BoomruckTM **30105F-D** TECHNICAL SPECIFICATIONS



30105F-D SIDE VIEW DIAGRAM 31'-0" RETRACTED LENGTH 105'-0" EXTENDED LENGTH D 154" OAH 12'-10" 22' BED WITH 44" FRAME HEIGHT \square Ö Ô (119") 137" BBC - 212" CT 278" WB APPROXIMATELY 523" OAL 42'-6"

 • Maximum Vertical Reach
 162'/49 m

 • Working Area
 180 Degrees Standard (360 Optional)

 • Lifting Capacity
 60,000 lbs/27 216 kg

 • Boom Length
 105'/32 m

 • Crane Weight (Standard)
 29,785 lbs/13 510 kg

 • Jib Lengths
 26', 26-45'/ 8-14 m

 • Winch Bare Drum Pull
 12,800 lbs/5806 kg

 • Hydraulic Digger Radius
 44'/13,4 m

Powered Boom Sections	4
• Overall Height	13′/4 m
Operator Controls	Rotating Standup
• Outrigger Type Front	Out-Down
Outrigger Spread Front	20'/6 m
• Outrigger Type Rear	Out-Down
• Outrigger Spread Rear	20'/6 m



Elliott Equipment Company 4427 South 76th Circle Omaha, NE 68127



TECHNICAL SPECIFICATIONS

Crane Capacity: 60,000 lbs at 5' load radius.

Maximum Tip Height: 117' height (162' with optional 45' 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: Four-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 117' 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. 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.

Auger System: 20,000 lb. automatic two-speed auger with 2 5/8" hex drive mounted at end of boom. Auger equipped with a 2 5/8" Kelly bar (auger extension bar) able to accept 24", 36", or 48" flightings. Auger and flighting to be stowed on side of boom from controls operated at main control station. Up to a 36" flighting to be stowed during transport. The auger provides a 44' digging radius. Auger will be provided with alternate radio remote control system with integral LMI display in radio transmitter.

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 20' 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. Front stabilizer provides 360 degree area of operation.

Frame: Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of 22' 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 372-degree non-continuous rotation.

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: 120 gallon mounted to truck frame on streetside.

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 bed and boxes black. Top of bed painted with black nonskid surface.

Bumper: Bureau of Motor Carrier Safety rear bumper.

Weight: Approximately 29,785 lbs. with 22' steel-floor bed less truck.

Truck Chassis Required: Approx. 204" C.T. RBM 3,300,000 in-lb. per rail, 20,000 lb. front axle and 60,000 lb. GVWR required. Trucks must have front frame extension, 12V electrical system with high capacity alternator, cab clearance stop/tail/backup lights, and I.D. lamps. Recommended GVWR is minimum for BoomTruck with flatbed only. Contact factory when additional equipment is to be added.

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



Elliott Equipment Company 4427 South 76th Circle Omaha, NE 68127



LOAD CHART - MAIN BOOM + DIGGER, FULL-SPAN OUTRIGGERS



MODEL 3000 105-ft BOOM WITH DIGGER

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COME HEETS AGIE EQUIPEINED IS AT THE OF HIM PACTURE	MAX PU	LL: 9,06	0 lbs	18,1																	9/16" SPIN RESIST 45.300 BX BREAKIN	ANT (St.I.S.F.) IS STRENGTH	
	CRAME MEETS A	ISME B30.5 REQU I R	EVENTS AT TIVE OF N	ANUFACTURE											•			•		DO NOT PAINT OVER MY LAB			



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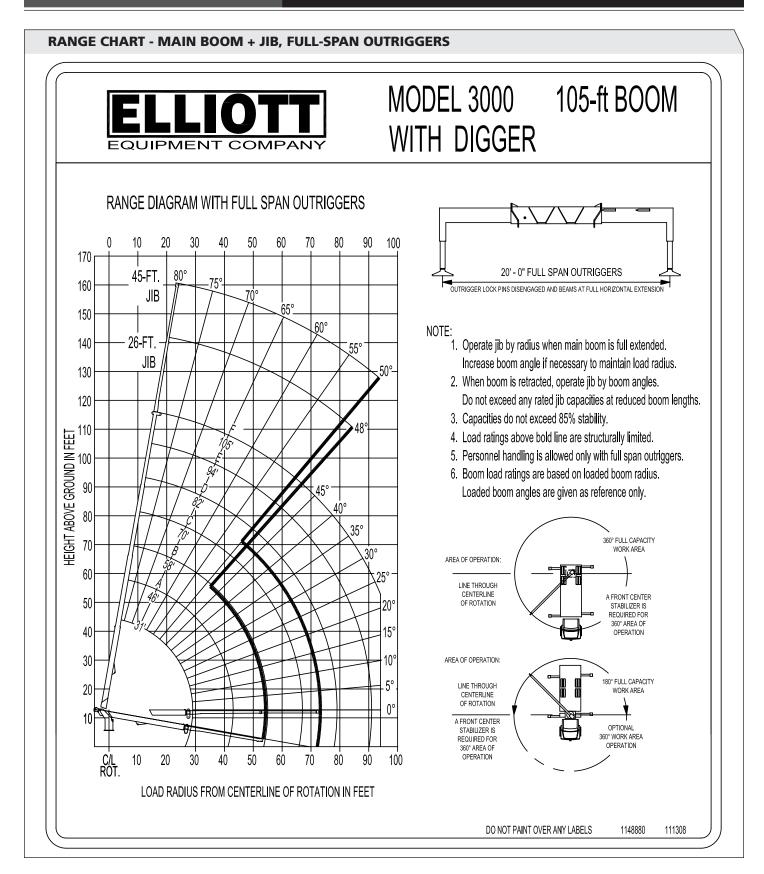
				PM											00 GEF		105	-ft [300	M		
				N	1AIN	BOON	1 LOA	AD RA	TING	S WIT	4 OU	TRIGO	SERS	AT M	ID-SP/	AN PC	SITION					
				N	1AIN	BOON	I LOA	D RAT	TING	S							JIE	B LOAI	D RAT I N	IGS		
				ATINGS IN Ib	s WITH OL	-		ILIZERS EXT		-						LOAD	RATINGS IN Ibs	WITH OUTF	RIGGERS AND S	TABILIZERS	EXTENDED	
LOAD RADUIS	LOADED BOOM		LOADED BOOM	A	LOADED BOOM	В	LOADED BOOM	C	LOADED BOOM	D	LOADED BOOM	E	LOADED BOOM	F		26-ft FIXE	D LENGTH JIB		26-45 ft EXTE	NDABLE JIE	3	
IN FEET	angle 80	31-ft 58,650	ANGLE	46-ft	ANGLE	58-ft	ANGLE	70-ft	ANGLE	82-ft	ANGLE	94-ft	ANGLE	105-ft	LOAD RADUIS IN FEET	LOADED BOOM ANGLE	26-ft JIB	LOADED BOOM ANGLE	26-ft JIB RETRACTED	LOADED BOOM ANGLE	45-ft JIB EXTENDED	
6	78	46,650													30	78.7	4,750	78.5	4.500			
8		37,250		31,050											35	76.5	4,350	76.3	4,100	77.4	2,600	
10		30,650		27,050											40	74.3	3,950	74.1	3,600	75.4	2,500	
12	66.2	26,150	74	25,050	77.4	24,550									45	72	2,950	71.7	2,700	74	2,400	
14	62	19,950	71.3	23,050		22,950		21,050							50	69.5	2,200	69.3	1,900	72.2	2,250	
16	57.6	18,150	68.6	19,050	73.3	19,250	76.3	19,750	78.3	16,950					55	67.1	1,550	66.8	1,300	70.3	2,000	
18	52.9	14,450	65.8	14,850	71.1	15,850	74.5	15,650	76.9	16,050	78.6	14,500			60	64.6	1,050	64.3	800	68.3	1,450	
20	48.9	10,850	62.9	12,050	69	12,550	72.8	12,750	75.4	13,350	77.3	13,100			65		,			66.2	1,050	
22	42.3	8,150	60	9,550	66.8	10,250	71	10,350	74	10,650	76.1	10,500	78	7,950	70					64.2	750	
25	33.8	6,450	55.3	7,250	63.5	7,550	68.7	8,100	72	8,250	74.2	8,500	76.1	7,950]							
30			46.9	4,950	58.1	5,350	64.2	5,500	68.3	5,650	71.2	5,900	73.2	6,050]							
35			37.8	3,050	51.8	3,550	59.4	3,700	64.4	3,850	67.9	4,100	70.3	4,250		LIOTT EQUIPMENT CO. SUPPLIED						
40			24.3	1,850	44.9	2,350	54.4	2,500	60.3	2,650	64.5	2,800	67.4	2,950		ADLINE EQUIPMENT DEDUCTIONS: WNHAUL WEIGHT180 lbs				lho		
45					36.9	1,450	49	1,600	56.1	1,750	61	1,900	64.3	2,050		IE SHEAVE BLOCK						
50					26.7	700	43.1	900	51.7	1,050	57.4	1,200	61.2	1,350	l TV	TWO SHEAVE BLOCK			640			
55							36.3	350	46.9	500	53.6	650	58	750	TH	IREE SI	HEAVE BL	.OCK		870		
60									41.7	100	49.6	200	54.6	300	Al	JXILIAF	Y SHEAV	E		100	bs	
	0	3,850	0	1,250											1							
DEDUCTIO	NS FOR	850		600		450		400		350		300		250		DE	DUCTIONS FO	R STOWED	EXTENDABLE J	IB (lbs)		
STOWED	JIB (Ibs)	550		350		300		250		200		150 150 DEDUCTIONS FOR STOWED FIXED LENGTH JIB								IIB (lbs)		
1-PAF	RT LIN	E 2	2-PAR	AT LINE		3-PAR1		E 4	PAR	T LINE	5	-PART	LINE	6-1	PARTL	INE	7-PAR				NOTICE	
	Sector L.)						WHEI - KEE OF LO/ DF - USE WIRE BELO/ BRE - ANTH M OPE BEFOR	BLOCK AGAINST BOOM WHEN EXTENDING BOO • KEEP AT LEAST 5 WR. OF LOADLINE ON THE W DRUM AT ALL TIMES • USE ONLY 9/16' DIAME WIRE ROPE, AS SPECIF BELOW, WITH THE PROI BREAKING STREMGT LISTED. • ANTFWO-BLOCK SYS MUST BE IN GOOD OPERATING CONDITIC BEFORE OPERATING CR SEE OPERATION & SAFI		
MAX PULL	9,600 lb	s	19,20	0 I bs		28,800 lbs			38,400	lbs		48,000 lbs			57,600 lbs		60,000 l bs			MANUAL. 9/16" - 6 x 37 IWRC (3.5:1 S.F.) 33,600-lbs. BREAKING STRENGTH		
MAX PULL:	9,060 lbs	s _	18,120) lbs		27,180	bs		36,240	lbs		45,300 li	DS		54,360 lbs		60,00)0 lbs	9/16" - SF 45.300-lb	PIN RESIST	ANT (5:1 S.F. IG STRENGT	



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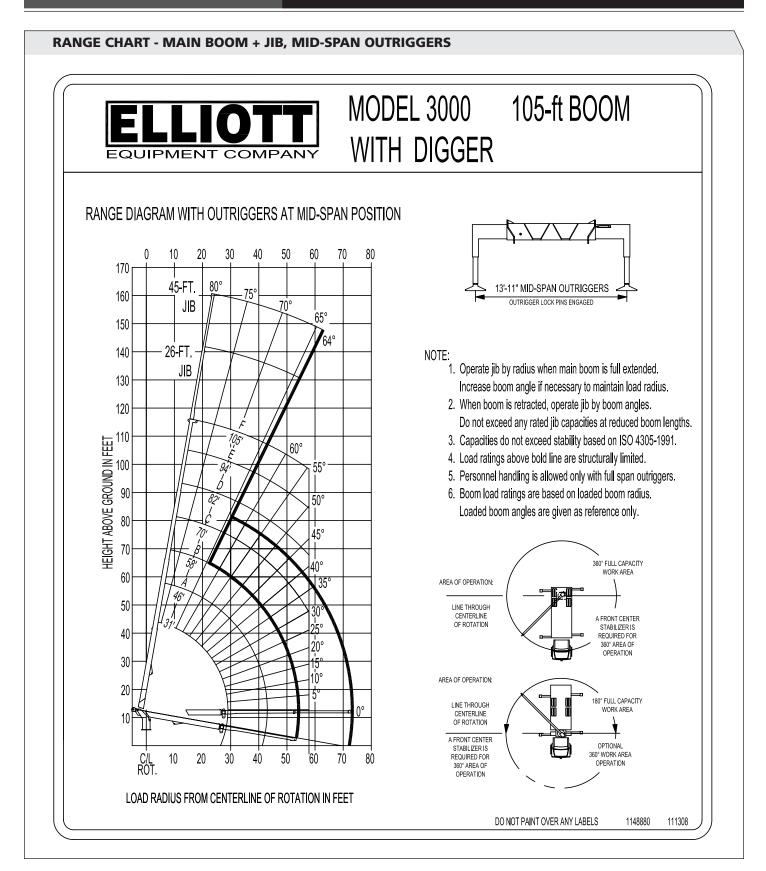
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TECHNICAL SPECIFICATIONS

TRUCK CHASSIS SPECIFICATIONS

	30105F-D BoomTruck						
Wheelbase (WB)	268″ / 681 cm						
Cab to Tandem (CT)	204" / 518 cm						
Cab to End of Frame (EOF)	334" / 594 cm						
Frame Section Modulus	30.0 in3-110,000 psi						
Front Axle Gross Weight Rating	20,000 lb / 9,071 kg						
Rear Axle Gross Weight Rating	40,000 lb / 18,143 kg						
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.

*Minimum chassis weight is required to meet 85% stbility requirements

OPTIONS



Hydraulic Pole Claw Combine Elliott's digger system with a

hydraulic pole claw to dig holes and place poles with a single machine.



Pin-On Jib Attachments One piece & two piece telescoping or fixed jibs that stow on the side of the boom for easy placement while on the worksite.



Continuous Boom Rotation Add the convenience of 360 degree continuous rotation by adding a special boom rotation bearing for swinging without stops.



Hydraulic Digger / Auger Dig faster and deeper with Elliott's selection of auger flightings up to 48" in diameter that provide an industry-leading 44' digging radius and more power out of the hole.





Tool Boxes

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





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



Gravity Leveled Basket

Elliott's pin-on work platform pins onto the boom for easy installation and removal. Gravity leveling and mechanical rotation makes it a great accessory for any worksite.



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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