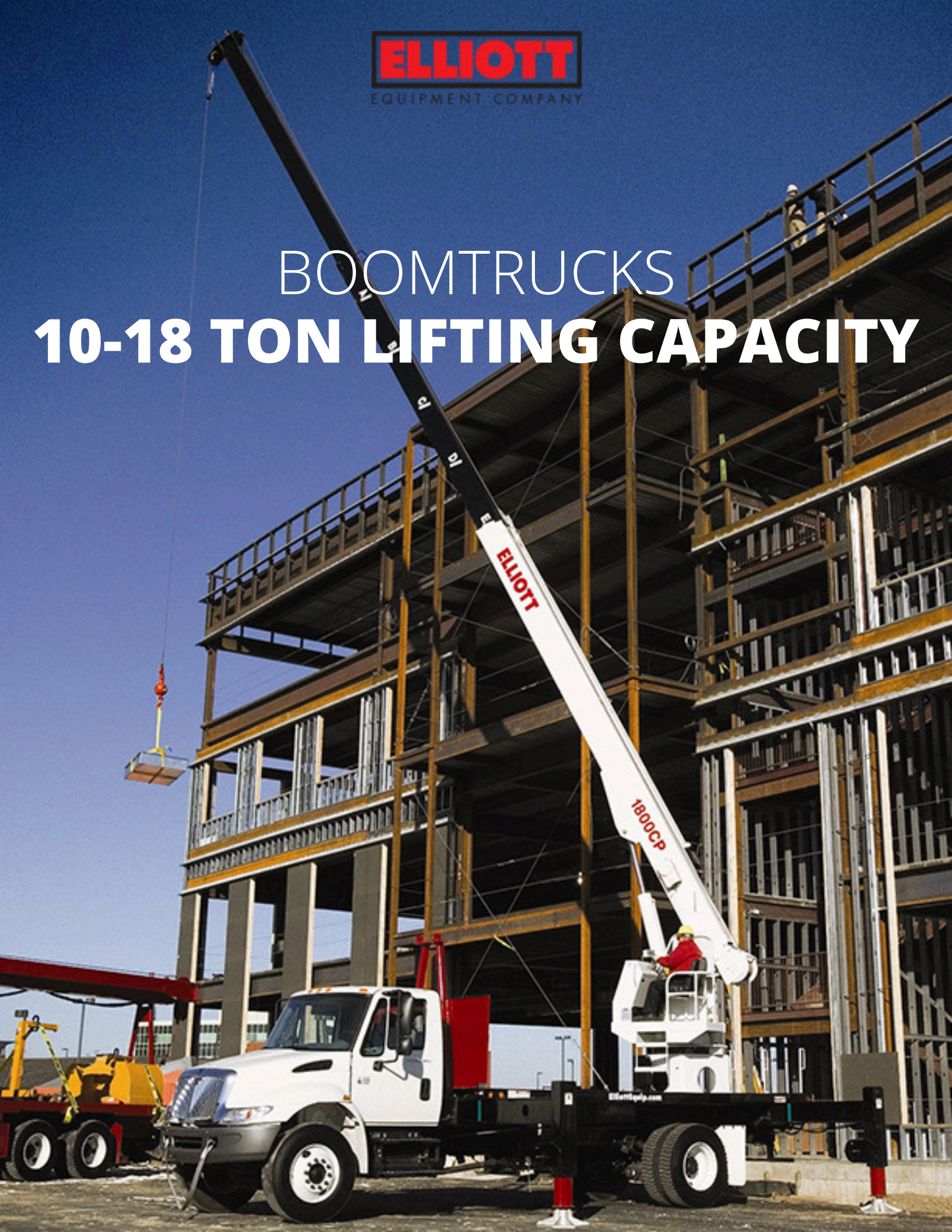


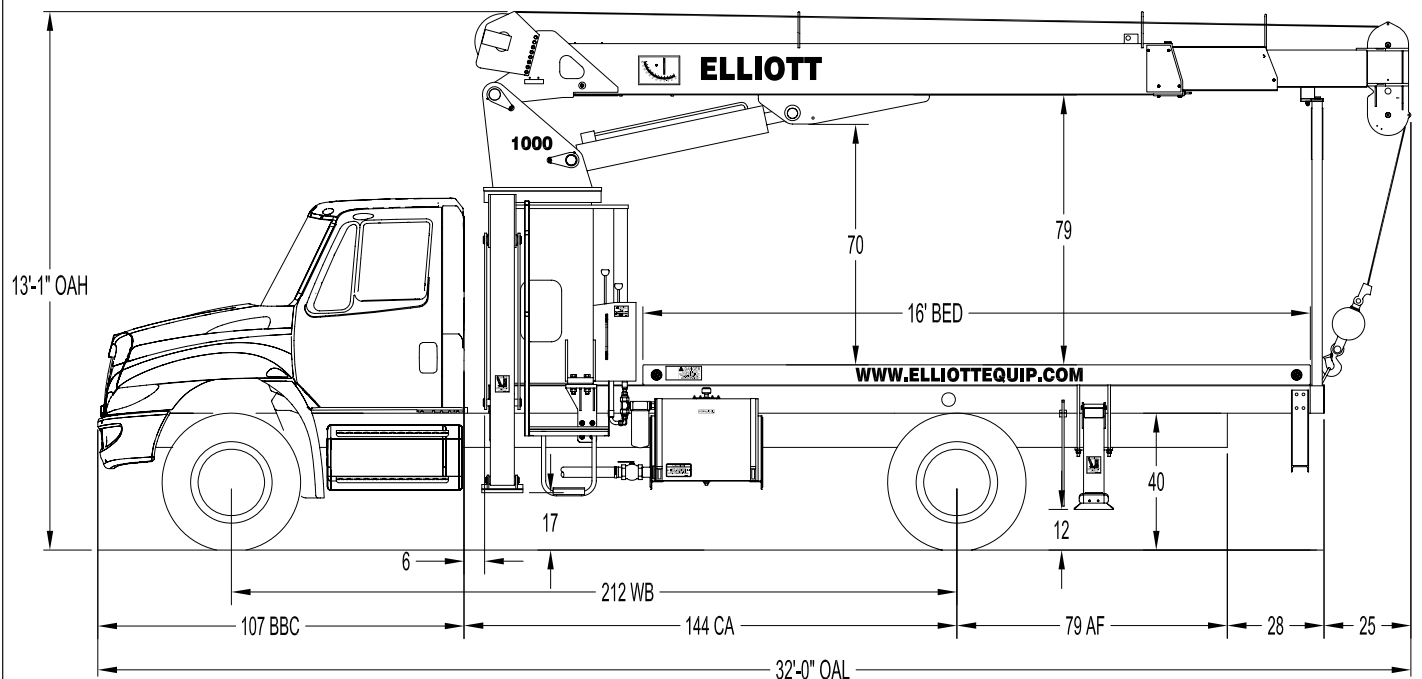
**ELLIOTT**  
EQUIPMENT COMPANY

# BOOMTRUCKS 10-18 TON LIFTING CAPACITY





### 1039F SIDE VIEW DIAGRAM



- |                                  |                                      |                                 |                                     |
|----------------------------------|--------------------------------------|---------------------------------|-------------------------------------|
| • <b>Maximum Vertical Reach</b>  | 49' <sup>7</sup> / <sub>15</sub> m   | • <b>Powered Boom Sections</b>  | 3                                   |
| • <b>Working Area</b>            | 180 Degrees Standard (360 Optional)  | • <b>Overall Height</b>         | 13' <sup>1</sup> / <sub>4</sub> m   |
| • <b>Lifting Capacity</b>        | 20,000 lbs/9,072 kg                  | • <b>Operator Controls</b>      | Dual Standup                        |
| • <b>Boom Length</b>             | 39' <sup>7</sup> / <sub>11.9</sub> m | • <b>Outrigger Type Front</b>   | "A" Link                            |
| • <b>Crane Weight (Standard)</b> | 12,740 lbs/5,779 kg                  | • <b>Outrigger Spread Front</b> | 17' <sup>7</sup> / <sub>5.3</sub> m |
| • <b>Jib Lengths</b>             | N/A                                  | • <b>Outrigger Type Rear</b>    | "A" STAB                            |
| • <b>Winch Bare Drum Pull</b>    | 12,800 lbs/5,806 kg                  | • <b>Outrigger Spread Rear</b>  | 10' <sup>4</sup> / <sub>3.1</sub> m |

## TECHNICAL SPECIFICATIONS

**Crane Capacity:** 20,000 lbs at five feet load radius.

**Maximum Tip Height:** 49' height.

**Control Console:** Dual standup operator control stations on turret equipped with four single axis control levers for the main crane controls at each station. Operator stations include 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. Independent outrigger and stabilizer controls.

**Boom:** Three-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 49' 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" diameter 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 link

type outriggers mounted at turret box with 17'7" span. One set of "A" type underslung rear stabilizers with 10'4" span.

**Frame:** Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of a 16' flatbed body.

**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 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 PTO, 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 below the flatbed.

**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 black.

**Bumper:** Bureau of Motor Carrier Safety rear bumper.

**Weight:** Approximately 14,665 lbs. with 16' flatbed less truck.

**Truck Chassis Required:** Approx. 144" C.A. RBM 1,100,000 in-lb. per rail, 10,000 lb. front axle and 25,999 lb. GVWR required. Trucks must have 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:**

Front Center Stabilizer for 360 Degree Area of Operation.

Continous 360 Rotation.

4 or 5-Function Radio Remote Controls.

1 or 2-Person Gravity Leveled Steel Basket.

SuperLink "A" Outriggers for Short Jacking.

15-ton Hook Block for 2 & 3 Part Line.

Hydraulic Oil Cooler with Fan.

Boom-Mounted Hose Reel.

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](http://www.elliottequip.com)

## MAXIMUM LIFTING AND RANGE CAPABILITIES

**ELLIOTT** MODEL 1039 39-FT. BOOM  
EQUIPMENT COMPANY

RANGE DIAGRAM

HEIGHT ABOVE GROUND IN FEET

LOAD RADIUS FROM CENTERLINE OF ROTATION IN FEET

DO NOT PAINT OVER ANY LABELS 1084730 111804

ALLOWABLE LINE PULL NOTICE

1-PART LINE	2-PART LINE	3-PART LINE	- 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.
7680-LBS.	15360-LBS.	20000-LBS.	9/16" - SPIN RESISTANT (S.I. S.F.) 38,400-LBS. BREAKING STRENGTH

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES SUPPLIED BY ELLIOTT EQUIPMENT CO.  
 OVERHAUL BALL ----- SEE OVERHAUL BALL MFR. NAMEPLATE  
 LOAD BLOCK ----- SEE BLOCK MFR. NAMEPLATE

### BOOM LOAD RATINGS

LOAD RATINGS IN LBS. WITH OUTRIGGERS FULLY EXTENDED HORIZONTALLY AND VERTICALLY

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	A		B		C		
		18-FT.	25-FT.	32-FT.	39-FT.			
5	71	20000						
6	67	16500	74	14200				
8	60	14500	69	11750	74	11200		
10	52	12000	64	10350	70	9750	75	8600
12	43	11000	60	9050	67	8300	71	7800
14	34	9400	54	8200	63	7400	68	7000
16			48	7500	59	6800	65	6250
18			41	6950	54	6250	62	5550
20			33	6300	50	5750	58	4900
25					36	4950	49	4350
30							38	3700
35							22	3100
0		6800	0	4150	0	3000	0	2400

LOAD RATINGS IN LBS. WITH OUTRIGGERS EXTENDED VERTICALLY ONLY, NO HORIZONTAL EXTENSION

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	A		B		C		
		18-FT.	25-FT.	32-FT.	39-FT.			
5	71	20000						
6	67	16500	74	14200				
8	60	12800	69	11750	74	11200		
10	52	8500	64	8600	70	8650	75	8600
12	43	6250	60	6350	67	6400	71	6400
14	34	4800	54	4900	63	4950	68	4950
16			48	3950	59	4000	65	4000
18			41	3250	54	3250	62	3250
20			33	2700	50	2750	58	2750
25					36	1850	49	1850
30							38	1300
35							22	900
0		3250	0	1850	0	1150	0	700

CHART #1

18'-2"

CHART #2

8'-2"

360° FULL CAPACITY WORK AREA

LINE THROUGH CENTERLINE OF ROTATION

180° FULL CAPACITY WORK AREA

LINE THROUGH CENTERLINE OF ROTATION

A FRONT CENTER STABILIZER IS REQUIRED FOR 360° AREA OF OPERATION

OPTIONAL 360° WORK AREA OPERATION

NOTE:

1. CHART #1 CAPACITIES DO NOT EXCEED 118% STABILITY.
2. CHART #2 CAPACITIES DO NOT EXCEED STABILITY BASED ON ISO 4305-1991.
3. PERSONNEL HANDLING IS ALLOWED ONLY WITH FULL SPAN OUTRIGGERS.
4. BOOM LOAD RATINGS ARE BASED ON LOADED BOOM RADIUS.
5. LOADED BOOM ANGLES ARE GIVEN AS A REFERENCE ONLY.
6. LOAD RATINGS ABOVE BOLD LINE ARE STRUCTURALLY LIMITED.

CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE.

## TRUCK CHASSIS SPECIFICATIONS

	1039F BoomTruck
Wheelbase (WB)	212" / 538 cm
Cab to Axle (CA)	144" / 366 cm
Cab to End of Frame (AF)	251" / 637 cm
Frame Section Modulus	10.0 in <sup>3</sup> -110,000 psi / 164 cm <sup>3</sup> -758,428 kPa
Front Axle Gross Weight Rating	10,000 lb / 4,536 kg
Rear Axle Gross Weight Rating	19,000 lb / 8,618 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% stability requirements.

## OPTIONS



### Radio Remote Control

Interference protected radio remotes let you get closer to your work and have full control over your machine.



### Custom Paint

Choose from a wide list of high quality paint applications including Elliott's standard white or red paint, metallic paints, or multiple colors.



### Hydraulic Oil Cooler

Add a bed-mounted hydraulic oil cooler and fan to assist with high duty cycle job applications. A "must" for hot weather environments



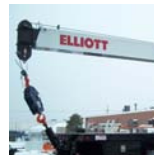
### SuperLink Outriggers™

"Short-jack" with SuperLink Outriggers that deploy straight down by simply removing a pin, making it possible to work over the opposite side with a reduced outrigger spread.



### 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 to improve lifting capabilities. The block can be stored in a holder on the rear of the bed.



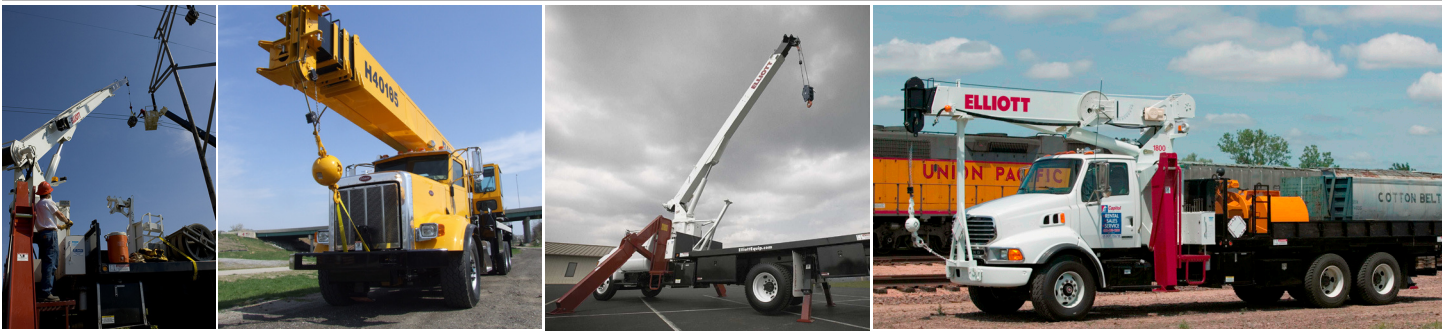
### Gravity Leveled Basket

Elliott's work platforms pin onto the boom for easy installation and removal. Gravity leveling and mechanical rotation make them a great accessory for any worksite.

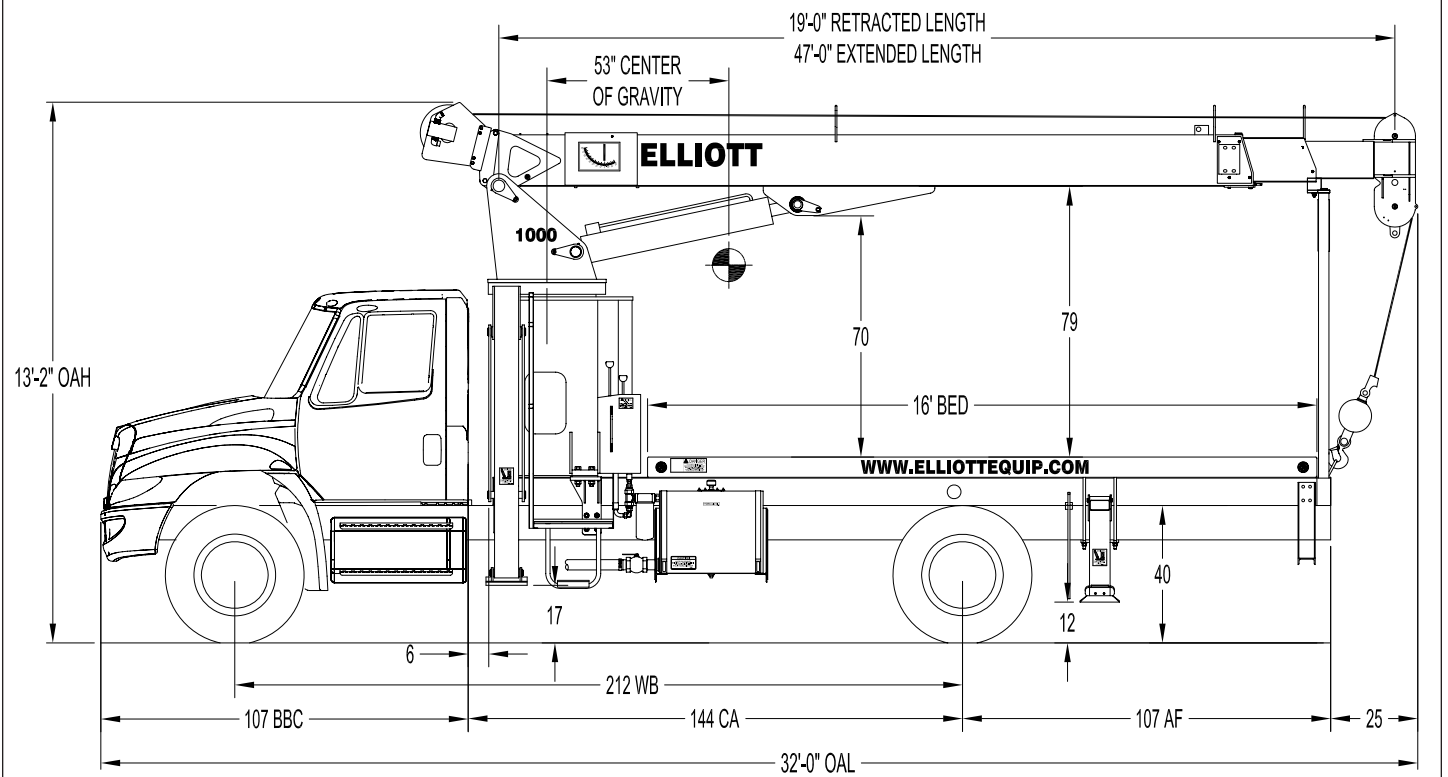


### Body Mounted Hose Reels and Circuits

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



### 1047F SIDE VIEW DIAGRAM



- |                                  |                                     |                                 |              |
|----------------------------------|-------------------------------------|---------------------------------|--------------|
| • <b>Maximum Vertical Reach</b>  | 57'/17,4 m                          | • <b>Powered Boom Sections</b>  | 3            |
| • <b>Working Area</b>            | 180 Degrees Standard (360 Optional) | • <b>Overall Height</b>         | 13'2"/4 m    |
| • <b>Lifting Capacity</b>        | 20,000 lbs/9072 kg                  | • <b>Operator Controls</b>      | Dual Standup |
| • <b>Boom Length</b>             | 47'/14,3 m                          | • <b>Outrigger Type Front</b>   | "A" Link     |
| • <b>Crane Weight (Standard)</b> | 13,065 lbs/5926 kg                  | • <b>Outrigger Spread Front</b> | 17'7"/5,3 m  |
| • <b>Jib Lengths</b>             | N/A                                 | • <b>Outrigger Type Rear</b>    | "A" STAB     |
| • <b>Winch Bare Drum Pull</b>    | 12,800 lbs/5806 kg                  | • <b>Outrigger Spread Rear</b>  | 10'4"/3,1 m  |

## TECHNICAL SPECIFICATIONS

**Crane Capacity:** 20,000 lbs at five feet load radius.

**Maximum Tip Height:** 57' height.

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

**Boom:** Three-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 57' 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" diameter 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 link

type outriggers mounted at turret box with 17'7" span. One set of "A" type underslung rear stabilizers with 10'4" span.

**Frame:** Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of a 16' flatbed body.

**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 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 PTO, 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 below the flatbed.

**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 black.

**Bumper:** Bureau of Motor Carrier Safety rear bumper.

**Weight:** Approximately 14,665 lbs. with 16' flatbed less truck.

**Truck Chassis Required:** Approx. 144" C.A. RBM 1,000,000 in-lb. per rail, 10,000 lb. front axle and 25,999 lb. GVWR required. Trucks must have 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:**

Front Center Stabilizer for 360 Degree Area of Operation.

4 or 5-Function Radio Remote Controls.

1 or 2-Person Gravity Leveled Steel Basket.

SuperLink A" Outriggers for Short Jacking.

15-ton Hook Block for 2 & 3 Part Line.

Hydraulic Oil Cooler with Fan.

Out and Down Outriggers.

Boom-Mounted Hose Reel.

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](http://www.elliottequip.com)

**MAXIMUM LIFTING CAPABILITIES**

**ELLIOTT**  
EQUIPMENT COMPANY

**MODEL 1000**

**47-FT. BOOM**

MAIN BOOM LOAD RATINGS									JIB LOAD RATINGS						
LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED									LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED						
LOAD RADIUS IN FEET	LOADED BOOM ANGLE	19-FT.		A 29-FT.		B 38-FT.		C 47-FT.		18-FT. FIXED LENGTH JIB			18-30 FT. EXTENDABLE JIB		
		LOADED BOOM ANGLE	LOAD RATING	LOADED BOOM ANGLE	LOAD RATING	LOADED BOOM ANGLE	LOAD RATING	LOADED BOOM ANGLE	LOAD RATING	LOADED BOOM ANGLE	18-FT. JIB	LOADED BOOM ANGLE	18-FT. JIB RETRACTED	LOADED BOOM ANGLE	30-FT. JIB EXTENDED
5	74		20,000							80	3,400	80	3,300	80	2,300
8	64		13,500	74	11,000	78	10,500			75	2,800	75	2,700	75	1,900
10	57		11,500	69	10,500	75	9,500			70	2,400	70	2,300	70	1,600
15	36		8,000	59	7,300	67	6,700	72	6,100	65	2,000	65	1,900	65	1,300
20				46	5,400	58	5,000	65	4,600	60	1,800	60	1,700	60	1,100
25				29	4,200	49	3,900	58	3,600	55	1,400	55	1,300	55	900
30						37	3,300	50	3,000	50	1,300	50	1,200	50	750
35						21	2,800	42	2,600	45	1,100	45	1,000	45	650
40								31	2,200	40	1,000	40	900	40	550
45								14	1,900	35	900	35	800		
										30	800	30	700		
	0		5,900	0	3,600	0	2,400	0	1,700						
			205		130		100		80	DEDUCTIONS FOR STOWED FIXED LENGTH JIB					
			320		205		155		125	DEDUCTIONS FOR STOWED EXTENDABLE JIB					

## TRUCK CHASSIS SPECIFICATIONS

	1047F BoomTruck
Wheelbase (WB)	211" / 536 cm
Cab to Axle (CA)	144" / 366 cm
After Frame (AF)	108" / 274 cm
Frame Section Modulus	10.0 in <sup>3</sup> -110,000 psi / 164 cm <sup>3</sup> -758,428 kPa
Front Axle Gross Weight Rating	10,000 lb / 4536 kg
Rear Axle Gross Weight Rating	19,000 lb / 8618 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% stability requirements.

## OPTIONS



### Radio Remote Control

Interference protected radio remotes let you get closer to your work and have full control over your machine.



### Custom Paint

Choose from a wide list of high quality paint applications including Elliott's standard white or red paint, metallic paints, or multiple colors.



### Hydraulic Oil Cooler

Add a bed-mounted hydraulic oil cooler and fan to assist with high duty cycle job applications. A "must" for hot weather environments



### SuperLink Outriggers™

"Short-jack" with SuperLink Outriggers that deploy straight down by simply removing a pin, making it possible to work over the opposite side with a reduced outrigger spread.



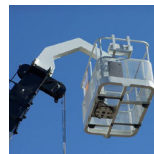
### Tool Boxes

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 to improve lifting capabilities. The block can be stored in a holder on the rear of the bed.



### Gravity Leveled Basket

Elliott's work platforms pin onto the boom for easy installation and removal. Gravity leveling and mechanical rotation make them a great accessory for any worksite.

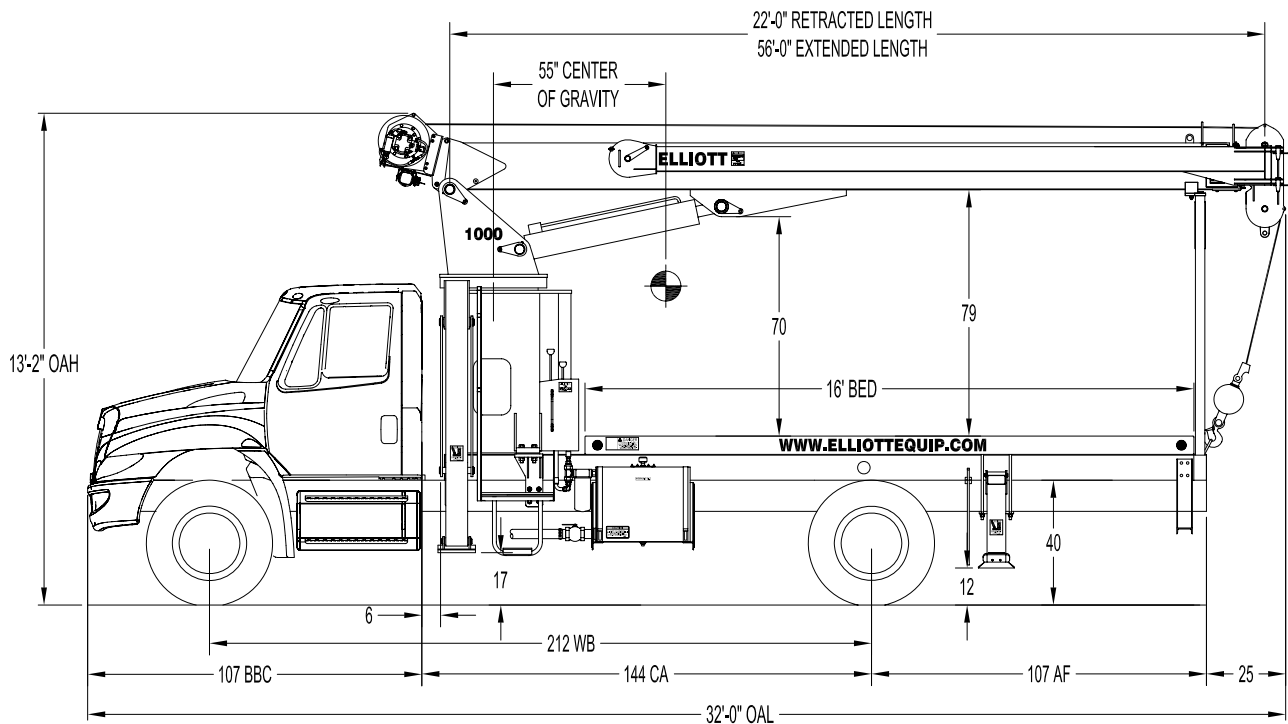


### Body Mounted Hose Reels and Circuits

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



### 1056F SIDE VIEW DIAGRAM



- **Maximum Vertical Reach** 96'/29.2 m
- **Working Area** 180 Degrees Standard (360 Optional)
- **Lifting Capacity** 20,000 lbs/9,072 kg
- **Boom Length** 56'/17.1 m
- **Crane Weight (Dry)** 13,390 lbs/6,074 kg
- **Jib Lengths** 18', 18'-30'/5.5 m, 5.5-9.1 m
- **Winch Bare Drum Pull** 12,800 lbs/5,806 kg

- **Powered Boom Sections** 3
- **Overall Height** 13'2"/4 m
- **Operator Controls** Dual Operator Standup
- **Outrigger Type Front** A-Frame
- **Outrigger Spread Front** 17'7"/5.3 m
- **Outrigger Type Rear** A-Underslung
- **Outrigger Spread Rear** 10'4"/3.1 m

## TECHNICAL SPECIFICATIONS

**Crane Capacity:** 20,000 lbs at five feet load radius.

**Maximum Tip Height:** 66' height (96' with optional 30' jib)

**Control Console:** Dual operator standup control stations equipped with four single axis control levers for the main crane controls. Operator station includes 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 66' 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 17'7" span, and

one set of underslung "A" auxiliary 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 16' 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 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 13,390 lbs. with 16' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 144" C.A. RBM 1,100,000 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:**

- 18-30' Telescopic Material Handling Jib.
- Radio Remote Controls.
- Superlink Short Jack Outriggers.
- Gravity Leveled Steel Basket.
- Front Jack for 360 Degree Area of Operation.
- 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](http://www.elliottequip.com)



## CHASSIS SPECIFICATIONS

	1056F BoomTruck
Wheelbase (WB)	211" / 536 cm
Cab to Axle (CA)	144" / 366 cm
Cab to End of Frame (EOF)	244" / 620 cm
Frame Section Modulus	10.0 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% stability 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

Choose between telescopic or fixed jibs that stow on the side of the boom and pin on the boom tip 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.



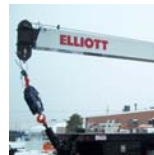
### Superlink Short Jack Outriggers

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 to improve lifting capabilities. The block can be stored at the rear of the bed.



### Gravity Levelled 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.

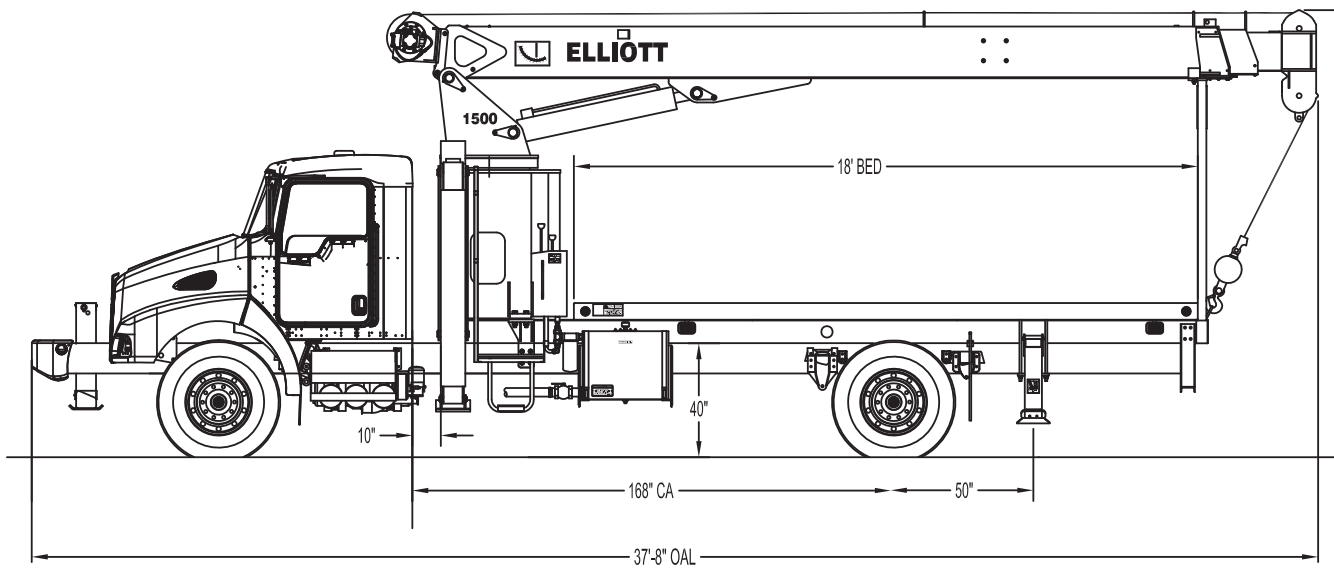


### Body Mounted Hose Reels and Circuits

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



### 1560F SIDE VIEW DIAGRAM



- |                                 |                                     |                                 |                       |
|---------------------------------|-------------------------------------|---------------------------------|-----------------------|
| • <b>Maximum Vertical Reach</b> | 90'/27,4 m                          | • <b>Powered Boom Sections</b>  | 3                     |
| • <b>Working Area</b>           | 180 Degrees Standard (360 Optional) | • <b>Overall Height</b>         | 12'11"/3,9 m          |
| • <b>Lifting Capacity</b>       | 30,000 lbs/13 608 kg                | • <b>Operator Controls</b>      | Dual Operator Standup |
| • <b>Boom Length</b>            | 60'/18,3 m                          | • <b>Outrigger Type Front</b>   | A-Frame               |
| • <b>Crane Weight (Dry)</b>     | 14,825 lbs/6725 kg                  | • <b>Outrigger Spread Front</b> | 20'10"/6,3 m          |
| • <b>Jib Lengths</b>            | 20'/6,1 m                           | • <b>Outrigger Type Rear</b>    | A-Stabilizers         |
| • <b>Winch Bare Drum Pull</b>   | 12,800 lbs/5806 kg                  | • <b>Outrigger Spread Rear</b>  | 10'4"/3,1 m           |

## TECHNICAL SPECIFICATIONS

**Crane Capacity:** 30,000 lbs at a 5' load radius.

**Maximum Tip Height:** 70' height (90' with optional 20' jib)

**Control Console:** Dual operator standup control stations equipped with four single axis control levers for the main crane controls. Operator station includes 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 70' 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" auxiliary stabilizers with a 10'4" span.

**Frame:** Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of 18' 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 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 14,825 lbs. with 18' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 169" C.A. 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:**

Front Center Stabilizer for 360 Degree Area of Operation.

Continuous 360 Rotation.

4 or 5-Function Radio Remote Controls.

1 or 2-Person Gravity Leveled Steel Basket.

SuperLink "A" Outriggers for Short Jacking.

15-ton Hook Block for 2 & 3 Part Line.

Hydraulic Oil Cooler with Fan.

Boom-Mounted Hose Reel.

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](http://www.elliottequip.com)

**MAXIMUM LIFTING CAPABILITIES**



**MODEL 1500 60-ft BOOM**

**MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS**

**MAIN BOOM LOAD RATINGS**

LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS (feet)	LOADED BOOM ANGLE	24 ft		A 33 ft		B 42		C 51 ft		D 60 ft	
		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE		LOADED BOOM ANGLE	
5	76	30,000									
10	63	18,400	71	17,700	75	17,000	78	15,800			
15	48	13,800	61	12,800	68	12,300	73	11,600	75	11,400	
20	27	10,700	52	10,100	61	9,600	67	9,100	70	8,800	
25			39	8,300	53	7,900	60	7,400	65	7,200	
30			21	6,600	43	6,600	53	6,300	60	6,000	
35					32	5,500	46	5,400	54	5,200	
40					13	4,100	37	4,600	48	4,500	
45							26	3,750	41	3,500	
50									32	3,050	
55									27	2,600	
	0	7,100	0	4,650	0	3,250	0	2,350	0	1,750	
		350		250		200		150		150	

**JIB LOAD RATINGS**

LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED

20-FT FIXED LENGTH JIB	
LOADED BOOM ANGLE	20-FT JIB
78	4,700
74	3,700
70.5	3,000
66.5	2,400
62.5	2,100
58.5	1,700
54	1,400
49.5	1,300
45	1,200
39.5	1,000
33.5	800

DEDUCTIONS FOR STOWED FIXED LENGTH JIB

**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

1-PART LINE



2-PART LINE



3-PART LINE



4-PART LINE



ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:  
 DOWNHAUL WEIGHT.....180 lbs  
 ONE SHEAVE BLOCK.....375 lbs  
 TWO SHEAVE BLOCK.....640 lbs

MAX PULL: 9,600 lbs	19,200 lbs	28,800 lbs	30,000 lbs	9/16" - 6X37 IWRC (3.5:1 S.F.) 33,600-lbs. BREAKING STRENGTH
MAX PULL: 9,060 lbs	18,120 lbs	27,180 lbs	30,000 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH
MAX PULL: 7,680 lbs	15,360 lbs	23,040 lbs	30,000 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 38,400-lbs. BREAKING STRENGTH

CRANE MEETS ASME B30.1 REQUIREMENTS AT TIME OF MANUFACTURE

DO NOT PRINT OVER ANY LABELS 110340 06007



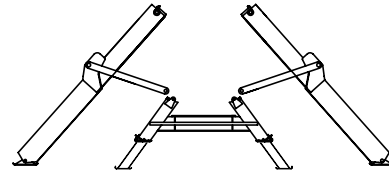
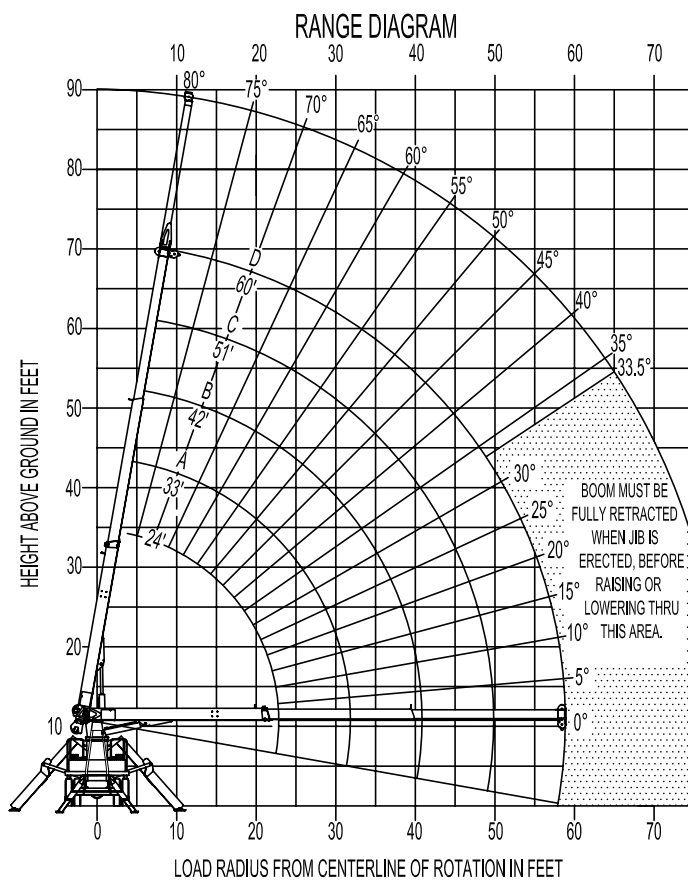
Elliott Equipment Company Phone: 402-592-4500  
 4427 South 76th Circle Fax: 402-592-4553  
 Omaha, NE 68127 Email: sales@elliottequip.com

**Built for You.**  
[www.elliottequip.com](http://www.elliottequip.com)

**MAXIMUM RANGE CAPABILITIES**



**MODEL 1500 60-ft BOOM**

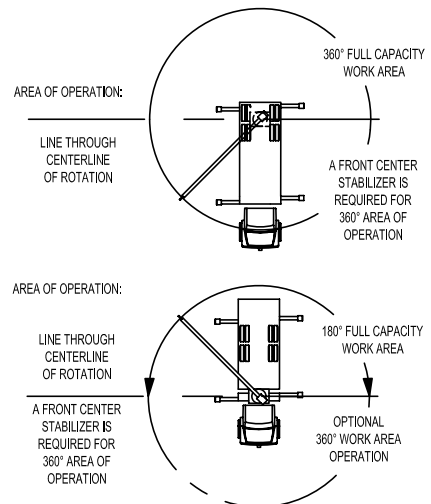


OUTRIGGERS AT FULL EXTENSION

**NOTE:**

1. Operate jib by radius when main boom is full extended. Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only.

**AREA OF OPERATION**



CRANE MEETS ASME B30.1 REQUIREMENTS AT TIME OF MANUFACTURE

DO NOT PAINT OVER HWY LABELS 110340 08907

## CHASSIS SPECIFICATIONS

	1560F BoomTruck
Wheelbase (WB)	236" / 599 cm
Cab to Axle (CA)	168" / 427 cm
Cab to End of Frame (EOF)	268" / 681 cm
Frame Section Modulus	13.3 in3-110,000 psi
Front Axle Gross Weight Rating	13,000 lb / 5896 kg
Rear Axle Gross Weight Rating	20,000 lb / 9072 kg
Integral Front Frame Rails	Required for Front Stabilizer

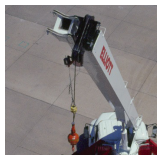
Chassis data is minimum general requirements-not for engineering.  
 Actual dimensions and truck data will depend on truck selection and axle configuration.  
 \*Minimum chassis weight is required to meet 85% stability requirements.

## 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 Attachment

One-piece fixed jib that stows on the side of the boom and pins on the boom tip 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.



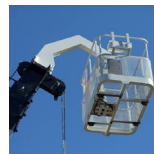
### Tool Boxes

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 to improve lifting capabilities. The block can be stored at the rear of the bed.



### Gravity Levelled 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.

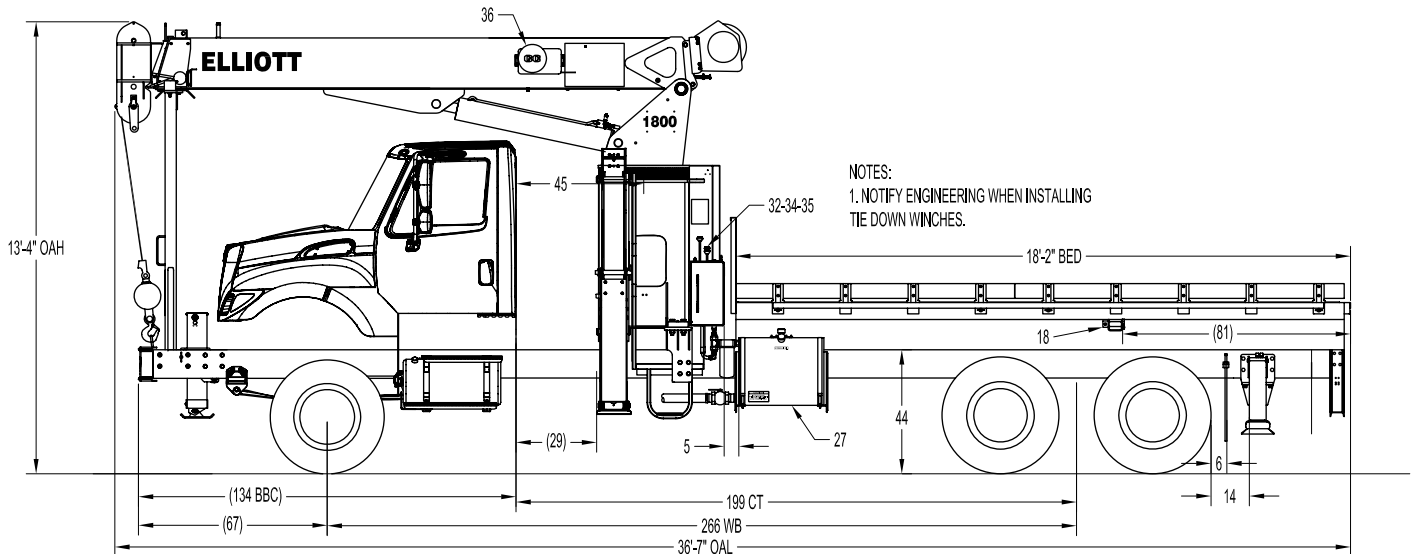


### Body Mounted Hose Reels and Circuits

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



### 1838F SIDE VIEW DIAGRAM



- |                                 |                                     |                                 |                       |
|---------------------------------|-------------------------------------|---------------------------------|-----------------------|
| • <b>Maximum Vertical Reach</b> | 48'/14.6 m                          | • <b>Powered Boom Sections</b>  | 3                     |
| • <b>Working Area</b>           | 180 Degrees Standard (360 Optional) | • <b>Overall Height</b>         | 13'4"/4.1 m           |
| • <b>Lifting Capacity</b>       | 36,000 lbs/16,329 kg                | • <b>Operator Controls</b>      | Dual Operator Standup |
| • <b>Boom Length</b>            | 38'/11.6 m                          | • <b>Outrigger Type Front</b>   | A-Frame               |
| • <b>Crane Weight (Dry)</b>     | 13,540 lbs/6,142 kg                 | • <b>Outrigger Spread Front</b> | 20'10"/6.3 m          |
| • <b>Jib Lengths</b>            | N/A                                 | • <b>Outrigger Type Rear</b>    | A-Underslung          |
| • <b>Winch Bare Drum Pull</b>   | 12,800 lbs/5,806 kg                 | • <b>Outrigger Spread Rear</b>  | 10'4"/3.1 m           |

## TECHNICAL SPECIFICATIONS

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

**Maximum Tip Height:** 48' height.

**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 48' 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" auxiliary

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 18' 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 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 double-acting hydraulic extension cylinder, attached to the largest boom section, with a proportional cable extension system driving the third boom 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 13,540 lbs. with 18' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 192" C.A. RBM 1,463,000 in-lb. per rail, 20,000 lb. front axle and 60,000 lb. GVWR required. Truck requires extended front frame rails, 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:**

Radio Remote Controls.

Superlink Short Jack Outriggers.

Gravity Leveled Steel Basket.

Front Jack for 360 Degree Area of Operation.

Hydraulic Tool Circuits on Bed.

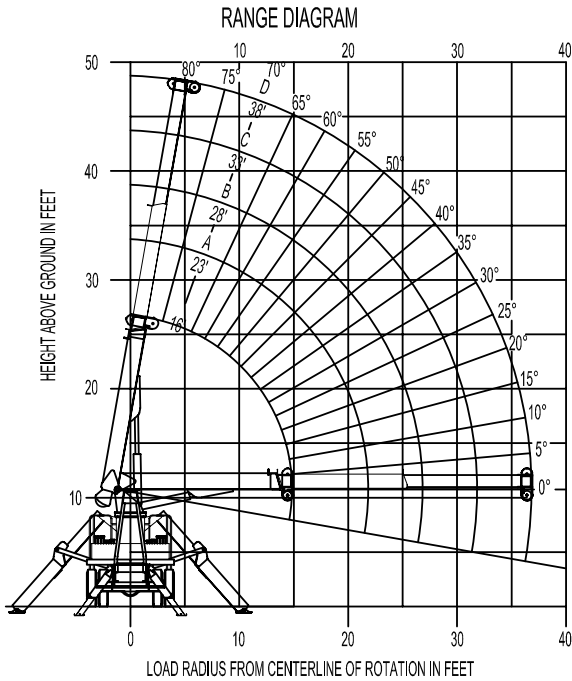
Much More...

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## MAXIMUM LIFTING CAPABILITIES

**ELLIOTT**  
EQUIPMENT COMPANY

MODEL 1800 38-FT. BOOM



MAIN BOOM LOAD RATINGS														
LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED														
LOAD RADIUS (feet)	LOADED BOOM ANGLE	16 ft	LOADED BOOM ANGLE	23 ft	A	LOADED BOOM ANGLE	28 ft	B	LOADED BOOM ANGLE	33 ft	C	LOADED BOOM ANGLE	38 ft	D
5	70	36,000												
8	58	25,900	68	22,950	72	21,400	75	20,000	77	18,900				
11	44	20,500	59	18,600	65	17,250	69	16,000	72	15,100				
14	23	16,400	50	15,750	58	14,650	64	13,600	67	12,750				
17			38	13,500	50	12,700	57	11,850	62	11,150				
20			22	11,250	41	11,200	51	10,650	57	9,950				
23					30	9,850	45	9,550	52	9,050				
26					16	8,150	36	8,600	46	8,250				
29							25	7,600	39	7,550				
32											31	6,900		
35											19	5,950		
0		12,100	0	8,100	0	6,350	0	5,250	0	4,400				

- WARNING**
1. THE OPERATOR MUST READ AND UNDERSTAND ALL DECALS IN ADDITION TO THE OPERATION AND SAFETY MANUAL BEFORE OPERATING THIS CRANE.
  2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN THE OPERATION AND SAFETY MANUAL.
  3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE APPLYING A LOAD SHOULD BE GREATER TO ACCOUNT FOR DEFLECTION. DO NOT EXCEED THE OPERATING RADIUS FOR A BOOM LENGTH AND LOAD RATING.
  4. THE JIB LOAD RATING CHART IS BASED ON THE LOADED BOOM ANGLES OF THE MAIN BOOM AND NOT THE LOAD RADIUS. DO NOT EXCEED JIB LOAD RATINGS AT REDUCED BOOM LENGTHS.
  5. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
  6. FOR BOOM LENGTHS NOT SHOWN, USE THE RATING OF NEXT LONGER BOOM LENGTH, FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
  7. CRANE LOAD RATINGS ON OUTRIGGERS AND STABILIZERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
  8. PRACTICAL WORKING LOADS DEPEND ON THE SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
  9. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART. BOOM MUST BE FULLY RETRACTED AGAINST THE BOOM STOPS AT ALL TIMES WHEN LIFTING MINIMUM BOOM LENGTH CAPACITY LOADS.
  10. IF ANY OPERATIONAL AID SUCH AS ANTI-2-BLOCK, OVERLOAD SYSTEM OR LEVELING INDICATOR IS MALFUNCTIONING OR INOPERATIVE, DISCONTINUE USE IMMEDIATELY AND CONTACT A QUALIFIED REPAIR FACILITY.
  11. CAPACITY INDICATING/LIMITING DEVICES SHOULD NOT BE RELIED UPON TO REPLACE THE USE OF CAPACITY CHARTS AND PROPER OPERATING PROCEDURES.

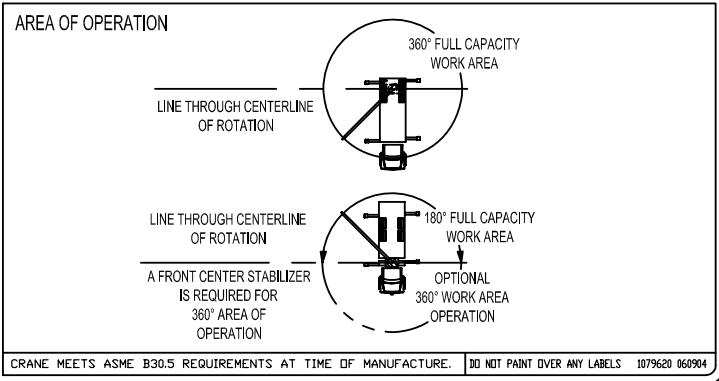
- INFORMATION**
1. DEDUCTIONS MUST BE MADE FROM RATED CAPACITIES FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, LOAD BLOCKS (SEE DEDUCTION CHART), WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
  2. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS AND STABILIZERS EXTENDED AND SET WITH ALL LOAD REMOVED FROM CARRIER WHEELS.
  3. LOAD RATINGS ABOVE THE BOLD LINE ARE STRUCTURALLY LIMITED AND DO NOT EXCEED 85% OF TIPPING.
- DEFINITIONS**
1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH A LOAD APPLIED.
  2. LOADED BOOM ANGLES, SHOWN ABOVE, ARE THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXIS OF THE BOOM BASE AFTER LIFTING RATED LOAD AT THE RATED RADIUS.

ALLOWABLE LINE PULL				NOTICE
1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	
				<p>- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM.</p> <p>- KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES.</p> <p>- USE ONLY 9/16" DIAMETER WIRE ROPE, AS SPECIFIED BELOW, WITH THE PROPER BREAKING STRENGTHS LISTED.</p> <p>- ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION &amp; SAFETY MANUAL.</p>
9,600 lb	19,200 lb	28,800 lb	36,000 lb	
9,060 lb	18,120 lb	27,180 lb	36,000 lb	
5,880 lb	11,760 lb	17,640 lb	23,520 lb	<p>9/16" - 6 x 37 IWRC (354 SF) 33,600 lb BREAKING STRENGTH</p> <p>9/16" - SPIN RESISTANT (51 SF) 45,300 lb BREAKING STRENGTH</p> <p>9/16" - SPIN RESISTANT (51 SF) 29,400 lb BREAKING STRENGTH</p>

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES SUPPLIED BY ELLIOTT EQUIPMENT CO.

OVERHAUL BALL - - - - - SEE OVERHAUL BALL MFG. NAMEPLATE  
 LOAD BLOCK - - - - - SEE BLOCK MFG. NAMEPLATE  
 SWING AROUND JIB - - - - - SEE LOAD RATING CHART

**WARNING:**  
 LIFTING OFF THE MAIN BOOM WHILE JIB IS ERECTED IS NOT INTENDED OR APPROVED.



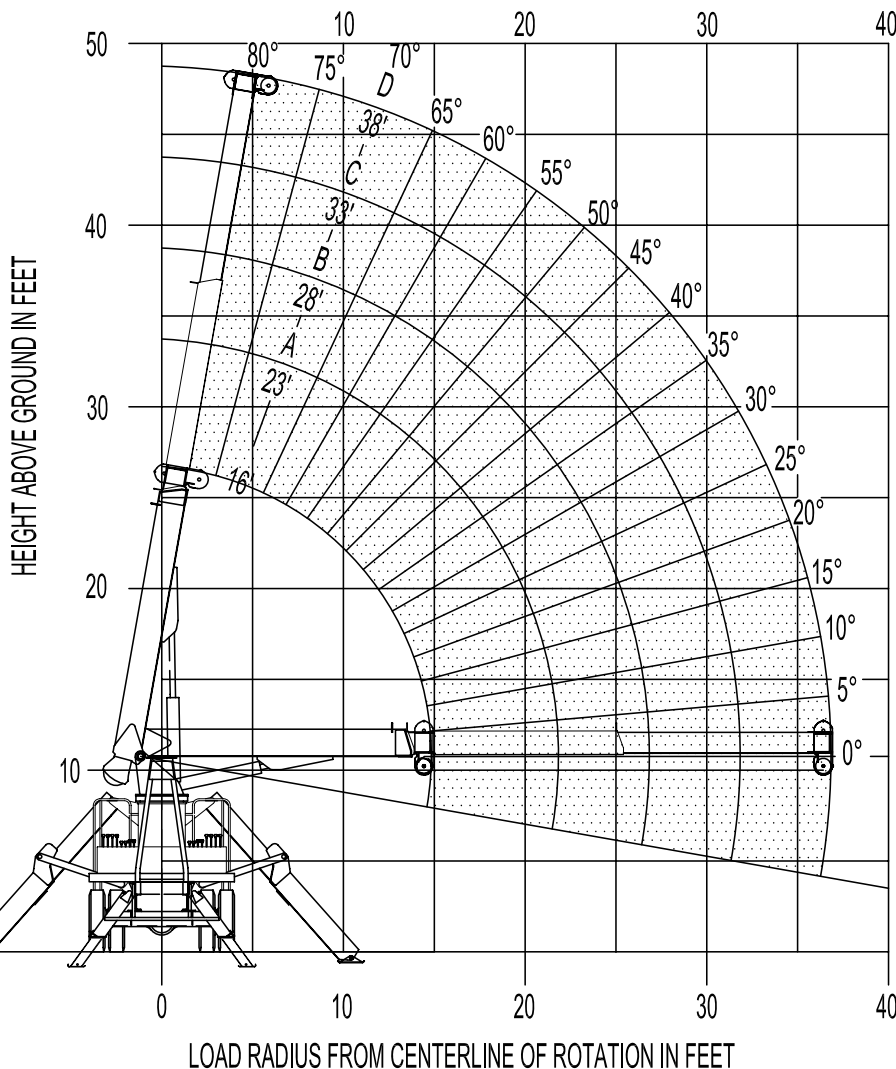
**MAXIMUM RANGE CAPABILITIES**



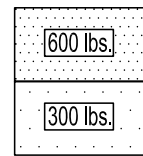
**MODEL 1800 38-FT. BOOM**

**BASKET TO BE OPERATED ON BOOM ONLY WHEN  
OUTRIGGERS ARE FULLY DEPLOYED HORIZONTALLY.**

**RANGE DIAGRAM**



**WARNING:**  
BASKET IS TO BE OPERATED ONLY IN AREAS WHERE CAPACITIES EXCEED:  
2,200 LBS. FOR 600 LB. BASKET CAPACITY  
1,600 LBS. FOR 300 LB. BASKET CAPACITY.



**MAIN BOOM WORKING AREA**

DO NOT PAINT OVER ANY LABELS 1140040 021308

## CHASSIS SPECIFICATIONS

	1838F BoomTruck
Wheelbase (WB)	256" / 650 cm
Cab to Axle (CA)	192" / 488 cm
Cab to End of Frame (EOF)	300" / 762 cm
Frame Section Modulus	13.3 in3-110,000 psi
Front Axle Gross Weight Rating	13,000 lb / 5897 kg
Rear Axle Gross Weight Rating	20,000 lb / 9072 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% stability requirements.

## OPTIONS



### Radio Remote Control

Interference protected radio remotes let you get closer to your work and have full control over your machine.



### Hydraulic Oil Cooler

Add a bed-mounted hydraulic oil cooler and fan to assist with high duty cycle job applications. A "must" for hot weather environments



### Continuous Boom Rotation

Add the convenience of 360 degree area of operation by adding a special boom rotation bearing for swinging without stops.



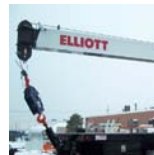
### Superlink Short Jack Outriggers

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.



### Gravity Levelled 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.

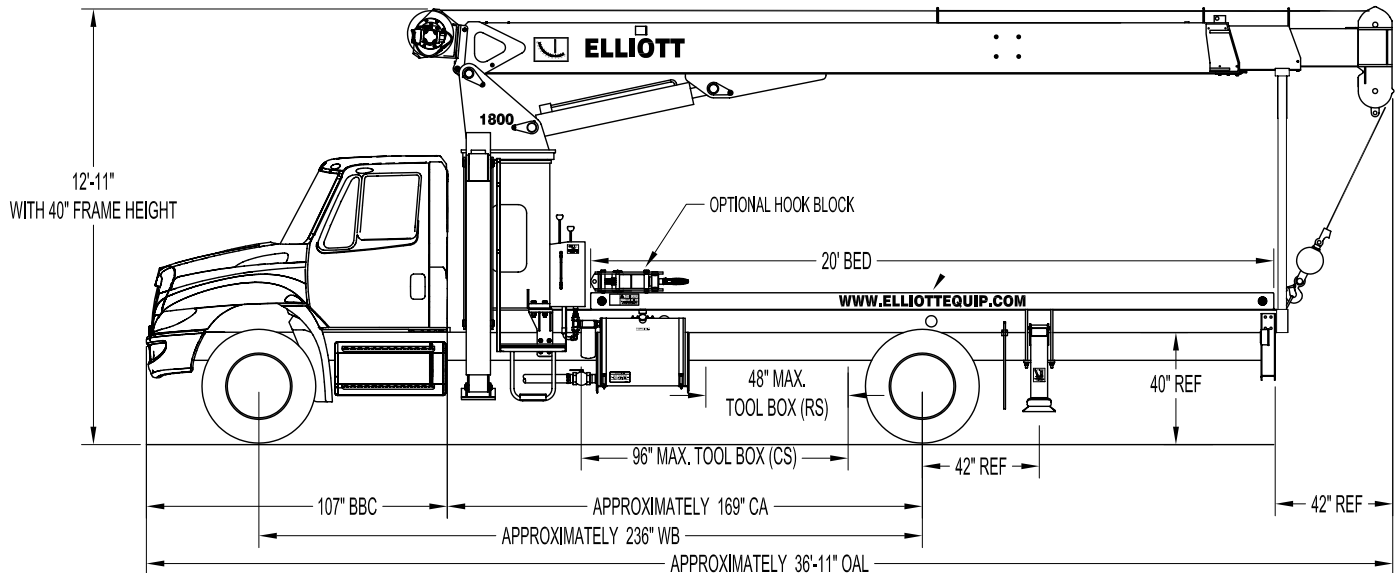


### Body Mounted Hose Reels and Circuits

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



### 1860F SIDE VIEW DIAGRAM



- |                                 |                                     |                                 |                       |
|---------------------------------|-------------------------------------|---------------------------------|-----------------------|
| • <b>Maximum Vertical Reach</b> | 90'/27,4 m                          | • <b>Powered Boom Sections</b>  | 3                     |
| • <b>Working Area</b>           | 180 Degrees Standard (360 Optional) | • <b>Overall Height</b>         | 12'11\"/>             |
| • <b>Lifting Capacity</b>       | 36,000 lbs/16 329 kg                | • <b>Operator Controls</b>      | Dual Operator Standup |
| • <b>Boom Length</b>            | 60'/18,3 m                          | • <b>Outrigger Type Front</b>   | A-Frame               |
| • <b>Crane Weight (Dry)</b>     | 14,845 lbs/6734 kg                  | • <b>Outrigger Spread Front</b> | 20'10\"/>             |
| • <b>Jib Lengths</b>            | 20'/6,1 m                           | • <b>Outrigger Type Rear</b>    | A-Underslung          |
| • <b>Winch Bare Drum Pull</b>   | 12,800 lbs/5806 kg                  | • <b>Outrigger Spread Rear</b>  | 10'4\"/>              |

## TECHNICAL SPECIFICATIONS

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

**Maximum Tip Height:** 70' height (90' with optional 20' 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 70' 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" auxiliary 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 18' 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 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 14,845 lbs. with 18' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 168" C.A. 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:**

20' Fixed Jib.

Radio Remote Controls.

Superlink Short Jack Outriggers.

Gravity Leveled Steel Basket.

Front Jack for 360 Degree Area of Operation.

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](http://www.elliottequip.com)

**MAXIMUM LIFTING CAPABILITIES**

**MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS**

MAIN BOOM LOAD RATINGS											JIB LOAD RATINGS		
LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED													
LOAD RADIUS (feet)	LOADED BOOM ANGLE	24 ft	LOADED BOOM ANGLE	A 33 ft	LOADED BOOM ANGLE	B 42 ft	LOADED BOOM ANGLE	C 51 ft	LOADED BOOM ANGLE	D 60 ft	LOAD RADIUS (feet)	LOADED BOOM ANGLE	JIB 20 ft
5	76	36,000									15	78	4,700
10	63	21,400	71	17,800	75	17,100	78	15,900			20	74	3,700
15	48	15,300	61	12,900	68	12,400	73	11,700	75	11,500	25	70.5	3,000
20	27	11,600	51	10,200	61	9,700	67	9,200	70	8,900	30	66.5	2,400
25			39	8,400	53	8,000	60	7,500	65	7,300	35	62.5	2,100
30			21	6,650	43	6,700	53	6,400	60	6,100	40	58.5	1,700
35					32	5,550	46	5,450	54	5,300	45	54	1,400
40					13	4,150	37	4,650	48	4,600	50	49.5	1,300
45							26	3,800	41	3,550	55	45	1,200
50									32	3,100	60	39.5	1,000
55									27	2,650	65	33.5	800
	0	7,200	0	4,700	0	3,300	0	2,400	0	1,800			
		350		250		200		150		150	DEDUCTIONS FOR STOWED FIXED LENGTH JIB		

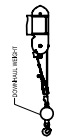

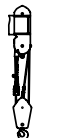

**NOTICE**

- 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

1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:
				DOWNHAUL WEIGHT .....180 lbs ONE SHEAVE BLOCK.....375 lbs TWO SHEAVE BLOCK.....640 lbs
MAX PULL: 9,600 lbs	19,200 lbs	28,800 lbs	36,000 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	36,000 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH
MAX PULL: 7,680 lbs	15,360 lbs	23,040 lbs	30,720 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 38,400-lbs. BREAKING STRENGTH

CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE

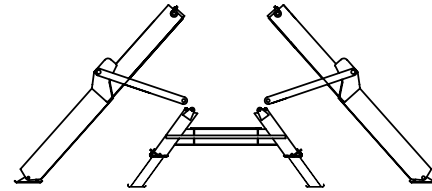
DO NOT PAINT OVER ANY LABELS 103250 022807



Elliott Equipment Company  
4427 South 76th Circle  
Omaha, NE 68127  
Phone: 402-592-4500  
Fax: 402-592-4553  
Email: sales@elliottequip.com

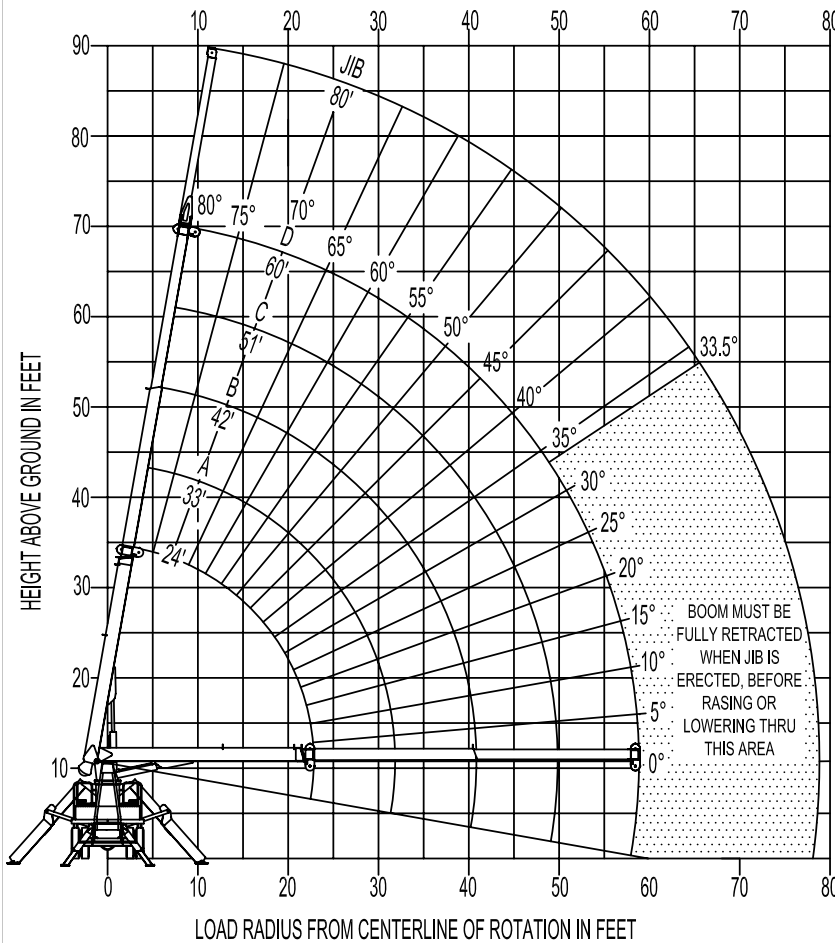
**Built for You.**  
www.elliottequip.com

## MAXIMUM RANGE CAPABILITIES



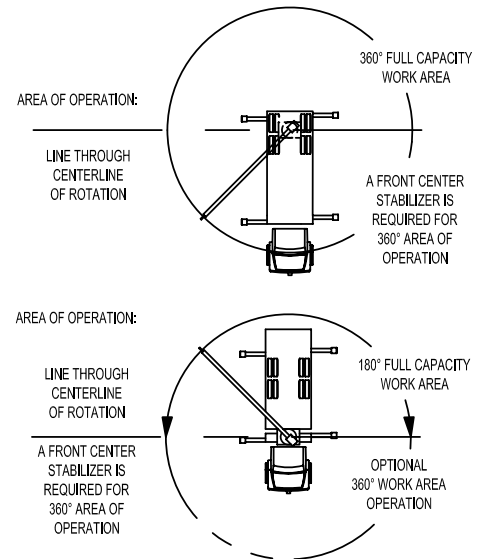
OUTRIGGERS AT FULL EXTENSION

### RANGE DIAGRAM



### NOTE:

1. Operate jib by radius when main boom is full extended. Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only.



## CHASSIS SPECIFICATIONS

	1860F BoomTruck
Wheelbase (WB)	236" / 599 cm
Cab to Axle (CA)	168" / 427 cm
Cab to End of Frame (EOF)	271" / 688 cm
Frame Section Modulus	13.3 in3-110,000 psi / 758,428 kPa
Front Axle Gross Weight Rating	13,000 lb / 5896 kg
Rear Axle Gross Weight Rating	20,000 lb / 9072 kg
Integral Front Frame Rails	Required for Front Stabilizer

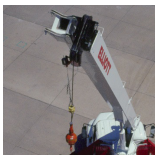
Chassis data is minimum general requirements-not for engineering.  
 Actual dimensions and truck data will depend on truck selection and axle configuration.  
 \*Minimum chassis weight is required to meet 85% stability requirements.

## 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 Attachment

One piece fixed jib that stows on the side of the boom and pins on the boom tip 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.



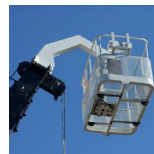
### Tool Boxes

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.



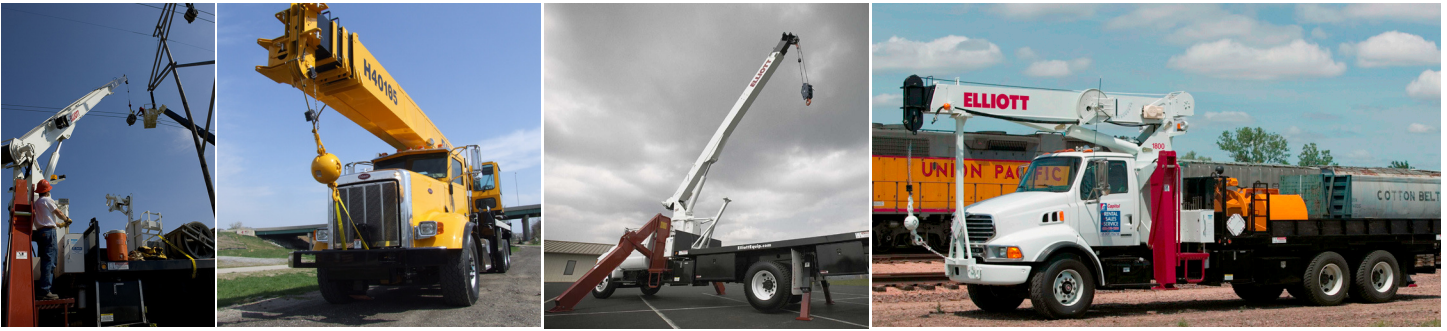
### Gravity Levelled Basket

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.

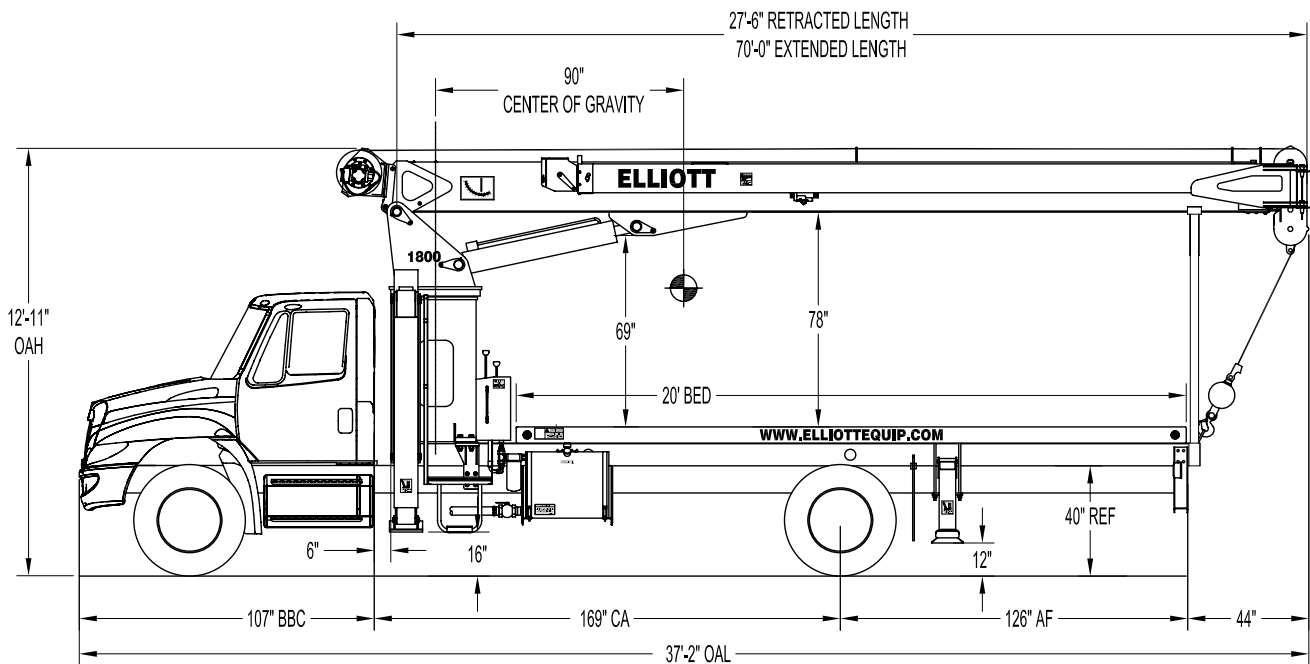


### Body Mounted Hose Reels and Circuits

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



### 1870F SIDE VIEW DIAGRAM



- **Maximum Vertical Reach** 120'/36,6 m
- **Working Area** 180 Degrees Standard (360 Optional)
- **Lifting Capacity** 36,000 lbs/16 329 kg
- **Boom Length** 70'/21,3 m
- **Crane Weight (Dry)** 16,235 lbs/7364 kg
- **Jib Lengths** 23', 23-40'/7 m, 7-12 m
- **Winch Bare Drum Pull** 12,800 lbs/5806 kg

- **Powered Boom Sections** 3
- **Overall Height** 12'11\"/>
- **Operator Controls** Dual Operator Standup Controls
- **Outrigger Type Front** A-Frame
- **Outrigger Spread Front** 20'10\"/>
- **Outrigger Type Rear** A-Underslung
- **Outrigger Spread Rear** 10'4\"/>

## 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 one-piece 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. 168" 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](http://www.elliottequip.com)

**MAXIMUM LIFTING CAPABILITIES**

**MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS**

MAIN BOOM LOAD RATINGS												JIB LOAD RATINGS								
LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED												LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED								
LOAD RADIUS IN FEET	LOADED BOOM ANGLE	27-FT		A		B		C		D		E		23-FT FIXED LENGTH JIB		23-40 FT EXTENDABLE JIB				
		LOADED BOOM ANGLE		LOADED BOOM ANGLE	34-FT	LOADED BOOM ANGLE	43-FT	LOADED BOOM ANGLE	52-FT	LOADED BOOM ANGLE	61-FT	LOADED BOOM ANGLE	70-FT	LOADED BOOM ANGLE	23-FT JIB	LOADED BOOM ANGLE	23-FT JIB RETRACTED	LOADED BOOM ANGLE	40-FT JIB EXTENDED	
5	79		36000																	
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											22	1550								
	0	6000	0	4200	0	3000	0	1900	0	1300	0	1000								
		340		270		210		170		150		130								
		530		420		330		270		230		200								
												DEDUCTIONS FOR STOWED FIXED LENGTH JIB								
												DEDUCTIONS FOR STOWED EXTENDABLE JIB								

**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

1-PART LINE



2-PART LINE



3-PART LINE



4-PART LINE



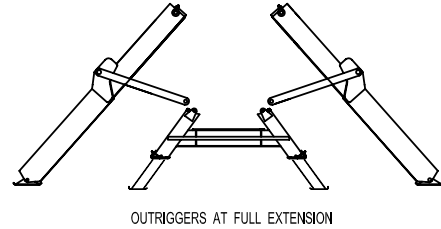
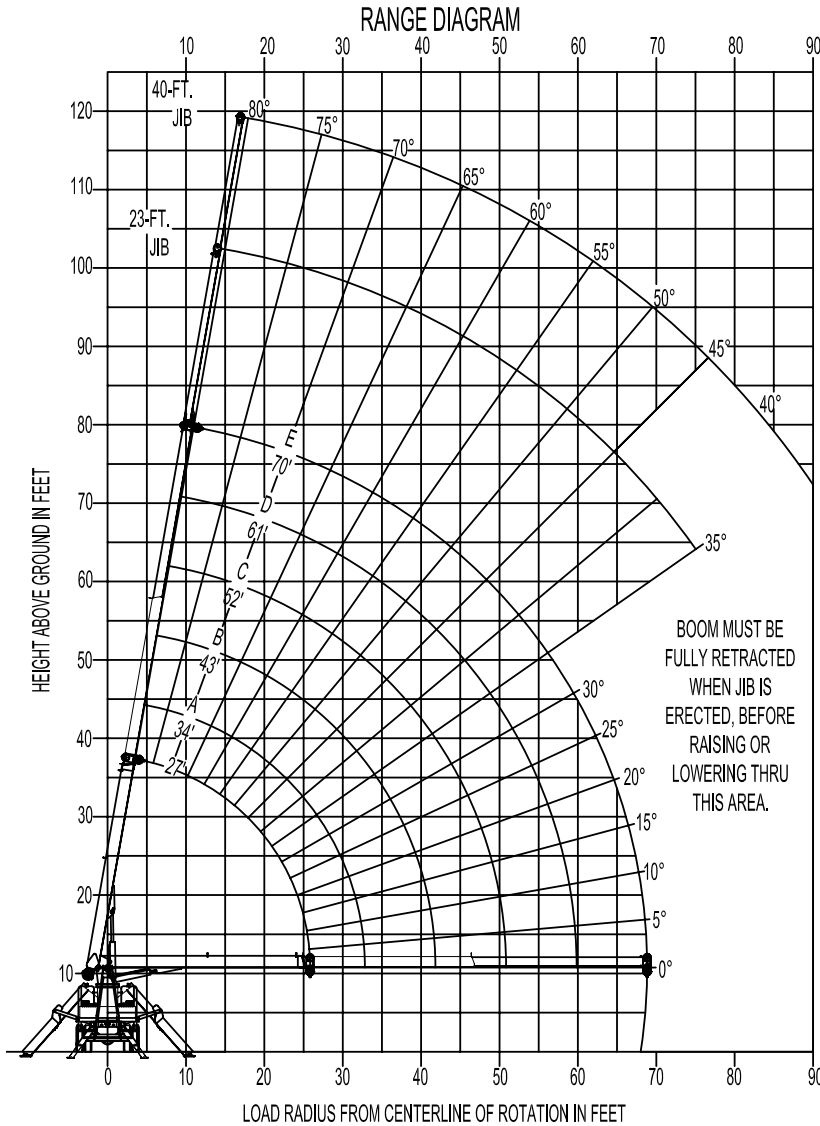
ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:  
 DOWNHAUL WEIGHT .....180 lbs  
 ONE SHEAVE BLOCK.....375 lbs  
 TWO SHEAVE BLOCK.....640 lbs

MAX PULL: 9,600 lbs	19,200 lbs	28,800 lbs	36,000 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	36,000 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH
MAX PULL: 7,680 lbs	15,360 lbs	23,040 lbs	30,720 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 38,400-lbs. BREAKING STRENGTH

CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE

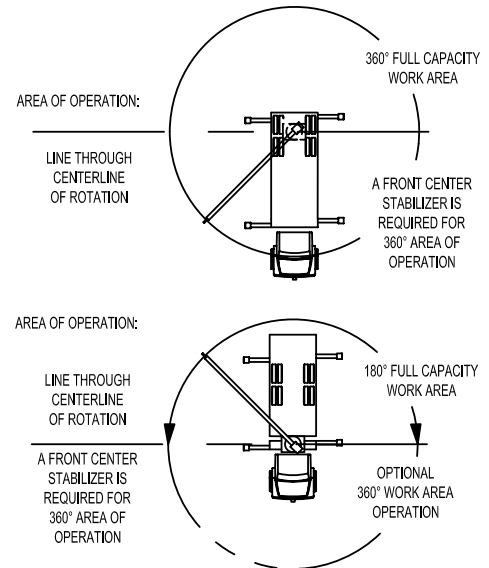
DO NOT PAINT OVER ANY LABELS 1080270 043004

## MAXIMUM RANGE CAPABILITIES



**NOTE:**

1. Operate jib by radius when main boom is full extended. Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only.



## CHASSIS SPECIFICATIONS

	1870F BoomTruck
Wheelbase (WB)	236" / 599 cm
Cab to Axle (CA)	168" / 427 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 / 5896 kg
Rear Axle Gross Weight Rating	20,000 lb / 9072 kg
Integral Front Frame Rails	Required for Front Stabilizer

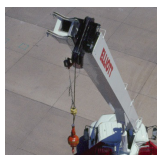
Chassis data is minimum general requirements-not for engineering.  
 Actual dimensions and truck data will depend on truck selection and axle configuration.  
 \*Minimum chassis weight is required to meet 85% stability requirements.

## 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.



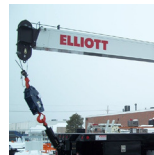
### Superlink Short Jack Outriggers

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.



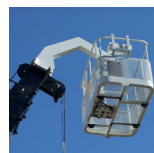
### Tool Boxes

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



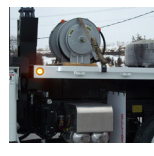
### Hook Block for Multi-Part Line

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.



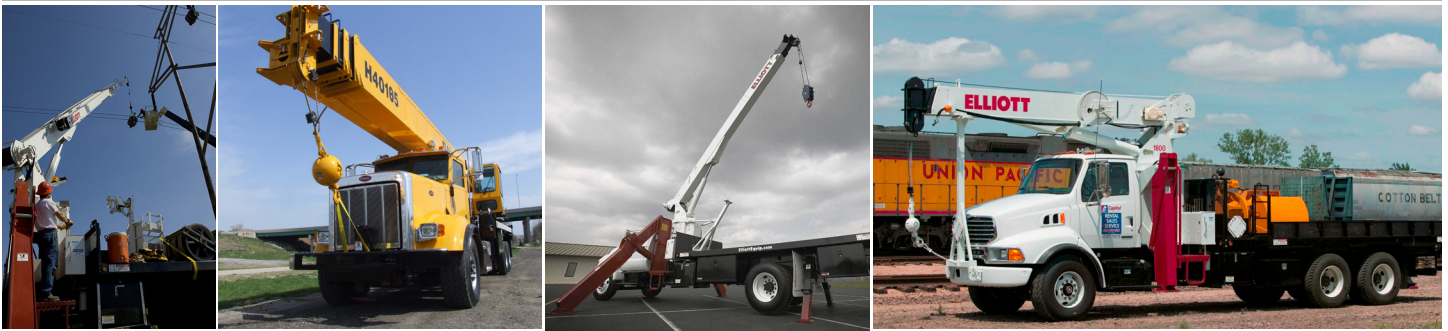
### Gravity Levelled Basket

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.

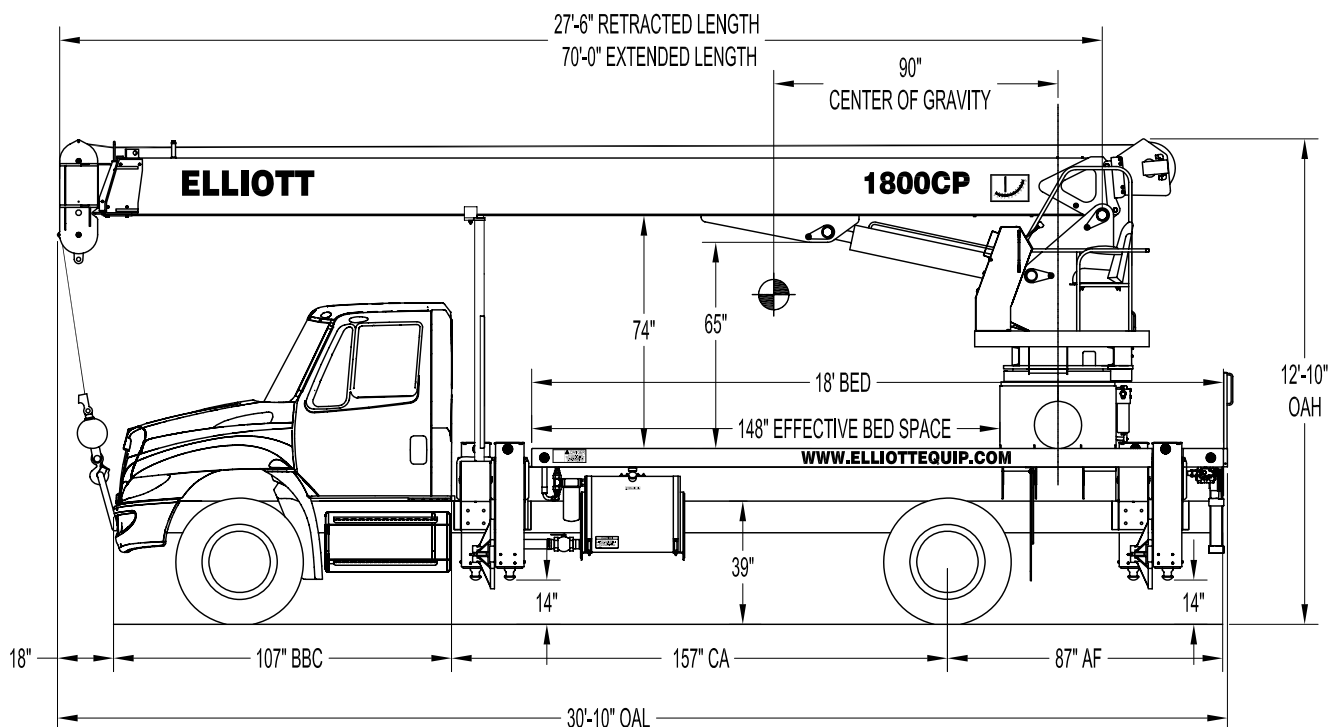


### Body Mounted Hose Reels and Circuits

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



### 1870CP SIDE VIEW DIAGRAM



- |                                 |                         |                                 |                      |
|---------------------------------|-------------------------|---------------------------------|----------------------|
| • <b>Maximum Vertical Reach</b> | 120'/36,6 m             | • <b>Powered Boom Sections</b>  | 3                    |
| • <b>Working Area</b>           | 360 Degrees             | • <b>Overall Height</b>         | 12'10"/3,9 m         |
| • <b>Lifting Capacity</b>       | 36,000 lbs/16 329 kg    | • <b>Operator Controls</b>      | Rotating Single Seat |
| • <b>Boom Length</b>            | 70'/21,3 m              | • <b>Outrigger Type Front</b>   | Out-Down             |
| • <b>Crane Weight (Dry)</b>     | 16,235 lbs/7364 kg      | • <b>Outrigger Spread Front</b> | 17'6"/5,3 m          |
| • <b>Jib Lengths</b>            | 23', 23-40'/7 m, 7-12 m | • <b>Outrigger Type Rear</b>    | Out-Down             |
| • <b>Winch Bare Drum Pull</b>   | 12,800 lbs/5806 kg      | • <b>Outrigger Spread Rear</b>  | 17'6"/5,3 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:** Rotating single seat control station on street side of crane equipped with four single axis control levers for the main crane controls and two grip strut steps for access. Operator station includes adjustable operator seat, 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 controls mounted at rear under each corner of bed.

**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:** Two sets of out and down main outriggers with a 17'6" span, ball-socket removable aluminum outrigger pads and independent outrigger controls.

**Frame:** Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of 18' 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 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 double-acting 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 or 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.

**Bumper:** Bureau of Motor Carrier Safety rear bumper.

**Weight:** Approximately 16,235 lbs. with 18' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 156" C.A. RBM 1,463,000 in-lb. per rail, 13,000 lb. front axle and 33,000 lb. GVWR required. Trucks must have 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:**

23' Fixed or 40' Telescopic Jib.

Radio Remote Controls.

1 or 2 Person Gravity Leveled Steel Basket.

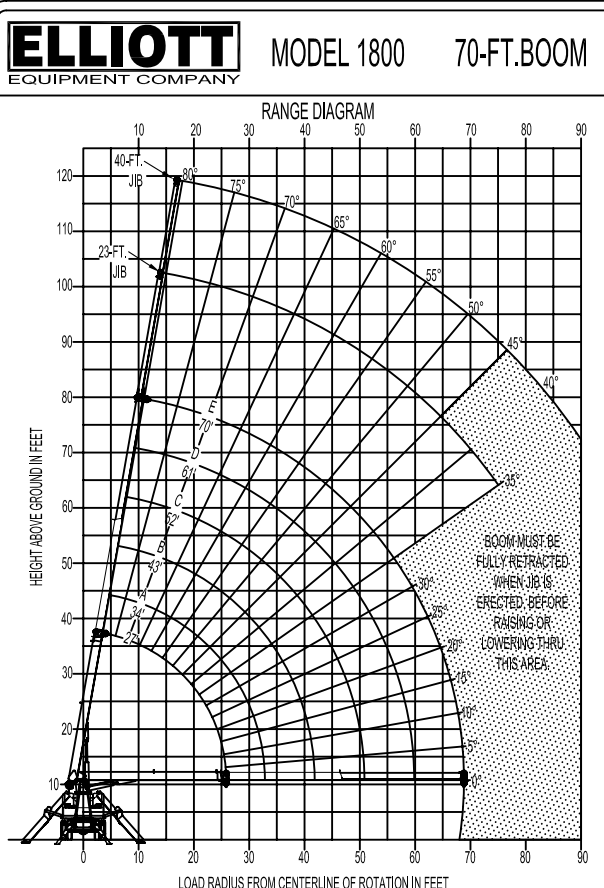
Rotation Resistant Wire Rope.

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](http://www.elliottequip.com)

## MAXIMUM LIFTING AND RANGE CAPABILITIES



ALLOWABLE LINE PULL				NOTICE
1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	
				<ul style="list-style-type: none"> <li>- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM</li> <li>- KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES</li> <li>- USE ONLY 9/16" DIAMETER WIRE ROPE, AS SPECIFIED BELOW, WITH THE PROPER BREAKING STRENGTHS LISTED</li> <li>- ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION &amp; SAFETY MANUAL</li> <li>- MAXIMUM CAPACITY WITH "BURST OF SPEED" IS 500 LBS.</li> </ul>
9600-LBS.	19200-LBS.	28800-LBS.	36000-LBS.	
9060-LBS.	18120-LBS.	27180-LBS.	36000-LBS.	
7680-LBS.	15360-LBS.	23040-LBS.	30720-LBS.	

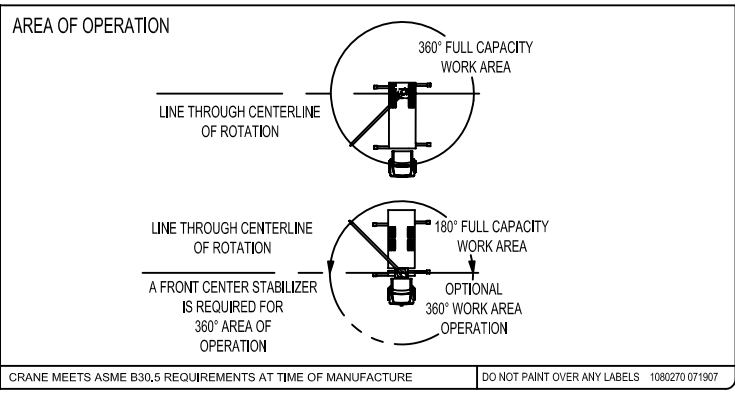
DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES SUPPLIED BY ELLIOTT EQUIPMENT CO.  
 OVERHAUL BALL ----- SEE OVERHAUL BALL MFGR. NAMEPLATE  
 LOAD BLOCK ----- SEE BLOCK MFGR. NAMEPLATE  
 SWING AROUND JIB ----- SEE LOAD RATING CHART

WARNING:  
 LIFTING OFF THE MAIN BOOM WHILE JIB IS ERECTED IS NOT INTENDED OR APPROVED

MAIN BOOM LOAD RATINGS										JIB LOAD RATINGS									
LOAD RATINGS IN LBS., WITH OUTRIGGERS AND STABILIZERS EXTENDED										LOAD RATINGS IN LBS., WITH OUTRIGGERS AND STABILIZERS EXTENDED									
LOAD RADIUS IN FEET	LOADED BOOM ANGLE	A					C			E	23-FT FIXED LENGTH JIB		23-40 FT EXTENDABLE JIB						
		27-FT	34-FT	B	43-FT	52-FT	61-FT	70-FT	23-FT		23-FT JIB RETRACTED	40-FT JIB EXTENDED	23-FT	34-FT	40-FT				
5	79	36000																	
10	68	21300	73	19500	77	16500	80	15000											
15	56	15200	64	14500	70	13500	75	12000	78	10500	80	9600	80	4600	80	4500	80	2600	
20	41	11500	54	11100	63	10000	69	9000	73	8000	76	7300	75	3700	75	3600	75	2000	
25	19	8600	43	8500	55	8000	62	7200	68	6500	71	5800	70	3000	70	2900	70	1900	
30			27	6750	47	6400	56	5900	63	5400	67	4900	65	2400	65	2300	65	1800	
35					36	5000	49	4700	56	4400	62	4200	60	2000	60	1900	60	1300	
40					20	4200	41	4100	50	3900	56	3700	55	1600	55	1500	55	900	
45							30	3500	43	3400	51	3200	50	1400	50	1300	50	800	
50							14	2800	36	2800	45	2700	45	1100	45	1000	45	600	
55									26	2400	39	2300	40	900	40	800			
60											32	1900	35	700	35	600			
65											22	1500							
	0	6000	0	4200	0	3000	0	1900	0	1300	0	1000							
	340		270		210		170		150		130								
	530		420		330		270		230		200								

- WARNING
- THE OPERATOR MUST READ AND UNDERSTAND ALL DECALS IN ADDITION TO THE OPERATION AND SAFETY MANUAL BEFORE OPERATING THIS CRANE.
  - POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN THE OPERATION AND SAFETY MANUAL.
  - LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE APPLYING A LOAD SHOULD BE GREATER TO ACCOUNT FOR DEFLECTION. DO NOT EXCEED THE OPERATING RADIUS FOR A BOOM LENGTH AND LOAD RATING.
  - THE JIB LOAD RATING CHART IS BASED ON THE LOADED BOOM ANGLES OF THE MAIN BOOM AND NOT THE LOAD RADIUS. DO NOT EXCEED JIB LOAD RATINGS AT REDUCED BOOM LENGTHS.
  - FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
  - FOR BOOM LENGTHS NOT SHOWN, USE THE RATING OF NEXT LONGER BOOM LENGTH, FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
  - CRANE LOAD RATINGS ON OUTRIGGERS AND STABILIZERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
  - PRACTICAL WORKING LOADS DEPEND ON THE SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
  - THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART. BOOM MUST BE FULLY RETRACTED AGAINST THE BOOM STOPS AT ALL TIMES WHEN LIFTING MINIMUM BOOM LENGTH CAPACITY LOADS.
  - IF ANY OPERATIONAL AID SUCH AS ANTI-2-BLOCK, OVERLOAD SYSTEM OR LEVELING INDICATOR IS MALFUNCTIONING OR INOPERATIVE, DISCONTINUE USE IMMEDIATELY AND CONTACT A QUALIFIED REPAIR FACILITY.
  - CAPACITY INDICATING LIMITING DEVICES SHOULD NOT BE RELIED UPON TO REPLACE THE USE OF CAPACITY CHARTS AND PROPER OPERATING PROCEDURES.

- INFORMATION
- DEDUCTIONS MUST BE MADE FROM RATED CAPACITIES FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, LOAD BLOCKS (SEE DEDUCTION CHART), WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
  - CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS AND STABILIZERS EXTENDED AND SET WITH ALL LOAD REMOVED FROM CARRIER WHEELS.
  - LOAD RATINGS ABOVE THE BOLD LINE ARE STRUCTURALLY LIMITED AND DO NOT EXCEED 85% OF TIPPING.
- DEFINITIONS
- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH A LOAD APPLIED.
  - LOADED BOOM ANGLES, SHOWN ABOVE, ARE THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXIS OF THE BOOM BASE AFTER LIFTING RATED LOAD AT THE RATED RADIUS.



## CHASSIS SPECIFICATIONS

	1870CP BoomTruck
Wheelbase (WB)	224" / 569 cm
Cab to Axle (CA)	156" / 396 cm
Cab to End of Frame (EOF)	247" / 627 cm
Frame Section Modulus	13.3 in3-110,000 psi
Front Axle Gross Weight Rating	13,000 lb / 5896 kg
Rear Axle Gross Weight Rating	20,000 lb / 9072 kg
Integral Front Frame Rails	Not Applicable

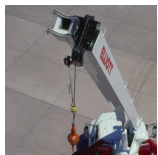
Chassis data is minimum general requirements-not for engineering.  
 Actual dimensions and truck data will depend on truck selection and axle configuration.  
 \*Minimum chassis weight is required to meet 85% stability requirements.

## 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.



### Hydraulic Oil Cooler

Add a bed-mounted hydraulic oil cooler and fan to assist with high duty cycle job applications. A "must" for hot weather environments



### Custom Paint

Choose from a wide list of high quality paint applications including Elliott's standard white or red paint, metallic paints, or multiple colors.



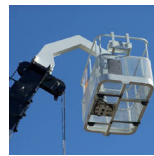
### Tool Boxes

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.



### Gravity Levelled 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.

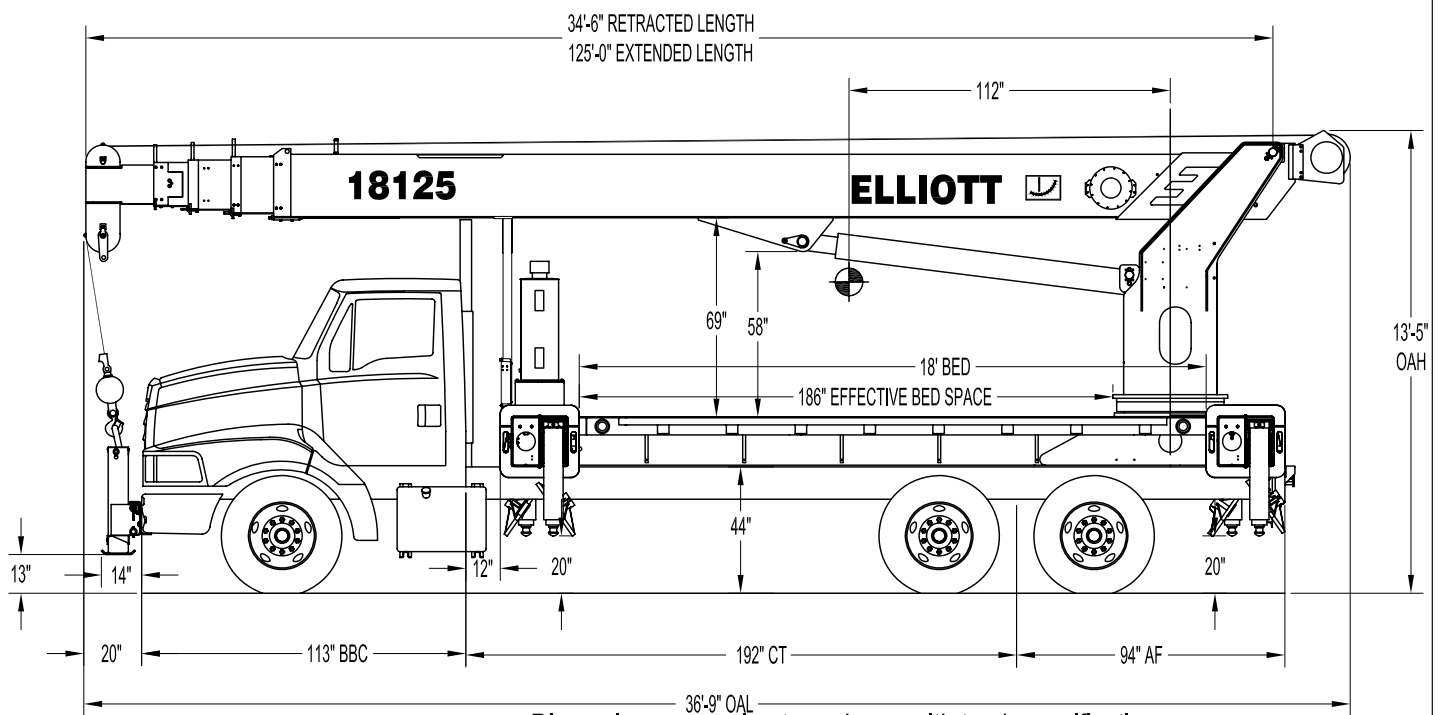


### Body Mounted Hose Reels and Circuits

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



### 18125R SIDE VIEW DIAGRAM



- |                                 |                      |                                 |                  |
|---------------------------------|----------------------|---------------------------------|------------------|
| • <b>Maximum Vertical Reach</b> | 137'4/41.7 m         | • <b>Powered Boom Sections</b>  | 5                |
| • <b>Working Area</b>           | 360 Degrees Standard | • <b>Overall Height</b>         | 13'5"/4.1 m      |
| • <b>Lifting Capacity</b>       | 36,000 lbs/16,329 kg | • <b>Operator Controls</b>      | Rotating Standup |
| • <b>Boom Length</b>            | 125'/38.1 m          | • <b>Outrigger Type Front</b>   | Out-Down         |
| • <b>Crane Weight (Dry)</b>     | 27,500 lbs/12,474 kg | • <b>Outrigger Spread Front</b> | 20'/6.1 m        |
| • <b>Jib Lengths</b>            | N/A                  | • <b>Outrigger Type Rear</b>    | Out-Down         |
| • <b>Winch Bare Drum Pull</b>   | 12,800 lbs/5,806 kg  | • <b>Outrigger Spread Rear</b>  | 20'/6.1 m        |

## TECHNICAL SPECIFICATIONS

**Crane Capacity:** 36,000 lbs at 6' load radius.

**Maximum Tip Height:** 137' height.

**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 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 9,060 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 outriggers with 20' span. Single front

bumper stabilizer required.

**Frame:** Full length, all welded rigid 4-plate design sub-frame. Sub-frame allows for bolt-on addition of 18' 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. 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 two-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 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 to truck frame on roadside.

**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.

**Bumper:** Bureau of Motor Carrier Safety rear bumper.

**Weight:** Approximately 27,500 lbs. with 18' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 192" C.A. 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.

**Options:**

Rotating Enclosed Crane Cab with Diesel Heater.

Radio Remote Controls.

Gravity Leveled and Rotating Steel Work Platform.

Roadable Yoke-Style and Gravity Leveled Work Platform.

Hydraulic Tool Circuits on Bed.

Much More...

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**LOAD CHART - MAIN BOOM, FULL-SPAN OUTRIGGERS**



**MODEL 1800 125-ft BOOM**

**MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS**

**MAIN BOOM LOAD RATINGS**

LOAD RATINGS IN lbs WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	31-ft	LOADED BOOM ANGLE	A 46-ft	LOADED BOOM ANGLE	B 62-ft	LOADED BOOM ANGLE	C 78-ft	LOADED BOOM ANGLE	D 94-ft	LOADED BOOM ANGLE	E 110-ft	LOADED BOOM ANGLE	F 126-ft
6	78.5	36,000												
8	74.5	31,000												
10	70.5	28,500	78	22,200										
12	66	26,000	75.5	22,200										
14	61.5	22,900	73	22,200	78.5	22,000								
16	57	19,000	70	19,600	76.5	20,000								
18	52	16,200	67.5	16,600	74.5	17,000								
20	46	13,800	64.5	14,300	72.5	14,650	78	15,200						
25	28	10,000	57	10,500	67.5	10,800	77.5	11,700	77.5	9,400				
30			48.5	7,950	62	8,200	73.5	9,000	74.5	7,800	77.5	6,850	80	4,400
35			38.5	6,150	57	6,400	69.5	7,100	71	6,700	74.5	5,850	77.5	4,400
40			25.5	4,800	51	5,150	65.5	5,700	67.5	5,500	72	5,050	75	4,400
45					44	4,100	61	4,650	64	4,450	69	4,600	72.5	4,000
50					36	3,250	56.5	3,800	60.5	3,600	66	3,600	70	3,550
55					25	2,600	52	3,150	56.5	2,950	63	2,950	67.5	3,150
60							46.5	2,550	52.5	2,400	60	2,400	65	2,600
65							40.5	2,050	48.5	1,950	56.5	1,800	62	2,150
70							33.5	1,600	43.5	1,550	53.5	1,400	59.5	1,750
75							25	1,200	38.5	1,150	49.5	1,100	56.5	1,400
80									32.5	800	46	750	53.5	1,100
85											41.5	500	50.5	800
90													47	500
	0	7,000	0	3,800	0	2,000	0	900						

**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

1-PART LINE



MAX PULL: 9,060 lbs

2-PART LINE



18,120 lbs

3-PART LINE



27,180 lbs

4-PART LINE



36,000 lbs

ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:  
 DOWNHAUL WEIGHT .....180 lbs  
 ONE SHEAVE BLOCK.....375 lbs  
 TWO SHEAVE BLOCK.....640 lbs

9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH

CRANE MEETS ASME B30.1 REQUIREMENTS AT TIME OF MANUFACTURE

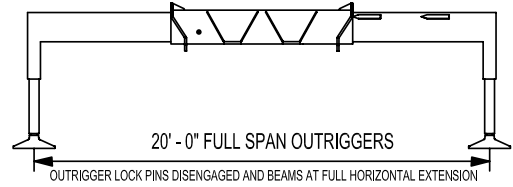
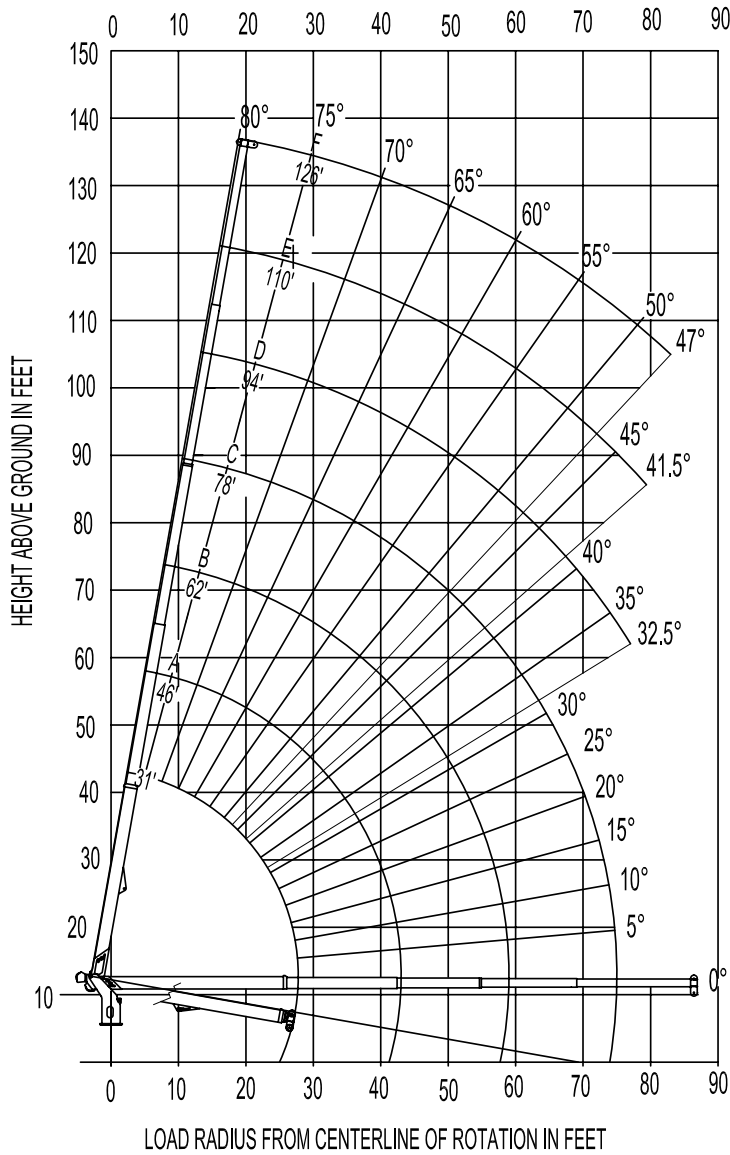
DO NOT PAINT OVER ANY LABELS 111180 04206

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



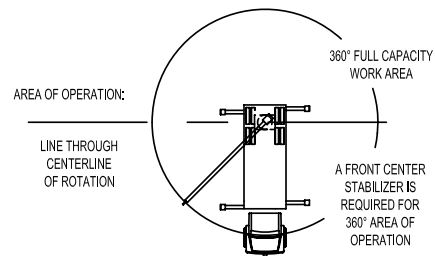
**MODEL 1800 125-ft BOOM**

**RANGE DIAGRAM WITH FULL SPAN OUTRIGGERS**



**NOTE:**

1. Operate jib by radius when main boom is full extended. Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only.



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 Email: sales@elliottequip.com

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**CHASSIS SPECIFICATIONS**

	1870F BoomTruck
Wheelbase (WB)	256" / 650 cm
Cab to Axle (CA)	192" / 488 cm
Cab to End of Frame (EOF)	286" / 726 cm
Frame Section Modulus	30.0 in3-110,000 psi / 758,428 kPa
Front Axle Gross Weight Rating	20,000 lb / 9072 kg
Rear Axle Gross Weight Rating	40,000 lb / 18 144 kg
Integral Front Frame Rails	Required

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% stability requirements.

**OPTIONS**



**Radio Remote Control**

Interference protected radio remotes let you get closer to your work and have full control over your machine.



**Custom Paint**

Choose from a wide list of high quality paint applications including Elliott's standard white or red paint, metallic paints, or multiple colors.



**Air Conditioning in Crane Cab**

Work all day in comfort with an high efficiency air conditioning system mounted on the rear of the crane control cab.



**Hydraulic Oil Cooler**

Add a bed-mounted hydraulic oil cooler and fan to assist with high duty cycle job applications. A "must" for hot weather environments



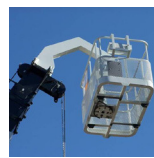
**Tool Boxes**

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.



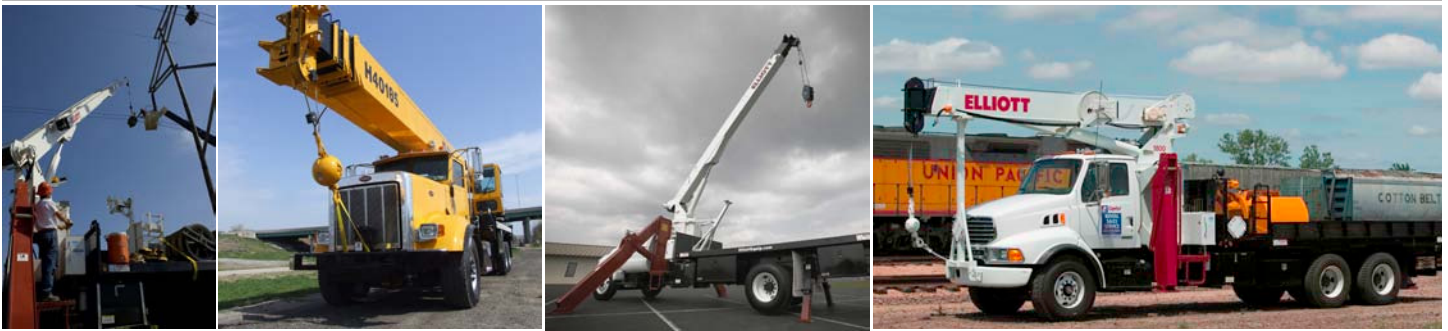
**Gravity Levelled Basket**

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.

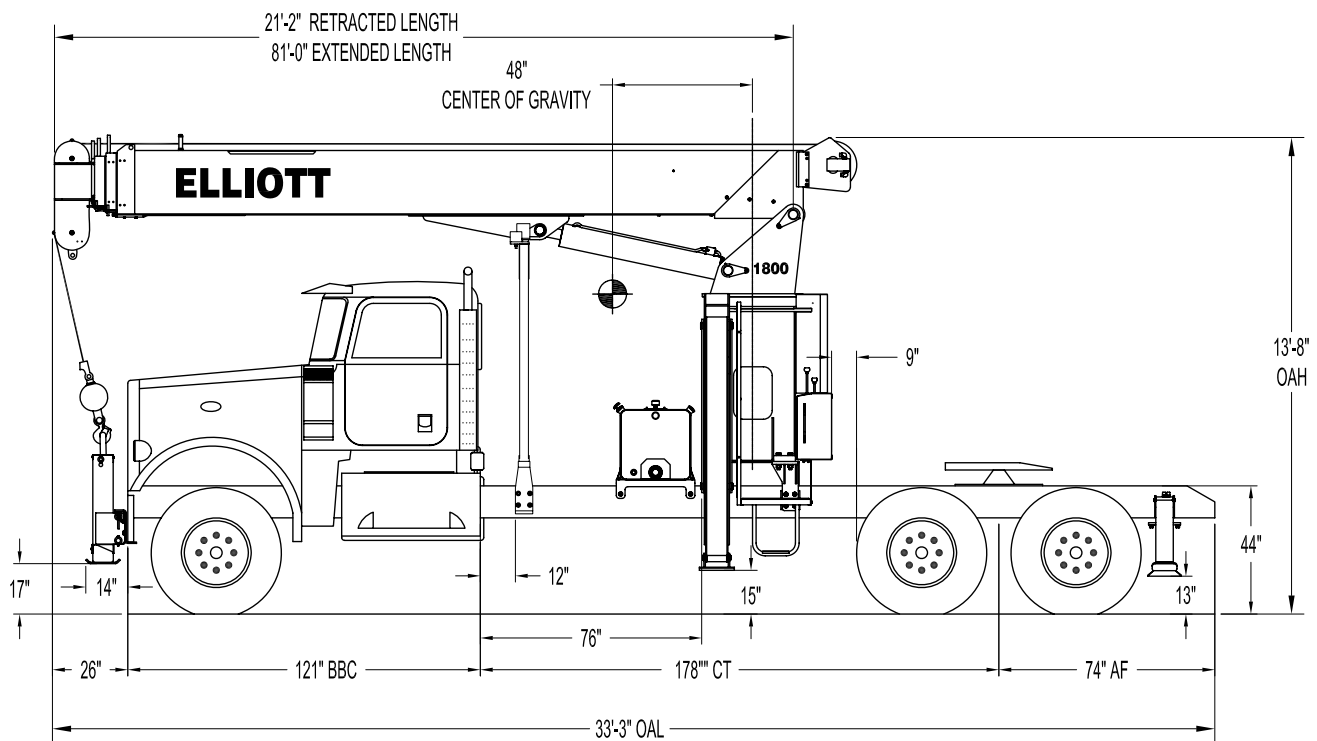


**Body Mounted Hose Reels and Circuits**

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



### 1881™ SIDE VIEW DIAGRAM



- **Maximum Vertical Reach** 121'/36,9 m
- **Working Area** 180 Degrees Standard (360 Optional)
- **Lifting Capacity** 36,000 lbs/16 329 kg
- **Boom Length** 81'/24,7 m
- **Crane Weight (Dry)** 16,420 lbs/7448 kg
- **Jib Lengths** 30'/9,1 m
- **Winch Bare Drum Pull** 12,800 lbs/5806 kg

- **Powered Boom Sections** 5
- **Overall Height** 13'8\"/>
- **Operator Controls** Dual Operator Standup Controls
- **Outrigger Type Front** A-Link
- **Outrigger Spread Front** 20'10\"/>
- **Outrigger Type Rear** A-STAB
- **Outrigger Spread Rear** 10'4\"/>

## TECHNICAL SPECIFICATIONS

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

**Maximum Tip Height:** 91' height (121' with optional 30' 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:** 21' retracted and 81' extended five-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 91' 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" Link main

outriggers with 20'10" span, and one set of "A" -STAB rear outriggers with a 10'4" span.

**Frame:** Short length, all welded rigid 4-plate design sub-frame. Tractor-mount sub-frame placed ahead of rear tandems for towing application.

**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 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 16,420 lbs. less truck.

**Truck Chassis Required:** Approx. 178" 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 for 360 area of operation, 12V electrical system with high capacity alternator, cab clearance stop/tail/backup lights, and I.D. lamps. Recommended GVWR is minimum for BoomTruck. Contact factory when additional equipment is to be added.

**Options:**

18-30' Telescopic Jib.

4 Function Radio Remote Controls.

Front Stabilizer for 360 Degree 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](http://www.elliottequip.com)

**LOAD CHART - MAIN BOOM, FULL-SPAN OUTRIGGERS**



**MODEL 1800 81-ft BOOM**

**MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS**

**MAIN BOOM LOAD RATINGS**

LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	21-ft	LOADED BOOM ANGLE	A 33-ft	LOADED BOOM ANGLE	B 45-ft	LOADED BOOM ANGLE	C 57-ft	LOADED BOOM ANGLE	D 69-ft	LOADED BOOM ANGLE	E 81-ft
5	75	36,000										
10	59	19,400	72	18,000	77	17,000						
15	40	14,600	62	13,600	70	12,000	75	11,000	78	10,200		
20			51	9,900	64	9,500	70	8,300	74	7,650	76	6,800
25			39	8,000	56	7,600	65	6,700	70	6,050	73	5,500
30					48	6,200	59	5,500	65	4,950	69	4,500
35					38	5,050	52	4,650	60	4,200	65	3,800
40					25	4,000	46	3,950	55	3,550	61	3,250
45							38	3,250	50	3,050	57	2,850
50							28	2,700	44	2,600	53	2,500
55							11	1,800	37	2,350	48	2,200
60									29	1,950	43	1,950
65											37	1,700
70											30	1,400
75											22	1,050
	0	7,450	0	3,950	0	2,200	0	1,100	0	600		
		450		300		200		150		150		100

**JIB LOAD RATINGS**

LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	18 - ft JIB	LOADED BOOM ANGLE	30 - ft JIB
20	78	3,000	79.5	2,500
25	75	2,900	77	2,400
30	72.5	2,750	74.5	2,250
35	69.5	2,600	72	2,100
40	66.5	2,350	69.5	1,850
45	63.5	2,200	67	1,700
50	60	2,050	64	1,550
55	56.5	1,950	61	1,450
60	53.5	1,850	58	1,350
65	49.5	1,450	55	1,150
70	45.5	1,150	52	1,050
75	41.5	850	48.5	1,000
80	36.5	650	44.5	700

DEDUCTIONS FOR STOWED EXTENDABLE JIB (lbs.)

**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

1-PART LINE



2-PART LINE



3-PART LINE



4-PART LINE



ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:  
 DOWNHAUL WEIGHT .....180 lbs  
 ONE SHEAVE BLOCK.....375 lbs  
 TWO SHEAVE BLOCK.....640 lbs

MAX PULL: 9,600 lbs	19,200 lbs	28,800 lbs	36,000 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	36,000 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH
MAX PULL: 7,680 lbs	15,360 lbs	23,040 lbs	30,720 lbs	9/16" - SPIN RESISTANT (5:1 S.F.) 38,400-lbs. BREAKING STRENGTH

CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE

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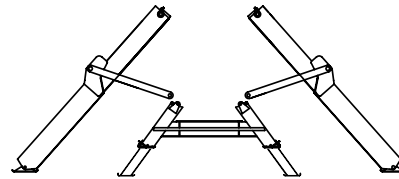
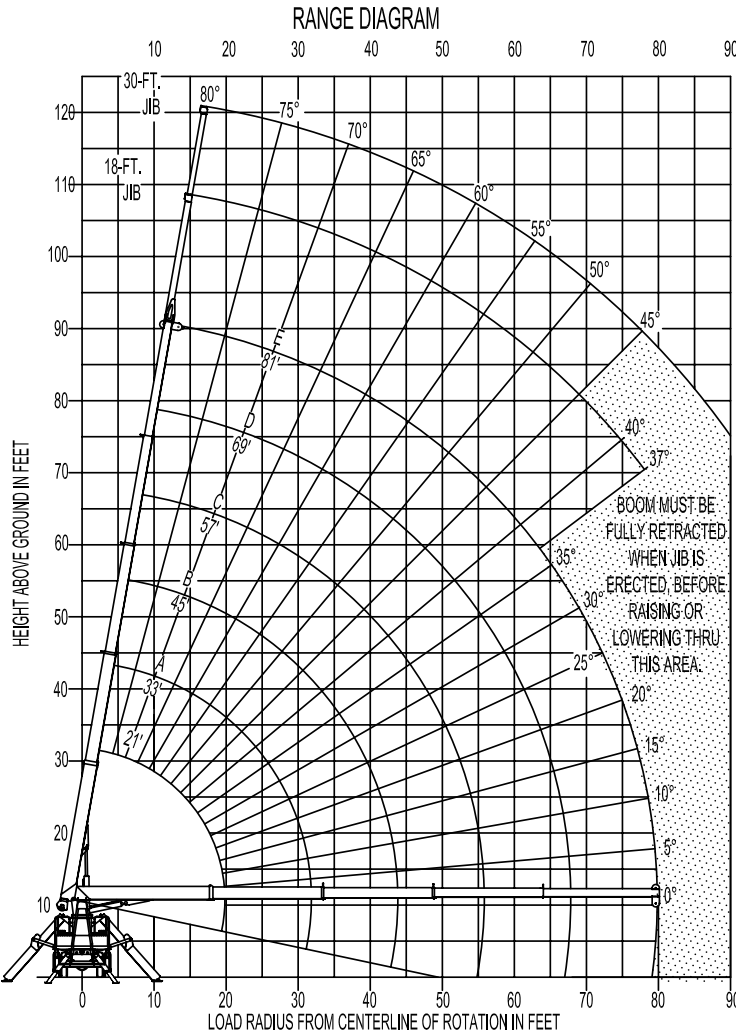
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 4427 South 76th Circle Fax: 402-592-4553  
 Omaha, NE 68127 Email: sales@elliottequip.com

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**RANGE CHART - MAIN BOOM, FULL SPAN OUTRIGGERS**

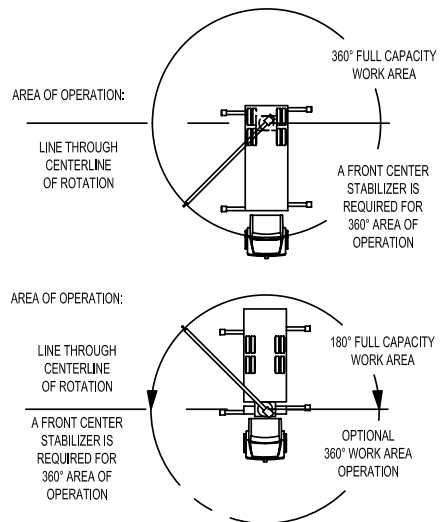


**MODEL 1800 81-ft BOOM**



**NOTE:**

1. Operate jib by radius when main boom is full extended. Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only.



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## CHASSIS SPECIFICATIONS

	1881TM BoomTruck
Wheelbase (WB)	268" / 681 cm
Cab to Tandem (CT)	178" / 452 cm
Cab to End of Frame (EOF)	295" / 749 cm
Frame Section Modulus	30.0 in3-110,000 psi / 758,428 kPa
Front Axle Gross Weight Rating	20,000 lb / 9,072 kg
Rear Axle Gross Weight Rating	40,000 lb / 18,144 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% stability requirements.

## OPTIONS



### Radio Remote Control

Interference protected radio remotes let you get closer to your work and have full control over your crane.



### Pin-On Jib Attachment

One piece fixed jib that stows on the side of the boom for easy placement while on the worksite.



### Continuous Boom Rotation

Add the convenience of unrestricted turret rotation by selecting Elliott's continuous rotation package for turret rotation without stops.



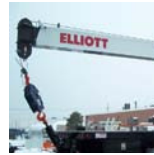
### Custom Paint

Choose from a wide list of high quality paint applications including Elliott's standard white or red paint, metallic paints, or multiple colors.



### 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.



### Hydraulic Oil Cooler

Add a hydraulic oil cooler and fan to assist with high duty cycle job applications. A "must" for hot weather environments



### Hose Reels and Tool Circuits

Let us work with you to customize your tool compatibility by adding hose reels or hydraulic circuits to your Elliott crane.