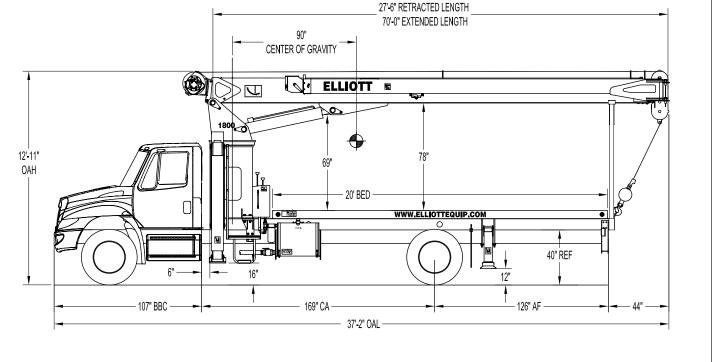
BoomTruck^M 1870F

TECHNICAL SPECIFICATIONS







- Maximum Vertical Reach • Working Area 180 Degrees Standard (360 Optional) • Lifting Capacity 36,000 lbs/16,329 kg 70′/21.3 m Boom Length
- Crane Weight (Dry)
- Jib Lengths
- Winch Bare Drum Pull

120'/36.6 m

16,235 lbs/7,364 kg

12,800 lbs/5,806 kg

23', 23-40'/7 m, 7-12 m

- Powered Boom Sections
- Overall Height 12'11"/3.9 m
- Operator Controls Dual Operator Standup Controls
- Outrigger Type Front A-Frame
- Outrigger Spread Front
- Outrigger Type Rear A-Underslung
- Outrigger Spread Rear



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3

20'10"/6.3 m

10'4"/3.1 m

TECHNICAL SPECIFICATIONS

Crane Capacity: 36,000 lbs at five feet load radius.

Maximum Tip Height: 80' height (120' with optional 40' jib)

Control Console: Dual operator standup control stations 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 foot throttle, lifting capacity chart, range diagram chart, boom angle indicator, system pressure gauge, 12V DC power source, and cup holder. Outrigger lever controls at control consoles.

Boom: Three-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 80' mounted on a truck. The boom nose contains one floating upper sheave and two 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 275' of 9/16" wire rope with a single line pull of 9,600 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: One set of "A" Frame main outriggers with 20'10" span, and

one set of underslung "A" rear outriggers with a 10'4" span.

Frame: Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of 20' 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. 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 single-stage hydraulic extension cylinder, attached to the largest boom section, with a proportional cable extension system driving the outermost section.

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 cable-shift PTO, three-section gear 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 open center type.

Oil Tank Capacity: 70 gallon mounted to truck frame on roadside.

Cab Equipment: PTO cable 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.

Bumper: Bureau of Motor Carrier Safety rear bumper.

Weight: Approximately 15,615 lbs. with 20' steel-floor bed less truck.

Truck Chassis Required: Approx. 169" C.T. RBM 1,463,000 in-lb. per rail, 13,000 lb. front axle and 33,000 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.

Options:

40' or 23' Telescopic Jib.

Radio Remote Controls.

Superlink Short Jack Outriggers.

Gravity Leveled Steel Basket.

Front Jack for 360 Degree Area of Operation.

Rotation Resistant Wire Rope.

Hydraulic Tool Circuits on Bed.

Much more ...

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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MAXIMUM LIFTING CAPABILITIES

														RIGGERS			20	
MAIN BOOM LOAD RATINGS											JIB LOAD RATINGS							
	LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED										LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDE 23-FT FIXED LENGTH JIB 23-40 FT EXTENDABLE JIB							
RADIUS	BOOM	07 FT	LOADED BOOM	A	BOOM	B	BOOM	C	BOOM	D	BOOM	E	LOADED		LOADED		LOADED	
IN FEET	angle 79	27-FT 36000	ANGLE	34-FT	ANGLE	43-FT	ANGLE	52-FT	ANGLE	61-FT	ANGLE	70 - FT	BOOM	23-FT JIB	BOOM	23-FT JIB RETRACTED	BOOM	40-FT JIB EXTENDE
10	68	21300	73	19500	77	16500	80	15000					80	4600	80	4500	80	2600
15	56	15200	64	14500	70	13500	75	12000	78	10500	80	9600	75	3700	75	3600	75	2000
20	41	11500	54	11100	63	10000	69	9000	73	8000	76	7300	70	3000	70	2900	70	1900
25	19	8600	43	8500	55	8000	62	7200	68	6500	71	5800	65	2400	65	2300	65	1800
30			27	6750	47	6400	56	5900	63	5400	67	4900	60	2000	60	1900	60	1300
35					36	5000	49	4700	56	4400	62	4200	55	1600	55	1500	55	900
40					20	4200	41	4100	50	3900	56	3700	50	1400	50	1300	50	800
45							30	3500	43	3400	51	3200	45	1100	45	1000	45	600
50							14	2800	36	2800	45	2700	40	900	40	800		
55									26	2400	39	2300	35	700	35	600		
60											32	1900						
65	0	0000		4000	0	2000	0	1000	0	4000	22	1550						
	0	6000	0	4200	0	3000	0	1900	0	1300	0	1000						
<u> </u>		270 420		210 330		170 270			150 230		100		DNS FOR STOWED FIXED LENGTH JIB					
NOT		-	42		0	U	21	0	23	U	20	0	DEDOON					
- DO N BLOCK		ADHEAD IST BOO IDING B	OM TIP	LO		LEAST ON THI MES			V E	VIRE RO BELOW,	OPE, AS WITH	16" DIAM S SPECIF THE PRC RENGTHS	FIED	BE IN BEF	N GOOD	D-BLOCK SY D OPERATI PERATING (N & SAFET)	NG COI CRANE	NDITION
		2-PART LINE		3-PART LINE			4-PART LINE			ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS: DOWNHAUL WEIGHT								
AX PULL: 9,600 lbs AX PULL: 9,060 lbs AX PULL: 7,680 lbs			19,200 lbs 18,120 lbs 15,360 lbs			28,800 lbs 27,180 lbs 23,040 lbs			36,000 lbs 36,000 lbs 30,720 lbs			9/16" - 6 x 37 IWRC (3.5:1 S.F.) 33,600-lbs. BREAKING STRENGTH 9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH 9/16" - SPIN RESISTANT (5:1 S.F.) 38,400-lbs. BREAKING STRENGTH 9/16" - SPIN RESISTANT (5:1 S.F.) 38,400-lbs. BREAKING STRENGTH						

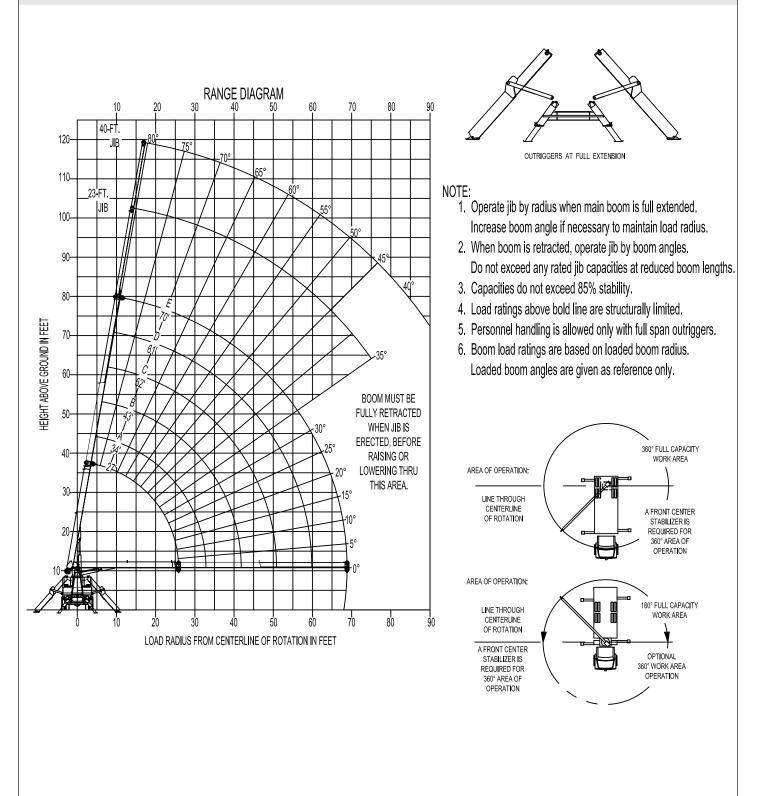


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BOOMTRUCK - 1870F

MAXIMUM RANGE CAPABILITIES





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CHASSIS SPECIFICATIONS

	1870F BoomTruck					
Wheelbase (WB)	236″ / 599 cm					
Cab to Axle (CA)	169" / 429 cm					
Cab to End of Frame (EOF)	295″ / 749 cm					
Frame Section Modulus	13.3 in3-110,000 psi / 758,428 kPa					
Front Axle Gross Weight Rating	13,000 lb / 5,896 kg					
Rear Axle Gross Weight Rating	20,000 lb / 9,072 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



Radio Remote Control

Interference protected radio remotes let you get closer to your work and have full control over your 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 area of operation by adding a special boom rotation bearing for swinging without stops.



Superlink Short Jack Outriggers Reduce your outrigger spread with Elliott's patented Superlink outriggers that allow straight down outrigger deployment on one side and full crane operation on the other.



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 at the rear of the bed.



the boom for easy installation and removal.

Gravity Leveled Basket

Gravity leveling and mechanical rotation makes it a great accessory for any worksite.

Elliott's pin-on work platform pins onto



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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