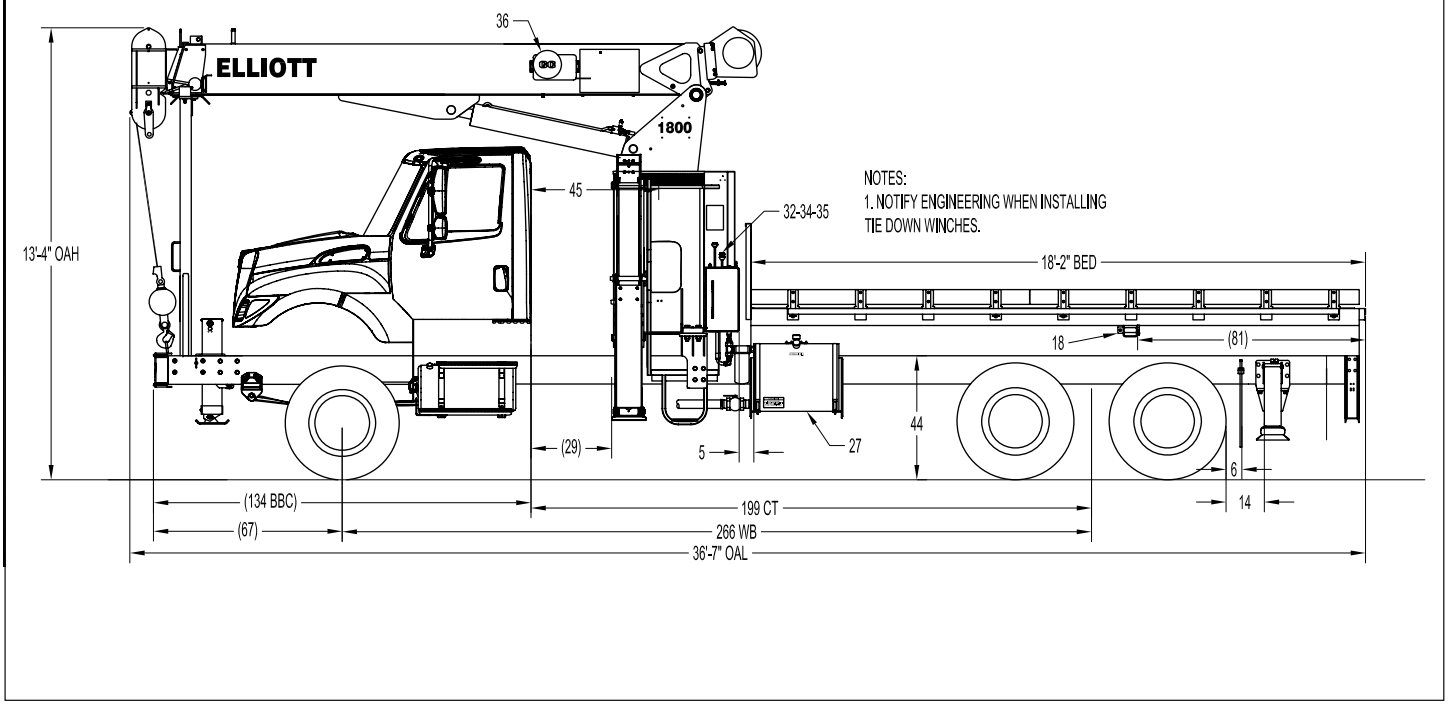
BoomTruck™ 1838F TECHNICAL SPECIFICATIONS




1838F SIDE VIEW DIAGRAM



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

ELLIOTT EQUIPMENT COMPANY

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

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...

ELLIOTT EQUIPMENT COMPANY

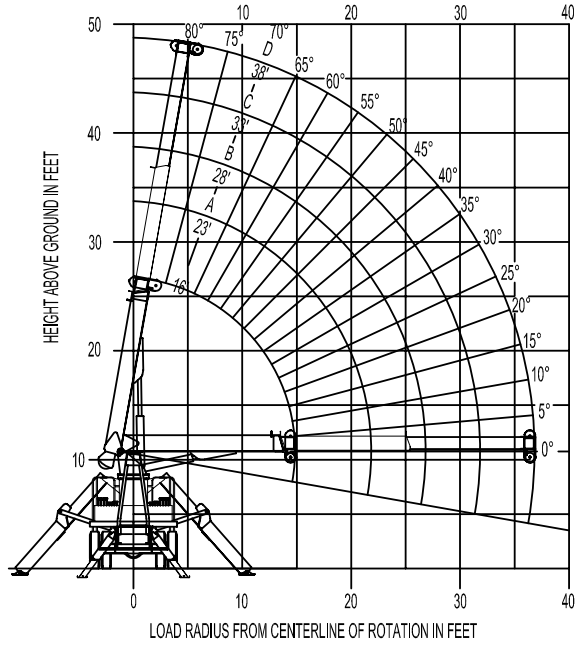
Elliott Equipment Company
4427 South 76th Circle
Omaha, NE 68127

Phone: 402-592-4500
Fax: 402-592-4553
Email: sales@elliottequip.com

MAXIMUM LIFTING CAPABILITIES

ELLIOTT EQUIPMENT COMPANY MODEL 1800 38-FT.BOOM

RANGE DIAGRAM

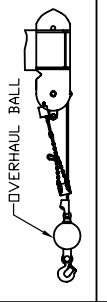


MAIN BOOM LOAD RATINGS

LOAD RATINGS IN LBS. WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS (feet)	LOADED BOOM ANGLE	16 ft	LOADED BOOM ANGLE	A 23 ft	LOADED BOOM ANGLE	B 28 ft	LOADED BOOM ANGLE	C 33 ft	LOADED BOOM ANGLE	D 38 ft
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

ALLOWABLE LINE PULL

1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	NOTICE
				- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM. - KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES. - USE ONLY 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.
9,600 lb	19,200 lb	28,800 lb	36,000 lb	9/16" - 6 x 37 IWRC (3.5:1 S.F.) 33,600 lb BREAKING STRENGTH
9,060 lb	18,120 lb	27,180 lb	36,000 lb	9/16" - SPIN RESISTANT (5:1 S.F.) 45,300 lb BREAKING STRENGTH
5,880 lb	11,760 lb	17,640 lb	23,520 lb	9/16" - SPIN RESISTANT (5:1 S.F.) 29,400 lb BREAKING STRENGTH

OVERHAUL BALL

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.

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 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.

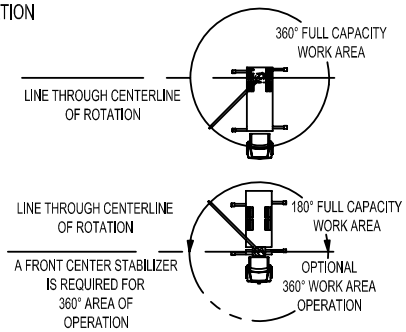
INFORMATION

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.

AREA OF OPERATION



CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE. | DO NOT PAINT OVER ANY LABELS 1079620 060904

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

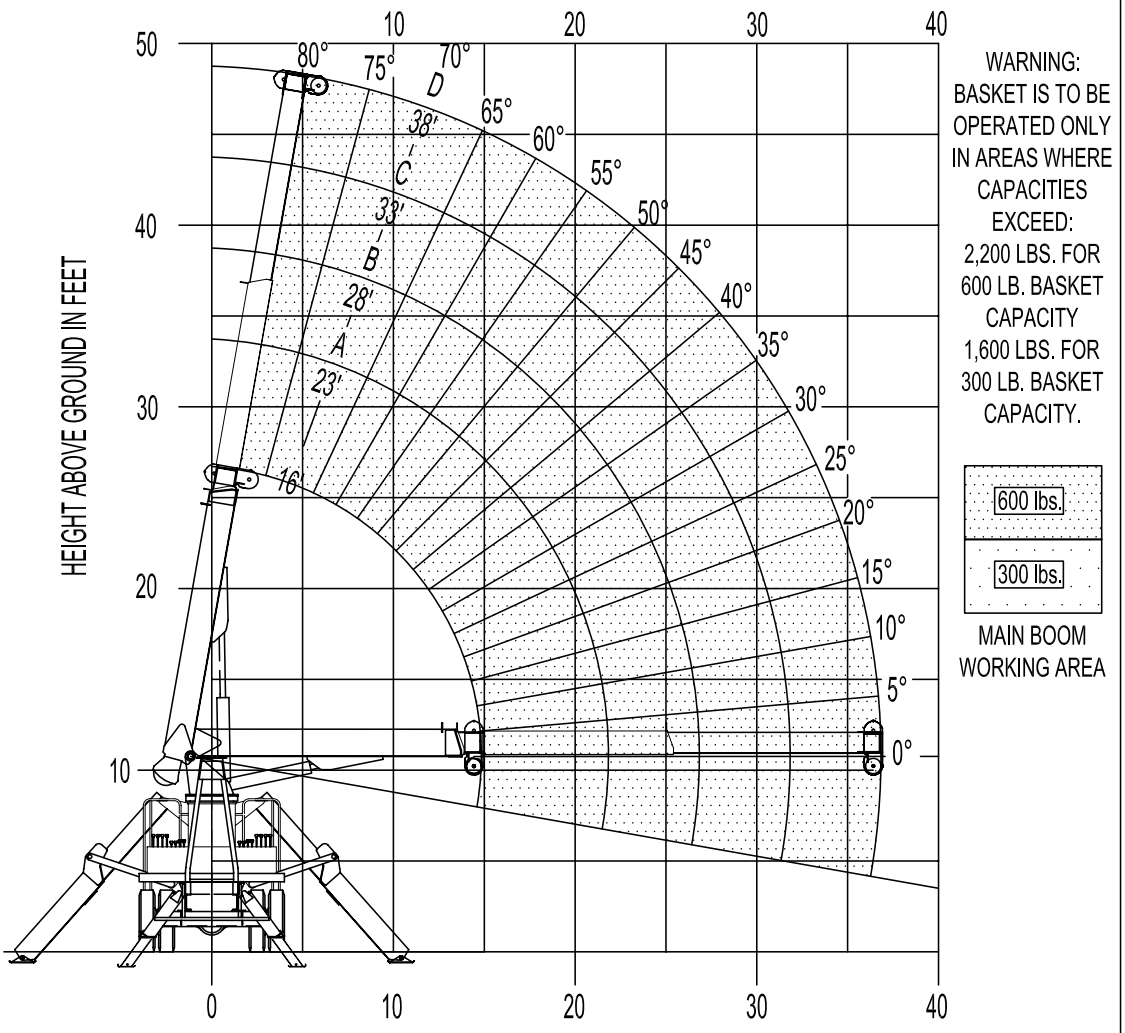
MAXIMUM RANGE CAPABILITIES

ELLIOTT EQUIPMENT COMPANY

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.

600 lbs.

300 lbs.

MAIN BOOM WORKING AREA

DO NOT PAINT OVER ANY LABELS 1140040 021308

Elliott Equipment Company
4427 South 76th Circle
Omaha, NE 68127

Phone: 402-592-4500
Fax: 402-592-4553
Email: sales@elliottequip.com

BOOMTRUCK - 1838F TECHNICAL SPECIFICATIONS

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% stbility 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 Leveled 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.

ELLIOTT EQUIPMENT COMPANY

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