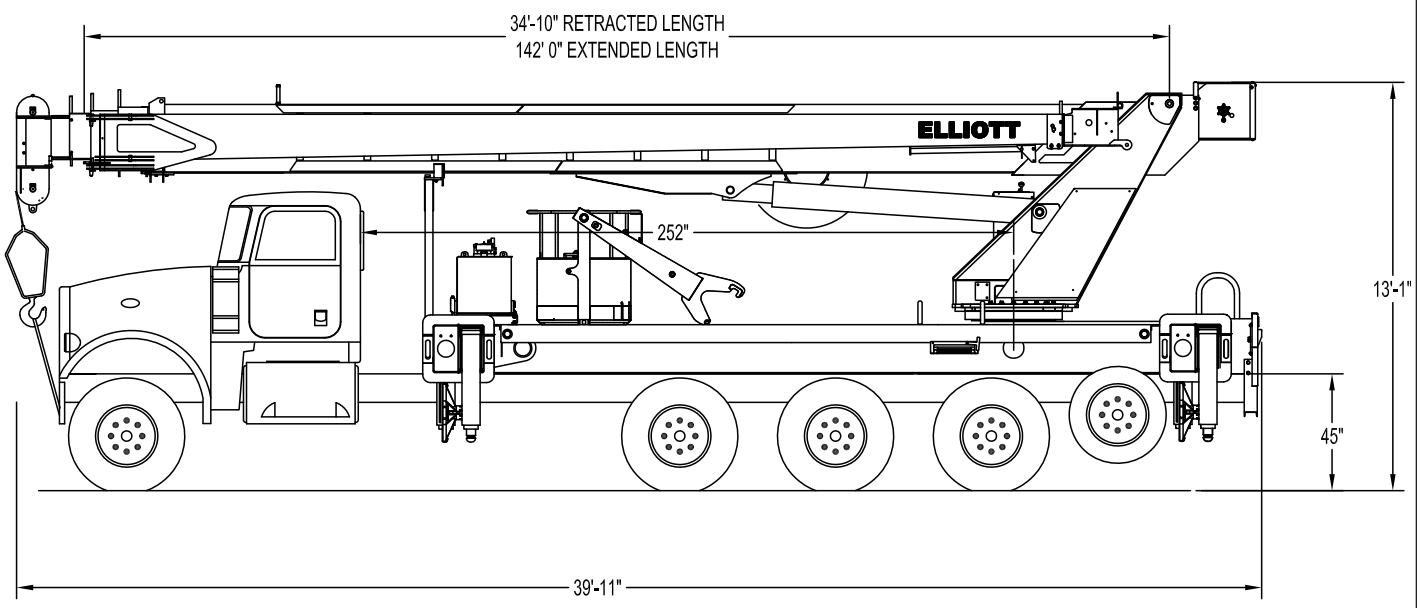
E-Line™ E160

TECHNICAL SPECIFICATIONS

E160 SIDE VIEW DIAGRAM



• **Maximum Working Height**	215'/65,5 m
• **Main Boom Length**	155'/47,2 m
• **Jib Lengths**	32'-55'/9,8-16,7 m
• **Working Area**	360 Degrees
• **Lifting Capacity**	30,000 lbs/13 608 kg
• **Platform Capacity**	1,200 lbs/544 kg
• **Platform Size**	36"x72"/91x183 cm
• **Certification (ANSI)**	ANSI A92.2

• **Boom Sections**	5
• **Overall Height**	13'1"/4 m
• **Operator Controls**	Ride-Around Seated
• **Outrigger Type Front**	Out-Down
• **Outrigger Spread Front**	21'2"/6,4 m
• **Outrigger Type Rear**	Out-Down
• **Outrigger Spread Rear**	26'2"/8 m
• **Minimum GVWR**	86,000 lbs / 39 000 kg

ELLIOTT EQUIPMENT COMPANY

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TECHNICAL SPECIFICATIONS

Minimum Platform Height: 160' ground to platform floor.

Maximum Platform Height: 210' ground to platform floor with jib.

Work Platform: 36" x 72" gravity-leveled and heavy-duty steel platform with lower platform grating, 40" high rails, integral grounding lugs, and external hand protection rail. Includes hydraulically assisted yoke for easy attachment to boom or jib tip. Equipped with two safety lanyard attachment loops and two safety harnesses and 72" lanyards. Includes a compact hydraulic intensifier in platform.

Platform Tools: Hydraulic tool circuit with boom mounted hose reel from turret to boom and jib tip for hydraulic tools.

Winch: Mounted at the base of boom for a long fleet angle and flat level spooling of rope. 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 5/8" diameter synthetic rope with a single line pull of 10,000 lbs, and a downhaul ball with swivel hook.

Platform Controls: Hard-wired remote controls with radio backup for intereference-protected proportional control over boom rotation, elevation, extension, and winch functions. Integral work envelope/LMI display provide operator with added safety.

Work Envelope/Load Moment Indicator (LMI) System: Electronic turret mounted computer. System senses hoist cylinder pressures, boom length, and boom angle with hydraulic function lockout. The display console is equipped with a 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.

Lower Controls: Elliott Ride-Around Control Console with seat mounted on curbside of turret.

Outriggers: Two sets of 'EZ-crib' out-and-down outriggers with two-stage vertical stroke for longer penetration and less cribbing. Front outriggers have a 21'2" span, rear outriggers have a 26'2" span for excellent stability. Outriggers include removable ball socket aluminum pads that store on outrigger legs. Controls are located under each side of bed. Outrigger interlocks prevent unit from being operated without outrigger deployment.

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

Turret: Reverse offset turret is one-piece weldment. Turret rotates on large diameter ball bearing.

Rotation: Hydraulic motor drives turret through double reduction planetary swing drive for 360 degree continuous rotation.

Boom: 5-section fully proportional, high strength steel plated rectangular steel boom sections. Oversized smooth running wear pads and boom inspection/greasing holes for improved access. A maximum boom tip height without jib of 160' mounted on a truck. Assembly includes heavy-duty cylinder fittings, pivot pins, and replaceable wear pads.

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.

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

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.

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

Oil Tank Capacity: 119 gallons mounted on top of frame.

Hydraulic System: Equipped with 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.

Cab Equipment: PTO 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.

Standard Paint: Painted white, outriggers red, and bed/subframe black.

Warranty: One Year Parts & Labor, Lifetime Structural Warranty.

Testing: Unit complies with ANSI A92.2-2009 for Vehicle-Mounted Elevating and Rotating Aerial Devices.

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

RANGE CHART - MAIN BOOM WITH PLATFORM

ELLIOTT EQUIPMENT COMPANY

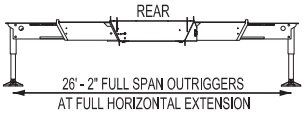
MODEL E160

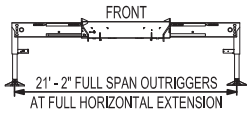
MAIN BOOM RANGE DIAGRAM WITH PLATFORM ATTACHED — LMI MODE: PLTF MAINBM

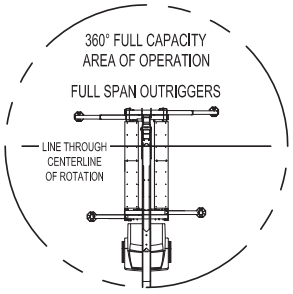
PLATFORM LOAD	MAXIMUM RADIUS
1200 LBS	80 FT
600 LBS	90 FT

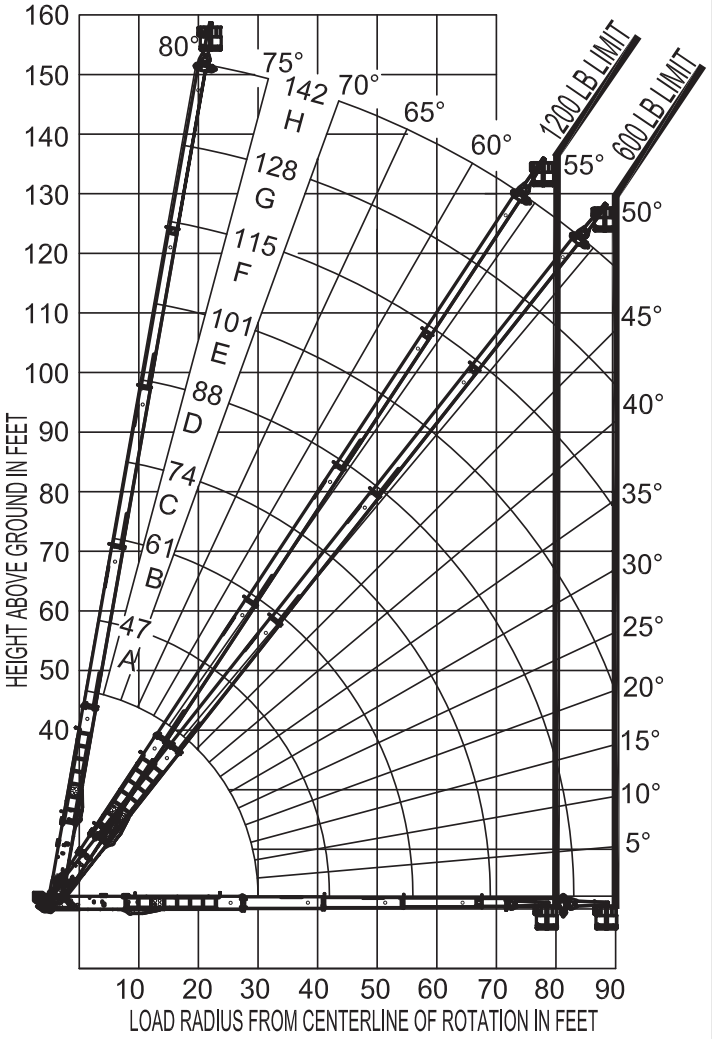
MAXIMUM PLATFORM CAPACITY RATINGS:
1200 LBS
2 PERSONS

USE OUTRIGGERS AT ALL TIMES









NOTES:
1. Personnel handling is allowed only with full span outriggers.
2. Loaded boom angles are given as reference only.
3. Boom deflection is not illustrated. Increase boom angle if necessary to maintain load radius. Do not exceed the maximum load radius.
4. Radius is measured to the center of the platform.
5. Refer to manual for wind ratings.

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RANGE CHART - RETRACTED JIB WITH PLATFORM

ELLIOTT EQUIPMENT COMPANY

MODEL E160

2 PIECE FULLY RETRACTED JIB RANGE DIAGRAM WITH PLATFORM ATTACHED — LMI MODE: PLTF JIBRET

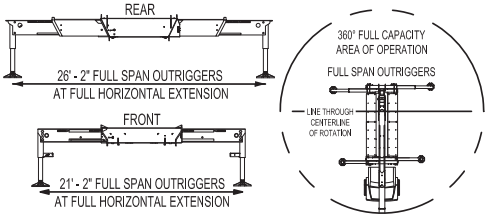
PLATFORM LOAD: 600 LBS AND BELOW — MAXIMUM BOOM EXTENSION: 142 FT - H

PLATFORM LOAD: 600 LBS - 1200 LBS — MAXIMUM BOOM EXTENSION: 132 FT - J

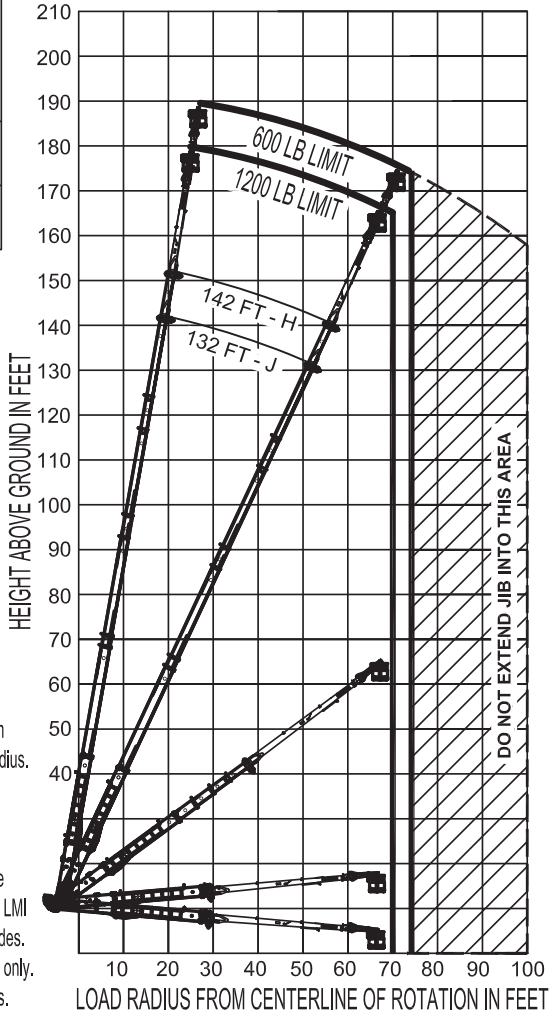
PLATFORM LOAD	MAXIMUM BOOM EXTENSION	MAXIMUM ELEVATED RADIUS
1200 LBS	132 FT - J	70 FT
600 LBS	142 FT - H	74 FT

MAXIMUM PLATFORM CAPACITY RATINGS:
1200 LBS 2 PERSONS

USE OUTRIGGERS AT ALL TIMES



JIB RANGE DIAGRAM



NOTES:

1. Operate jib and platform by radius when main boom is extended. Increase boom angle if necessary to maintain load radius. Do not exceed the maximum load radius.
2. When the main boom is retracted, operate jib and platform by boom angles. Do not exceed any rated jib and platform capacities at reduced boom lengths.
3. Personnel handling is allowed only with full span outriggers.
4. When handling personnel, actual load radius is measured to the far railing of the platform. Actual load radius can be up to 7 ft beyond the radius indicated by the LMI due to the platform offset. The LMI indicates radius to the load line for all jib modes.
5. Boom deflection is not illustrated. Loaded boom angles are shown for reference only.
6. Main boom extension is limited to 132 ft when the platform load exceeds 600 lbs.
7. Refer to manual for wind ratings.

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RANGE CHART - FULLY EXTENDED JIB WITH PLATFORM

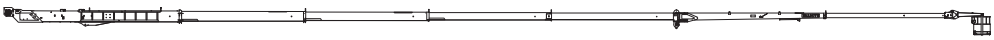
ELLIOTT EQUIPMENT COMPANY

MODEL E160

2 PIECE FULLY EXTENDED JIB RANGE DIAGRAM WITH PLATFORM ATTACHED — LMI MODE: PLTF JIBEXT

PLATFORM LOAD: 600 LBS AND BELOW — MAXIMUM BOOM EXTENSION: 142 FT - H

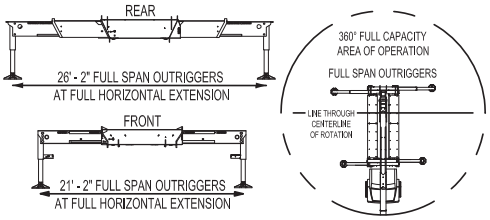
PLATFORM LOAD: 600 LBS - 1200 LBS — MAXIMUM BOOM EXTENSION: 132 FT - J

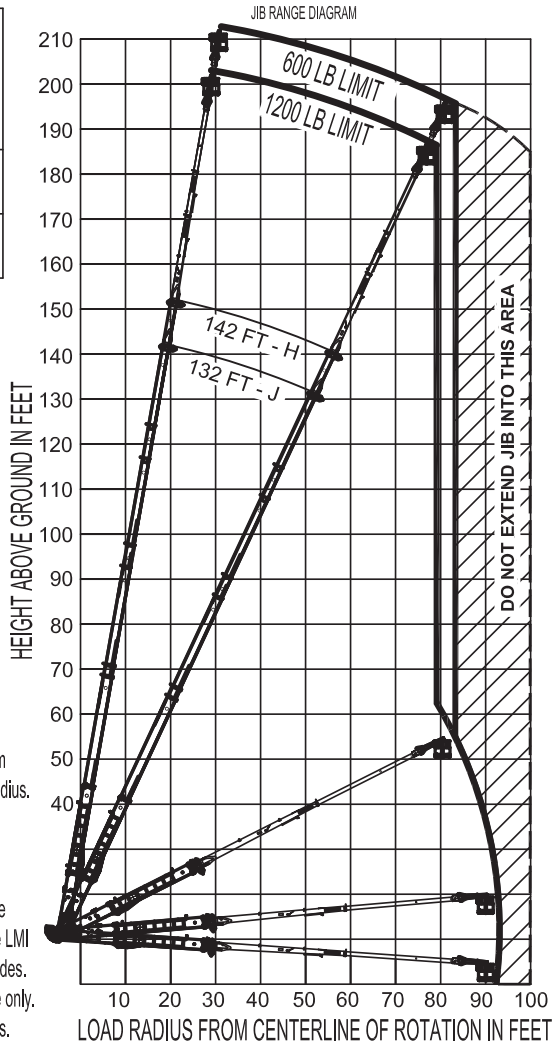


PLATFORM LOAD	MAXIMUM BOOM EXTENSION	MAXIMUM ELEVATED RADIUS
1200 LBS	132 FT - J	78 FT
600 LBS	142 FT - H	82 FT

MAXIMUM PLATFORM CAPACITY RATINGS:
1200 LBS 2 PERSONS

USE OUTRIGGERS AT ALL TIMES





NOTES:

1. Operate jib and platform by radius when main boom is extended. Increase boom angle if necessary to maintain load radius. Do not exceed the maximum load radius.
2. When the main boom is retracted, operate jib and platform by boom angles. Do not exceed any rated jib and platform capacities at reduced boom lengths.
3. Personnel handling is allowed only with full span outriggers.
4. When handling personnel, actual load radius is measured to the far railing of the platform. Actual load radius can be up to 7 ft beyond the radius indicated by the LMI due to the platform offset. The LMI indicates radius to the load line for all jib modes.
5. Boom deflection is not illustrated. Loaded boom angles are shown for reference only.
6. Main boom extension is limited to 132 ft when the platform load exceeds 600 lbs.
7. Refer to manual for wind ratings.

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LOAD CHART - MAIN BOOM

ELLIOTT EQUIPMENT COMPANY

MODEL E160

MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS

LMI MODES: HOOK W/PLTF & NONE

LOAD RATINGS IN LBS WITH OUTRIGGERS FULLY EXTENDED

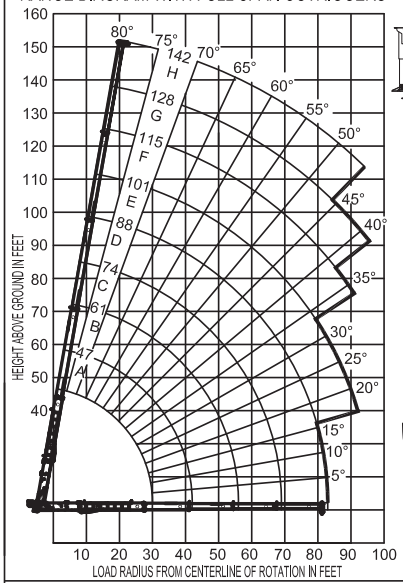
LOAD RADIUS IN FEET	LOADED BOOM ANGLE	34-ft	LOADED BOOM ANGLE	A 47-ft	LOADED BOOM ANGLE	B 61-ft	LOADED BOOM ANGLE	C 74-ft	LOADED BOOM ANGLE	D 88-ft	LOADED BOOM ANGLE	E 101-ft	LOADED BOOM ANGLE	F 115-ft	LOADED BOOM ANGLE	G 128-ft	LOADED BOOM ANGLE	H 142-ft
7	71.5	30,000																
8	69.2	30,000																
10	67.0	30,000	72.8	26,200														
12	63.2	30,000	70.4	26,200	75.3	26,200												
15	57.4	30,000	66.5	26,200	72.4	25,900	75.7	22,200										
20	45.9	27,500	59.4	25,700	67.4	20,700	71.8	19,200	74.8	14,900								
25	31.7	19,000	51.3	19,200	62.2	20,000	67.5	17,400	71.3	12,500	73.9	10,300						
30			42.6	14,300	56.3	17,850	63.1	14,750	67.7	10,900	71.1	9,400	73.6	7,700	75.5	6,500		
35			31.6	11,000	49.7	11,200	58.5	11,400	64.0	10,500	68.0	8,400	71.0	6,800	73.1	5,700	75.3	3,500
40			14.5	8,600	42.8	8,800	53.5	9,040	60.2	9,000	64.7	8,000	68.2	6,000	71.0	5,000	73.1	3,500
45					34.7	7,100	48.0	7,300	56.3	7,350	61.4	7,400	65.8	5,200	68.6	4,400	70.9	3,500
50					24.1	5,700	42.0	5,800	51.9	5,900	58.0	6,000	62.9	5,100	66.1	4,000	68.7	3,000
55							35.2	4,750	47.4	4,850	54.7	4,900	60.0	4,800	63.5	3,400	66.5	2,700
60							27.8	3,850	42.8	3,900	50.8	4,000	56.9	4,000	60.8	3,300	64.2	2,400
65							16.3	3,050	37.3	3,100	46.8	3,250	53.6	3,200	58.1	3,200	61.7	2,300
70									30.8	2,450	42.3	2,550	50.3	2,500	55.3	2,500	59.4	2,200
75									22.7	1,850	37.4	1,950	49.8	1,950	52.3	2,000	56.9	2,100
80									6.4	1,300	31.8	1,400	42.6	1,450	49.2	1,450	54.2	1,550
85											25.1	950	38.2	1,050	45.8	1,150	51.6	1,150
90											15.9	600	33.4	700	42.1	780	48.7	780
95															38.2	450	45.7	450
	0	14,000	0	7,800	0	4,700	0	2,350	0	900								
DEDUCTIONS FOR STOWED EXT. JIB		950		700		550		450		400		350		300		250		200

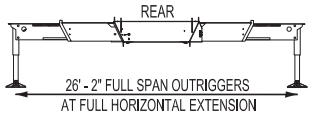
LMI MODE: HOOK W/PLTF
MAIN BOOM LIFTING WITH PLATFORM ATTACHED
USE BOOM LOAD RATINGS LISTED IN TABLE

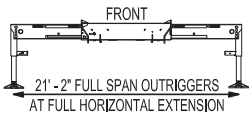
LMI MODE: NONE
MAIN BOOM LIFTING WITH PLATFORM DETACHED
ADDITIONAL CAPACITY WITH PLATFORM DETACHED: 600 LBS ACROSS ENTIRE LOAD CHART

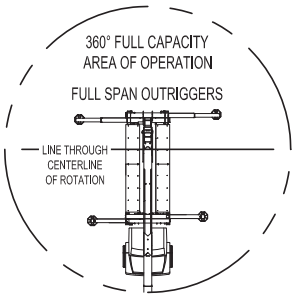
NOTES:
1. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only. Increase boom angle if necessary to maintain load radius. Do not exceed maximum load radius.
2. Boom deflection is not illustrated.
3. Personnel handling and jib use are allowed only with full span outriggers.
3. Refer to manual for wind ratings.
4. Deductions must be made from rated loads for any loadline equipment or boom attachments such as hooks, load blocks, and stowed jibs. Weights of load handling devices such as slings and shackles shall be considered part of the load.

RANGE DIAGRAM WITH FULL SPAN OUTRIGGERS







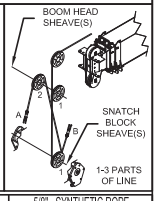


ELLIOTT EQUIPMENT COMPANY SUPPLIED
LOADLINE EQUIPMENT DEDUCTIONS:

OVERHAUL BALL.....109 LBS
ELLIOTT ONE SHEAVE BLOCK.....120 LBS

PARTS OF 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 5/8" DIAMETER ROPE, AS SPECIFIED, WITH THE PROPER BREAKING STRENGTH LISTED.
- ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION & SAFETY MANUAL.



PARTS OF LINE	SHEAVE(S) ON BOOM HEAD	SHEAVE(S) ON SNATCH BLOCK	5/8" - SYNTHETIC ROPE 50,000-lbs. BREAKING STRENGTH
1	1	A	10,000 lbs
2	1 B	1	20,000 lbs
3	1 2	1 A	30,000 lbs

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LOAD AND RANGE CHART - TELESCOPIC JIB

ELLIOTT EQUIPMENT COMPANY

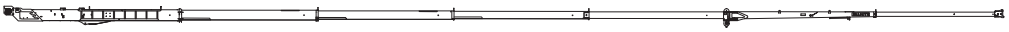
MODEL E160

JIB RANGE DIAGRAM WITH FULLY EXTENDED OUTRIGGERS — LMI MODES: 32' JIBRET & 55' JIBEXT

32' - 55' TWO SECTION JIB

32' RETRACTED JIB - LMI MODE: 32' JIBRET

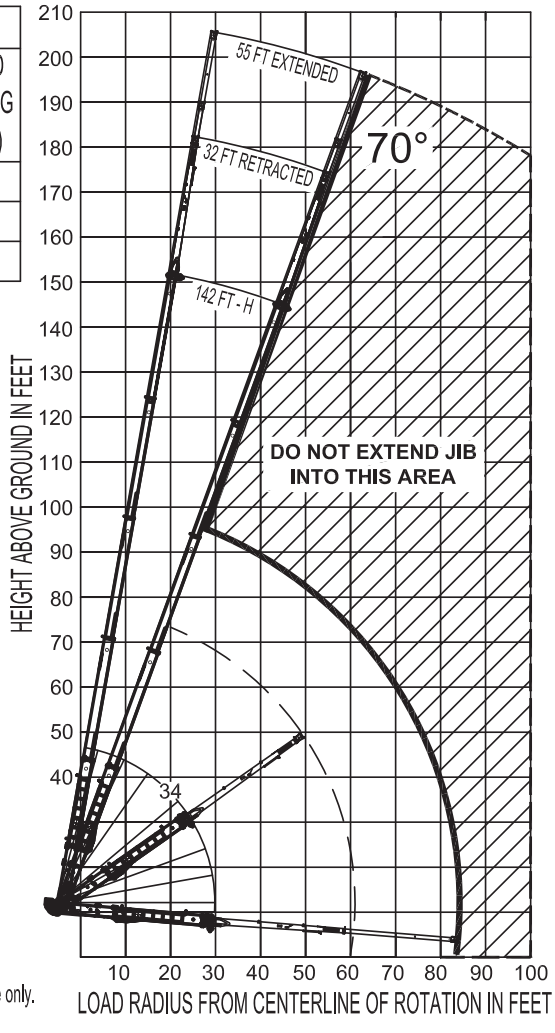
55' EXTENDED JIB - LMI MODE: 55' JIBEXT



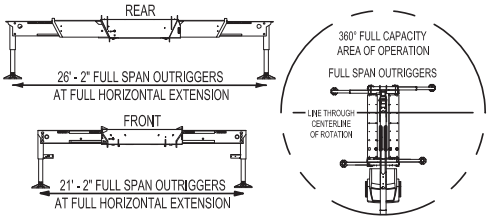
LMI MODE: 32' JIBRET		
LOAD RADIUS (FT)	LOADED BOOM ANGLE	LOAD RATING (LBS)
33	80	1,400
50	75	1,400
65	70	450

LMI MODE: 55' JIBEXT		
LOAD RADIUS (FT)	LOADED BOOM ANGLE	LOAD RATING (LBS)
40	80	900
59	75	900
76	70	300

JIB RANGE DIAGRAM



USE OUTRIGGERS AT ALL TIMES



NOTES:

1. Operate jib by radius when main boom is extended. Increase boom angle if necessary to maintain load radius. Do not exceed the maximum load radius.
2. When the main boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Material handling with the jib is allowed only with full span outriggers.
4. Material handling with the jib is allowed only at boom angles above 70°.
5. Boom deflection is not illustrated. Loaded boom angles are shown for reference only.
6. Refer to manual for wind ratings.

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CHASSIS DATA

	E160 E-Line
Wheelbase (WB)	274" / 696 cm
Cab to Trunnion (CT)	204" / 518 cm
Afterframe (AF)	110" / 280 cm
Truck Frame RBM Minimum	3,300,000
Front Axle Gross Weight Rating	20,000 lb / 9072 kg
Rear Axle Gross Weight Rating	66,000 lb / 29 937 kg
Gross Vehicle Weight (GVWR)	86,000 lb / 39 000 kg

Chassis data is minimum general requirements-not for engineering.
Actual dimensions and truck data will depend on truck selection and axle configuration.

OPTIONS

Isolating Platform Yoke
Fiberglass yoke for use with Elliott's two-man work platform. Provides electrical isolation between platform and ground. (Not Insulated)

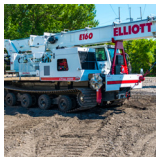
Safety Lighting
A wide range of lighting solutions including strobes, work lights, and much more to boost safety and increase job site productivity.

Enclosed Steel Control Cab
Replaces the standard control station and include an sliding door, adjustable seat, heater, wipers, internal fan, audio system, option air conditioning and much more.

Outrigger Pads
Wooden or synthetic outrigger pads assist with spreading the load and improving stability on sensitive or soft job sites.

Bed-Mounted Accessories
Mount a wide variety of tool accessories including welders, power washers, and generators on the bed with reels and connections at ground level.

Work Area Definition System (WADS)
Elliott's LMI system includes the option to limit the work area via a 'virtual wall' to work around obstacles including power lines and obstructions.



Track Vehicle Mounting Solutions
Available with installation on an off-road track vehicle carrier with rubber tracks and steel grousers for the most severe terrain applications.

Custom Tool Boxes
Steel and aluminum lockable tool boxes located beneath and above the bed for transporting essential equipment and job site tools.

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