET	BOOM ANGLE	32 - ft	BOOM ANGLE	52-ft	BOOM ANGLE	70-ft	BOOM ANGLE	90-ft	BOOM ANGLE	110-ft	BOOM ANGLE	127-ft
5	73.0	72,000										
8	67.0	54,000										
10		48,000	_	36,000								
12		36,000		36,000	_							
15	53.0	30,000		31,000	74.7	28,000						
20	40.0	16,200	61.3	17,000	69.5	17,000	76.0	17,000				
25	23.0	10,100	54.8	11,400	66.0	11,700	72.5	12,000	77.0	12,000	80.0	8,800
30			47.7	7,500	62.0	7,800	69.0	8,000	74.2	8,000	77.5	8,400
35			39.7	5,200	56.5	5,500	65.0	5,800	71.0	5,800	75.0	6,300
40			30.1	3,600	51.9	4,000	61.0	4,100	68.0	4,150	72.5	4,200
45			15.9	2,200	45.5	2,600	57.0	2,800	65.0	2,800	70.0	3,100
50					40.0	1,700	53.5	1,900	61.5	1,900	67.0	2,000
55					33.0	900	49.5	1,150	58.5	1,150	64.5	1,300
60							45.2	500	55.0	600	62.0	700
	0	8,800	0	3,600								
									<u> </u>			
		1,000		650		450		400		300		250
					1 30 0		450		55.0		I 60 0 I	

	JIB LOAD RATINGS (lbs)									
	32-49 ft EXTENDABLE JIB									
LOAD RADIUS (FT)	LOADED BOOM ANGLE	32ft J I B RETRACTED		LOAD RADIUS (FT)	LOADED BOOM ANGLE	49-ft J I B EXTENDED				
30	80.0	3,400								
46	75.0	3,200		33	80.0	2,200				
60	70.0	1,500		50	75.0	2,200				
				65	70.0	900				



ELLIOTT EQUIPMENT CO. SUPPLIED	
LOADLINE EQUIPMENT DEDUCTIONS:	
DOWNHAUL WEIGHT	180 lbs
ONE SHEAVE BLOCK	236 lbs
TWO SHEAVE BLOCK	291 lbs
THREE SHEAVE BLOCK	639 lbs
FOUR SHEAVE BLOCK	762 lbs
AUXILIARY SHEAVE	100 lbs

DEDUCTIONS FOR STOWED EXTENDABLE JIB (lbs)
MINIMUM BOOM ANGLE (°) FOR INDICATED LENGTH (NO LOAD)

MAXIMUM BOOM LENGTH (FT) AT 0° BOOM ANGLE (NO LOAD)

DO NOT PAINT OVER ANY LABELS

L							7		7== (1.10 = 0.15)
ſ	1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	5-PART LINE	6-PART LINE	7-PART LINE	8-PART LINE	NOTICE
									- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM. KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES USE ONLY 9/16" DIAMETER WIRE ROPE, AS SPECIFIED BELOW, WITH THE PROPER BREAKING STRENGTHS LISTED ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION & SAFETY MANUAL.
L	MAX PULL: 9,600 lbs	19,200 l bs	28,800 lbs	38,400 l bs	48,000 l bs	57,600 l bs	67,200 l bs	72,000 lbs	9/16" - 6 x 37 IWRC (3.5:1 S.F.) 33,600-lbs. BREAKING STRENGTH
	MAX PULL: 9,060 lbs	18,120 lbs	27,180 lbs	36,240 lbs	45,300 lbs	54,360 lbs	63,420 l bs	72,000 l bs	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH

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CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE

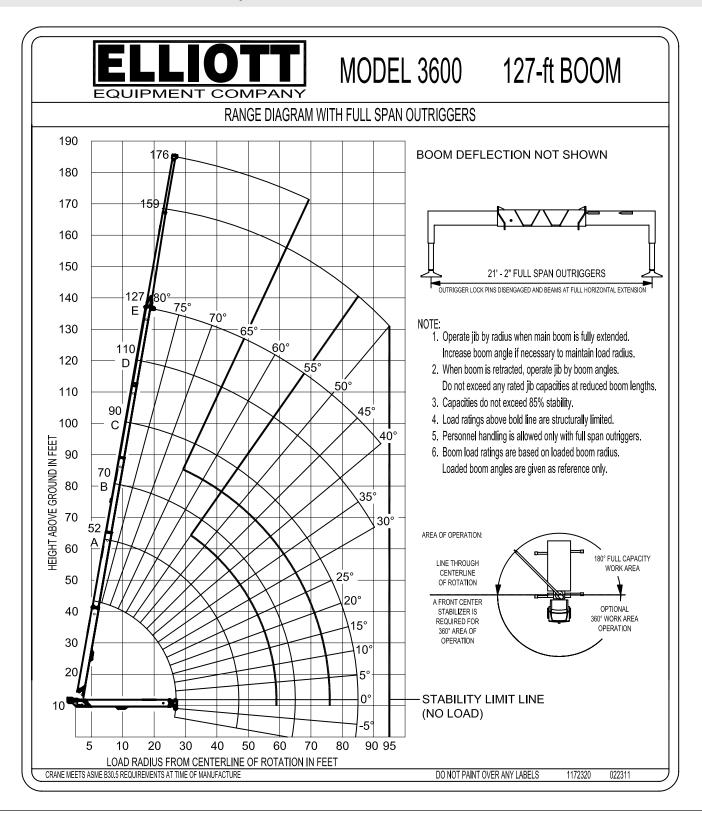


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RANGE CHART - MAIN BOOM + JIB, FULL-SPAN OUTRIGGERS

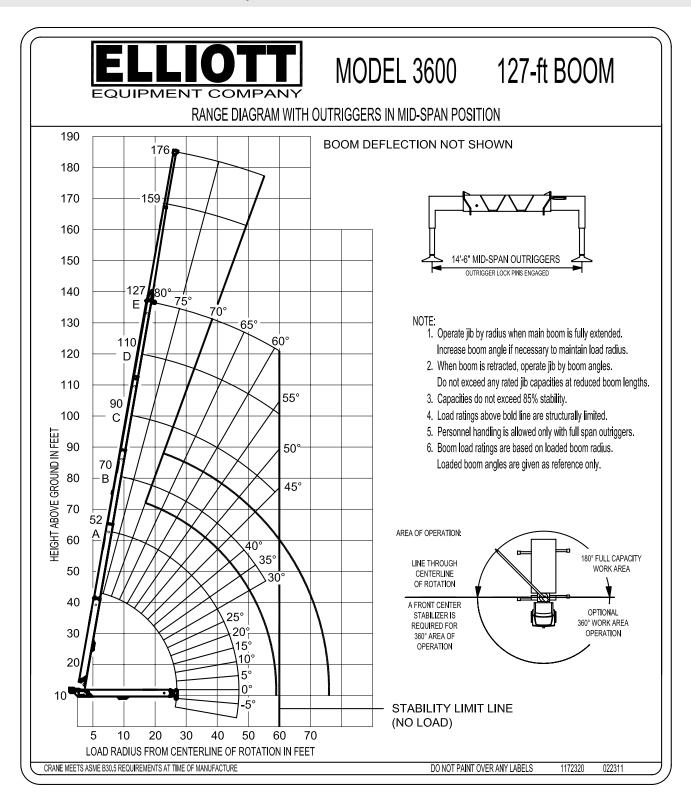




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RECOMMENDED CHASSIS SPECIFICATIONS

	36127R BoomTruck
Wheelbase (WB)	286" / 726 cm
Cab to Axle (CA)	200" / 508 cm
Cab to End of Frame (EOF)	320" / 813 cm
Frame Section Modulus	30.0 in3-110,000 psi / 492 cm3-758,428 kPa
Front Axle Gross Weight Rating	20,000 lb / 9072 kg
Rear Axle Gross Weight Rating	53,200 lb / 24 131 kg (13,200 lb Pusher Axle)
Integral Front Frame Rails	Required for Front Stabilizer

Chassis data is minimum general requirements-not for engineering.

Actual dimensions and truck data will depend on truck selection and axle configuration.

OPTIONS



Radio Remote Control

Interference protected radio remotes let you get closer to your work and have full control over your machine. Includes battery charging feature and optional LMI screen.



Pin-On Jib Attachments

Two piece telescoping jib with material handling and basket attachment capabilities. Stows on the side of the boom for easy placement while on the worksite.



Hydraulic Oil Cooler

Add a hydraulic oil cooler to assist with high duty cycle job applications.



Automatic Safety Rotation Lockout

"Short-jack" your BoomTruck by adding an automatic safety lockout to prevent boom movement over the side where outriggers are not fully extended.



Tool Boxes

Optional tool boxes and bed storage can accommodate any storage need for tools, work materials and more.



Hook Block for Multi-Part Line

Elliott can install a 2-3 part hook block or a 4 part-hook block to improve lifting capabilities. The block can be stored towards the front of the bed.



Gravity Leveled Basket

Elliott's new 600 lb capacity 2-man platform features a hydraulic yoke lifting system for easy attachment to the boom tip. Fully OSHA compliant and heavy duty.



Body Mounted Hose Reels and Circuits

Let us work with you to customize your tool compatability by adding hose reels or hydraulic circuits to the crane bed.



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Built for You. www.elliottequip.com

^{*}Minimum chassis weight is required to meet 85% stability requirements