



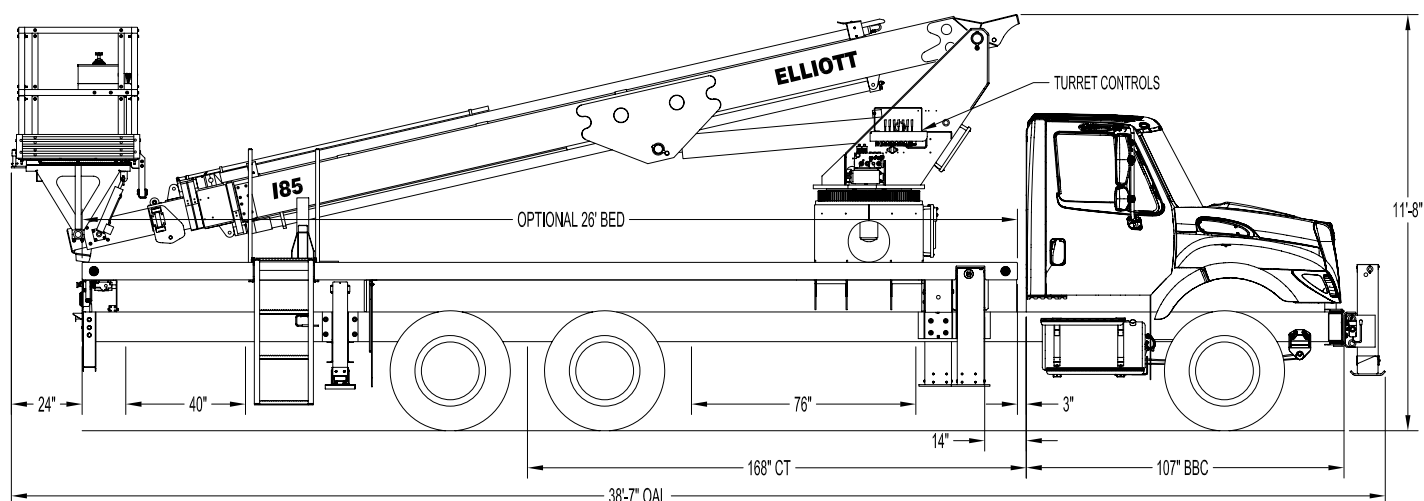
# HiReach™

## I85F

### TECHNICAL SPECIFICATIONS



**I85F SIDE VIEW DIAGRAM**



- **Working Height** 90'/27.4 m
- **Working Side Reach** 59'/17.9 m
- **Platform Capacity** 600 lbs/272 kg
- **Platform Size** 40x60 in/102x152 cm
- **Platform Type** Insulated Top-Mount
- **Lifting Capacity (Main Winch)** 3,650 lbs/1,656 kg
- **Insulation Rating** 46KV Category C

- **Powered Boom Sections** 4
- **Overall Height** 11'7"/3.5 m
- **Unit Weight (Bare)** 18,500 lbs/8,391 kg
- **Outrigger Spread Main** 18'/5.4 m
- **Outrigger Spread Auxiliary** 8'/2.4 m
- **Front Gross Axle Weight Rating** 14,000 lbs/6,350 kg
- **Rear Gross Axle Weight Rating** 34,000 lbs/15,422 kg

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EQUIPMENT COMPANY

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**HIREACH - I85F****TECHNICAL SPECIFICATIONS****TECHNICAL SPECIFICATIONS**

**Maximum Platform Height:** 85' ground to platform floor.

**Working Range:** 90' max. height and 59' max. side reach.

**Work Platform:** 40x60" fiberglass top-mount work platform with 40" high rails and a grated fiberglass floor. Equipped with two safety lanyard attachment loops, two safety harnesses, and two lanyards. Platform capacity is 600 lbs.

**Platform Leveling System:** Hydraulic "closed" system consisting of twin platform cylinders interacting with a boom-actuated master cylinder mounted in boom support turret. System provided with factory-set relief valves to compensate for oil expansion or overload during platform leveling operation. Remote releveing controls provided in platform and at ground controls to give precise releveing capability.

**Platform Controls:** Joystick controller with enable finger switch for boom extension, elevation and rotation. Also includes remote chassis engine start-stop and engine speed system. Boom controls actuation to be accomplished by means of proportional fiberoptic controls using 'Pulsar' technology. Control signal to be transmitted from platform by plastic fiberoptic light conductor extending through cable carrier and fiberglass tube to the extending boom sections. Control system to be battery operated with secondary battery and charger in cab.

**Lower Controls:** Mounted on curbside of turret.

**Outrigger Controls:** Parallel open-center stack valve for lever-operated control of right and left outriggers. The outrigger valves are mounted at the rear, under each corner of the bed with roadside valve controlling roadside outriggers, curbside valve controlling curbside outriggers and additional valve at front bumper for front stabilizer.

**Outriggers:** "MH" type out-and-down main outriggers with 18' spread. "A" type underslung secondary outriggers with 8' spread. Front stabilizer shall be installed on minimum 20" front frame extensions.

**Frame:** One piece, all welded, box-type fabrication with integral outrigger mounts.

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

**Rotation:** Continuous turret rotation with no stops. Hydraulic motor drives turret through self-locking gear box.

**Boom:** Three steel rectangular tube sections and one fiberglass section 9" high x 7" wide with a 3/4" wall section. Assembly includes heavy-duty cylinder fittings, pivot pins, and replaceable wear pads.

**Boom Extension:** One "double-case" double-acting cylinder extends the final fiberglass section. Main boom sections extend via two external cylinders. Fiberglass section to extend first, and retract last.

**Lift:** One double-acting full displacement, long stroke cylinder, provides smooth and stable boom elevation. Holding valve prevent boom from falling in event of hose failure.

**Cylinders:** All cylinders use microhoned cylinder tubing, chrome shafts, top grade packing and protective rod wipers. Cylinder-mounted holding valves provided on all load-holding cylinders.

**Hoses:** All high pressure hoses are wire braid reinforced with a minimum safety factor of 4 to 1.

**Oil Tank Capacity:** 70 gallon mounted to side of sub frame below the bed.

**Hydraulic System:** Operating pressure approximately 3,000 PSI. System is parallel open center type and is equipped

with liquid-filled pressure gauge. Oil is supplied to upper cylinders through hydraulic union in center of turret to cable carrier along side of the boom.

**Pump:** Gear type, direct mount to truck PTO.

**PTO:** Heavy-duty, high-speed. Switch engaged from cab.

**Cab Equipment:** PTO switch with indicator lights installed in truck cab. Engine speed control and start/stop installed with control switches in platform remote control box and also located at lower controls. U/L approved 5:BC dry chemical fire extinguisher installed in truck cab.

**Operators Manual & Video:** Two CDs and one printed copy of operation, maintenance, safety and parts manual provided with each unit. Operational and safety video provided at delivery.

**Installation:** Unit installed on truck, painted, system and tank filled with oil, tested, inspected, and ready to operate.

**Standard Paint:** Paint boom and turret red, outriggers red, and bed and boxes black. Top of bed painted with black nonskid surface.

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

**Weight:** Approximately 18,500 lbs. with 26' steel-floor bed less truck.

**Truck Chassis Required:** Approx. 168" C.A., RBM 1,600,000 in-lb. per rail, 14,000 lb. front axle and 48,000 lb. GVWR required. Trucks must have front frame extensions, increased cooling, heavy-duty front and rear springs, 12V electrical system with high capacity alternator, cab clearance stop/tail/backup lights, and I.D. lamps. Recommended GVWR is minimum for HiReach with flatbed only. Contact factory when additional equipment is to be added.

Elliott Equipment Company reserves the right to change the specification of any unit at any time without prior notice. This brochure is only a statement of general specifications on the date of this publication. For more detailed info on specific Elliott trucks go to [www.elliottequip.com](http://www.elliottequip.com)

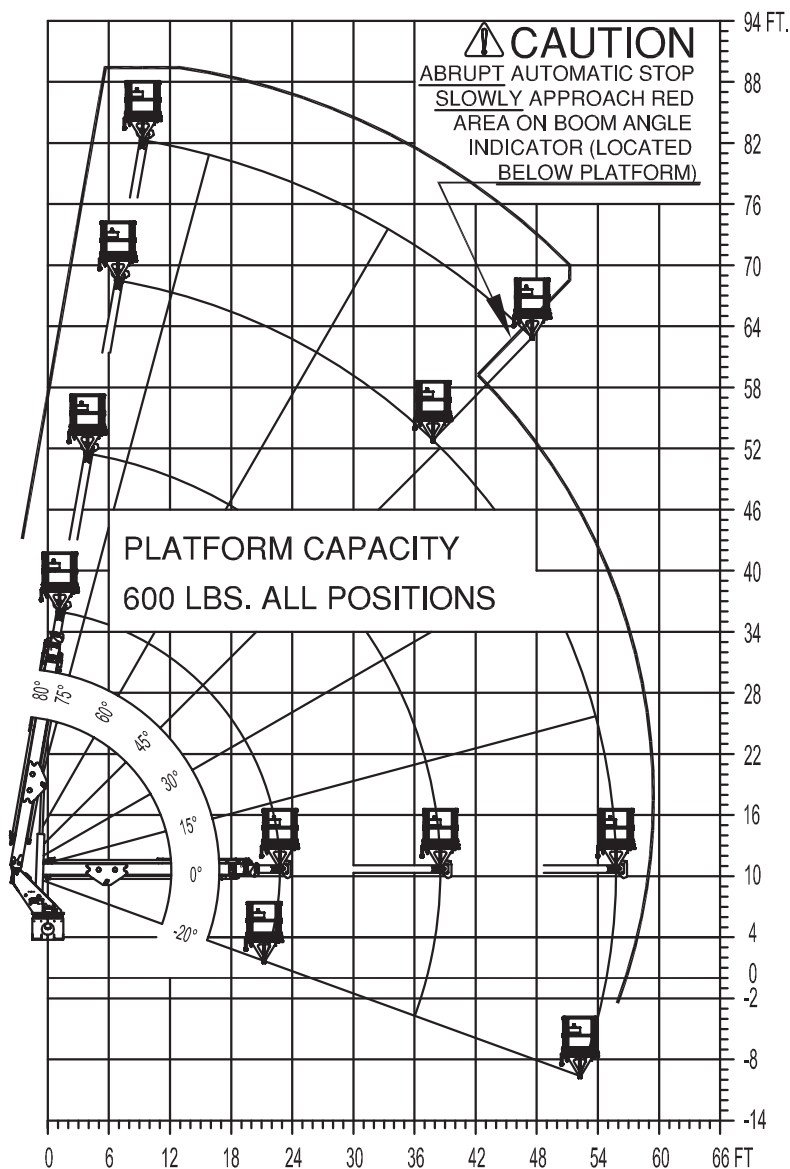


## HIREACH - I85F

## TECHNICAL SPECIFICATIONS

### MAXIMUM RANGE CAPABILITIES

### PLATFORM WORKING RANGE MODEL I85



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## TECHNICAL SPECIFICATIONS

### MAXIMUM WINCH LIFTING CAPABILITIES

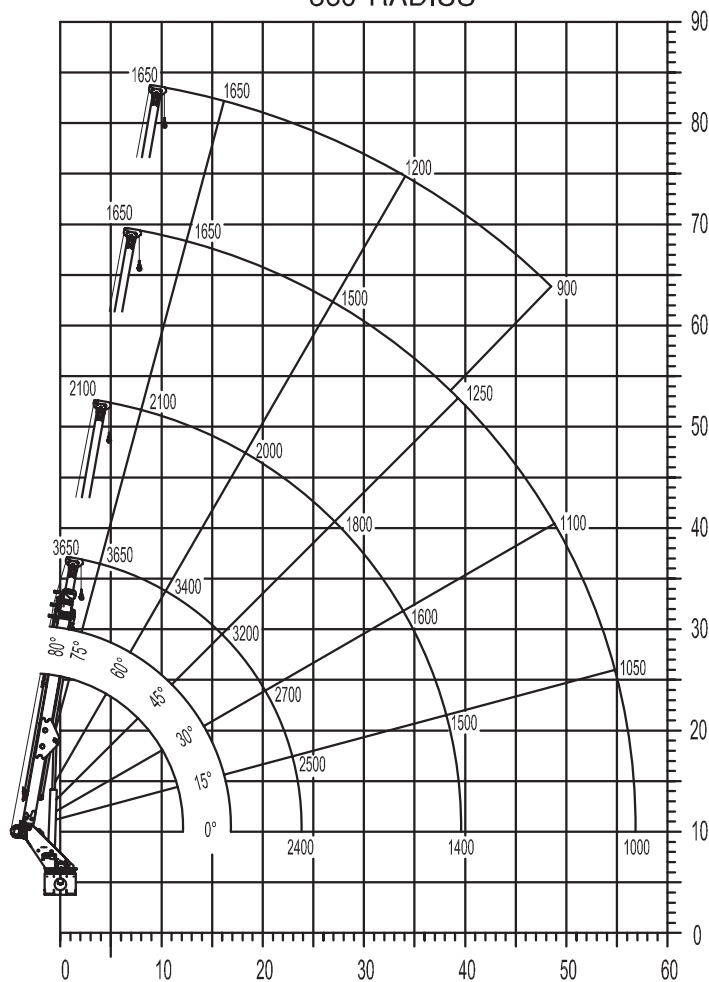
## MAXIMUM WORKING LOADS CRANE OPERATION

### MODEL I85

WINCH LINE LOAD (POUNDS) WITH BUCKETS OR PLATFORM REMOVED

USE OUTRIGGERS AT ALL TIMES • AVOID JERKING LOAD

360° RADIUS



DEDUCT 400 POUNDS WITH BUCKETS OR PLATFORM ATTACHED

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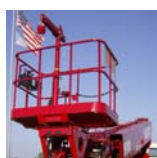
**HIREACH - I85F****TECHNICAL SPECIFICATIONS****CHASSIS DATA**

|                                | <b>I85F</b>                   |
|--------------------------------|-------------------------------|
| Wheelbase (WB)                 | 211" / 536 cm                 |
| Cab to Axle (CA)               | 168" / 427 cm                 |
| Cab to End of Frame (EOF)      | 315" / 800 cm                 |
| Frame Section Modulus          | 16.6 in3 / 120,000 psi        |
| Front Axle Gross Weight Rating | 14,000 lb / 6,350 kg          |
| Rear Axle Gross Weight Rating  | 34,000 lb / 15,422 kg         |
| Extended Front Frame           | 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.

**OPTIONS****Radio Remote Control**

Interference protected radio remotes hard-wired to the platform let you get closer to your work and have full control over your machine.

**Material Handling Jib**

Equip your HiReach platform with a material handling jib crane to handle up to 500 lbs. from within arm's reach.

**MH Outriggers With Shortjacking**

Reduce outrigger spread with MH secondary outriggers and Elliott's Automatic Safety Rotation Lockout to operate your HiReach in confined spaces.

**Outrigger Pad Holders**

Outrigger pad holders safely store your pads for travel and leave plenty of room for tool boxes.

**Bed Accessories**

Mount a wide variety of tool accessories including welders, power washers, and generators on the bed with lines to the platform.

**Platform Accessories**

Choose from a list of platform accessories including hydraulic accessory lines and a 3/8" air line to power tools from within the platform.

**Outrigger Extensions**

Our pin-on outrigger extensions give you extra clearance for work on hills and around guardrails.

**Line Body**

Let us work with you to customize a line body to secure your tools and supplies the best way for your application.