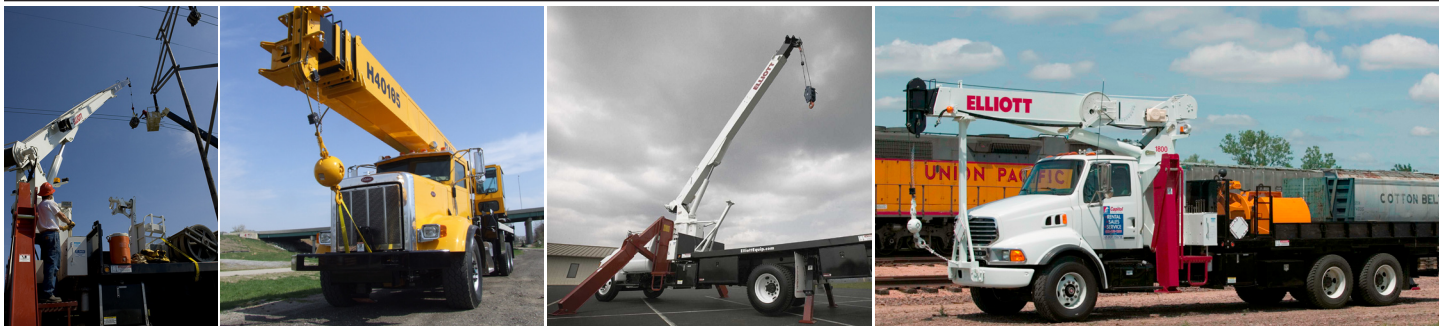




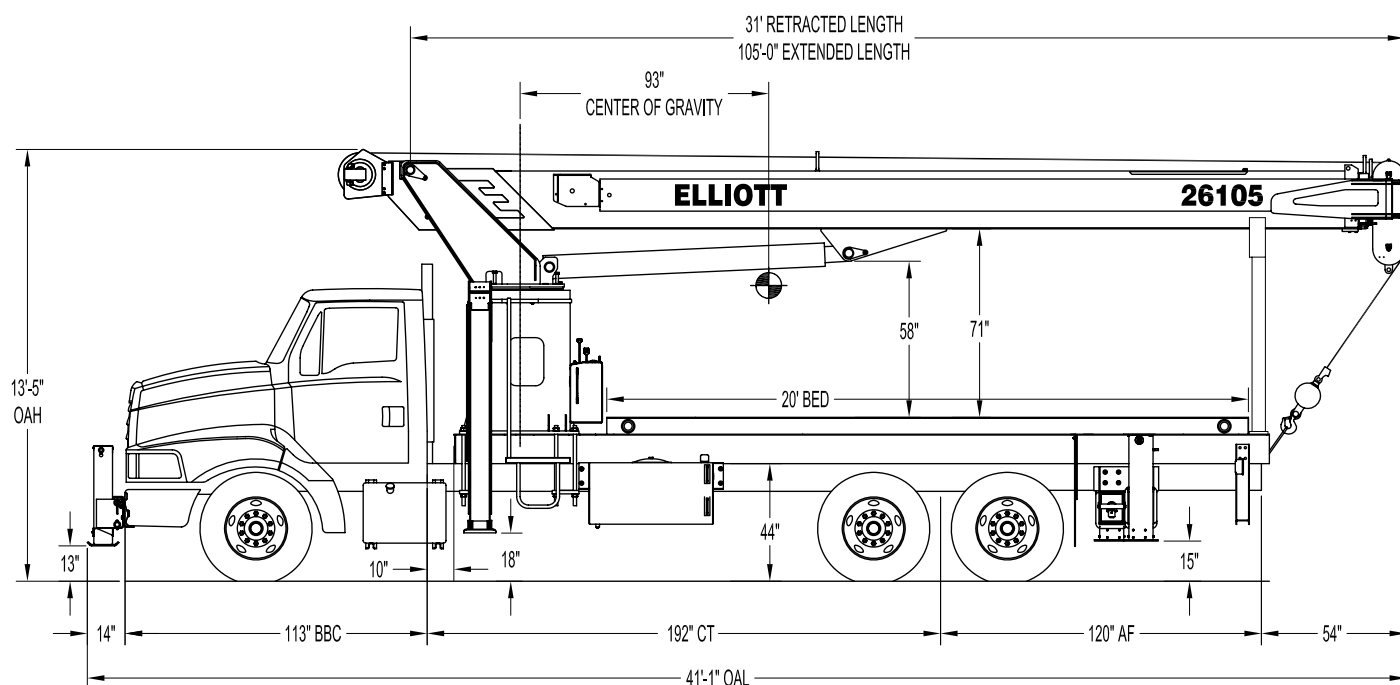
# BoomTruck™

## 26105F

### TECHNICAL SPECIFICATIONS



**26105F SIDE VIEW DIAGRAM**



- **Maximum Vertical Reach** 162'/49,4 m
- **Working Area** 180 Degrees Standard (360 Optional)
- **Lifting Capacity** 52,000 lbs/23 587 kg
- **Boom Length** 105'/32 m
- **Crane Weight (Dry)** 26,040 lbs/11 811 kg
- **Jib Length** 26', 26'-45'/ 8 m, 8-13,7 m
- **Winch Bare Drum Pull** 12,800 lbs/5806 kg

- **Powered Boom Sections** 4
- **Overall Height** 13'5"/4,1 m
- **Operator Controls** Dual Operator Standup Controls
- **Outrigger Type Front** A-Frame
- **Outrigger Spread Front** 20'10"/6,3 m
- **Outrigger Type Rear** Out-Down
- **Outrigger Spread Rear** 18'2"/5,5 m

**ELLIOTT**  
EQUIPMENT COMPANY

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Omaha, NE 68127

Phone: 402-592-4500  
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Email: [sales@elliottequip.com](mailto:sales@elliottequip.com)

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

**BOOMTRUCK - 26105F****TECHNICAL SPECIFICATIONS****TECHNICAL SPECIFICATIONS**

**Crane Capacity:** 52,000 lbs at 5' load radius.

**Maximum Tip Height:** 117' height (162' with optional 45' jib)

**Control Console:** Rotating turret dual 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 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:** Four-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 117' mounted on a truck. The boom nose contains one floating upper sheave and three lower sheaves. Assembly includes heavy-duty cylinder fittings, pivot pins, and replaceable wear pads.

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

**Load Moment Indicator System:**

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

**Outriggers:** One sets of "A" Frame main outriggers with 20'10" span, and one set of out and down overframe rear outriggers with 18'2" 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 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 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:** 120 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 26,040 lbs. with 20' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 192" C.T. RBM 1,749,000 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:**

26'-45' Telescopic Pin-On Jib.  
Radio Remote Controls.  
Superlink Short Jack Outriggers.  
2 Person Gravity Leveled Steel Basket.  
Front Jack for 360 Degree Crane 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)



## BOOMTRUCK - 26105F

## TECHNICAL SPECIFICATIONS

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

## MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS

| LOAD<br>RADIUS<br>IN FEET          | LOADED<br>BOOM<br>ANGLE | 31-FT. | A<br>46-FT. | B<br>58-FT. | C<br>70-FT. | D<br>82-FT. | E<br>94-FT. | F<br>105-FT. |
|------------------------------------|-------------------------|--------|-------------|-------------|-------------|-------------|-------------|--------------|
| 5                                  | 80                      | 52,000 |             |             |             |             |             |              |
| 6                                  | 78                      | 44,000 |             |             |             |             |             |              |
| 8                                  | 74                      | 36,600 | 79.5        | 30,000      |             |             |             |              |
| 10                                 | 70                      | 31,000 | 77          | 27,000      | 80          | 20,000      |             |              |
| 12                                 | 66                      | 26,500 | 74.5        | 24,900      | 78          | 19,800      |             |              |
| 14                                 | 61.5                    | 20,500 | 72          | 21,800      | 76          | 17,700      | 79.5        | 18,500       |
| 16                                 | 57                      | 18,500 | 69          | 19,500      | 74          | 16,000      | 77.5        | 16,000       |
| 18                                 | 52                      | 15,900 | 66          | 15,800      | 72          | 14,400      | 76          | 14,800       |
| 20                                 | 47                      | 14,300 | 63          | 12,800      | 69.5        | 11,500      | 74          | 13,400       |
| 25                                 | 30.5                    | 10,300 | 55.5        | 11,000      | 64.5        | 9,500       | 69.5        | 10,900       |
| 30                                 |                         |        | 47.5        | 9,300       | 58.5        | 7,950       | 65.5        | 9,000        |
| 35                                 |                         |        | 37.5        | 8,500       | 52.5        | 6,700       | 60.5        | 7,500        |
| 40                                 |                         |        | 23          | 6,300       | 45.5        | 5,600       | 55.5        | 6,300        |
| 45                                 |                         |        |             |             | 37          | 4,000       | 50          | 5,300        |
| 50                                 |                         |        |             |             | 26.5        | 3,850       | 44          | 4,600        |
| 55                                 |                         |        |             |             |             |             | 37          | 3,800        |
| 60                                 |                         |        |             |             |             |             | 28.5        | 2,700        |
| 65                                 |                         |        |             |             |             |             | 15.5        | 2,150        |
| 70                                 |                         |        |             |             |             |             |             |              |
| 75                                 |                         |        |             |             |             |             | 30          | 2,150        |
| 80                                 |                         |        |             |             |             |             | 20.5        | 1,800        |
| 85                                 |                         |        |             |             |             |             |             |              |
| 90                                 |                         |        |             |             |             |             |             |              |
|                                    | 0                       | 5,500  | 0           | 2,900       | 0           | 1,100       | 0           | 500          |
| DEDUCTIONS FOR<br>STOWED JIB (lbs) |                         | 850    |             | 600         |             | 450         |             | 400          |
|                                    |                         | 550    |             | 350         |             | 250         |             | 200          |

## 1-PART LINE



MAX PULL: 9,060 lbs

## 2-PART LINE



18,120 lbs

## 3-PART LINE



27,180 lbs

## 4-PART LINE



36,240 lbs

## 5-PART LINE



45,300 lbs

## 6-PART LINE



52,000 lbs

JIB LOAD RATINGS WITH  
FULLY EXTENDED OUTRIGGERS

| 26-ft FIXED<br>LENGTH JIB |                         |              | 26'-45' TWO SECTION JIB   |                         |                  |              |
|---------------------------|-------------------------|--------------|---------------------------|-------------------------|------------------|--------------|
| LOAD<br>RADIUS<br>IN FEET | LOADED<br>BOOM<br>ANGLE | 26-ft<br>JIB | RETRACTED 26' JIB         |                         | EXTENDED 45' JIB |              |
|                           |                         |              | LOAD<br>RADIUS<br>IN FEET | LOADED<br>BOOM<br>ANGLE | 26-ft<br>JIB     | 45-ft<br>JIB |
| 30                        | 78.5                    | 4,400        | 30                        | 78.5                    | 4,150            |              |
| 35                        | 76.5                    | 4,000        | 35                        | 76                      | 3,750            | 77           |
| 40                        | 74                      | 3,600        | 40                        | 74                      | 3,350            | 75.5         |
| 45                        | 72                      | 3,100        | 45                        | 71.5                    | 2,850            | 74           |
| 50                        | 69.5                    | 2,700        | 50                        | 69                      | 2,450            | 72           |
| 55                        | 67                      | 2,300        | 55                        | 66.5                    | 2,050            | 70           |
| 60                        | 64.5                    | 2,000        | 60                        | 64                      | 1,750            | 68           |
| 65                        | 62                      | 1,700        | 65                        | 61.5                    | 1,450            | 66           |
| 70                        | 59                      | 1,500        | 70                        | 59                      | 1,250            | 64           |
| 75                        | 56.5                    | 1,300        | 75                        | 56                      | 1,050            | 61.5         |
| 80                        | 53.5                    | 1,100        | 80                        | 53.5                    | 850              | 59.5         |
| 85                        | 50.5                    | 900          | 85                        | 50.5                    | 650              | 57           |
| 90                        | 47.5                    | 700          | 90                        |                         |                  | 55           |
|                           |                         |              | 95                        |                         |                  | 52           |

## 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.

DEDUCTIONS FOR STOWED EXTENDABLE JIB (lbs)

DEDUCTIONS FOR STOWED FIXED LENGTH JIB (lbs)

## ELLIOTT EQUIPMENT CO. SUPPLIED

## LOADLINE EQUIPMENT DEDUCTIONS:

DOWNHAUL WEIGHT .....180 lbs

ONE SHEAVE BLOCK.....375 lbs

TWO SHEAVE BLOCK.....640 lbs

THREE SHEAVE BLOCK.....870 lbs

AUXILIARY SHEAVE.....100 lbs

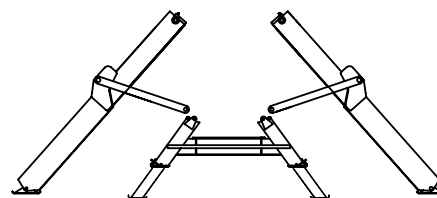
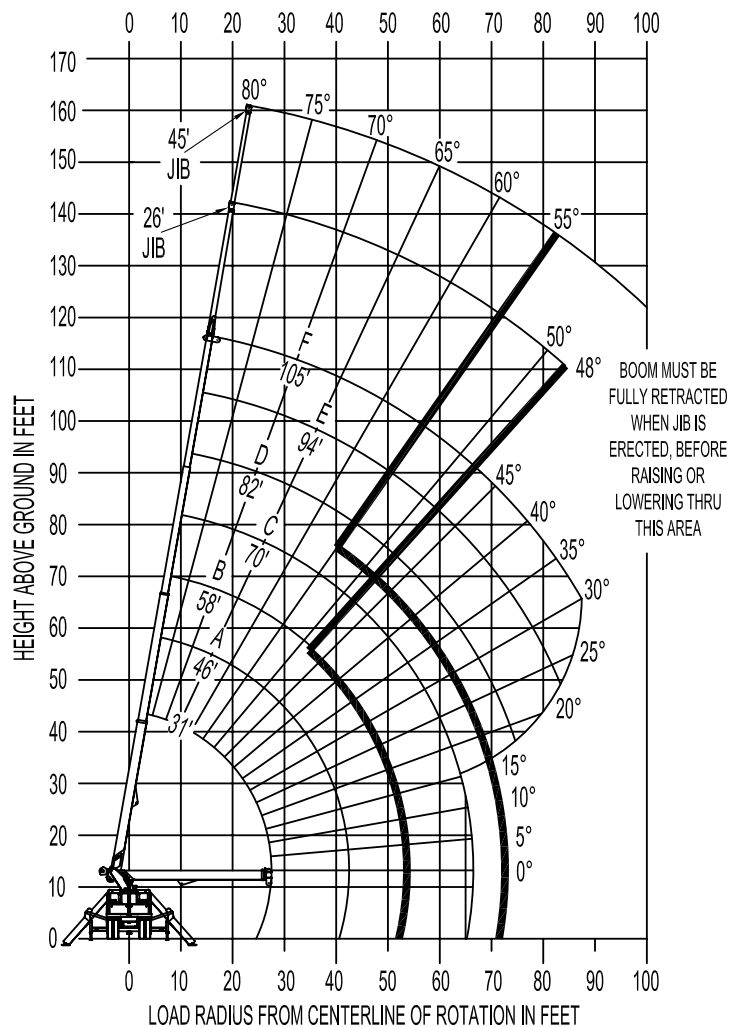
9/16" -SPIN RESISTANT 5:1 S.F.) 45,300-lbs.  
BREAKING STRENGTH

CRANE MEETS ASME B30.1 REQUIREMENTS AT TIME OF MANUFACTURE

DO NOT PRINT OVER ANY LABELS 1110370 071006

**BOOMTRUCK - 26105F****TECHNICAL SPECIFICATIONS****RANGE CHART - MAIN BOOM + JIB , FULL-SPAN OUTRIGGERS**

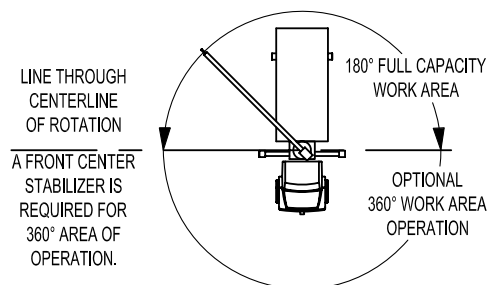
RANGE DIAGRAM WITH FULL SPAN OUTRIGGERS



OUTRIGGERS AT FULL EXTENSION

**NOTE:**

1. OPERATE JIB BY RADIUS WHEN MAIN BOOM IS FULLY EXTENDED. INCREASE BOOM ANGLE IF NECESSARY TO MAINTAIN LOAD RADIUS.
2. WHEN BOOM IS RETRACTED, OPERATE JIB BY BOOM ANGLE. DO NOT EXCEED ANY RATED JIB CAPACITIES AT REDUCED BOOM LENGTHS.
3. CAPACITIES DO NOT EXCEED 85% STABILITY.
4. PERSONNEL HANDLING IS ALLOWED ONLY WITH FULL SPAN OUTRIGGERS
5. LOAD RATINGS ABOVE BOLD LINE ARE STRUCTURALLY LIMITED.
6. BOOM LOAD RATINGS ARE BASED ON LOADED BOOM RADIUS.
7. LOADED BOOM ANGLES ARE GIVEN AS A REFERENCE ONLY.

**AREA OF OPERATION**

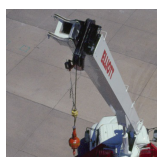
**BOOMTRUCK - 26105F****TECHNICAL SPECIFICATIONS****CHASSIS SPECIFICATIONS**

|                                | 26105F BoomTruck                           |
|--------------------------------|--------------------------------------------|
| Wheelbase (WB)                 | 256" / 650 cm                              |
| Cab to Tandem (CT)             | 192" / 488 cm                              |
| Cab to End of Frame (EOF)      | 312" / 792 cm                              |
| Frame Section Modulus          | 30.0 in3-110,000 psi / 492 cm3-758,428 kPa |
| Front Axle Gross Weight Rating | 20,000 lb / 9072 kg                        |
| Rear Axle Gross Weight Rating  | 40,000 lb / 18144 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. Includes battery charging feature and optional LMI screen.

**Pin-On Jib Attachments**

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

**Continuous Boom Rotation**

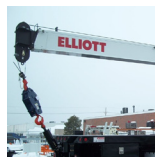
Add the convenience of 360 degree continuous rotation by adding a special boom rotation system for rotation without stops.

**Digger / Auger Attachment**

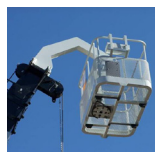
Dig faster and deeper with Elliott's auger attachment, offering 44' of digging range and a hydraulically powered auger that stows on the boom.

**Tool Boxes**

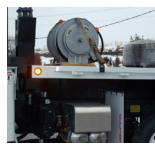
Optional tool boxes and bed storage can accommodate any storage need for tools, work materials and more.

**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.