Technical Data

Specifications & Capacities

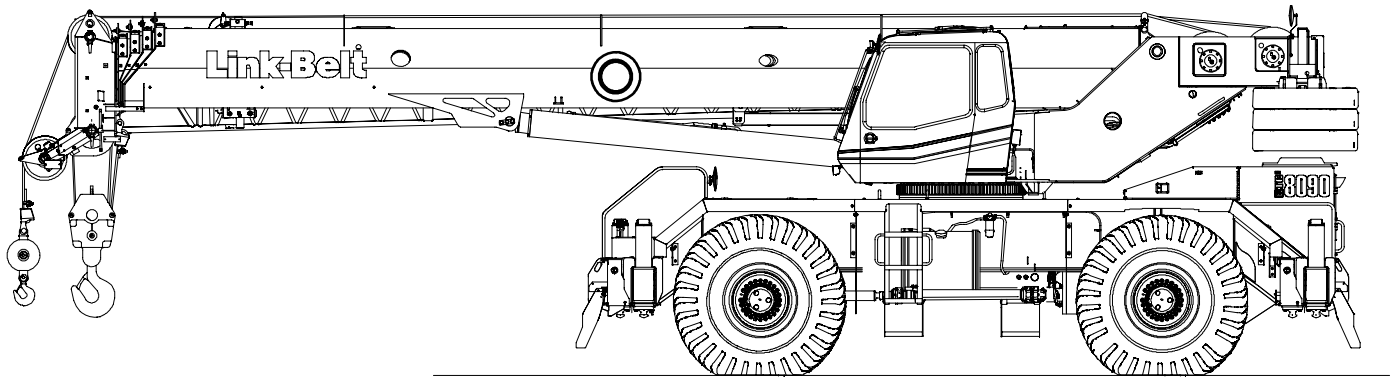
GUAY

RTC 8090

Series II

Telescopic Boom Rough Terrain Crane

90 ton *(80.0 metric ton)*



CAUTION: This material is supplied for reference use only. Operator must refer to in – cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

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Boom, Attachments, and Upper Structure

■ Boom

Design – Five section, formed construction of extra high tensile steel consisting of one base section and four telescoping sections. The two plate design of each section has multiple longitudinal bends for superior strength. Each telescoping section extends independently by means of one double–acting, single stage hydraulic cylinder with integrated holding valves.

Boom

- 38–140 ft (*11.6–42.7m*) five section boom
- Three boom extend modes (EM1 through EM3), controlled from the operator's cab, provide superior capacities by varying the extension of the telescoping sections:
  - EM1 extends to 140.0 ft (*42.7m*)
  - EM2 extends to 115.8 ft (*35.3m*)
  - EM3 extends to 76.5 ft (*23.3m*)
- Mechanical boom angle indicator
- Maximum tip height for each extend mode is:
  - EM1 is 149 ft 7 in (*45.6m*)
  - EM2 is 125 ft 9 in (*38.3m*)
  - EM3 is 87 ft 1 in (*26.5m*)

Boom Wear Pads

- Wear pads with Teflon inserts that self–lubricate the boom sections
- Bottom wear pads are universal for all boom sections
- Top wear pads are universal for all boom sections

Boom Head

- Five 16.5 in (*41.9cm*) root diameter nylon sheaves to handle up to ten parts of line
- Easily removable wire rope guards
- Rope dead end lugs on each side of the boom head
- Boom head is designed for quick–reeve of the hook block

Boom Elevation

- One double acting hydraulic cylinder with integral holding valve
- Boom elevation: –3˚ to 80˚

Auxiliary Lifting Sheave – Optional

- Single 16.5 in (*41.9m*) root diameter nylon sheave
- Easily removable wire rope guards
- Does not affect erection of the fly or use of the main head sheaves

Hook Blocks and Balls – Optional

- 40 ton (*36.3mt*) 4 sheave quick–reeve hook block with safety latch
- 60 ton (*54.4mt*) 4 sheave quick–reeve hook block with safety latch
- 80 ton (*72.5mt*) 5 sheave quick–reeve hook block with safety latch
- 90 ton (*80.0mt*) 6 sheave quick–reeve hook block with safety latch
- 8.5 ton (*7.7mt*) swivel and non–swivel hook balls with safety latch
- 10 ton (*9.1mt*) swivel and non–swivel hook balls with safety latch

Fly – Optional

- 35 ft (*10.7m*) one piece lattice fly, stowable, offsettable to 2˚, 15˚, 30˚, and 45˚. Maximum tip height is 184 ft 2 in (*56.1m*).
- 35 ft–58 ft (*10.7–17.7m*) two piece bi–fold lattice fly, stowable, offsettable to 2˚, 15˚, 30˚, and 45˚. Maximum tip height is 206 ft 8 in (*63.0m*).

Fly Extensions – Optional

- One 16 ft (*4.9m*) lattice extension, equipped with two 16.5 in (*41.9cm*) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 222 ft 4 in (*67.8m*).
- Two 16 ft (*4.9m*) lattice extensions, one equipped with two 16.5 in (*41.9cm*) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 238 ft 2 in (*72.6m*). Minimum of 19,200 lb (*8 700kg*) of counterweight required.

■ Operator's Cab and Controls

Environmental Cab – Fully enclosed, one person cab of galvaneal steel structure with acoustical insulation
Equipped with:

- Tinted and tempered glass windows
- Extra–large fixed front window with windshield wiper and washer
- Swing up roof window with windshield wiper
- Sliding left side door with large fixed window
- Sliding rear and right side windows for ventilation
- Six way adjustable, cushioned seat with seat belt and storage compartment
- Diesel fired warm–water heater with air ducts for front windshield defroster and cab floor
- Defroster fan for the front window
- Bubble level
- Circulating fan
- Adjustable sun visor
- Dome light
- Cup holder
- Fire extinguisher
- Left side viewing mirror
- Two position travel swing lock

Air Conditioning – Optional – Integral with cab heating system utilizing the same ventilation outlets

Engine Dependant Warm–Water Heater – Optional – With air ducts for front windshield defroster and cab floor

Steering Column – Pedestal type with tilt and telescope functions for operator comfort. Column includes the following controls and indicators:

Left and right levers include:
- Horn button
- Turn signal switch
- Driving light switch
- Transmission direction switch

Panel mounted switches for:
- Travel park brake
- Steer mode selector
- 2/4 wheel drive/range selector
- Transmission gear selector
- Hazard flasher

Panel mounted indicator/warning lights for:
- Transmission temperature
- Engine oil pressure
- Travel park brake
- Service brake
- Turn signals
- Rear wheel offset
- Emergency steer – optional

Armrest Controls – Two dual axis hydraulic joystick controllers or optional single axis hydraulic controllers for:
- Swing
- Boom hoist
- Main rear winch
- Auxiliary front winch – optional
- Drum rotation indication
- Drum rotation indicator activation switch
- Winch high/low speed and disable switch(es)
- Warning horn button
- Swing park brake

Outrigger Controls – Hand held control box with umbilical cord gives the operator the freedom to view operation while setting the outriggers.

Foot Controls
- Boom telescope
- Swing brake
- Engine throttle
- Service brake

Right Front Console – Controls and indicators for:
- Engine ignition
- Engine throttle lock
- Function disable
- Front windshield wiper and washer
- Cab floodlights
- Warning horn
- Heating controls
- Console dimmer switch
- Bubble level
- 12 volt power connection
- Air conditioning – optional
- Boom floodlight – optional
- Rotating beacon/Strobe light – optional
- Third wrap indicator – optional

Cab Instrumentation – Ergonomically positioned, analog instrumentation for crane operation including:
- Engine coolant temperature with warning indicator
- Hydraulic oil temperature with warning indicator
- Fuel level with warning indicator
- Tachometer
- Transmission temperature with warning indicator
- Voltmeter with warning indicator

Rated Capacity Limiter – Microguard graphic audio–visual warning system integrated into the dash with anti–two block and function limiter. Operating data available includes:
- Crane configuration
- Boom length and angle
- Boom head height
- Allowed load and % of allowed load
- Boom angle
- Radius of load
- Actual load
- Operator settable alarms (include):
  - Maximum and minimum boom angles
  - Maximum tip height
  - Maximum boom length
  - Swing left/right positions
  - Operator defined area (imaginary plane)

Integrated Third Wrap Indicator – Optional – Microguard color display visually and audibly warns the operator when the wire rope is on the first/bottom layer and when the wire rope is down to the last three wraps.

Internal RCL Light Bar – Optional – Visually informs the operator when crane is approaching maximum load capacity with a series of green, yellow, and red lights.

External RCL Light Bar – Optional – Visually informs the ground crew when crane is approaching maximum load capacity with a series of green, yellow, and red lights.

■ Swing

Motor/Planetary – Bi–directional hydraulic swing motor mounted to a planetary reducer for 360˚ continuous smooth swing at 1.9 rpm

Swing Park Brake – 360˚, electric over hydraulic, (spring applied/hydraulic released) multi–disc brake mounted on the speed reducer. Operated by a switch from the operator's cab.

Swing Brake – 360˚, foot operated, hydraulic applied disc brake mounted to the speed reducer

Swing Lock – Two–position swing lock (boom over front or rear) operated from the operator's cab

360˚ Positive Swing Lock – Optional – Meets New York City requirement

■ Electrical

Swing Alarm – Audio warning device signals when the upper is swinging.

Lights
- Two working lights on front of the cab
- One rotating amber beacon on top of the cab – optional
- One amber strobe beacon on top of the cab – optional
- Boom floodlight – optional

■ Load Hoist System

Load Hoist Performance

Main (Rear) and Auxiliary (Front) Winches – 3/4 in (*19mm*) Rope										
	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
Layer	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	ft	*m*	ft	*m*
1	16,880	*7 656.6*	172	*52.4*	341	*104.0*	114	*34.7*	114	*34.7*
2	15,519	*7 039.3*	187	*57.0*	371	*113.1*	124	*37.8*	238	*72.5*
3	14,362	*6 514.5*	202	*61.6*	401	*122.2*	134	*40.8*	372	*113.4*
4	13,365	*6 062.3*	217	*66.1*	430	*131.1*	144	*43.9*	516	*157.3*
5	12,497	*5 668.5*	232	*70.7*	460	*140.2*	154	*46.9*	670	*204.2*
6	– – –	– – –	– – –	– – –	– – –	– – –	164	*50.0*	834	*254.2*

Wire Rope Application		Diameter		Type	Maximum Permissible Load	
		in	*mm*		lb	*kg*
Main (Rear) Winch	Standard	3/4	*19*	18x19 rotation resistant – right regular lay (Type RB)	12,920	*5 860.5*
	Optional	3/4	*19*	4 strand, low torque, right regular lay (Type GC)	22,400	*10 160.5*
	Optional	3/4	*19*	34x7 rotation resistant – right regular lay (Type ZB)	15,600	*7 076.2*
Auxiliary (Front) Winch	Standard	3/4	*19*	18x19 rotation resistant – right regular lay (Type RB)	12,920	*5 860.5*
	Optional	3/4	*19*	4 strand, low torque, right regular lay (Type GC)	22,400	*10 160.5*
	Optional	3/4	*19*	34x7 rotation resistant – right regular lay (Type ZB)	15,600	*7 076.2*

2M Main and Optional Auxiliary Winches

- Axial piston, full and half displacement (2–speed) motors driven through planetary reduction unit for positive control under all load conditions.
- Grooved lagging
- Power up/down mode of operation
- Hoist drum cable follower – optional
- Drum rotation indicator
- Drum diameter: 16 in (*40.6cm*)
- Rope length:
  - Main: 730 ft (*222.5m*)
  - Auxiliary: 500 ft (*152.4m*) or 730 ft (*222.5m*)
- Maximum rope storage: 834 ft (*254.2m*)
- Terminator style socket and wedge

Third wrap indicator – optional – Visually and audibly warns the operator when the wire rope is on the first/bottom layer and when the wire rope is down to the last three wraps

■ Hydraulic System

Counterbalance Valves – All hoist motors, boom extend cylinders, and boom hoist cylinders are equipped with counterbalance valves to provide load lowering and prevents accidental load drop when hydraulic power is suddenly reduced.

Hydraulic Oil Coolers – Two carrier mounted coolers remove heat from the hydraulic oil. One is integral to the engine radiator/charge air cooler and the other is mounted on left side of the carrier.

■ Counterweight

Standard – Total of 19,200 lb (*8 709.0kg*) counterweight consisting of two counterweights pinned to the upper with capacities for:

- 0 lb (*0kg*) counterweight*
- 9,600 lb (*4 354.5kg*) counterweight
- 19,200 lb (*8 709.0kg*) counterweight

Optional – 9,600 lb (*4 354.5kg*) in addition to standard counterweight for a total of 28,800 lb (*13 063.0kg*) counterweight with capacities for:

- 0 lb (*0kg*) counterweight*
- 9,600 lb (*4 354.5kg*) counterweight
- 19,200 lb (*8 709.0kg*) counterweight
- 28,800 lb (*13 063.0kg*) counterweight*

* Travel speed limited to 5 mph.

Optional – Hydraulic counterweight removal activated by a hand–held controller with enough cable to access the pins on each side of the counterweights.

Carrier

■ General

- 10 ft 9 in (*3.28m*) wide
- 14 ft 4 in (*4.37m*) wheelbase (centerline of first axle to centerline of second axle)

Frame – Box–type, torsion resistant, welded construction made of high tensile steel. Equipped with front and rear towing and tie–down lugs, tow connections, and access ladders.

■ Outriggers

Boxes – Two double box, front and rear welded to carrier frame

Beams and Jacks – Four single stage beams with Confined Area Lifting Capacities (CALC™) provide selectable outrigger extensions of full, intermediate, and retracted. Hydraulically controlled from the operator's cab with integral check valves.

Pontoons – Four lightweight, quick release, 23.5 x 23.5 in (*59.7 x 59.7cm*), steel pontoons with contact area of 460 in^2 (*2 968* cm^2) can be stored for road travel in storage racks on the carrier.

Main Jack Reaction – 108,000 lb (*48 988kg*) force and 235 psi (*1 620kPa*) ground bearing pressure

■ Steering and Axles

Steering – Four independent modes consisting of two wheel front, two wheel rear, four wheel, and crab. Each mode is controlled from the steering wheel and is selected by a switch in the operator's cab.

Drive – Two modes: 4 x 2 and 4 x 4 for off highway travel

Axle 1 – Steered, non–driven for 4 x 2 and steered, driven for 4 x 4

Axle 2 – Steered, driven

■ Suspension

Front – Rigid mount to the carrier frame

Rear – The rear axle is suspended on the oscillation cylinders with motion of the axle controlled by a four bar linkage system. The oscillation cylinders lockout when the upper structure rotates 2.5˚ past centerline.

- Hydro–gas rear suspension – optional

Ride Height Adjustment – Suspension can be lowered for transport using a hand–held controller from level ground.

■ Tires and Wheels

Front and Rear – Four (single) 29.5 x 25–28 ply rating, earthmover type tires on steel disc wheels

- Spare tires and wheels – optional

■ Brakes

Service – Full hydraulic, dual circuit, disc type brakes on all wheel ends

Parking/Emergency – Spring applied type, acting on front axle

■ Electrical

Two batteries provide 12 volt starting and operation

Lights

- Front lighting includes two main headlights and two parking/directional indicators.
- Side lighting includes two parking/directional indicators per side.
- Rear lighting includes two parking/directional indicators, two parking/brake lights, and two reversing lights.
- Other equipment includes hazard/warning system, cab light, instrument panel light, and signal horn.

■ Engine

Specification	CAT C6.6
Numbers of Cylinders	6
Cycle	4
Bore and Stroke: inch (*mm*)	4.13 x 5.00 (*105 x 127*)
Piston Displacement: in^3 (*L*)	402.7 (*6.6*)
Max. Brake Horsepower: hp (*kW*)	235 (*175.2*) @ 2,000 rpm 225 (*167.8*) @ 2,200 rpm
Peak Torque: ft lb (*Nm*)	724 (*981.7*) @ 1,500 rpm
Alternator: volts – amps	12 – 150
Crankcase Capacity: qt (*L*)	18.4 (*17.4*)
• Mechanically driven fan and thermostatically controlled radiator	

■ Transmission

Powershift – Three speed with high/low range for 6 forward and 6 reverse gears. Front axle disconnect for two or four wheel drive. Front axle disconnects in high range.

Carrier Speeds and Gradeability

Spicer			Speed		Gradeability (@ stall)
Gear		Ratio	mph	*km/h*	% Grade
6th	Forward & Reverse 2WD/Hi	0.82	19.8	*31.9*	2.4
5th		2.25	8.1	*13.0*	10.2
4th		4.67	4.0	*6.4*	23.8
3rd	Forward & Reverse 4WD/Low	2.4	7.6	*12.3*	11.0
2nd		6.54	2.9	*4.7*	35.2
1st		13.6	1.4	*2.3*	101.2

Based on a gross vehicle weight of 105,500 lb (*47 854kg*).

Crane operating angle must not exceed 35˚ (77% grade).

Fuel Tank

One 75 gallon (*283.9L*) capacity tank

Hydraulic System

All functions are hydraulically powered allowing positive precise control with independent or simultaneous operation of all functions.

Main Pumps

- One two section fixed displacement gear pump for the front/rear winches and boom hoist/telescope circuits.
- One two section fixed displacement gear pump for the swing/steering and outrigger/telescope/service brake/oscillation circuits.
- One single section gear pump for an additional supply to the front/rear winch circuit.
- Combined pump capacity of 138 gpm (*522.4Lpm*)

Hydraulic Reservoir – 153 gal (*579.2L*) capacity equipped with sight level gauge. Diffusers built in for deaeration.

Filtration – One 10 micron, full flow return line filter. Accessible for easy filter replacement.

Pump Drive

One pump is mounted on the engine with the rest being transmission mounted. All pumps are mechanically driven by the diesel engine.

- Front/rear winches and boom hoist/telescope pump can be disconnected with a manual pump disconnect to aid in cold weather starting – optional.

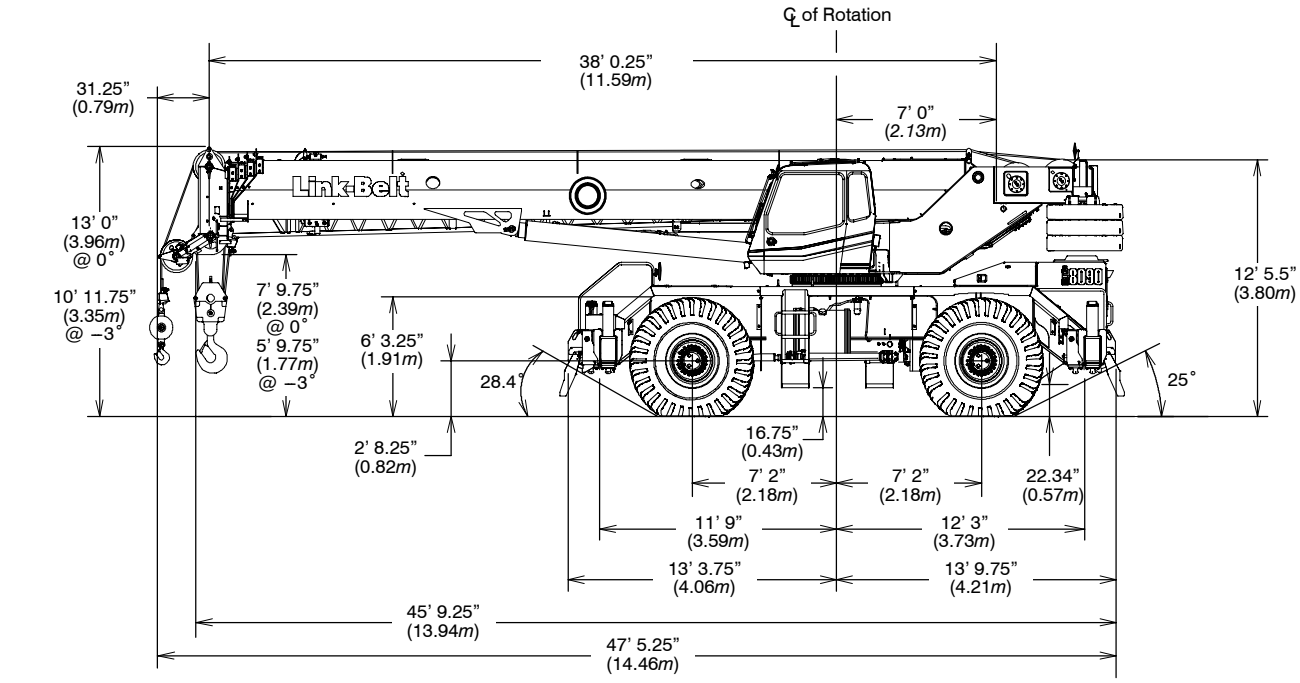
Axle Loads

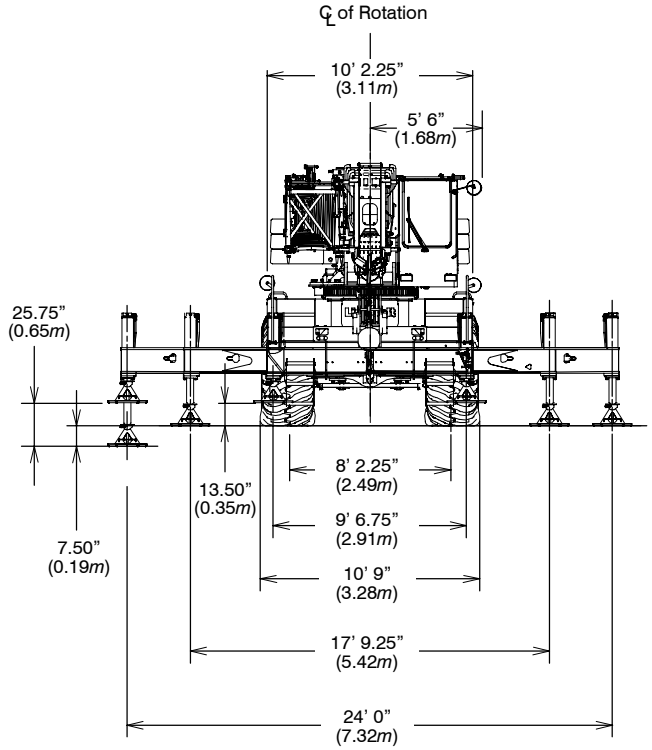
Base crane with zero counterweight and full tank of fuel	Gross Vehicle Weight (1)		Upper Facing Front				Upper Facing Rear			
			Front Axles		Rear Axles		Front Axles		Rear Axles	
	lb	*kg*	lb	*kg*	lb	*kg*	lb	*kg*	lb	*kg*
	79,919	***36 251***	**51,085**	***23 172***	**28,834**	***13 079***	**22,585**	***10 245***	**57,334**	***26 007***
Pintle hook, front	13	*6*	17	*8*	–5	*–2*	17	*8*	–5	*–2*
Pintle hook, rear	13	*6*	–5	*–2*	18	*8*	–5	*–2*	18	*8*
Rear steer indicator	6	*3*	0	*0*	6	*3*	0	*0*	6	*3*
Hydro–gas suspension	56	*25*	20	*9*	36	*16*	20	*9*	36	*16*
Pump disconnect	39	*18*	7	*3*	32	*15*	7	*3*	32	*15*
Operator in cab	250	*113*	140	*64*	110	*50*	110	*50*	140	*64*
Hoist drum follower – main	69	*31*	–24	*–11*	93	*42*	93	*42*	–24	*–11*
Auxiliary winch with 500 ft (*152.4m*) wire rope	608	*276*	–74	*–34*	682	*309*	682	*309*	–74	*–34*
Hoist drum follower – auxiliary	69	*31*	–6	*–3*	75	*34*	75	*34*	–6	*–3*
Substitute 500 ft (*152.4m*) wire rope with 730 ft (*222.5m*) – auxiliary	288	*131*	–9	*–4*	297	*135*	297	*135*	–9	*–4*
Remove 730 ft (*222.5m*) wire rope from rear (main) winch	–931	*–422*	203	*92*	–1,134	*–514*	–1,134	*–514*	203	*92*
Remove 500 ft (*152.4m*) wire rope from front (auxiliary) winch	–643	*–292*	21	*10*	–664	*–301*	–664	*–301*	21	*10*
Counterweight removal	208	*94*	–62	*–28*	270	*122*	270	*122*	–62	*–28*
One slab of counterweight on upper	9,600	*4 355*	–3,356	*–1 522*	12,956	*5 877*	12,956	*5 877*	–3,356	*–1 522*
Two slabs of counterweight on upper	19,200	*8 709*	–6,712	*–3 045*	25,912	*11 754*	25,912	*11 754*	–6,712	*–3 045*
Three slabs of counterweight on upper	28,800	*13 064*	–10,068	*–4 567*	38,868	*17 630*	38,868	*17 630*	–10,068	*–4 567*
Emergency steering	255	*116*	39	*18*	216	*100*	216	*100*	39	*18*
360° mechanical swing lock	140	*64*	72	*33*	68	*31*	68	*31*	72	*33*
Air conditioning	179	*81*	50	*23*	129	*59*	129	*59*	50	*23*
Floodlight to front of boom base section	7	*3*	10	*5*	–3	*–1*	–3	*–1*	10	*5*
Fly mounting brackets to boom base section for fly options	176	*80*	239	*108*	–63	*–29*	–63	*–29*	239	*108*
35 ft (*10.67m*) offsettable fly – stowed	1,591	*722*	2,576	*1 168*	–984	*–446*	–984	*–446*	2,576	*1 168*
35–58 ft (*10.67–17.68m*) offsettable fly – stowed	2,263	*1 026*	3,257	*1 477*	–994	*–451*	–994	*–451*	3,257	*1 477*
Auxiliary lifting sheave	110	*50*	304	*138*	–194	*–88*	–194	*–88*	304	*138*
90 ton (*80.0mt*) 6–sheave hook block at bumper	1,554	*705*	2,358	*1 070*	–804	*–365*	–804	*–365*	2,358	*1 070*
80 ton (*72.5mt*) 5–sheave hook block at bumper	1,406	*638*	2,134	*968*	–728	*–330*	–728	*–330*	2,134	*968*
60 ton (*54.4mt*) 4–sheave hook block at bumper	1,109	*503*	1,683	*763*	–574	*–260*	–574	*–260*	1,683	*763*
10 ton (*9.1mt*) hook ball at bumper	550	*250*	834	*378*	–284	*–129*	–284	*–129*	834	*378*
8.5 ton (*7.7mt*) hook ball at bumper	360	*163*	546	*248*	–186	*–84*	–186	*–84*	546	*248*
90 ton (*80.0mt*) 6–sheave hook block at boom head	1,554	*705*	4,138	*1 877*	–2,584	*–1 172*	–2,584	*–1 172*	4,138	*1 877*
80 ton (*72.5mt*) 5–sheave hook block at boom head	1,406	*638*	3,744	*1 698*	–2,338	*–1 061*	–2,338	*–1 061*	3,744	*1 698*
60 ton (*54.4mt*) 4–sheave hook block at boom head	1,109	*503*	2,953	*1 340*	–1,844	*–836*	–1,844	*–836*	2,953	*1 340*
10 ton (*9.1mt*) hook ball at boom head	550	*250*	1,465	*665*	–915	*–415*	–915	*–415*	1,465	*665*
8.5 ton (*7.7mt*) hook ball at boom head	360	*163*	959	*435*	–599	*–272*	–599	*–272*	959	*435*

Tire	Maximum Allowable Axle Load @ 20 mph (*32.2km/h*)
29.5 x 25 (28–PR)	55,000 lb (*24 948kg*)

(1) Adjust gross vehicle weight and axle loading according to component weight.
Note: All weights are ±3%.

General Dimensions





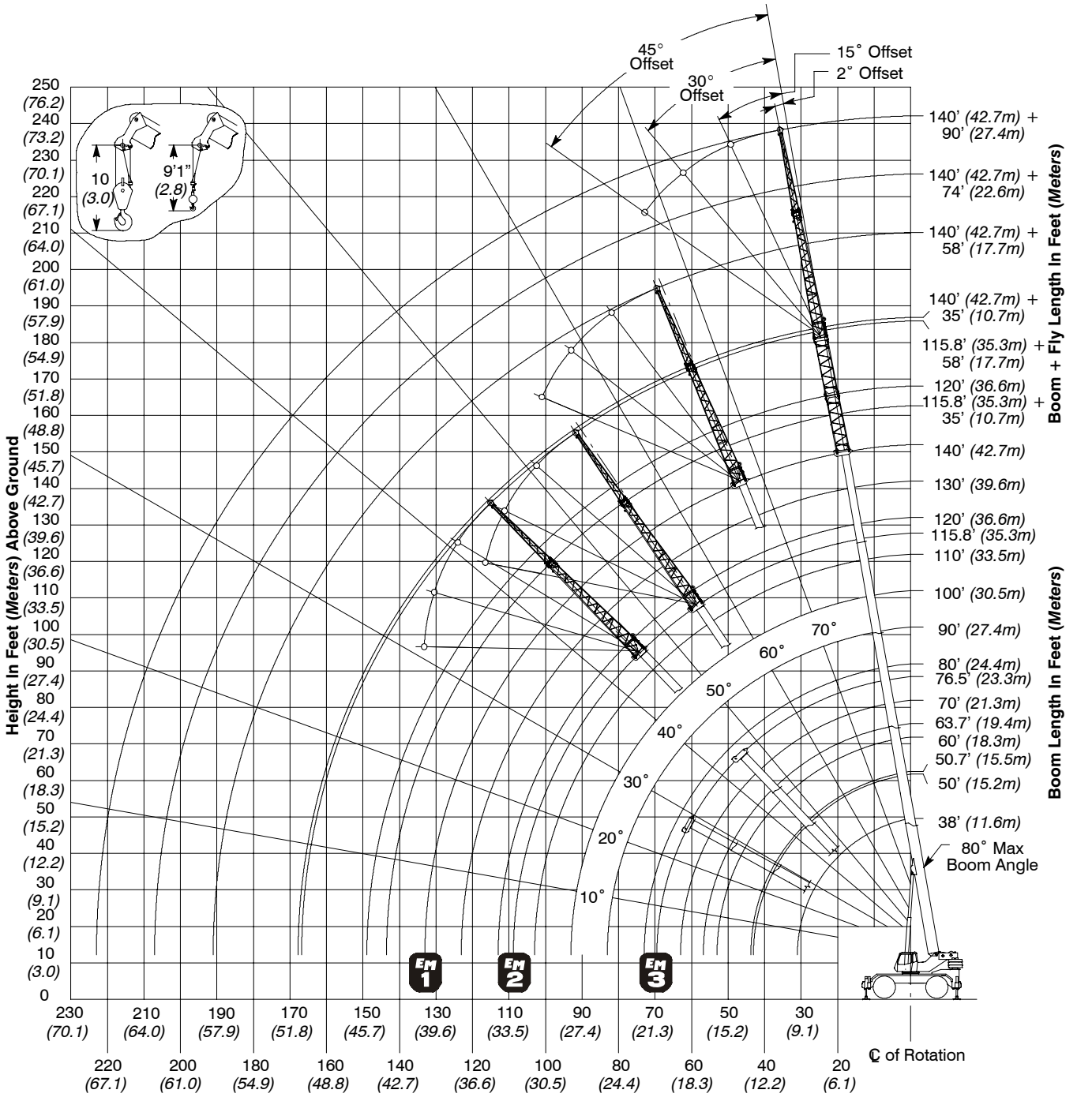
Turning Radius – Front Wheel (4x2) Steering	English	*Metric*
Wall to wall over carrier	48' 3"	*14.71m*
Wall to wall over boom attachment	60' 1"	*18.32m*
Curb to curb	46' 8"	*13.80m*
Centerline of tire	45' 4"	*10.28m*

Turning Radius – All Wheel (4x4) Steering	English	*Metric*
Wall to wall over carrier	27' 10"	*8.49m*
Wall to wall over boom attachment	38' 11"	*11.86m*
Curb to curb	26' 0"	*7.91m*
Centerline of tire	24' 7"	*7.50m*

Tail Swing	English	*Metric*
With counterweight	14' 2"	*4.32m*
Without counterweight	13' 2"	*3.97m*

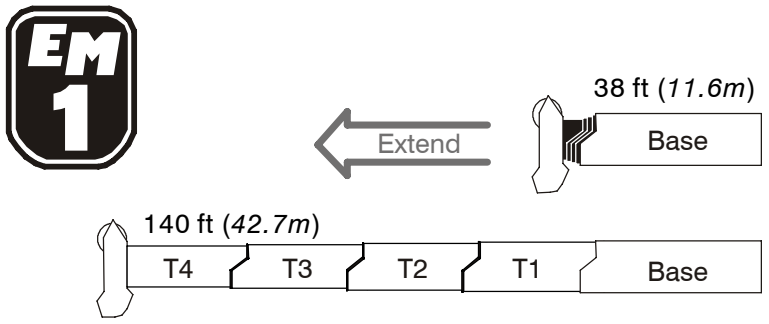
Not To Scale

Working Range Diagram

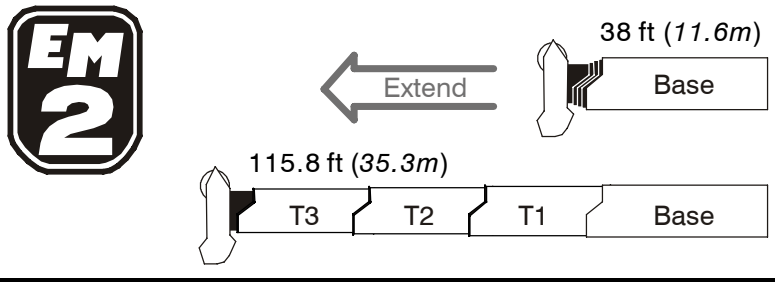


Boom Extend Modes

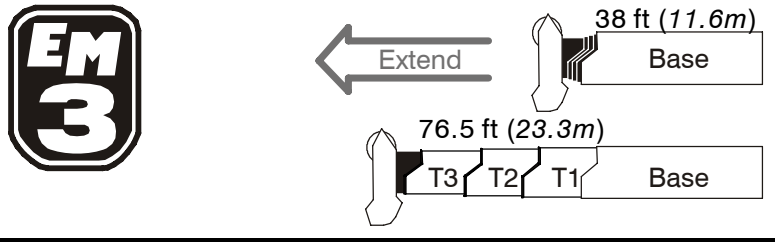
Boom Length		Section Length			
ft	*m*	T4	T3	T2	T1
50	*15.2*	50%			
60	*18.3*	91%			
70	*21.3*	100%	31%		
80	*24.4*	100%	71%		
90	*27.4*	100%	100%	11%	
100	*30.5*	100%	100%	49%	
110	*33.5*	100%	100%	88%	
120	*36.6*	100%	100%	100%	25%
130	*39.6*	100%	100%	100%	63%
140	*42.7*	100%	100%	100%	100%



Boom Length		Section Length			
ft	*m*	T4	T3	T2	T1
50	*15.2*	0%	48%		
60	*18.3*	0%	88%		
70	*21.3*	0%	100%	27%	
80	*24.4*	0%	100%	65%	
90	*27.4*	0%	100%	100%	4%
100	*30.5*	0%	100%	100%	41%
115.8	*35.3*	0%	100%	100%	100%



Boom Length		Section Length			
ft	*m*	T4	T3	T2	T1
50.7	*15.5*	0%	51%		
63.7	*19.4*	0%	51%	50%	
76.5	*23.3*	0%	51%	50%	48%



Main Boom Lift Capacity Charts – Standard

19,200 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)											Radius (ft)
	38	50	60	70	80	90	100	110	120	130	140	
8	180,000*											8
10	160,000	152,000	117,900	70,800								10
12	138,000	138,600	108,800	70,800	85,100							12
15	109,500	111,700	106,500	70,800	78,400	54,200						15
20	80,100	82,400	82,800	63,500	76,500	52,000	49,100	27,200				20
25	62,000	64,300	64,800	54,800	64,300	45,600	45,200	36,300	28,000	26,900		25
30	49,700	52,000	52,600	47,800	52,100	40,600	42,200	35,900	28,000	26,500	24,400	30
35		42,900	44,100	42,500	42,800	36,500	38,300	35,500	28,000	26,300	24,100	35
40		34,300	34,600	35,000	35,100	33,000	34,700	33,400	28,000	26,100	24,000	40
45			28,100	28,400	28,500	28,500	28,100	27,500	26,100	25,900	23,800	45
50			23,200	23,600	23,700	23,800	23,300	23,800	24,100	24,600	23,700	50
55			19,000	20,800	21,300	20,000	21,300	21,700	21,300	20,900	20,500	55
60				18,400	18,800	18,300	18,800	18,700	18,300	17,900	17,600	60
65					16,300	16,500	16,400	16,300	15,900	15,500	15,100	65
70					14,300	14,500	14,400	14,300	13,900	13,500	13,200	70
75						12,800	12,800	12,700	12,300	12,000	11,600	75
80						11,400	11,300	11,200	10,900	10,500	10,200	80
85							10,100	10,000	9,700	9,300	9,000	85
90							9,000	8,900	8,600	8,200	7,900	90
95								8,000	7,700	7,300	7,000	95
100								7,100	6,800	6,500	6,200	100
105								4,200	6,100	5,700	5,400	105
110									5,400	5,100	4,700	110
115										4,500	4,200	115
120										3,900	3,600	120
125											3,100	125
130											2,700	130

* Special Conditions Or Wire Rope Required

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

19,200 lb Counterweight -- On Tires -- Stationary -- Boom Centered Over Front Between Tire Tracks
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)								Radius (ft)
	38	50	60	70	80	90	100	110	
15	54,700								15
20	43,300								20
25	33,000	36,200							25
30	23,400	26,500	27,900						30
35		20,300	21,700	22,300					35
40		15,900	17,300	17,900	18,300				40
45			14,000	14,700	15,100	15,200			45
50			11,600	12,200	12,600	12,700	12,700		50
55				10,200	10,700	10,900	10,800	10,700	55
60				8,600	9,000	9,200	9,200	9,100	60
65					7,700	7,900	7,800	7,800	65
70					6,600	6,800	6,700	6,700	70
75						5,800	5,800	5,700	75
80						5,000	4,900	4,900	80
85							4,200	4,200	85
90							3,600	3,500	90
95								3,000	95
100								2,500	100

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

19,200 lb Counterweight – On Tires – Pick & Carry (Creep) – Boom Centered Over Front
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)								Radius (ft)
	38	50	60	70	80	90	100	110	
15	52,200								15
20	40,100								20
25	31,700	34,100							25
30	23,400	26,500	27,900						30
35		20,300	21,700	22,300					35
40		15,900	17,300	17,900	18,300				40
45			14,000	14,700	15,100	15,200			45
50			11,600	12,200	12,600	12,700	12,700		50
55				10,200	10,700	10,900	10,800	10,700	55
60				8,600	9,000	9,200	9,200	9,100	60
65					7,700	7,900	7,800	7,800	65
70					6,600	6,800	6,700	6,700	70
75						5,800	5,800	5,700	75
80						5,000	4,900	4,900	80
85							4,200	4,200	85
90							3,600	3,500	90
95								3,000	95
100								2,500	100

19,200 lb Counterweight – On Tires – Stationary – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)								Radius (ft)
	38	50	60	70	80	90	100	110	
15	33,700								15
20	20,400								20
25	13,200	15,900							25
30	8,700	11,400	12,700						30
35		8,200	9,500	10,200					35
40		5,900	7,200	7,800	8,200				40
45			5,500	6,100	6,500	6,700			45
50			4,100	4,700	5,100	5,300	5,200		50
55				3,600	4,000	4,100	4,100	4,100	55
60				2,700	3,000	3,200	3,200	3,100	60
65					2,300	2,500	2,400	2,400	65
70					1,600	1,800	1,800	1,700	70
75						1,200	1,200	1,100	75

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

28,800 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)											Radius (ft)
	38	50	60	70	80	90	100	110	120	130	140	
8	180,000											8
10	160,000	152,000	117,900	70,800								10
12	139,600	138,600	108,800	70,800	85,100							12
15	116,300	118,400	106,500	70,800	78,400	54,200						15
20	85,300	87,500	87,900	63,500	76,500	52,000	49,100	27,200				20
25	66,200	68,500	69,000	54,800	68,500	45,600	45,200	36,300	28,000	26,900		25
30	53,200	55,500	56,100	47,800	55,700	40,600	42,200	35,900	28,000	26,500	24,400	30
35		46,200	46,800	42,500	46,400	36,500	38,300	35,500	28,000	26,300	24,100	35
40		39,600	40,100	38,100	39,300	33,000	34,900	33,400	28,000	26,100	24,000	40
45			34,200	34,500	33,800	30,100	32,100	30,300	26,100	25,900	23,800	45
50			28,500	28,900	28,900	27,600	28,500	27,900	24,100	25,200	23,700	50
55			23,700	24,600	24,700	24,700	24,300	23,800	22,300	23,500	23,600	55
60				21,100	21,200	21,300	20,900	20,400	20,700	21,900	21,700	60
65					18,500	18,500	18,600	18,900	19,300	19,300	18,900	65
70					17,300	16,200	17,500	17,700	17,400	17,000	16,600	70
75						14,900	15,900	15,700	15,400	15,000	14,700	75
80						14,100	14,200	14,100	13,700	13,400	13,000	80
85							12,800	12,700	12,400	12,000	11,700	85
90							11,600	11,500	11,200	10,800	10,500	90
95								10,400	10,100	9,700	9,400	95
100								9,400	9,100	8,700	8,400	100
105								6,300	8,200	7,900	7,600	105
110									7,400	7,100	6,800	110
115										6,400	6,100	115
120										5,800	5,500	120
125											4,900	125
130											4,400	130

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

Fly Attachment Lift Capacity Charts – Optional

19,200 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

140 ft Main Boom Length 2° Fly Offset					140 ft Main Boom Length 15° Fly Offset				
Radius (ft)	Fly Length (ft)				Radius (ft)	Fly Length (ft)			
	35	58	74	90		35	58	74	90
35	12,100				35				
40	12,100				40				
45	12,100	8,500			45	11,500			
50	12,100	8,400	6,600		50	11,400			
55	12,100	8,300	6,600	5,200	55	11,200			
60	12,100	8,100	6,600	5,200	60	11,000	7,200		
65	11,900	8,000	6,600	5,200	65	10,800	7,000	6,300	
70	11,700	7,800	6,600	5,200	70	10,600	6,800	6,000	4,800
75	11,500	7,700	6,600	5,100	75	10,400	6,700	5,700	4,500
80	10,900	7,500	6,400	4,800	80	10,200	6,500	5,400	4,200
85	9,600	7,300	6,000	4,500	85	10,000	6,300	5,100	4,000
90	8,500	7,100	5,700	4,200	90	9,100	6,200	4,900	3,700
95	7,600	6,900	5,400	4,000	95	8,100	6,000	4,600	3,500
100	6,700	6,700	5,100	3,700	100	7,200	5,900	4,400	3,300
105	6,000	6,400	4,900	3,500	105	6,400	5,700	4,200	3,100
110	5,300	5,700	4,700	3,300	110	5,700	5,600	4,100	3,000
115	4,700	5,100	4,500	3,200	115	5,000	5,500	3,900	2,800
120	4,100	4,500	4,300	3,000	120	4,400	5,100	3,700	2,700
125	3,600	4,000	3,900	2,800	125	3,900	4,500	3,600	2,500
130	3,100	3,600	3,500	2,700	130	3,400	4,000	3,500	2,400
135	2,700	3,100	3,000	2,500	135	3,000	3,600	3,300	2,300
140	2,300	2,700	2,600	2,400	140	2,500	3,100	3,000	2,200
145	2,000	2,400	2,300	2,200	145	2,200	2,700	2,600	2,100
150	1,700	2,000	1,900	1,900	150	1,800	2,400	2,200	2,000
155	1,400	1,700	1,600	1,600	155	1,500	2,000	1,900	1,900
160	1,100	1,400	1,300	1,300	160	1,200	1,700	1,600	1,600
165	800	1,200	1,000	1,000	165	900	1,400	1,300	1,300
170		900			170		1,100	1,000	1,000

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

19,200 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

140 ft Main Boom Length 30° Fly Offset					140 ft Main Boom Length 45° Fly Offset				
Radius (ft)	Fly Length (ft)				Radius (ft)	Fly Length (ft)			
	35	58	74	90		35	58	74	90
40					40				
45					45				
50					50				
55	10,000				55				
60	9,800				60				
65	9,700				65	8,800			
70	9,500				70	8,800			
75	9,400	5,700	4,600		75	8,700			
80	9,200	5,600	4,400	3,600	80	8,600			
85	9,100	5,500	4,200	3,400	85	8,600	4,900	3,700	
90	9,000	5,400	4,100	3,200	90	8,500	4,900	3,500	2,900
95	8,500	5,300	3,900	3,000	95	8,400	4,800	3,400	2,700
100	7,600	5,200	3,700	2,900	100	7,900	4,800	3,300	2,600
105	6,800	5,100	3,600	2,700	105	7,000	4,700	3,200	2,400
110	6,000	5,000	3,500	2,600	110	6,200	4,700	3,100	2,300
115	5,300	4,900	3,300	2,400	115	5,500	4,700	3,000	2,200
120	4,700	4,800	3,200	2,300	120	4,900	4,600	2,900	2,100
125	4,100	4,700	3,100	2,200	125	4,300	4,500	2,800	2,000
130	3,600	4,500	3,000	2,100	130	3,700	4,400	2,700	1,900
135	3,100	4,000	2,900	2,000	135	3,200	4,300	2,700	1,800
140	2,700	3,500	2,800	1,900	140		3,700	2,600	1,800
145	2,300	3,100	2,800	1,800	145		3,300	2,600	1,700
150	1,900	2,700	2,600	1,700	150		2,800	2,500	1,600
155	1,500	2,300	2,200	1,700	155		2,400	2,400	1,600
160		1,900	1,900	1,600	160		2,000	2,100	1,500
165		1,600	1,500	1,500	165			1,700	1,500
170		1,300	1,200	1,300	170			1,300	1,400
175		900	900	1,000	175				1,100

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

28,800 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

140 ft Main Boom Length 2° Fly Offset					140 ft Main Boom Length 15° Fly Offset				
Radius (ft)	Fly Length (ft)				Radius (ft)	Fly Length (ft)			
	35	58	74	90		35	58	74	90
35	12,100				35				
40	12,100				40				
45	12,100	8,500			45	11,500			
50	12,100	8,400	6,600		50	11,400			
55	12,100	8,300	6,600	5,200	55	11,200			
60	12,100	8,100	6,600	5,200	60	11,000	7,200		
65	11,900	8,000	6,600	5,200	65	10,800	7,000	6,300	
70	11,700	7,800	6,600	5,200	70	10,600	6,800	6,000	4,800
75	11,500	7,700	6,600	5,100	75	10,400	6,700	5,700	4,500
80	11,300	7,500	6,400	4,800	80	10,200	6,500	5,400	4,200
85	11,000	7,300	6,000	4,500	85	10,000	6,300	5,100	4,000
90	10,500	7,100	5,700	4,200	90	9,700	6,200	4,900	3,700
95	10,000	6,900	5,400	4,000	95	9,400	6,000	4,600	3,500
100	9,000	6,700	5,100	3,700	100	9,000	5,900	4,400	3,300
105	8,100	6,500	4,900	3,500	105	8,500	5,700	4,200	3,100
110	7,300	6,300	4,700	3,300	110	7,700	5,600	4,100	3,000
115	6,600	6,000	4,500	3,200	115	7,000	5,500	3,900	2,800
120	6,000	5,800	4,300	3,000	120	6,300	5,300	3,700	2,700
125	5,400	5,600	4,100	2,800	125	5,700	5,100	3,600	2,500
130	4,800	5,300	3,900	2,700	130	5,100	4,900	3,500	2,400
135	4,400	4,800	3,800	2,500	135	4,600	4,700	3,300	2,300
140	3,900	4,300	3,600	2,400	140	4,100	4,600	3,200	2,200
145	3,500	3,900	3,500	2,300	145	3,700	4,200	3,100	2,100
150	3,100	3,500	3,400	2,200	150	3,300	3,800	3,000	2,000
155	2,700	3,100	3,000	2,100	155	2,900	3,400	2,900	1,900
160	2,400	2,800	2,600	2,000	160	2,500	3,100	2,800	1,800
165	2,100	2,500	2,300	1,900	165	2,200	2,700	2,600	1,700
170		2,200	2,000	1,800	170		2,400	2,300	1,600
175		1,900	1,800	1,700	175		2,100	2,000	1,600
180		1,700	1,500	1,500	180		1,800	1,700	1,500
185		1,400	1,200	1,200	185		1,500	1,400	1,400
190		1,200	1,000	1,000	190			1,200	1,200
195					195			900	900

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

28,800 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

140 ft Main Boom Length 30° Fly Offset					140 ft Main Boom Length 45° Fly Offset				
Radius (ft)	Fly Length (ft)				Radius (ft)	Fly Length (ft)			
	35	58	74	90		35	58	74	90
40					40				
45					45				
50					50				
55	10,000				55				
60	9,800				60				
65	9,700				65	8,800			
70	9,500				70	8,800			
75	9,400	5,700	4,600		75	8,700			
80	9,200	5,600	4,400	3,600	80	8,600			
85	9,100	5,500	4,200	3,400	85	8,600	4,900	3,700	
90	9,000	5,400	4,100	3,200	90	8,500	4,900	3,500	2,900
95	8,800	5,300	3,900	3,000	95	8,400	4,800	3,400	2,700
100	8,500	5,200	3,700	2,900	100	8,200	4,800	3,300	2,600
105	8,200	5,100	3,600	2,700	105	8,000	4,700	3,200	2,400
110	8,000	5,000	3,500	2,600	110	7,700	4,700	3,100	2,300
115	7,300	4,900	3,300	2,400	115	7,500	4,700	3,000	2,200
120	6,600	4,800	3,200	2,300	120	6,700	4,600	2,900	2,100
125	5,900	4,700	3,100	2,200	125	6,000	4,500	2,800	2,000
130	5,300	4,500	3,000	2,100	130	5,400	4,400	2,700	1,900
135	4,800	4,400	2,900	2,000	135	4,800	4,300	2,700	1,800
140	4,300	4,300	2,800	1,900	140		4,200	2,600	1,800
145	3,800	4,200	2,800	1,800	145		4,100	2,600	1,700
150	3,300	4,100	2,700	1,700	150		4,000	2,500	1,600
155	2,900	3,700	2,600	1,700	155		3,800	2,500	1,600
160		3,300	2,600	1,600	160		3,300	2,500	1,500
165		2,900	2,500	1,500	165		2,900	2,500	1,500
170		2,500	2,500	1,500	170			2,500	1,400
175		2,200	2,200	1,400	175			2,200	1,400
180		1,800	1,800	1,400	180				1,400
185			1,500	1,400	185				1,400
190			1,300	1,300	190				1,400
195			1,000	1,100	195				

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

Main Boom Lift Capacity Charts – Metric

8 710kg Counterweight -- Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)											Radius (m)
	11.58	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.67	
2.5	80 000											2.5
3	72 550	69 500	53 450	32 100								3
3.5	64 300	64 250	50 350	32 100								3.5
4	57 150	58 050	48 900	32 100	37 400							4
4.5	50 500	51 500	48 350	32 100	35 750	24 550						4.5
5	45 150	46 150	46 300	32 000	35 250	24 550						5
6	37 000	38 000	38 200	29 050	34 700	23 800	22 250	12 350				6
7	31 050	32 100	32 300	26 450	32 050	21 800	21 150	12 350				7
8	26 550	27 600	27 850	24 000	27 650	20 100	20 100	16 400	12 750	12 150		8
9	23 000	24 050	24 300	21 950	24 100	18 600	19 350	16 250	12 750	12 000	11 050	9
10		20 350	20 900	20 300	20 300	17 300	18 100	16 100	12 750	11 900	10 950	10
12		14 700	14 900	15 050	15 100	15 100	14 900	14 600	12 750	11 800	10 850	12
14			11 250	11 400	11 450	11 450	11 250	11 550	11 700	11 650	10 750	14
16			9 250	9 600	9 750	9 300	9 800	9 750	9 550	9 350	9 200	16
18				7 750	7 950	8 050	7 950	7 900	7 750	7 550	7 400	18
20					6 600	6 650	6 600	6 550	6 400	6 200	6 050	20
22					5 500	5 600	5 550	5 500	5 350	5 200	5 050	22
24						4 750	4 700	4 650	4 500	4 350	4 200	24
26							4 000	3 950	3 800	3 650	3 500	26
28							3 400	3 350	3 200	3 050	2 900	28
30								2 850	2 700	2 550	2 400	30
32								1 400	2 300	2 150	2 000	32
34										1 750	1 650	34
36										1 450	1 300	36
38											1 000	38
40											750	40

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

8 710kg Counterweight -- On Tires -- Stationary -- Boom Centered Over Front Between Tire Tracks
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)								Radius (m)
	11.58	15.2	18.3	21.3	24.4	27.4	30.5	33.5	
4.5	25 100								4.5
5	23 150								5
6	19 900								6
7	17 050	18 450							7
8	13 250	14 800							8
9	10 550	12 000	12 700						9
10		9 950	10 650	10 950					10
12		7 050	7 750	8 100	8 250				12
14			5 800	6 150	6 350	6 400			14
16			4 450	4 800	5 000	5 100	5 050		16
18				3 750	3 950	4 050	4 050	4 000	18
20					3 150	3 250	3 200	3 200	20
22					2 500	2 600	2 600	2 550	22
24						2 100	2 050	2 050	24
26							1 650	1 600	26
28							1 250	1 250	28
30								950	30

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

8 710kg Counterweight – On Tires – Pick & Carry (Creep) – Boom Centered Over Front
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)								Radius (m)
	11.58	15.2	18.3	21.3	24.4	27.4	30.5	33.5	
4.5	24 000								4.5
5	21 900								5
6	18 450								6
7	15 800	16 850							7
8	13 250	14 700							8
9	10 550	12 000	12 700						9
10		9 950	10 650	10 950					10
12		7 050	7 750	8 100	8 250				12
14			5 800	6 150	6 350	6 400			14
16			4 450	4 800	5 000	5 100	5 050		16
18				3 750	3 950	4 050	4 050	4 000	18
20					3 150	3 250	3 200	3 200	20
22					2 500	2 600	2 600	2 550	22
24						2 100	2 050	2 050	24
26							1 650	1 600	26
28							1 250	1 250	28
30								950	30

8 710kg Counterweight – On Tires – Stationary – 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)								Radius (m)
	11.58	15.2	18.3	21.3	24.4	27.4	30.5	33.5	
5	12 700								5
6	9 100								6
7	6 700	8 050							7
8	4 950	6 250	6 950						8
9	3 650	4 950	5 600						9
10		3 950	4 600	4 900					10
12		2 450	3 100	3 400	3 600				12
14			2 050	2 350	2 550	2 600			14
16			1 300	1 600	1 750	1 850	1 850	1 800	16
18				1 000	1 150	1 250	1 250	1 200	18
20					700	800	800	750	20

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

13 065kg Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)											Radius (m)
	11.58	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.67	
2.5	80 000											2.5
3	72 550	69 500	53 450	32 100								3
3.5	65 050	64 250	50 350	32 100								3.5
4	59 750	59 850	48 900	32 100	37 400							4
4.5	53 650	54 600	48 350	32 100	35 750	24 550						4.5
5	48 000	48 950	47 000	32 000	35 250	24 550						5
6	39 400	40 400	40 550	29 050	34 700	23 800	22 250	12 350				6
7	33 100	34 150	34 350	26 450	34 100	21 800	21 150	12 350				7
8	28 350	29 400	29 600	24 000	29 400	20 100	20 100	16 400	12 750	12 150		8
9	24 600	25 650	25 900	21 950	25 700	18 600	19 350	16 250	12 750	12 000	11 050	9
10		22 650	22 950	20 300	22 750	17 300	18 100	16 100	12 750	11 900	10 950	10
12		17 800	18 000	17 500	17 450	15 150	16 000	15 200	12 750	11 800	10 850	12
14			13 750	13 900	13 950	13 400	13 750	13 500	11 700	11 650	10 750	14
16			10 800	11 050	11 100	11 100	10 900	10 650	10 500	11 050	10 700	16
18				8 900	9 100	9 000	9 150	9 350	9 550	9 400	9 200	18
20					8 150	7 700	8 200	8 150	8 000	7 800	7 650	20
22					6 900	7 000	6 950	6 900	6 750	6 550	6 400	22
24						6 000	5 950	5 900	5 750	5 600	5 450	24
26							5 150	5 100	4 950	4 800	4 650	26
28							4 450	4 450	4 300	4 150	4 000	28
30								3 850	3 700	3 550	3 400	30
32								2 350	3 200	3 050	2 900	32
34									2 800	2 600	2 500	34
36										2 250	2 100	36
38											1 800	38
40											1 500	40

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

Fly Attachment Lift Capacity Charts – Optional

8 710kg Counterweight -- Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

42.67m Main Boom Length 2° Fly Offset					42.67m Main Boom Length 15° Fly Offset				
Radius (m)	Fly Length (m)				Radius (m)	Fly Length (m)			
	10.67	17.68	22.56	27.43		10.67	17.68	22.56	27.43
12	5 500				12				
14	5 500	3 850			14	5 200			
16	5 500	3 750	3 000		16	5 100			
18	5 500	3 700	3 000	2 350	18	5 000	3 300		
20	5 400	3 600	3 000	2 350	20	4 900	3 150	2 850	
22	5 300	3 500	3 000	2 350	22	4 750	3 050	2 650	2 100
24	4 500	3 400	2 950	2 200	24	4 650	2 950	2 450	1 950
26	3 750	3 300	2 700	2 050	26	4 050	2 850	2 300	1 800
28	3 150	3 200	2 550	1 850	28	3 400	2 750	2 150	1 650
30	2 650	2 900	2 350	1 750	30	2 900	2 700	2 050	1 550
32	2 250	2 450	2 200	1 600	32	2 400	2 600	1 900	1 400
34	1 850	2 050	2 000	1 500	34	2 050	2 350	1 800	1 300
36	1 550	1 750	1 700	1 400	36	1 700	2 000	1 700	1 250
38	1 250	1 450	1 400	1 300	38	1 400	1 700	1 600	1 150
40	1 000	1 200	1 100	1 100	40	1 100	1 400	1 300	1 050
42	750	950	900	900	42	850	1 150	1 050	1 000
44	550	750	700	650	44	650	900	850	850
46		550	500	500	46	450	700	650	650
48		400			48		500	450	450

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

8 710kg Counterweight -- Fully Extended Outriggers -- 360° Rotation
(All Capacities Are Listed In Kilograms)

42.67m Main Boom Length 30° Fly Offset					42.67m Main Boom Length 45° Fly Offset				
Radius (m)	Fly Length (m)				Radius (m)	Fly Length (m)			
	10.67	17.68	22.56	27.43		10.67	17.68	22.56	27.43
18	4 450				18				
20	4 350				20	3 950			
22	4 300				22	3 950			
24	4 200	2 550	2 050	1 650	24	3 900			
26	4 100	2 500	1 900	1 550	26	3 900	2 250	1 650	
28	3 650	2 400	1 800	1 400	28	3 850	2 200	1 550	1 250
30	3 100	2 350	1 700	1 300	30	3 250	2 150	1 500	1 200
32	2 600	2 300	1 600	1 250	32	2 750	2 150	1 450	1 100
34	2 200	2 250	1 550	1 150	34	2 300	2 100	1 400	1 050
36	1 800	2 200	1 450	1 050	36	1 900	2 100	1 350	950
38	1 500	1 900	1 400	1 000	38	1 550	2 050	1 300	900
40	1 200	1 600	1 350	950	40	1 250	1 750	1 250	850
42	950	1 300	1 300	900	42		1 450	1 200	800
44	700	1 050	1 050	850	44		1 150	1 150	750
46	500	850	800	800	46		900	900	750
48		600	600	600	48		650	700	700
50		400	400	450	50			450	500

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

13 065kg Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

42.67m Main Boom Length 2° Fly Offset					42.67m Main Boom Length 15° Fly Offset				
Radius (m)	Fly Length (m)				Radius (m)	Fly Length (m)			
	10.67	17.68	22.56	27.43		10.67	17.68	22.56	27.43
12	5 500				12				
14	5 500	3 850			14	5 200			
16	5 500	3 750	3 000		16	5 100			
18	5 500	3 700	3 000	2 350	18	5 000	3 300		
20	5 400	3 600	3 000	2 350	20	4 900	3 150	2 850	
22	5 300	3 500	3 000	2 350	22	4 750	3 050	2 650	2 100
24	5 150	3 400	2 950	2 200	24	4 650	2 950	2 450	1 950
26	4 950	3 300	2 700	2 050	26	4 550	2 850	2 300	1 800
28	4 250	3 200	2 550	1 850	28	4 350	2 750	2 150	1 650
30	3 650	3 100	2 350	1 750	30	3 850	2 700	2 050	1 550
32	3 150	2 950	2 200	1 600	32	3 350	2 600	1 900	1 400
34	2 700	2 800	2 100	1 500	34	2 900	2 550	1 800	1 300
36	2 350	2 550	1 950	1 400	36	2 500	2 400	1 700	1 250
38	2 000	2 200	1 850	1 300	38	2 150	2 300	1 650	1 150
40	1 700	1 900	1 750	1 200	40	1 800	2 100	1 550	1 050
42	1 450	1 650	1 550	1 100	42	1 550	1 800	1 500	1 000
44	1 200	1 400	1 300	1 050	44	1 300	1 550	1 400	950
46	1 000	1 150	1 100	1 000	46	1 050	1 300	1 250	900
48	800	950	900	900	48	850	1 100	1 050	850
50	650	800	700	700	50	650	900	850	800
52		600	550	550	52		700	650	650
54		450	400		54		550	500	500

This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

13 065kg Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

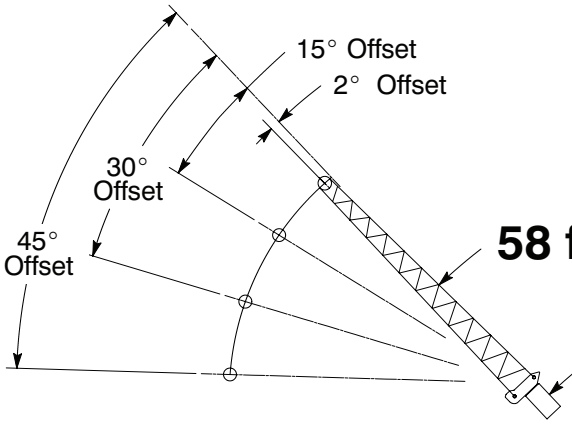
42.67m Main Boom Length 30° Fly Offset					42.67m Main Boom Length 45° Fly Offset				
Radius (m)	Fly Length (m)				Radius (m)	Fly Length (m)			
	10.67	17.68	22.56	27.43		10.67	17.68	22.56	27.43
18	4 450				18				
20	4 350				20	3 950			
22	4 300				22	3 950			
24	4 200	2 550	2 050	1 650	24	3 900			
26	4 100	2 500	1 900	1 550	26	3 900	2 250	1 650	
28	4 050	2 400	1 800	1 400	28	3 850	2 200	1 550	1 250
30	3 900	2 350	1 700	1 300	30	3 750	2 150	1 500	1 200
32	3 550	2 300	1 600	1 250	32	3 600	2 150	1 450	1 100
34	3 050	2 250	1 550	1 150	34	3 150	2 100	1 400	1 050
36	2 650	2 200	1 450	1 050	36	2 700	2 100	1 350	950
38	2 250	2 150	1 400	1 000	38	2 300	2 050	1 300	900
40	1 900	2 050	1 350	950	40	1 950	1 950	1 250	850
42	1 600	1 950	1 300	900	42		1 900	1 200	800
44	1 350	1 700	1 250	850	44		1 800	1 150	750
46	1 100	1 450	1 200	800	46		1 500	1 150	750
48		1 200	1 200	750	48		1 250	1 150	700
50		1 000	950	700	50			1 050	650
52		750	750	650	52			800	650
54		600	600	600	54				600
56			400	450	56				450

This information is not for crane operation. Operator must refer to the in – cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

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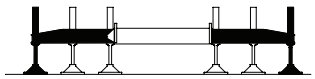
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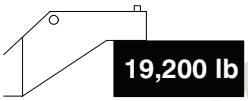
58 ft Offset Fly

140 ft Main Boom

Rated Lifting Capacities In Pounds



Full

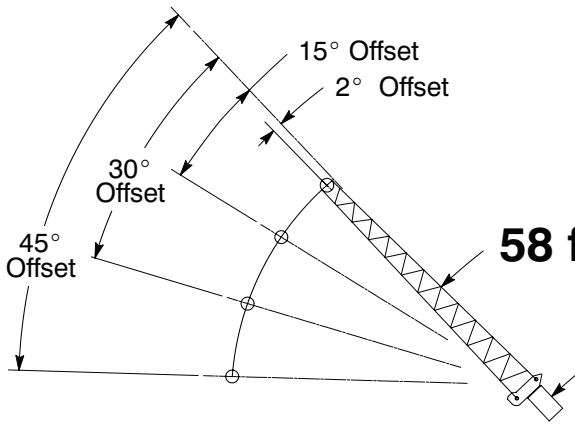


EM 1

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100	80.0	7,200				
65	75.0	8,000	78.5	7,000				
70	73.5	7,800	77.0	6,800				
75	72.5	7,700	76.0	6,700	79.5	5,700		
80	71.0	7,500	74.5	6,500	78.0	5,600		
85	69.5	7,300	73.0	6,300	76.5	5,500	80.0	4,900
90	68.0	7,100	71.5	6,200	75.0	5,400	78.0	4,900
95	66.5	6,900	70.0	6,000	73.5	5,300	76.5	4,800
100	65.0	6,700	68.5	5,900	72.0	5,200	75.0	4,800
105	63.5	6,400	67.0	5,700	70.5	5,100	73.5	4,700
110	61.5	5,700	65.5	5,600	68.5	5,000	71.5	4,700
115	59.5	5,100	63.5	5,500	67.0	4,900	69.5	4,700
120	57.5	4,500	61.5	5,100	65.0	4,800	68.0	4,600
125	55.0	4,000	59.5	4,500	63.5	4,700	66.0	4,500
130	53.0	3,600	57.5	4,000	61.5	4,500	63.5	4,400
135	51.0	3,100	55.0	3,600	59.0	4,000	61.5	4,300
140	48.5	2,700	52.5	3,100	56.5	3,500	59.0	3,700
145	46.5	2,400	50.5	2,700	54.0	3,100	56.0	3,300
150	44.0	2,000	48.0	2,400	51.0	2,700	53.0	2,800
155	41.5	1,700	45.5	2,000	48.5	2,300	50.0	2,400
160	39.0	1,400	42.5	1,700	45.5	1,900	46.5	2,000
165	36.0	1,200	39.5	1,400	42.5	1,600		
170	33.0	900	36.5	1,100	39.0	1,300		
175					35.0	900		
Min.Bm. Ang./Cap.	31.5		34.5		30.0		34.5	
Radius (ft)	172.5		173.3		179.9		173.6	
Maximum Boom Length At 0° Boom Angle (ft)	132							

For sale/use only

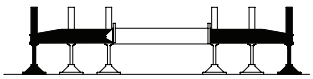
Not for crane operations



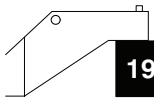
58 ft Offset Fly

115.8 ft Main Boom

Rated Lifting Capacities In Pounds



Full



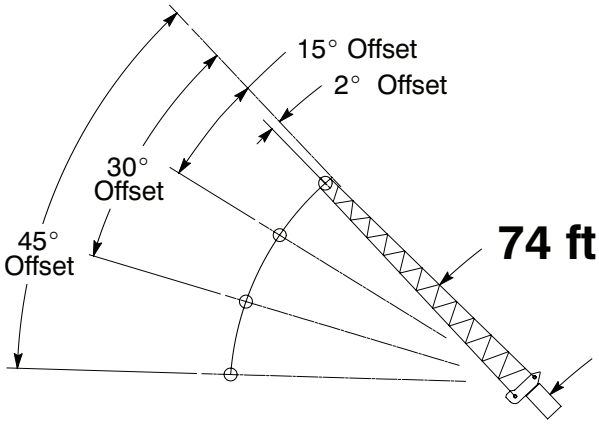
19,200 lb

EM 2

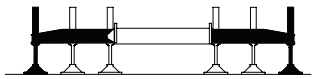
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300	79.5	8,400				
55	74.0	9,800	78.0	8,000				
60	72.5	9,400	76.5	7,700				
65	70.5	9,000	74.5	7,400	79.0	6,200		
70	69.0	8,600	73.0	7,100	77.5	6,000		
75	67.5	8,200	71.5	6,900	75.5	5,800	79.5	5,200
80	65.5	7,900	69.5	6,600	73.5	5,700	77.5	5,100
85	63.5	7,500	67.5	6,400	72.0	5,500	75.5	5,000
90	62.0	7,200	66.0	6,200	70.0	5,400	73.5	4,900
95	60.0	7,000	64.0	6,000	68.0	5,300	71.5	4,900
100	58.0	6,700	62.0	5,900	66.0	5,200	69.0	4,800
105	55.5	6,100	60.0	5,700	64.0	5,100	67.0	4,800
110	53.5	5,400	58.0	5,500	61.5	5,000	64.5	4,700
115	51.0	4,700	55.5	5,300	59.5	4,900	62.5	4,700
120	48.5	4,200	53.0	4,700	57.0	4,900	60.0	4,700
125	46.0	3,700	50.5	4,100	54.5	4,600	57.0	4,700
130	43.5	3,200	47.5	3,600	51.5	4,000	54.0	4,200
135	40.5	2,800	45.0	3,200	48.5	3,500	50.5	3,700
140	37.5	2,400	41.5	2,700	45.0	3,000	46.5	3,100
145	34.5	2,000	38.5	2,300	41.5	2,500		
150	31.0	1,700	34.5	1,900	37.0	2,100		
155	27.0	1,400	30.5	1,600	32.0	1,700		
160	22.0	1,100	25.5	1,200				
165	14.5	900	17.0	900				
Min.Bm. Ang./Cap.	7.5		7.5		10.5		15.0	
Radius (ft)	166.8		165.2		162.6		156.6	
Maximum Boom Length At 0° Boom Angle (ft)	114							

For Sale use only

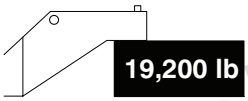
Not for crane operations



Rated Lifting Capacities In Pounds



Full

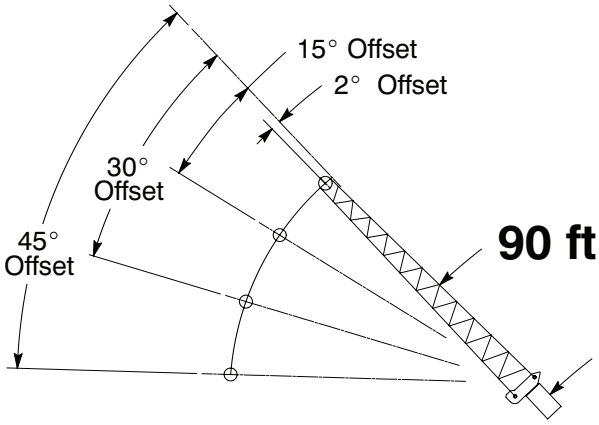


19,200 lb

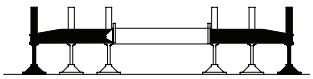
EM 1

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
50	79.0	6,600						
55	78.0	6,600						
60	77.0	6,600						
65	76.0	6,600	79.0	6,300				
70	75.0	6,600	77.5	6,000				
75	73.5	6,600	76.5	5,700	79.5	4,600		
80	72.5	6,400	75.0	5,400	78.0	4,400		
85	71.0	6,000	73.5	5,100	77.0	4,200	80.0	3,700
90	69.5	5,700	72.0	4,900	75.5	4,100	78.5	3,500
95	68.0	5,400	70.5	4,600	74.0	3,900	77.0	3,400
100	66.5	5,100	69.5	4,400	72.5	3,700	75.5	3,300
105	65.5	4,900	68.0	4,200	71.0	3,600	74.0	3,200
110	64.0	4,700	66.5	4,100	69.5	3,500	72.0	3,100
115	62.5	4,500	65.0	3,900	68.0	3,300	70.5	3,000
120	60.5	4,300	63.5	3,700	66.5	3,200	69.0	2,900
125	59.0	3,900	61.5	3,600	65.0	3,100	67.5	2,800
130	57.0	3,500	60.0	3,500	63.0	3,000	65.5	2,700
135	55.0	3,000	58.5	3,300	61.5	2,900	64.0	2,700
140	53.0	2,600	56.5	3,000	59.5	2,800	62.0	2,600
145	51.0	2,300	54.5	2,600	58.0	2,800	60.0	2,600
150	49.0	1,900	52.5	2,200	56.0	2,600	58.0	2,500
155	47.0	1,600	50.0	1,900	53.5	2,200	56.0	2,400
160	45.0	1,300	48.0	1,600	51.5	1,900	53.0	2,100
165	42.5	1,000	45.5	1,300	49.0	1,500	50.5	1,700
170			43.5	1,000	46.5	1,200	47.5	1,300
175					43.5	900		
Min.Bm. Ang./Cap.	41.5		42.5		42.5		43.5	
Radius (ft)	167.5		171.7		177.5		176.7	
Maximum Boom Length At 0˚ Boom Angle (ft)	122							

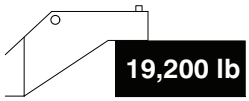
For sale/lease only
Not for crane operations



Rated Lifting Capacities In Pounds



Full

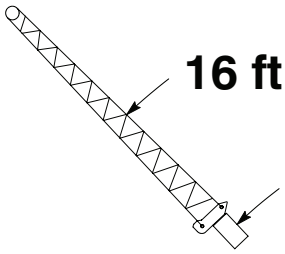


19,200 lb

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
55	79.0	5,200						
60	78.0	5,200						
65	77.5	5,200						
70	76.5	5,200	79.0	4,800				
75	75.5	5,100	78.0	4,500				
80	74.0	4,800	76.5	4,200	79.5	3,600		
85	73.0	4,500	75.5	4,000	78.5	3,400		
90	71.5	4,200	74.0	3,700	77.0	3,200	80.0	2,900
95	70.0	4,000	72.5	3,500	76.0	3,000	78.5	2,700
100	69.0	3,700	71.5	3,300	74.5	2,900	77.0	2,600
105	67.5	3,500	70.0	3,100	73.0	2,700	76.0	2,400
110	66.0	3,300	68.5	3,000	72.0	2,600	74.5	2,300
115	65.0	3,200	67.5	2,800	70.5	2,400	73.0	2,200
120	63.5	3,000	66.0	2,700	69.0	2,300	71.5	2,100
125	62.0	2,800	64.5	2,500	67.5	2,200	70.0	2,000
130	60.5	2,700	63.0	2,400	66.0	2,100	68.5	1,900
135	59.0	2,500	61.5	2,300	64.5	2,000	67.0	1,800
140	57.5	2,400	60.0	2,200	63.0	1,900	65.5	1,800
145	56.0	2,200	58.5	2,100	61.5	1,800	63.5	1,700
150	54.0	1,900	57.0	2,000	60.0	1,700	62.0	1,600
155	52.5	1,600	55.5	1,900	58.0	1,700	60.0	1,600
160	50.5	1,300	53.5	1,600	56.5	1,600	58.5	1,500
165	48.5	1,000	51.5	1,300	54.5	1,500	56.5	1,500
170			49.5	1,000	52.5	1,300	54.5	1,400
175					50.5	1,000	52.0	1,100
Min.Bm. Ang./Cap.	47.5		48.5		49.5		50.5	
Radius (ft)	166.7		171.7		176.7		178.3	
Maximum Boom Length At 0° Boom Angle (ft)	110							

For Sale use only

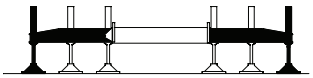
Not for crane operations



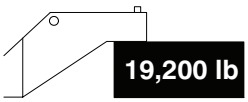
16 ft Fly Extension

140 ft Main Boom

Rated Lifting Capacities In Pounds



Full



EM 1

Load Radius In (ft)	∠°	360°
35	78.0	15,600
40	77.5	15,600
45	76.0	15,600
50	74.5	15,600
55	72.5	15,600
60	70.5	15,600
65	68.0	15,200
70	65.5	13,300
75	63.5	11,700
80	61.0	10,300
85	58.5	9,100
90	56.0	8,000
95	53.5	7,100
100	51.0	6,200
105	48.0	5,500
110	45.5	4,800
115	42.5	4,200
120	39.0	3,700
125	36.0	3,200
130	32.0	2,700
135	28.0	2,300
140	23.0	2,000
145	16.5	1,600
Min.Bm. Ang./Cap.	0.0	1,100
Radius (ft)	149.0	

For sales use only

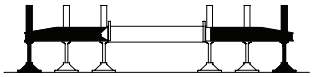
Not for crane operations

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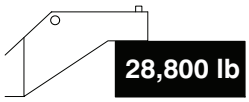
For sales use only

Not for crane operations

Rated Lifting Capacities
In Pounds



Full



EM 1

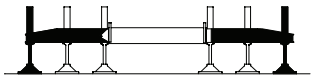
Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front
8	71.5	180,000	180,000						
10	68.0	160,000	160,000	74.0	80,400	80,400	77.0	58,000	58,000
12	64.5	139,600	139,600	71.5	75,000	75,000	75.0	53,700	53,700
15	59.5	116,300	116,300	67.5	68,000	68,000	72.0	48,400	48,400
20	49.5	85,300	85,300	61.0	59,000	59,000	67.0	41,300	41,300
25	37.5	66,200	66,200	54.0	52,200	52,200	61.5	36,100	36,100
30	18.5	53,200	53,200	46.0	46,900	46,900	55.5	32,000	32,000
35				37.0	42,700	42,700	49.0	28,700	28,700
40				24.0	39,600	39,600	42.0	26,100	26,100
45							33.5	23,900	23,900
50							22.0	22,100	22,100
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	18,200	18,200	0.0	12,900	12,900
Radius (ft)	31.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front
10	79.5	55,900	55,900						
12	77.5	52,300	52,300	79.5	41,800	41,800			
15	75.0	47,500	47,500	77.5	41,800	41,800	79.0	33,500	33,500
20	71.0	41,100	41,100	74.0	41,800	41,800	76.0	33,500	33,500
25	66.5	36,300	36,300	70.0	37,900	37,900	73.0	33,500	33,500
30	61.5	32,400	32,400	66.0	33,900	33,900	69.5	31,400	31,400
35	56.5	29,200	29,200	62.0	30,400	30,400	66.0	28,100	28,100
40	51.5	26,600	26,600	58.0	27,500	27,500	62.5	25,500	25,500
45	45.5	24,400	24,400	53.5	25,100	25,100	58.5	23,300	23,300
50	39.0	22,600	22,600	48.5	23,100	23,100	54.5	21,400	21,400
55	31.5	20,800	20,800	43.0	21,300	21,300	50.5	19,800	19,800
60	20.5	19,300	19,300	37.0	19,800	19,800	46.0	18,300	18,300
65				29.5	18,500	18,500	41.0	17,100	17,100
70				19.5	17,300	17,300	35.0	16,000	16,000
75							28.5	14,900	14,900
80							19.0	14,100	14,100
Min.Bm. Ang./Cap.	0.0	10,700	10,700	0.0	9,200	9,200	0.0	7,900	7,900
Radius (ft)	63.0			73.0			83.0		

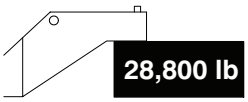
For sales use on

Not for crane operations

Rated Lifting Capacities In Pounds



Full



EM 1

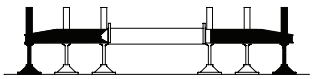
Load Radius (ft)	100.0 ft			110.0 ft			120.0 ft		
	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front
20	77.5	32,100	32,100	79.0	27,200	27,200			
25	75.0	32,100	32,100	76.5	27,200	27,200	78.0	28,000	28,000
30	72.0	32,100	32,100	74.0	27,200	27,200	76.0	28,000	28,000
35	69.0	29,700	29,700	71.5	27,200	27,200	73.5	28,000	28,000
40	66.0	27,100	27,100	69.0	27,200	27,200	71.5	28,000	28,000
45	62.5	24,900	24,900	66.0	25,800	25,800	69.0	26,100	26,100
50	59.5	23,000	23,000	63.0	23,800	23,800	66.5	24,100	24,100
55	56.0	21,300	21,300	60.0	21,900	21,900	63.5	22,300	22,300
60	52.0	19,900	19,900	57.0	20,300	20,300	61.0	20,700	20,700
65	48.0	18,600	18,600	53.5	18,900	18,900	58.0	19,300	19,300
70	44.0	17,500	17,500	50.0	17,700	17,700	54.5	17,400	17,600
75	39.0	15,900	16,100	46.0	15,700	16,000	51.5	15,400	15,700
80	33.5	14,200	14,500	42.0	14,100	14,300	48.0	13,700	14,000
85	27.0	12,800	13,000	37.5	12,700	12,900	44.0	12,400	12,700
90	18.0	11,600	11,800	32.0	11,500	11,700	40.0	11,200	11,400
95				26.0	10,400	10,600	36.0	10,100	10,300
100				17.5	9,400	9,600	31.0	9,100	9,300
105							25.0	8,200	8,400
110							16.5	7,400	7,600
Min.Bm. Ang./Cap.	0.0	6,600	6,600	0.0	5,500	5,500	0.0	4,300	4,300
Radius (ft)		93.0			103.0			113.0	

Load Radius (ft)	130.0 ft			140.0 ft		
	∠°	360°	Over Front	∠°	360°	Over Front
25	79.5	26,900	26,900			
30	77.5	26,500	26,500	78.5	24,400	24,400
35	75.5	26,300	26,300	77.0	24,100	24,100
40	73.5	26,100	26,100	75.0	24,000	24,000
45	71.5	25,900	25,900	73.5	23,800	23,800
50	69.0	25,200	25,200	71.5	23,700	23,700
55	67.0	23,500	23,500	69.5	23,600	23,600
60	64.5	21,900	21,900	67.5	21,700	22,000
65	61.5	19,300	19,600	64.5	18,900	19,200
70	58.5	17,000	17,200	62.0	16,600	16,900
75	55.5	15,000	15,300	59.5	14,700	14,900
80	52.5	13,400	13,600	56.5	13,000	13,300
85	49.5	12,000	12,300	54.0	11,700	12,000
90	46.0	10,800	11,000	51.0	10,500	10,700
95	42.5	9,700	9,900	48.0	9,400	9,600
100	39.0	8,700	9,000	45.0	8,400	8,700
105	34.5	7,900	8,100	41.5	7,600	7,800
110	30.0	7,100	7,300	37.5	6,800	7,000
115	24.0	6,400	6,600	33.5	6,100	6,300
120	16.5	5,800	6,000	29.0	5,500	5,700
125				23.5	4,900	5,100
130				16.0	4,400	4,500
Min.Bm. Ang./Cap.	0.0	3,300	3,300	0.0	2,300	2,300
Radius (ft)		123.0			133.0	

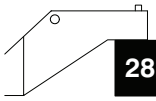
For Sales use only

Not for crane operations

Rated Lifting Capacities
In Pounds



Full



28,800 lb

EM 2

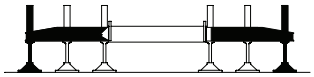
Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front
8	71.5	180,000	180,000									
10	68.0	160,000	160,000	74.0	103,300	103,300	77.0	96,400	96,400	79.0	70,800	70,800
12	64.5	139,600	139,600	71.5	103,300	103,300	75.0	89,500	89,500	77.5	70,800	70,800
15	59.5	116,300	116,300	68.0	103,300	103,300	72.0	79,900	79,900	75.0	70,800	70,800
20	49.5	85,300	85,300	61.0	87,500	87,500	67.0	67,800	67,800	71.0	63,500	63,500
25	37.5	66,200	66,200	54.0	68,400	68,400	61.5	58,800	58,800	66.5	54,800	54,800
30	18.5	53,200	53,200	46.0	55,400	55,400	55.5	51,700	51,700	61.5	47,800	47,800
35				36.5	46,100	46,100	49.5	46,300	46,300	56.5	42,500	42,500
40				24.0	39,000	39,000	42.0	40,100	40,100	51.5	38,100	38,100
45							33.5	34,200	34,400	45.5	34,500	34,500
50							22.0	28,500	28,700	39.0	28,900	29,100
55										31.0	24,600	24,900
60										20.5	21,100	21,400
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	23,000	23,000	0.0	18,200	18,200	0.0	14,500	14,500
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			115.8 ft		
	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front	∠°	360°	Over Front
12	79.5	70,700	70,700									
15	77.5	67,700	67,700	79.0	54,200	54,200						
20	74.0	58,400	58,400	76.0	52,000	52,000	78.0	49,100	49,100			
25	70.0	51,200	51,200	73.0	45,600	45,600	75.0	45,200	45,200	78.0	36,300	36,300
30	66.0	45,500	45,500	69.5	40,600	40,600	72.5	42,200	42,200	76.0	35,900	35,900
35	62.0	40,900	40,900	66.0	36,500	36,500	69.5	38,300	38,300	73.5	35,500	35,500
40	57.5	37,100	37,100	62.5	33,000	33,000	66.0	34,900	34,900	71.0	33,400	33,400
45	53.0	33,800	33,800	58.5	30,100	30,100	63.0	32,100	32,100	68.5	30,300	30,300
50	48.0	28,900	29,200	54.5	27,600	27,600	59.5	28,500	28,800	65.5	27,900	27,900
55	42.5	24,700	25,000	50.0	24,700	25,000	55.5	24,300	24,600	62.5	23,800	24,100
60	36.5	21,200	21,500	45.5	21,300	21,500	52.0	20,900	21,200	59.0	20,400	20,700
65	29.0	18,500	18,700	40.5	18,500	18,800	47.5	18,100	18,400	56.0	17,600	17,900
70	19.0	16,200	16,400	34.5	16,200	16,500	43.5	15,800	16,100	52.5	15,300	15,600
75				28.0	14,300	14,500	38.5	13,900	14,200	49.0	13,400	13,700
80				18.5	12,600	12,900	33.0	12,300	12,600	45.5	11,900	12,100
85							26.5	10,900	11,200	41.5	10,500	10,700
90							17.5	9,600	9,900	37.0	9,200	9,500
95										32.0	8,200	8,400
100										26.0	7,200	7,400
105										18.5	6,300	6,600
Min.Bm. Ang./Cap.	0.0	11,600	11,600	0.0	9,300	9,300	0.0	7,200	7,200	0.0	4,500	4,500
Radius (ft)	73.0			83.0			93.0			108.8		

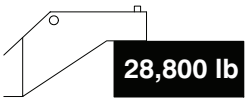
For sales use only

Not for crane operations

Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Full



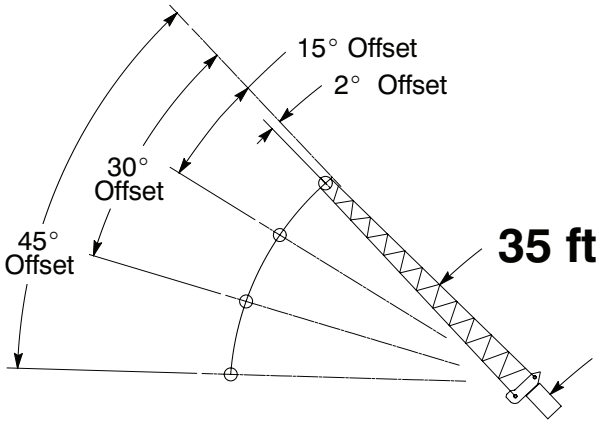
EM 3

Load Radius (ft)	38.0 ft			50.7 ft		
	∠ °	360˚	Over Front	∠ °	360˚	Over Front
8	71.5	180,000	180,000			
10	68.0	160,000	160,000	74.5	152,000	152,000
12	64.5	139,600	139,600	72.0	138,600	138,600
15	59.5	116,300	116,300	68.0	118,400	118,400
20	49.5	85,300	85,300	61.5	87,500	87,500
25	37.5	66,200	66,200	54.5	68,500	68,500
30	18.5	53,200	53,200	47.0	55,500	55,500
35				38.0	46,200	46,200
40				26.0	39,100	39,100
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	22,600	22,600
Radius (ft)	31.0			43.7		

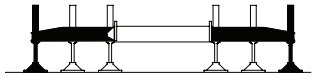
Load Radius (ft)	63.7 ft			76.5 ft		
	∠ °	360˚	Over Front	∠ °	360˚	Over Front
10	78.0	117,900	117,900			
12	76.0	108,800	108,800	79.0	85,100	85,100
15	73.5	106,500	106,500	76.5	78,400	78,400
20	68.5	87,900	87,900	73.0	76,500	76,500
25	63.5	69,000	69,000	69.0	68,500	68,500
30	58.0	56,100	56,100	64.5	55,700	55,700
35	52.0	46,800	46,800	60.0	46,400	46,400
40	46.0	39,700	39,700	55.5	39,300	39,300
45	38.5	33,600	33,800	50.5	33,100	33,300
50	30.0	28,000	28,300	45.0	27,500	27,700
55	16.5	23,700	23,900	39.0	23,200	23,500
60				32.0	19,800	20,100
65				23.0	17,100	17,400
Min.Bm. Ang./Cap.	0.0	16,300	16,300	0.0	11,500	11,500
Radius (ft)	56.7			69.5		

For public use only

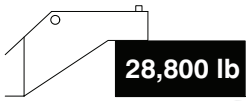
Not for crane operations



Rated Lifting Capacities In Pounds



Full

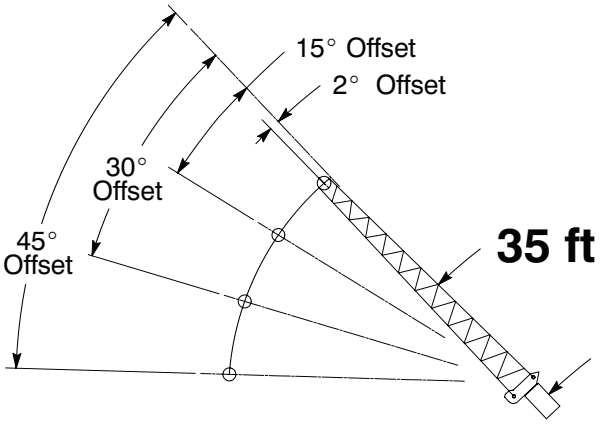


EM 1

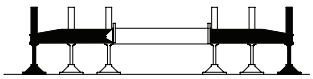
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
35	80.0	12,100						
40	78.5	12,100						
45	77.5	12,100	80.0	11,500				
50	76.0	12,100	78.5	11,400				
55	74.5	12,100	77.0	11,200	79.5	10,000		
60	73.0	12,100	75.5	11,000	78.0	9,800		
65	72.0	11,900	74.0	10,800	76.5	9,700	78.5	8,800
70	70.0	11,700	72.5	10,600	75.0	9,500	77.0	8,800
75	68.5	11,500	71.0	10,400	73.5	9,400	75.0	8,700
80	67.0	11,300	69.5	10,200	71.5	9,200	73.5	8,600
85	65.5	11,000	67.5	10,000	70.0	9,100	71.5	8,600
90	63.5	10,500	66.0	9,700	68.0	9,000	70.0	8,500
95	61.5	10,000	64.0	9,400	66.0	8,800	68.0	8,400
100	59.0	9,000	62.0	9,000	64.0	8,500	66.0	8,200
105	57.0	8,100	60.0	8,500	62.0	8,200	63.5	8,000
110	54.5	7,300	57.5	7,700	60.0	8,000	61.5	7,700
115	52.0	6,600	55.0	7,000	57.5	7,300	59.0	7,500
120	49.5	6,000	52.5	6,300	55.0	6,600	56.5	6,700
125	47.0	5,400	50.0	5,700	52.0	5,900	53.5	6,000
130	44.5	4,800	47.0	5,100	49.0	5,300	50.5	5,400
135	41.5	4,400	44.0	4,600	46.0	4,800	47.0	4,800
140	38.5	3,900	41.0	4,100	43.0	4,300		
145	35.5	3,500	38.0	3,700	39.5	3,800		
150	32.0	3,100	34.0	3,300	35.5	3,300		
155	27.5	2,700	30.0	2,900	31.0	2,900		
160	23.0	2,400	25.0	2,500				
165	16.0	2,100	18.0	2,200				
Min.Bm. Ang./Cap.	0.0	500	0.0	500	0.0	500	0.0	600
Radius (ft)	168.0		167.5		165.1		161.0	

For sale/use only

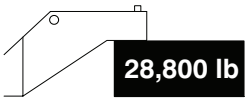
Not for crane operations



Rated Lifting Capacities In Pounds



Full



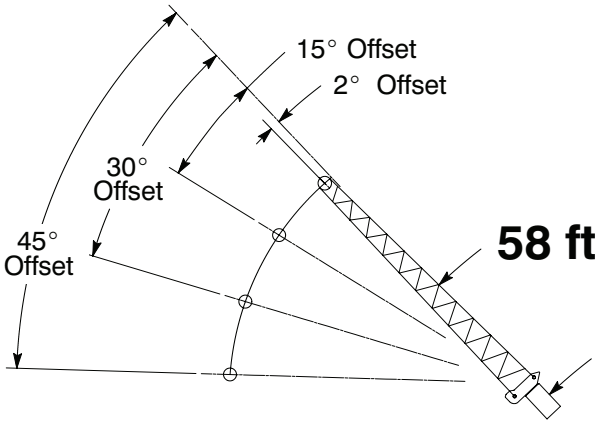
28,800 lb

EM 2

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
30	79.5	20,000						
35	78.0	19,000						
40	76.0	18,100	78.5	13,700				
45	74.5	17,200	77.0	13,200	80.0	11,100		
50	72.5	16,400	75.0	12,700	78.0	10,800		
55	70.5	14,500	73.0	12,300	76.0	10,500	78.5	9,400
60	68.5	14,000	71.0	11,900	74.0	10,300	76.5	9,200
65	66.5	13,500	69.0	11,500	72.0	10,000	74.0	9,100
70	64.5	13,000	67.0	11,200	70.0	9,800	72.0	9,000
75	62.5	12,500	65.0	10,900	67.5	9,600	70.0	8,900
80	60.0	12,000	63.0	10,600	65.5	9,400	67.5	8,800
85	58.0	11,600	60.5	10,300	63.0	9,300	65.0	8,700
90	55.5	10,500	58.0	10,000	61.0	9,100	62.5	8,700
95	52.5	9,400	56.0	9,800	58.5	9,000	60.0	8,700
100	50.0	8,400	53.0	8,800	55.5	8,900	57.5	8,700
105	47.0	7,500	50.0	7,900	53.0	8,300	54.5	8,500
110	44.0	6,700	47.0	7,100	49.5	7,400	51.0	7,500
115	40.5	6,000	43.5	6,300	46.0	6,600	47.0	6,700
120	37.5	5,400	40.0	5,600	42.5	5,900		
125	33.5	4,800	36.5	5,000	38.5	5,200		
130	29.5	4,300	32.0	4,500	33.5	4,600		
135	24.0	3,800	27.0	3,900				
140	17.5	3,400	20.0	3,400				
Min.Bm. Ang./Cap.	0.0	1,800	0.0	1,800	0.0	1,900	0.0	2,100
Radius (ft)	143.8		143.3		141.1		137.1	

For sale use only

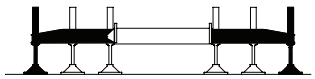
Not for crane operations



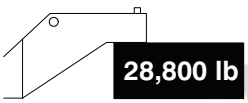
58 ft Offset Fly

140 ft Main Boom

Rated Lifting Capacities In Pounds



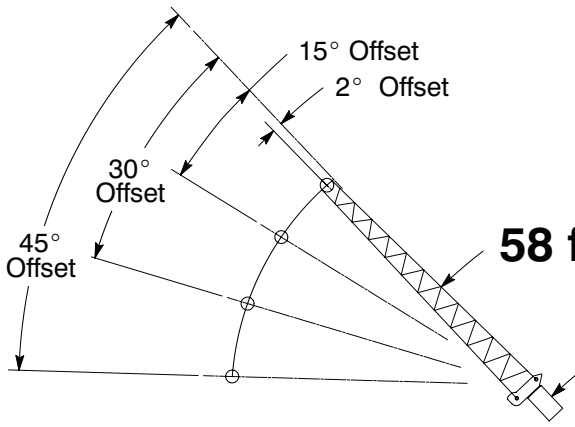
Full



EM 1

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100	80.0	7,200				
65	75.0	8,000	78.5	7,000				
70	73.5	7,800	77.0	6,800				
75	72.5	7,700	76.0	6,700	79.5	5,700		
80	71.0	7,500	74.5	6,500	78.0	5,600		
85	69.5	7,300	73.0	6,300	76.5	5,500	80.0	4,900
90	68.0	7,100	71.5	6,200	75.0	5,400	78.0	4,900
95	66.5	6,900	70.0	6,000	73.5	5,300	76.5	4,800
100	65.0	6,700	68.5	5,900	72.0	5,200	75.0	4,800
105	63.5	6,500	67.0	5,700	70.5	5,100	73.5	4,700
110	62.0	6,300	65.5	5,600	68.5	5,000	71.5	4,700
115	60.0	6,000	63.5	5,500	67.0	4,900	69.5	4,700
120	58.5	5,800	62.0	5,300	65.0	4,800	68.0	4,600
125	56.5	5,600	60.0	5,100	63.5	4,700	66.0	4,500
130	54.5	5,300	58.0	4,900	61.5	4,500	63.5	4,400
135	52.5	4,800	56.0	4,700	59.5	4,400	61.5	4,300
140	50.0	4,300	54.0	4,600	57.0	4,300	59.5	4,200
145	47.5	3,900	51.5	4,200	55.0	4,200	57.0	4,100
150	45.0	3,500	49.0	3,800	52.5	4,100	54.0	4,000
155	42.5	3,100	46.5	3,400	49.5	3,700	51.0	3,800
160	40.0	2,800	43.5	3,100	46.5	3,300	47.5	3,300
165	37.0	2,500	40.5	2,700	43.5	2,900	44.0	2,900
170	34.0	2,200	37.5	2,400	40.0	2,500		
175	30.5	1,900	34.0	2,100	35.5	2,200		
180	26.5	1,700	29.5	1,800	30.5	1,800		
185	21.5	1,400	24.5	1,500				
190	13.5	1,200						
Min.Bm. Ang./Cap.	1.0		4.5		9.0		13.0	
Radius (ft)	191.0		190.1		186.4		180.1	
Maximum Boom Length At 0° Boom Angle (ft)	135							

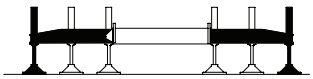
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Not for crane operations



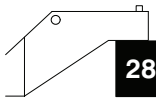
58 ft Offset Fly

115.8 ft Main Boom

Rated Lifting Capacities In Pounds



Full



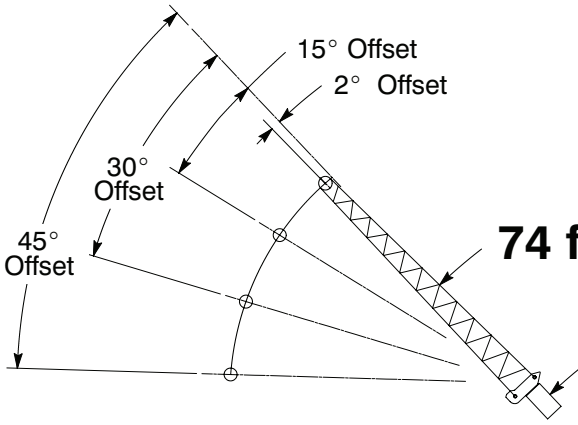
28,800 lb

EM 2

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300	79.5	8,400				
55	74.0	9,800	78.0	8,000				
60	72.5	9,400	76.5	7,700				
65	70.5	9,000	74.5	7,400	79.0	6,200		
70	69.0	8,600	73.0	7,100	77.5	6,000		
75	67.5	8,200	71.5	6,900	75.5	5,800	79.5	5,200
80	65.5	7,900	69.5	6,600	73.5	5,700	77.5	5,100
85	63.5	7,500	67.5	6,400	72.0	5,500	75.5	5,000
90	62.0	7,200	66.0	6,200	70.0	5,400	73.5	4,900
95	60.0	7,000	64.0	6,000	68.0	5,300	71.5	4,900
100	58.0	6,700	62.0	5,900	66.0	5,200	69.0	4,800
105	56.0	6,500	60.0	5,700	64.0	5,100	67.0	4,800
110	54.0	6,200	58.0	5,500	61.5	5,000	64.5	4,700
115	51.5	6,000	55.5	5,400	59.5	4,900	62.5	4,700
120	49.5	5,800	53.5	5,300	57.0	4,900	60.0	4,700
125	47.0	5,400	51.0	5,200	54.5	4,800	57.0	4,700
130	44.0	4,900	48.5	5,100	52.0	4,800	54.0	4,700
135	41.5	4,400	45.5	4,800	49.0	4,700	51.0	4,700
140	38.5	4,000	42.5	4,300	46.0	4,600	47.5	4,700
145	35.0	3,500	39.0	3,800	42.0	4,000		
150	31.5	3,100	35.5	3,400	38.0	3,600		
155	27.5	2,800	31.0	3,000	33.0	3,100		
160	22.0	2,500	25.5	2,600				
165	14.5	2,200	17.0	2,200				
Min.Bm. Ang./Cap.	0.0	800	0.0	900	0.0	1,000	0.0	1,200
Radius (ft)	166.8		166.0		162.6		156.6	

For Sale/Lease use only

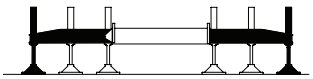
Not for crane operations



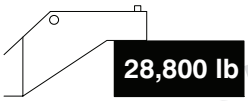
74 ft Offset Fly

140 ft Main Boom

Rated Lifting Capacities In Pounds



Full



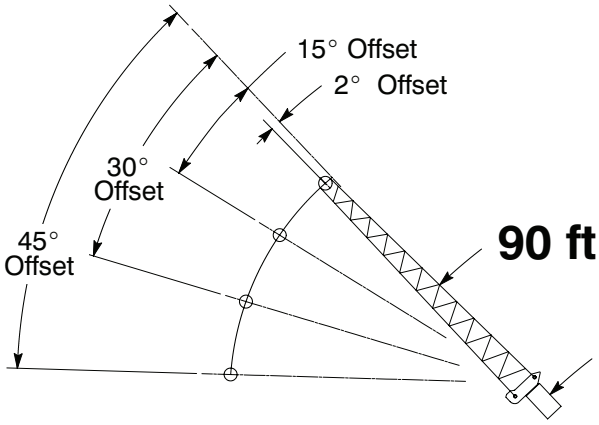
28,800 lb

EM 1

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
50	79.0	6,600						
55	78.0	6,600						
60	77.0	6,600						
65	76.0	6,600	79.0	6,300				
70	75.0	6,600	77.5	6,000				
75	73.5	6,600	76.5	5,700	79.5	4,600		
80	72.5	6,400	75.0	5,400	78.0	4,400		
85	71.0	6,000	73.5	5,100	77.0	4,200	80.0	3,700
90	69.5	5,700	72.0	4,900	75.5	4,100	78.5	3,500
95	68.0	5,400	70.5	4,600	74.0	3,900	77.0	3,400
100	66.5	5,100	69.5	4,400	72.5	3,700	75.5	3,300
105	65.5	4,900	68.0	4,200	71.0	3,600	74.0	3,200
110	64.0	4,700	66.5	4,100	69.5	3,500	72.0	3,100
115	62.5	4,500	65.0	3,900	68.0	3,300	70.5	3,000
120	60.5	4,300	63.5	3,700	66.5	3,200	69.0	2,900
125	59.0	4,100	61.5	3,600	65.0	3,100	67.5	2,800
130	57.5	3,900	60.0	3,500	63.0	3,000	65.5	2,700
135	56.0	3,800	58.5	3,300	61.5	2,900	64.0	2,700
140	54.0	3,600	56.5	3,200	59.5	2,800	62.0	2,600
145	52.5	3,500	55.0	3,100	58.0	2,800	60.0	2,600
150	50.5	3,400	53.0	3,000	56.0	2,700	58.0	2,500
155	48.5	3,000	51.0	2,900	54.0	2,600	56.0	2,500
160	46.0	2,600	49.0	2,800	52.0	2,600	53.5	2,500
165	44.0	2,300	47.0	2,600	50.0	2,500	51.5	2,500
170	41.5	2,000	44.5	2,300	47.5	2,500	48.5	2,500
175	39.0	1,800	42.0	2,000	44.5	2,200	45.5	2,200
180	36.0	1,500	39.0	1,700	41.5	1,800		
185	33.5	1,200	36.0	1,400	38.5	1,500		
190	30.0	1,000	33.0	1,200	34.5	1,300		
195			29.0	900	30.5	1,000		
Min.Bm. Ang./Cap.	28.5		26.5		28.5		27.5	
Radius (ft)	192.5		197.5		196.7		190.6	
Maximum Boom Length At 0° Boom Angle (ft)	123							

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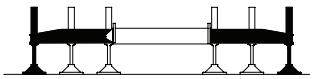
Not for crane operations



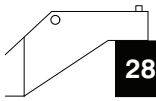
90 ft Offset Fly

140 ft Main Boom

Rated Lifting Capacities In Pounds



Full



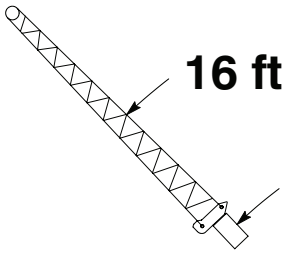
28,800 lb

EM 1

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
55	79.0	5,200						
60	78.0	5,200						
65	77.5	5,200						
70	76.5	5,200	79.0	4,800				
75	75.5	5,100	78.0	4,500				
80	74.0	4,800	76.5	4,200	79.5	3,600		
85	73.0	4,500	75.5	4,000	78.5	3,400		
90	71.5	4,200	74.0	3,700	77.0	3,200	80.0	2,900
95	70.0	4,000	72.5	3,500	76.0	3,000	78.5	2,700
100	69.0	3,700	71.5	3,300	74.5	2,900	77.0	2,600
105	67.5	3,500	70.0	3,100	73.0	2,700	76.0	2,400
110	66.0	3,300	68.5	3,000	72.0	2,600	74.5	2,300
115	65.0	3,200	67.5	2,800	70.5	2,400	73.0	2,200
120	63.5	3,000	66.0	2,700	69.0	2,300	71.5	2,100
125	62.0	2,800	64.5	2,500	67.5	2,200	70.0	2,000
130	60.5	2,700	63.0	2,400	66.0	2,100	68.5	1,900
135	59.0	2,500	61.5	2,300	64.5	2,000	67.0	1,800
140	57.5	2,400	60.0	2,200	63.0	1,900	65.5	1,800
145	56.0	2,300	58.5	2,100	61.5	1,800	63.5	1,700
150	54.5	2,200	57.0	2,000	60.0	1,700	62.0	1,600
155	53.0	2,100	55.5	1,900	58.0	1,700	60.0	1,600
160	51.0	2,000	53.5	1,800	56.5	1,600	58.5	1,500
165	49.5	1,900	52.0	1,700	54.5	1,500	56.5	1,500
170	47.5	1,800	50.0	1,600	53.0	1,500	54.5	1,400
175	45.5	1,700	48.5	1,600	51.0	1,400	52.5	1,400
180	43.5	1,500	46.5	1,500	49.0	1,400	50.0	1,400
185	41.5	1,200	44.0	1,400	46.5	1,400	47.5	1,400
190	39.0	1,000	41.5	1,200	44.5	1,300	45.0	1,400
195			39.0	900	41.5	1,100		
Min.Bm. Ang./Cap.	38.0		38.0		39.5		39.0	
Radius (ft)	192.5		197.5		198.3		198.3	
Maximum Boom Length At 0° Boom Angle (ft)	110							

For sale/use only

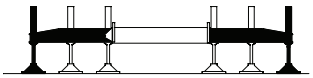
Not for crane operations



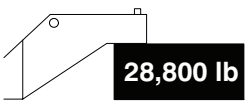
16 ft Fly Extension

140 ft Main Boom

Rated Lifting Capacities In Pounds



Full



EM 1

Load Radius In (ft)	∠°	360°
35	78.0	15,600
40	77.5	15,600
45	76.0	15,600
50	74.5	15,600
55	72.5	15,600
60	71.0	15,600
65	69.0	15,600
70	66.5	15,600
75	64.5	14,800
80	62.0	13,100
85	59.5	11,800
90	57.0	10,600
95	54.5	9,500
100	52.0	8,500
105	49.0	7,600
110	46.0	6,900
115	43.0	6,200
120	40.0	5,500
125	36.5	5,000
130	33.0	4,400
135	28.5	4,000
140	23.5	3,500
145	17.0	3,100
Min.Bm. Ang./Cap.	0.0	1,100
Radius (ft)	149.0	

For sales use only

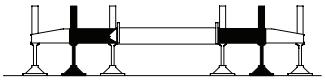
Not for crane operations

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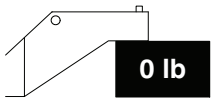
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Not for crane operations

Rated Lifting Capacities In Pounds



Intermediate



EM 1

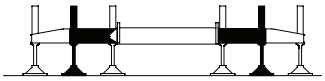
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
10	68.0	136,500	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	121,000	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	82,900	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.0	40,700	61.0	44,900	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.0	24,400	54.0	28,200	61.0	30,000	66.0	30,900	70.0	31,400	72.5	31,600
30	18.0	15,600	46.0	19,400	55.0	21,100	61.0	21,900	65.5	22,300	69.0	22,500
35			36.5	13,800	49.0	15,500	56.0	16,200	61.5	16,700	65.0	16,900
40			23.5	10,100	41.5	11,800	51.0	12,500	57.0	12,900	61.5	13,000
45					33.0	9,000	45.0	9,800	52.0	10,200	57.5	10,400
50					21.5	6,800	38.5	7,600	47.5	8,100	53.5	8,300
55							30.5	5,900	42.0	6,400	49.0	6,600
60							19.5	4,600	35.5	5,000	44.5	5,300
65									28.5	3,900	39.5	4,200
70									18.5	3,000	33.5	3,200
75											27.0	2,400
80											17.5	1,800
Min.Bm. Ang./Cap.	0.0	14,200	0.0	8,200	0.0	5,700	0.0	3,900	0.0	2,500	0.0	1,400
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚
20	77.5	32,100	79.0	27,200		
25	75.0	31,400	76.5	27,200	78.0	28,000
30	71.5	22,400	73.5	22,200	75.5	21,800
35	68.0	16,700	70.5	16,600	72.5	16,200
40	64.5	12,900	67.5	12,800	70.0	12,500
45	61.5	10,200	64.5	10,100	67.0	9,800
50	58.0	8,100	61.5	8,000	64.0	7,700
55	54.0	6,500	58.0	6,400	61.5	6,100
60	50.5	5,200	55.0	5,100	58.5	4,800
65	46.5	4,100	51.5	4,000	55.5	3,700
70	42.0	3,200	48.0	3,100	52.5	2,800
75	37.0	2,400	44.0	2,300	49.0	2,000
80	32.0	1,700	40.0	1,600	45.5	1,400
85	25.5	1,100	35.5	1,000		
Min.Bm. Ang./Cap.	21.5		34.0		43.0	
Radius (ft)	87.1		86.3		83.4	

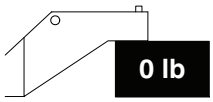
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Not for crane operations

Rated Lifting Capacities
In Pounds



Intermediate



EM 2

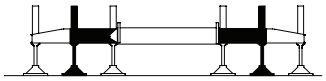
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
10	68.0	136,500	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	121,000	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	82,900	67.5	87,200	72.0	79,900	75.0	70,800
20	49.0	40,700	61.0	43,800	66.5	45,300	70.5	45,800
25	37.0	24,400	53.5	27,200	61.0	28,600	66.0	29,000
30	18.0	15,600	46.0	18,600	55.0	19,800	61.0	20,200
35			36.5	13,000	48.5	14,300	56.0	14,700
40			23.5	9,300	41.5	10,600	50.5	11,000
45					33.0	7,800	44.5	8,300
50					21.5	5,700	38.0	6,200
55							30.5	4,600
60							19.5	3,200
Min.Bm. Ang./Cap.	0.0	14,200	0.0	7,500	0.0	4,700	0.0	2,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚
12	79.5	70,700				
15	77.5	67,700	79.0	54,200		
20	73.5	46,000	76.0	46,000	78.0	45,300
25	69.5	29,100	72.0	29,100	74.5	28,600
30	65.0	20,300	68.5	20,300	71.0	19,900
35	61.0	14,800	65.0	14,800	68.0	14,400
40	56.5	11,200	61.0	11,200	64.5	10,800
45	52.0	8,500	57.0	8,500	61.0	8,100
50	47.0	6,400	53.0	6,400	57.5	6,100
55	41.5	4,800	49.0	4,800	54.0	4,500
60	35.5	3,400	44.0	3,500	50.0	3,200
65	28.5	2,300	39.0	2,400	46.0	2,100
70	18.5	1,400	33.5	1,500	42.0	1,200
Min.Bm. Ang./Cap.	12.0		30.0		41.0	
Radius (ft)	71.8		72.3		71.0	

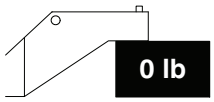
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Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Intermediate



EM 3

Load Radius (ft)	38.0 ft		50.7 ft	
	∠ °	360˚	∠ °	360˚
10	68.0	136,500	74.0	137,600
12	64.5	121,000	72.0	122,300
15	59.0	82,900	68.0	87,400
20	49.0	40,700	61.5	43,900
25	37.0	24,400	54.5	27,400
30	18.0	15,600	46.5	18,700
35			37.5	13,200
40			25.5	9,400
Min.Bm. Ang./Cap.	0.0	14,200	0.0	7,200
Radius (ft)	31.0		43.7	

Load Radius (ft)	63.7 ft		76.5 ft	
	∠ °	360˚	∠ °	360˚
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.0	88,300	76.5	78,400
20	68.0	44,500	72.0	43,800
25	63.0	27,900	68.0	27,300
30	57.5	19,200	63.5	18,600
35	51.5	13,800	59.0	13,300
40	45.5	10,200	54.5	9,700
45	38.0	7,400	49.5	7,000
50	29.5	5,300	44.5	5,000
55	16.0	3,700	38.5	3,400
60			31.5	2,100
Min.Bm. Ang./Cap.	0.0	3,200	25.5	
Radius (ft)	56.7		63.3	

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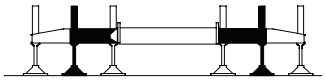
Not for crane operations

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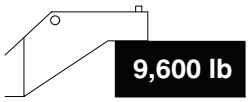
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Rated Lifting Capacities
In Pounds



Intermediate



EM 1

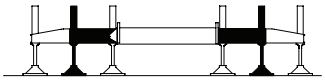
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	139,200	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	123,400	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	102,500	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.5	55,200	61.0	59,000	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.5	34,400	54.0	38,200	61.5	36,100	66.5	36,300	70.0	37,900	73.0	33,500
30	18.0	23,300	46.0	27,000	55.5	28,700	61.5	29,400	66.0	29,900	69.5	30,100
35			36.5	20,000	49.0	21,700	56.5	22,400	61.5	22,900	65.5	23,100
40			23.5	15,200	42.0	16,900	51.0	17,600	57.0	18,100	62.0	18,200
45					33.0	13,400	45.0	14,200	52.5	14,600	58.0	14,800
50					21.5	10,800	38.5	11,500	47.5	12,000	53.5	12,200
55							30.5	9,400	42.0	9,900	49.5	10,100
60							20.0	7,700	36.0	8,200	44.5	8,500
65									28.5	6,800	39.5	7,100
70									18.5	5,600	34.0	5,900
75											27.0	4,900
80											17.5	4,000
Min.Bm. Ang./Cap.	0.0	21,500	0.0	13,000	0.0	9,400	0.0	6,900	0.0	5,000	0.0	3,600
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft		140.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
20	77.5	32,100	79.0	27,200						
25	75.0	32,100	76.5	27,200	78.0	28,000	79.5	26,900		
30	72.0	29,900	74.0	27,200	76.0	28,000	77.5	26,500	78.5	24,400
35	68.5	22,900	71.0	22,800	73.0	22,400	75.0	21,900	76.5	21,600
40	65.0	18,100	68.0	18,000	70.5	17,600	72.5	17,200	74.0	16,800
45	61.5	14,600	65.0	14,500	67.5	14,100	69.5	13,700	71.5	13,300
50	58.0	12,100	62.0	12,000	64.5	11,600	67.0	11,200	69.5	10,900
55	54.5	10,000	58.5	9,900	62.0	9,600	64.5	9,200	67.0	8,900
60	50.5	8,400	55.5	8,300	59.0	7,900	62.0	7,500	64.5	7,200
65	46.5	7,000	52.0	6,900	56.0	6,600	59.0	6,200	62.0	5,900
70	42.5	5,800	48.5	5,800	53.0	5,400	56.5	5,100	59.5	4,700
75	37.5	4,800	44.5	4,800	49.5	4,500	53.5	4,100	57.0	3,800
80	32.0	4,000	40.5	3,900	46.0	3,600	50.5	3,300	54.5	3,000
85	25.5	3,200	35.5	3,200	42.5	2,900	47.5	2,600	51.5	2,300
90	16.5	2,600	30.5	2,500	38.5	2,300	44.0	1,900	48.5	1,600
95			24.5	2,000	34.0	1,700	40.5	1,400	46.0	1,100
100			16.0	1,500	29.5	1,200				
Min.Bm. Ang./Cap.	0.0	2,300	0.0	1,200	23.5		37.5		44.5	
Radius (ft)	93.0		103.0		104.9		99.1		97.3	

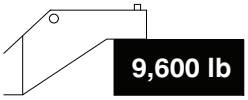
For sales use only

Not for crane operations

Rated Lifting Capacities
In Pounds



Intermediate



EM 2

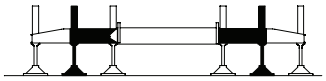
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
10	68.0	139,200	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	123,400	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	102,500	67.5	103,300	72.0	79,900	75.0	70,800
20	49.5	55,200	61.0	58,200	67.0	59,800	71.0	60,300
25	37.5	34,400	54.0	37,300	61.0	38,500	66.0	39,000
30	18.0	23,300	46.0	26,200	55.0	27,400	61.0	27,800
35			36.5	19,200	49.0	20,500	56.0	20,900
40			23.5	14,500	41.5	15,800	50.5	16,200
45					33.0	12,300	45.0	12,700
50					21.5	9,700	38.5	10,200
55							30.5	8,100
60							19.5	6,400
Min.Bm. Ang./Cap.	0.0	21,500	0.0	12,200	0.0	8,300	0.0	5,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
12	79.5	70,700						
15	77.5	67,700	79.0	54,200				
20	74.0	58,400	76.0	52,000	78.0	49,100		
25	69.5	39,100	72.5	39,100	75.0	38,500	78.0	36,300
30	65.5	27,900	69.0	27,900	71.5	27,400	75.0	26,800
35	61.0	21,000	65.0	21,000	68.0	20,600	72.0	20,000
40	57.0	16,300	61.5	16,300	65.0	15,900	69.0	15,400
45	52.0	12,900	57.5	12,900	61.5	12,600	66.5	12,100
50	47.5	10,300	53.5	10,400	58.0	10,000	63.5	9,500
55	42.0	8,300	49.0	8,300	54.5	8,000	60.5	7,500
60	35.5	6,600	44.5	6,700	50.5	6,400	57.5	5,900
65	28.5	5,200	39.5	5,300	46.5	5,000	54.0	4,600
70	18.5	4,100	33.5	4,200	42.0	3,900	51.0	3,500
75			27.0	3,200	37.5	2,900	47.5	2,500
80			17.5	2,400	32.0	2,100	44.0	1,700
85					25.5	1,300	40.0	1,000
Min.Bm. Ang./Cap.	0.0	3,500	0.0	1,900	19.0		39.0	
Radius (ft)	73.0		83.0		88.5		86.0	

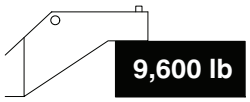
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Not for crane operations

Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Intermediate



EM 3

Load Radius (ft)	38.0 ft		50.7 ft	
	∠°	360˚	∠°	360˚
10	68.0	139,200	74.0	140,200
12	64.5	123,400	72.0	124,700
15	59.0	102,500	68.0	104,700
20	49.5	55,200	61.5	58,400
25	37.5	34,400	54.5	37,400
30	18.0	23,300	46.5	26,300
35			37.5	19,300
40			25.5	14,600
Min.Bm. Ang./Cap.	0.0	21,500	0.0	11,900
Radius (ft)	31.0		43.7	

Load Radius (ft)	63.7 ft		76.5 ft	
	∠°	360˚	∠°	360˚
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.5	105,000	76.5	78,400
20	68.0	59,000	72.5	58,200
25	63.0	38,000	68.0	37,300
30	57.5	26,800	64.0	26,200
35	51.5	20,000	59.5	19,500
40	45.5	15,300	54.5	14,800
45	38.0	11,900	50.0	11,500
50	29.5	9,200	44.5	8,900
55	16.5	7,200	38.5	6,900
60			31.5	5,200
65			22.5	3,900
Min.Bm. Ang./Cap.	0.0	6,500	0.0	2,800
Radius (ft)	56.7		69.5	

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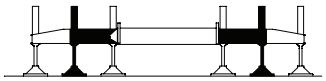
Not for crane operations

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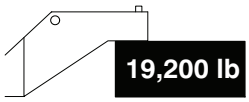
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Not for crane operations

Rated Lifting Capacities
In Pounds



Intermediate



EM 1

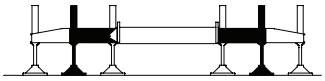
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	141,800	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	125,800	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	107,100	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.5	69,700	61.0	59,000	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.5	44,400	54.0	48,200	61.5	36,100	66.5	36,300	70.0	37,900	73.0	33,500
30	18.0	30,900	46.0	34,700	55.5	32,000	61.5	32,400	66.0	33,900	69.5	31,400
35			36.5	26,200	49.0	27,900	56.5	28,600	62.0	29,000	66.0	28,100
40			24.0	20,400	42.0	22,100	51.0	22,800	57.5	23,300	62.0	23,400
45					33.5	17,900	45.5	18,600	53.0	19,100	58.0	19,200
50					21.5	14,700	38.5	15,400	48.0	15,900	54.0	16,000
55							31.0	12,900	42.5	13,300	49.5	13,600
60							20.0	10,900	36.5	11,400	45.0	11,600
65									29.0	9,700	40.0	9,900
70									19.0	8,300	34.0	8,500
75											27.5	7,300
80											18.0	6,300
Min.Bm. Ang./Cap.	0.0	28,800	0.0	17,700	0.0	12,900	0.0	9,900	0.0	7,600	0.0	5,800
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft		140.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
20	77.5	32,100	79.0	27,200						
25	75.0	32,100	76.5	27,200	78.0	28,000	79.5	26,900		
30	72.0	32,100	74.0	27,200	76.0	28,000	77.5	26,500	78.5	24,400
35	69.0	29,000	71.5	27,200	73.5	28,000	75.5	26,300	77.0	24,100
40	65.5	23,300	68.5	23,200	71.0	22,800	73.0	22,400	75.0	22,000
45	62.0	19,100	65.5	19,000	68.0	18,600	70.5	18,200	72.5	17,800
50	58.5	15,900	62.5	15,800	65.0	15,400	67.5	15,000	70.0	14,700
55	55.0	13,400	59.0	13,300	62.5	13,000	65.0	12,700	67.5	12,400
60	51.0	11,500	55.5	11,400	59.5	11,100	62.5	10,700	65.0	10,400
65	47.0	9,900	52.5	9,800	56.5	9,400	59.5	9,100	62.5	8,800
70	42.5	8,500	48.5	8,400	53.0	8,100	57.0	7,700	60.0	7,400
75	38.0	7,300	45.0	7,200	50.0	6,900	54.0	6,500	57.5	6,200
80	32.5	6,200	40.5	6,200	46.5	5,900	51.0	5,600	55.0	5,200
85	26.0	5,400	36.0	5,300	43.0	5,000	48.0	4,700	52.0	4,400
90	17.0	4,600	31.0	4,500	39.0	4,200	44.5	3,900	49.0	3,600
95			24.5	3,800	34.5	3,600	41.0	3,200	46.0	2,900
100			16.0	3,200	29.5	3,000	37.5	2,600	43.0	2,300
105					23.5	2,400	33.0	2,100	39.5	1,800
110					15.5	1,900	28.5	1,600	36.0	1,300
115							23.0	1,200	32.0	900
Min.Bm. Ang./Cap.	0.0	4,200	0.0	2,900	0.0	1,700	17.0		30.0	
Radius (ft)	93.0		103.0		113.0		118.7		117.4	

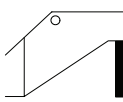
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Not for crane operations

Rated Lifting Capacities
In Pounds



Intermediate



19,200 lb

EM 2

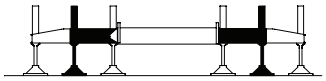
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
10	68.0	141,800	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	125,800	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	107,100	67.5	103,300	72.0	79,900	75.0	70,800
20	49.5	69,700	61.0	72,700	67.0	67,800	71.0	63,500
25	37.5	44,400	54.0	47,300	61.5	48,600	66.0	49,000
30	18.0	30,900	46.0	33,800	55.5	35,000	61.5	35,400
35			36.5	25,400	49.0	26,700	56.5	27,000
40			23.5	19,600	41.5	21,000	51.0	21,400
45					33.0	16,700	45.0	17,200
50					21.5	13,600	38.5	14,000
55							30.5	11,600
60							20.0	9,600
Min.Bm. Ang./Cap.	0.0	28,800	0.0	16,900	0.0	12,000	0.0	8,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
12	79.5	70,700						
15	77.5	67,700	79.0	54,200				
20	74.0	58,400	76.0	52,000	78.0	49,100		
25	70.0	49,100	73.0	45,600	75.0	45,200	78.0	36,300
30	65.5	35,500	69.0	35,500	72.0	35,100	75.5	34,500
35	61.5	27,100	65.5	27,100	68.5	26,700	72.5	26,100
40	57.0	21,500	61.5	21,500	65.0	21,100	69.5	20,500
45	52.5	17,300	57.5	17,300	61.5	16,900	66.5	16,400
50	47.5	14,200	53.5	14,200	58.0	13,800	64.0	13,300
55	42.0	11,800	49.5	11,900	54.5	11,500	61.0	11,000
60	36.0	9,800	44.5	9,900	50.5	9,500	57.5	9,100
65	28.5	8,100	39.5	8,200	46.5	7,900	54.5	7,500
70	18.5	6,700	34.0	6,800	42.5	6,500	51.5	6,100
75			27.0	5,600	37.5	5,300	48.0	5,000
80			17.5	4,600	32.0	4,300	44.0	4,000
85					25.5	3,500	40.0	3,100
90					16.5	2,700	36.0	2,300
95							31.0	1,700
100							25.0	1,100
Min.Bm. Ang./Cap.	0.0	6,000	0.0	4,100	0.0	2,300	21.0	
Radius (ft)	73.0		83.0		93.0		102.8	

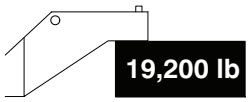
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Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Intermediate



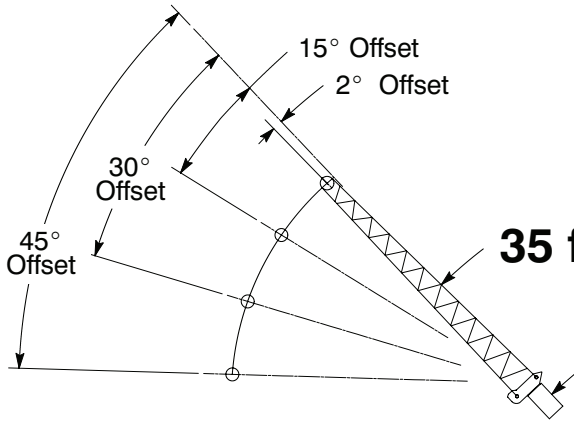
EM 3

Load Radius (ft)	38.0 ft		50.7 ft	
	∠°	360˚	∠°	360˚
10	68.0	141,800	74.5	142,800
12	64.5	125,800	72.0	127,100
15	59.0	107,100	68.0	108,600
20	49.5	69,700	61.5	72,900
25	37.5	44,400	54.5	47,400
30	18.0	30,900	46.5	33,900
35			37.5	25,500
40			25.5	19,800
Min.Bm. Ang./Cap.	0.0	28,800	0.0	16,500
Radius (ft)	31.0		43.7	

Load Radius (ft)	63.7 ft		76.5 ft	
	∠°	360˚	∠°	360˚
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.5	106,500	76.5	78,400
20	68.5	73,500	72.5	72,700
25	63.0	47,900	68.5	47,300
30	57.5	34,500	64.0	33,900
35	52.0	26,100	59.5	25,600
40	45.5	20,500	55.0	20,000
45	38.5	16,300	50.0	15,900
50	29.5	13,100	44.5	12,800
55	16.5	10,700	38.5	10,400
60			31.5	8,400
65			22.5	6,800
Min.Bm. Ang./Cap.	0.0	9,900	0.0	5,500
Radius (ft)	56.7		69.5	

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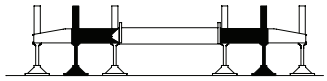
Not for crane operations



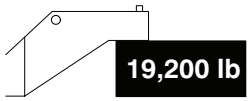
35 ft Offset Fly

140 ft Main Boom

Rated Lifting Capacities In Pounds



Intermediate



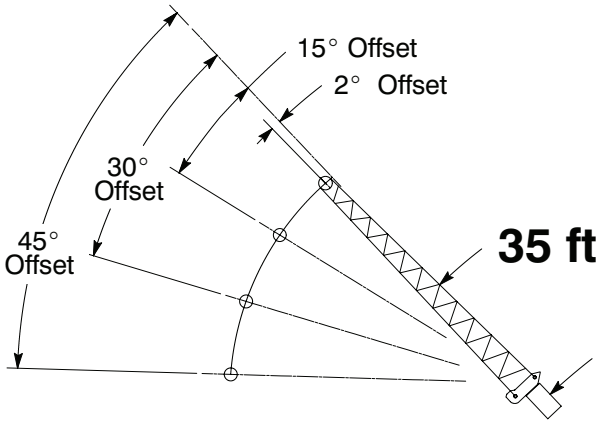
19,200 lb

EM 1

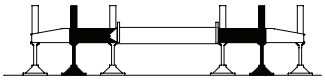
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
35	80.0	12,100						
40	78.5	12,100						
45	77.5	12,100	80.0	11,500				
50	76.0	12,100	78.5	11,400				
55	74.5	12,100	77.0	11,200	79.5	10,000		
60	73.0	11,000	75.5	11,000	78.0	9,800		
65	71.0	9,400	74.0	10,200	76.5	9,700	78.5	8,800
70	68.5	8,000	71.5	8,700	75.0	9,500	77.0	8,800
75	66.5	6,800	69.5	7,500	72.5	8,200	75.0	8,700
80	64.5	5,800	67.5	6,400	70.5	7,000	73.0	7,500
85	62.5	4,900	65.5	5,500	68.5	6,000	70.5	6,500
90	60.5	4,100	63.5	4,700	66.0	5,200	68.0	5,600
95	58.5	3,400	61.0	3,900	64.0	4,400	66.0	4,800
100	56.0	2,800	59.0	3,300	61.5	3,700	63.5	4,000
105	54.0	2,300	56.5	2,700	59.5	3,100	61.0	3,400
110	51.5	1,800	54.5	2,200	57.0	2,500	58.5	2,800
115	49.5	1,400	52.0	1,700	54.5	2,000	56.0	2,200
120	47.0	1,000	49.5	1,300	52.0	1,600	53.5	1,700
125			47.0	900	49.5	1,100	50.5	1,300
130							47.5	900
Min.Bm. Ang./Cap.	46.0		46.0		47.5		45.0	
Radius (ft)	122.0		127.0		128.3		134.0	
Maximum Boom Length At 0° Boom Angle (ft)	115							

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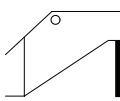
Not for crane operations



Rated Lifting Capacities In Pounds



Intermediate



19,200 lb

EM 2

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
30	79.5	20,000						
35	78.0	19,000						
40	76.0	18,100	78.5	13,700				
45	74.5	17,200	77.0	13,200	80.0	11,100		
50	72.0	14,700	75.0	12,700	78.0	10,800		
55	70.0	12,400	73.0	12,300	76.0	10,500	78.5	9,400
60	67.5	10,400	71.0	11,300	74.0	10,300	76.5	9,200
65	65.5	8,700	68.5	9,600	72.0	10,000	74.0	9,100
70	63.0	7,300	66.0	8,100	69.5	8,900	72.0	9,000
75	60.5	6,200	63.5	6,900	67.0	7,600	69.5	8,200
80	58.0	5,200	61.5	5,800	64.5	6,400	67.0	6,900
85	55.5	4,300	59.0	4,900	62.0	5,400	64.0	5,900
90	53.0	3,500	56.0	4,000	59.0	4,600	61.5	4,900
95	50.5	2,800	53.5	3,300	56.5	3,800	58.5	4,100
100	48.0	2,200	51.0	2,700	53.5	3,100	55.5	3,300
105	45.0	1,700	48.0	2,100	50.5	2,400	52.0	2,700
110	42.0	1,200	45.0	1,600	47.5	1,900	49.0	2,000
115			42.0	1,100	44.0	1,400	45.0	1,500
120					40.5	900		
Min.Bm. Ang./Cap.	40.0		40.5		38.5		41.0	
Radius (ft)	113.8		117.5		123.0		120.0	
Maximum BoomLength At 0˚ Boom Angle (ft)	99							

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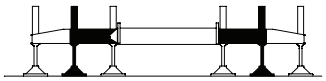
Not for crane operations

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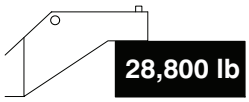
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Rated Lifting Capacities In Pounds



Intermediate



28,800 lb

EM 1

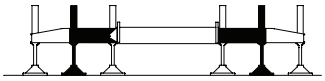
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	144,500	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	128,300	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	109,300	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.5	84,200	61.0	59,000	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.5	54,500	54.0	52,200	61.5	36,100	66.5	36,300	70.0	37,900	73.0	33,500
30	18.0	38,600	46.0	42,300	55.5	32,000	61.5	32,400	66.0	33,900	69.5	31,400
35			36.5	32,400	49.0	28,700	56.5	29,200	62.0	30,400	66.0	28,100
40			24.0	25,600	42.0	26,100	51.5	26,600	58.0	27,500	62.5	25,500
45					33.5	22,300	45.5	23,100	53.0	23,500	58.5	23,300
50					22.0	18,600	39.0	19,400	48.0	19,800	54.5	20,000
55							31.0	16,400	42.5	16,900	50.0	17,100
60							20.0	14,000	36.5	14,500	45.5	14,700
65									29.0	12,600	40.5	12,700
70									19.0	10,900	34.5	11,200
75											27.5	9,800
80											18.0	8,600
Min.Bm. Ang./Cap.	0.0	31,700	0.0	18,200	0.0	12,900	0.0	10,700	0.0	9,200	0.0	7,900
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft		140.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
20	77.5	32,100	79.0	27,200						
25	75.0	32,100	76.5	27,200	78.0	28,000	79.5	26,900		
30	72.0	32,100	74.0	27,200	76.0	28,000	77.5	26,500	78.5	24,400
35	69.0	29,700	71.5	27,200	73.5	28,000	75.5	26,300	77.0	24,100
40	66.0	27,100	69.0	27,200	71.5	27,900	73.5	26,100	75.0	24,000
45	62.5	23,600	66.0	23,500	68.5	23,100	71.0	22,700	73.0	22,300
50	59.0	19,900	62.5	19,700	65.5	19,400	68.5	19,000	70.5	18,600
55	55.5	16,900	59.5	16,800	63.0	16,500	65.5	16,100	68.0	15,700
60	51.5	14,600	56.0	14,500	60.0	14,100	63.0	13,700	65.5	13,400
65	47.5	12,800	52.5	12,700	56.5	12,300	60.0	12,000	63.0	11,600
70	43.0	11,100	49.0	11,000	53.5	10,700	57.5	10,400	60.5	10,000
75	38.0	9,700	45.0	9,700	50.5	9,400	54.5	9,000	58.0	8,700
80	32.5	8,500	41.0	8,500	47.0	8,200	51.5	7,800	55.5	7,500
85	26.0	7,500	36.5	7,400	43.0	7,200	48.5	6,800	52.5	6,500
90	17.0	6,600	31.5	6,500	39.5	6,200	45.0	5,900	49.5	5,600
95			25.0	5,700	35.0	5,400	41.5	5,100	46.5	4,800
100			16.5	5,000	30.0	4,700	38.0	4,400	43.5	4,100
105					24.0	4,100	33.5	3,800	40.0	3,500
110					16.0	3,500	29.0	3,200	36.5	2,900
115							23.0	2,700	32.5	2,400
120							15.5	2,200	28.0	1,900
125									22.5	1,500
130									15.0	1,100
Min.Bm. Ang./Cap.	0.0	6,100	0.0	4,600	0.0	3,200	0.0	2,000	0.0	900
Radius (ft)	93.0		103.0		113.0		123.0		133.0	

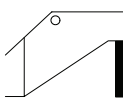
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Rated Lifting Capacities In Pounds



Intermediate



28,800 lb

EM 2

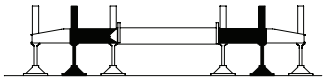
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
10	68.0	144,500	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	128,300	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	109,300	68.0	103,300	72.0	79,900	75.0	70,800
20	49.5	84,200	61.0	87,200	67.0	67,800	71.0	63,500
25	37.5	54,500	54.0	57,300	61.5	58,600	66.5	54,800
30	18.0	38,600	46.0	41,500	55.5	42,700	61.5	43,000
35			36.5	31,600	49.0	32,900	56.5	33,200
40			23.5	24,900	42.0	26,100	51.0	26,500
45					33.5	21,200	45.0	21,700
50					21.5	17,500	38.5	18,000
55							30.5	15,000
60							20.0	12,700
Min.Bm. Ang./Cap.	0.0	31,700	0.0	21,700	0.0	15,700	0.0	11,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
12	79.5	70,700						
15	77.5	67,700	79.0	54,200				
20	74.0	58,400	76.0	52,000	78.0	49,100		
25	70.0	51,200	73.0	45,600	75.0	45,200	78.0	36,300
30	66.0	43,100	69.5	40,600	72.5	42,200	76.0	35,900
35	61.5	33,300	66.0	33,300	69.0	32,900	73.0	32,300
40	57.5	26,600	62.0	26,600	65.5	26,200	70.0	25,600
45	52.5	21,800	58.0	21,800	62.0	21,400	67.0	20,900
50	47.5	18,100	54.0	18,200	58.5	17,800	64.5	17,300
55	42.0	15,200	49.5	15,300	55.0	14,900	61.0	14,400
60	36.0	12,900	45.0	13,000	51.0	12,700	58.0	12,200
65	29.0	11,000	40.0	11,100	47.0	10,800	55.0	10,300
70	18.5	9,400	34.0	9,500	42.5	9,200	51.5	8,800
75			27.0	8,100	38.0	7,800	48.0	7,400
80			17.5	6,900	32.5	6,600	44.5	6,300
85					26.0	5,600	40.5	5,200
90					17.0	4,700	36.0	4,300
95							31.5	3,600
100							25.5	2,800
105							17.5	2,200
Min.Bm. Ang./Cap.	0.0	8,500	0.0	6,300	0.0	4,200	0.0	1,800
Radius (ft)	73.0		83.0		93.0		108.8	

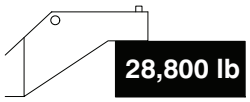
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Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Intermediate



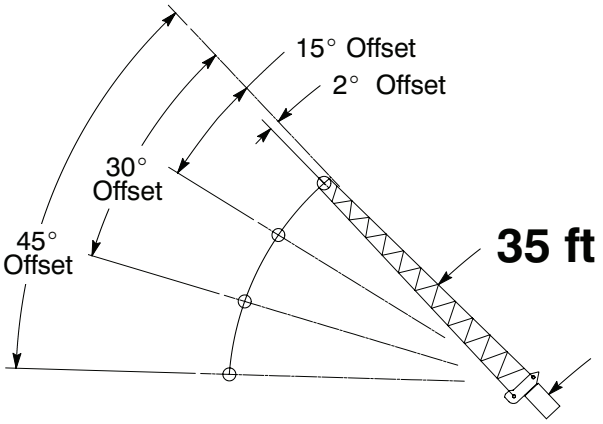
EM 3

Load Radius (ft)	38.0 ft		50.7 ft	
	∠°	360˚	∠°	360˚
10	68.0	144,500	74.5	145,400
12	64.5	128,300	72.0	129,400
15	59.0	109,300	68.0	110,700
20	49.5	84,200	61.5	87,400
25	37.5	54,500	54.5	57,400
30	18.0	38,600	47.0	41,600
35			37.5	31,700
40			25.5	25,000
Min.Bm. Ang./Cap.	0.0	31,700	0.0	21,100
Radius (ft)	31.0		43.7	

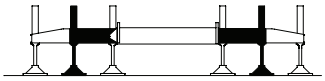
Load Radius (ft)	63.7 ft		76.5 ft	
	∠°	360˚	∠°	360˚
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.5	106,500	76.5	78,400
20	68.5	87,900	73.0	76,500
25	63.0	57,900	68.5	57,200
30	57.5	42,100	64.0	41,500
35	52.0	32,300	59.5	31,800
40	45.5	25,600	55.0	25,200
45	38.5	20,800	50.0	20,400
50	29.5	17,100	44.5	16,800
55	16.5	14,200	38.5	13,900
60			31.5	11,600
65			22.5	9,600
Min.Bm. Ang./Cap.	0.0	13,300	0.0	8,200
Radius (ft)	56.7		69.5	

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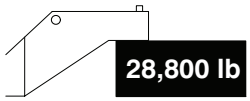
Not for crane operations



Rated Lifting Capacities In Pounds



Intermediate



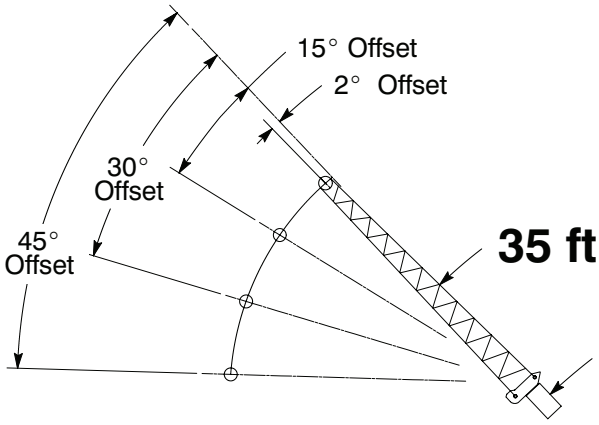
28,800 lb

EM 1

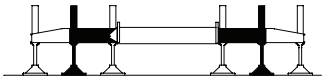
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
35	80.0	12,100						
40	78.5	12,100						
45	77.5	12,100	80.0	11,500				
50	76.0	12,100	78.5	11,400				
55	74.5	12,100	77.0	11,200	79.5	10,000		
60	73.0	12,100	75.5	11,000	78.0	9,800		
65	72.0	11,900	74.0	10,800	76.5	9,700	78.5	8,800
70	70.0	10,600	72.5	10,600	75.0	9,500	77.0	8,800
75	67.5	9,200	70.5	9,900	73.5	9,400	75.0	8,700
80	65.5	8,000	68.5	8,700	71.5	9,200	73.5	8,600
85	63.5	7,000	66.5	7,600	69.5	8,200	71.5	8,600
90	61.5	6,100	64.0	6,700	67.0	7,200	69.5	7,600
95	59.0	5,300	62.0	5,800	65.0	6,300	67.0	6,600
100	57.0	4,600	60.0	5,100	62.5	5,500	64.5	5,800
105	55.0	4,000	57.5	4,400	60.0	4,800	62.0	5,100
110	52.5	3,400	55.0	3,800	58.0	4,100	59.5	4,400
115	50.0	2,900	53.0	3,200	55.5	3,600	57.0	3,800
120	48.0	2,400	50.5	2,700	52.5	3,000	54.0	3,200
125	45.0	2,000	48.0	2,300	50.0	2,500	51.5	2,700
130	42.5	1,600	45.0	1,900	47.5	2,100	48.5	2,200
135	40.0	1,300	42.5	1,500	44.5	1,700	45.0	1,700
140	37.0	900	39.5	1,100	41.0	1,300		
145					38.0	900		
Min.Bm. Ang./Cap.	36.0		37.5		36.5		38.0	
Radius (ft)	141.7		143.3		146.7		145.0	
Maximum Boom Length At 0° Boom Angle (ft)	128							

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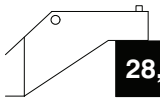
Not for crane operations



Rated Lifting Capacities In Pounds



Intermediate

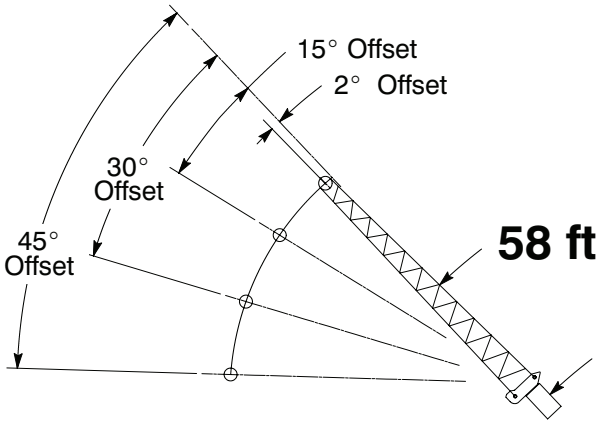


28,800 lb

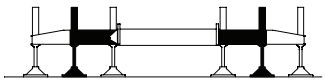
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
30	79.5	20,000						
35	78.0	19,000						
40	76.0	18,100	78.5	13,700				
45	74.5	17,200	77.0	13,200	80.0	11,100		
50	72.5	16,400	75.0	12,700	78.0	10,800		
55	70.5	14,500	73.0	12,300	76.0	10,500	78.5	9,400
60	68.5	13,400	71.0	11,900	74.0	10,300	76.5	9,200
65	66.0	11,600	69.0	11,500	72.0	10,000	74.0	9,100
70	63.5	10,000	67.0	10,800	70.0	9,800	72.0	9,000
75	61.0	8,600	64.5	9,300	67.5	9,600	70.0	8,900
80	59.0	7,400	62.0	8,100	65.0	8,700	67.5	8,800
85	56.5	6,400	59.5	7,000	62.5	7,600	65.0	8,000
90	53.5	5,500	57.0	6,000	60.0	6,600	62.0	6,900
95	51.0	4,700	54.0	5,200	57.0	5,700	59.0	6,000
100	48.5	4,000	51.5	4,500	54.0	4,900	56.0	5,100
105	45.5	3,400	48.5	3,800	51.0	4,100	53.0	4,300
110	42.5	2,800	45.5	3,200	48.0	3,500	49.5	3,600
115	39.5	2,300	42.5	2,600	44.5	2,900	45.5	3,000
120	36.0	1,900	39.0	2,100	41.0	2,300		
125	32.5	1,400	35.0	1,700	37.0	1,800		
130	28.5	1,100	31.0	1,200	32.5	1,300		
Min.Bm. Ang./Cap.	26.0		27.5		27.0		20.5	
Radius (ft)	132.5		133.8		135.0		131.9	
Maximum Boom Length At 0° Boom Angle (ft)	112							

For sale use only

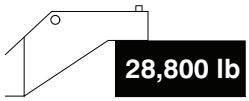
Not for crane operations



Rated Lifting Capacities In Pounds



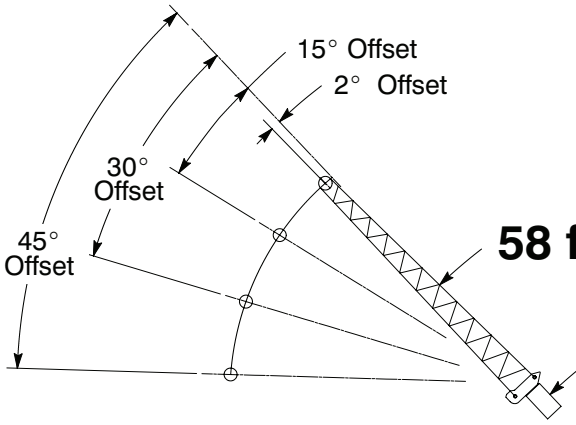
Intermediate



Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100	80.0	7,200				
65	75.0	8,000	78.5	7,000				
70	73.5	7,800	77.0	6,800				
75	72.5	7,700	76.0	6,700	79.5	5,700		
80	71.0	7,500	74.5	6,500	78.0	5,600		
85	69.5	7,300	73.0	6,300	76.5	5,500	80.0	4,900
90	67.5	6,600	71.5	6,200	75.0	5,400	78.0	4,900
95	66.0	5,800	70.0	6,000	73.5	5,300	76.5	4,800
100	64.0	5,100	68.5	5,800	72.0	5,200	75.0	4,800
105	62.0	4,400	66.5	5,100	70.5	5,100	73.5	4,700
110	60.0	3,800	64.5	4,500	68.5	5,000	71.5	4,700
115	58.0	3,300	62.5	3,900	66.5	4,500	69.5	4,700
120	56.0	2,800	60.5	3,400	64.5	3,900	67.5	4,300
125	54.0	2,400	58.0	2,900	62.0	3,400	65.0	3,800
130	52.0	2,000	56.0	2,500	60.0	2,900	62.5	3,200
135	50.0	1,600	54.0	2,100	57.5	2,500	60.0	2,800
140	47.5	1,300	51.5	1,700	55.0	2,100	57.5	2,300
145	45.5	1,000	49.5	1,400	53.0	1,700	55.0	1,900
150			47.0	1,000	50.5	1,300	52.0	1,500
155					47.5	1,000	49.0	1,100
Min.Bm. Ang./Cap.	44.5		46.0		46.5		47.5	
Radius (ft)	148.0		151.7		156.7		157.5	
Maximum Boom Length At 0° Boom Angle (ft)	121							

For Sale use only

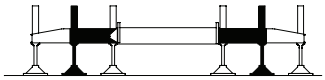
Not for crane operations



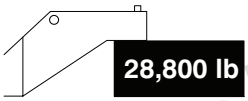
58 ft Offset Fly

115.8 ft Main Boom

Rated Lifting Capacities In Pounds



Intermediate



28,800 lb

EM 2

Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300	79.5	8,400				
55	74.0	9,800	78.0	8,000				
60	72.5	9,400	76.5	7,700				
65	70.5	9,000	74.5	7,400	79.0	6,200		
70	69.0	8,600	73.0	7,100	77.5	6,000		
75	67.5	8,200	71.5	6,900	75.5	5,800	79.5	5,200
80	65.5	7,900	69.5	6,600	73.5	5,700	77.5	5,100
85	63.5	7,100	67.5	6,400	72.0	5,500	75.5	5,000
90	61.5	6,200	66.0	6,200	70.0	5,400	73.5	4,900
95	59.0	5,400	64.0	6,000	68.0	5,300	71.5	4,900
100	57.0	4,700	61.5	5,400	66.0	5,200	69.0	4,800
105	55.0	4,100	59.5	4,700	64.0	5,100	67.0	4,800
110	52.5	3,500	57.0	4,100	61.5	4,700	64.5	4,700
115	50.0	3,000	54.5	3,500	59.0	4,100	62.0	4,500
120	47.5	2,500	52.0	3,000	56.5	3,500	59.0	3,800
125	45.0	2,000	49.5	2,500	53.5	3,000	56.0	3,200
130	42.5	1,700	47.0	2,100	50.5	2,500	53.0	2,700
135	40.0	1,300	44.0	1,700	47.5	2,000	49.5	2,200
140	37.0	1,000	41.0	1,300	44.5	1,600	45.5	1,700
145			38.0	900	41.0	1,200		
Min.Bm. Ang./Cap.	36.0		37.0		38.0		38.0	
Radius (ft)	141.3		146.7		148.8		148.0	
Maximum Boom Length At 0° Boom Angle (ft)	105							

For sale/use only

Not for crane operations

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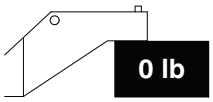
For sales use only

Not for crane operations

Rated Lifting Capacities In Pounds



Retracted



EM 1

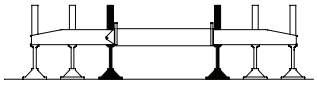
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚
10	68.0	57,700	74.0	62,800	77.0	58,000
12	64.5	38,700	71.0	43,000	75.0	45,200
15	59.0	24,200	67.5	27,800	71.5	29,600
20	49.0	12,300	60.5	15,700	66.5	17,300
25	37.0	6,200	53.5	9,500	60.5	11,200
30	18.0	2,500	45.5	5,700	55.0	7,300
35			36.5	3,100	48.5	4,700
40			23.5	1,300	41.5	2,800
45					33.0	1,400
Min.Bm. Ang./Cap.	0.0	1,700	19.5		27.0	
Radius (ft)	31.0		41.0		47.5	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚
10	79.5	55,900				
12	77.5	46,200	79.5	41,800		
15	74.5	30,500	77.0	31,000	79.0	31,200
20	70.0	18,100	73.0	18,500	75.0	18,700
25	65.5	11,900	69.0	12,300	71.5	12,500
30	60.5	8,100	65.0	8,500	68.0	8,600
35	55.5	5,400	60.5	5,900	64.5	6,100
40	50.5	3,500	56.5	4,000	61.0	4,200
45	44.5	2,100	52.0	2,600	57.0	2,800
50	38.0	1,000	47.0	1,400	53.0	1,700
Min.Bm. Ang./Cap.	36.0		42.0		49.0	
Radius (ft)	51.3		54.3		54.4	

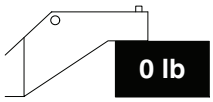
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Not for crane operations

Rated Lifting Capacities
In Pounds



Retracted



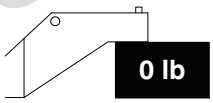
EM 2

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠ °	360˚	∠ °	360˚	∠ °	360˚	∠ °	360˚
10	68.0	57,700	73.5	61,400	77.0	63,400	79.0	64,000
12	64.5	38,700	71.0	41,800	74.5	43,400	77.0	43,900
15	59.0	24,200	67.5	26,800	71.5	28,100	74.5	28,600
20	49.0	12,300	60.5	14,900	66.0	16,100	70.0	16,500
25	37.0	6,200	53.5	8,800	60.5	10,000	65.5	10,400
30	18.0	2,500	45.5	5,000	55.0	6,200	60.5	6,600
35			36.5	2,400	48.5	3,600	55.5	4,100
40					41.5	1,800	50.5	2,200
Min.Bm. Ang./Cap.	0.0	1,700	27.0		36.5		44.5	
Radius (ft)	31.0		38.6		42.9		44.9	

Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Retracted



EM 3

Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
	∠ °	360˚	∠ °	360˚	∠ °	360˚	∠ °	360˚
10	68.0	57,700	74.0	61,600	77.5	62,400		
12	64.5	38,700	71.5	41,900	75.5	42,600	78.0	41,800
15	59.0	24,200	67.5	26,900	72.5	27,500	76.0	26,800
20	49.0	12,300	61.0	15,000	67.5	15,500	71.5	14,900
25	37.0	6,200	54.0	8,900	62.5	9,500	67.5	9,000
30	18.0	2,500	46.5	5,100	57.0	5,800	63.5	5,300
35			37.5	2,500	51.5	3,200	59.0	2,900
Min.Bm. Ang./Cap.	0.0	1,700	33.0		43.5		54.5	
Radius (ft)	31.0		38.9		41.1		40.2	

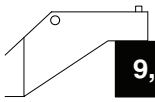
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Rated Lifting Capacities
In Pounds



Retracted



9,600 lb

EM 1

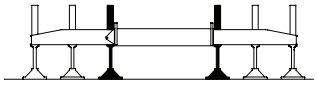
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	82,600	74.0	80,400	77.0	58,000	79.5	55,900		
12	64.5	56,700	71.5	60,900	75.0	53,700	77.5	52,300	79.5	41,800
15	59.0	36,900	67.5	40,400	72.0	42,300	75.0	43,100	77.5	41,800
20	49.0	20,800	61.0	24,300	66.5	25,800	70.5	26,600	73.5	27,000
25	37.0	12,700	53.5	15,900	61.0	17,500	65.5	18,200	69.5	18,600
30	18.0	7,600	45.5	10,900	55.0	12,500	61.0	13,100	65.0	13,500
35			36.5	7,400	48.5	9,000	56.0	9,700	61.0	10,200
40			23.5	5,000	41.5	6,500	50.5	7,200	56.5	7,700
45					33.0	4,600	44.5	5,300	52.0	5,800
50					21.5	3,200	38.0	3,900	47.0	4,300
55							30.5	2,700	41.5	3,100
60							19.5	1,700	35.5	2,200
65									28.5	1,400
Min.Bm. Ang./Cap.	0.0	6,700	0.0	3,700	0.0	2,400	0.0	1,200	21.5	
Radius (ft)	31.0		43.0		53.0		63.0		68.6	

Load Radius (ft)	90.0 ft		100.0 ft		110.0 ft	
	∠°	360°	∠°	360°	∠°	360°
15	79.0	33,500				
20	75.5	27,200	77.5	27,000	79.0	26,900
25	72.0	18,800	74.0	18,700	76.0	18,600
30	68.5	13,700	71.0	13,600	73.0	13,400
35	64.5	10,400	67.5	10,300	70.0	10,200
40	61.0	7,900	64.5	7,800	67.0	7,700
45	57.0	6,000	61.0	6,000	64.0	5,900
50	53.0	4,600	57.5	4,500	61.0	4,400
55	49.0	3,400	54.0	3,300	58.0	3,300
60	44.0	2,400	50.0	2,400	54.5	2,300
65	39.0	1,600	46.0	1,500	51.0	1,500
70	33.5	900	41.5	900		
Min.Bm. Ang./Cap.	27.5		38.5		48.0	
Radius (ft)	74.1		73.5		69.3	

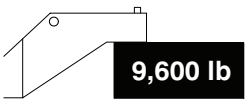
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Rated Lifting Capacities
In Pounds



Retracted



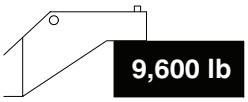
EM 2

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	82,600	73.5	86,300	77.0	88,200	79.0	70,800				
12	64.5	56,700	71.0	59,800	75.0	61,400	77.5	61,900	79.5	62,000		
15	59.0	36,900	67.5	39,500	71.5	40,800	74.5	41,200	77.0	41,300	79.0	41,300
20	49.0	20,800	61.0	23,500	66.5	24,600	70.0	25,000	73.0	25,100	75.0	25,100
25	37.0	12,700	53.5	15,100	61.0	16,400	65.5	16,700	69.0	16,800	71.5	16,800
30	18.0	7,600	45.5	10,100	55.0	11,400	60.5	11,800	65.0	11,900	68.0	11,900
35			36.5	6,700	48.5	7,900	56.0	8,400	61.0	8,600	64.5	8,600
40			23.5	4,300	41.5	5,500	50.5	5,900	56.5	6,100	61.0	6,200
45					33.0	3,600	44.5	4,100	52.0	4,200	57.0	4,300
50					21.5	2,200	38.0	2,600	47.0	2,800	53.0	2,900
55							30.5	1,500	41.5	1,600	48.5	1,700
Min.Bm. Ang./Cap.	0.0	6,700	0.0	3,100	0.0	1,400	20.0		37.0		44.5	
Radius (ft)	31.0		43.0		53.0		59.7		58.9		59.4	

Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Retracted



EM 3

Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	82,600	74.0	86,400	77.5	87,200		
12	64.5	56,700	71.5	59,900	75.5	60,600	78.5	59,800
15	59.0	36,900	67.5	39,600	72.5	40,100	76.0	39,500
20	49.0	20,800	61.0	23,600	67.5	24,100	72.0	23,500
25	37.0	12,700	54.5	15,300	62.5	15,900	67.5	15,300
30	18.0	7,600	46.5	10,200	57.5	10,900	63.5	10,500
35			37.5	6,800	51.5	7,500	59.0	7,200
40			25.5	4,400	45.0	5,100	54.5	4,800
45					38.0	3,200	49.5	2,900
50					29.5	1,800	44.0	1,500
Min.Bm. Ang./Cap.	0.0	6,700	0.0	2,900	19.5		40.5	
Radius (ft)	31.0		43.7		53.7		53.4	

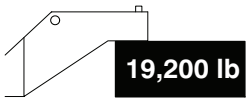
For sales use only

Not for crane operations

Rated Lifting Capacities In Pounds



Retracted



EM 1

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	107,400	74.0	80,400								
12	64.5	74,700	71.5	75,000								
15	59.0	49,600	67.5	53,100	72.0	48,400						
20	49.0	29,300	61.0	32,800	66.5	34,400	70.5	35,100	73.5	35,600		
25	37.0	19,100	54.0	22,300	61.0	24,000	66.0	24,700	69.5	25,100	72.5	25,300
30	18.0	12,800	46.0	16,000	55.0	17,600	61.0	18,300	65.5	18,700	68.5	18,900
35			36.5	11,700	48.5	13,200	56.0	14,000	61.0	14,400	65.0	14,600
40			23.5	8,700	41.5	10,200	50.5	10,900	57.0	11,400	61.5	11,600
45					33.0	7,900	45.0	8,600	52.0	9,000	57.5	9,300
50					21.5	6,000	38.5	6,800	47.0	7,200	53.5	7,400
55							30.5	5,300	42.0	5,700	49.0	6,000
60							19.5	4,100	35.5	4,500	44.5	4,800
65									28.5	3,500	39.5	3,800
70									18.5	2,700	33.5	2,900
75											26.5	2,200
80											17.5	1,600
Min.Bm. Ang./Cap.	0.0	11,700	0.0	7,100	0.0	5,100	0.0	3,500	0.0	2,300	0.0	1,300
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft	
	∠°	360°	∠°	360°	∠°	360°
20						
25	74.5	25,100				
30	71.0	18,700	73.5	18,600		
35	68.0	14,500	70.5	14,300	72.5	14,000
40	64.5	11,500	67.5	11,400	69.5	11,100
45	61.5	9,200	64.5	9,100	67.0	8,800
50	58.0	7,400	61.5	7,300	64.0	7,000
55	54.0	5,900	58.0	5,900	61.5	5,600
60	50.5	4,700	55.0	4,700	58.5	4,400
65	46.5	3,700	51.5	3,700	55.5	3,400
70	42.0	2,900	48.0	2,800	52.5	2,500
75	37.0	2,100	44.0	2,100	49.0	1,800
80	32.0	1,500	40.0	1,500	45.5	1,200
85	25.5	1,000	35.5	900		
Min.Bm. Ang./Cap.	23.5		34.5		44.0	
Radius (ft)	86.0		86.0		82.5	

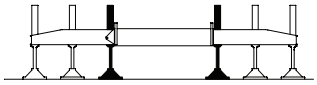
⚠ WARNING

Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

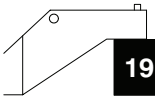
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Rated Lifting Capacities In Pounds



Retracted



19,200 lb

EM 2

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
10	68.0	107,400	74.0	103,300				
12	64.5	74,700	71.5	77,700				
15	59.0	49,600	67.5	52,100	72.0	53,500		
20	49.0	29,300	61.0	32,000	66.5	33,100	70.5	33,500
25	37.0	19,100	53.5	21,600	61.0	22,800	65.5	23,200
30	18.0	12,800	45.5	15,200	55.0	16,500	61.0	16,900
35			36.5	11,000	48.5	12,200	56.0	12,700
40			23.5	8,000	41.5	9,200	50.5	9,600
45					33.0	6,800	44.5	7,300
50					21.5	5,000	38.0	5,500
55							30.5	4,000
60							19.5	2,900
Min.Bm. Ang./Cap.	0.0	11,700	0.0	6,500	0.0	4,100	0.0	2,200
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
20	73.0	33,600						
25	69.0	23,300	72.0	23,300	74.0	22,900		
30	65.0	17,000	68.5	17,000	71.0	16,600	74.0	16,100
35	61.0	12,800	64.5	12,800	67.5	12,500	71.5	12,100
40	56.5	9,800	61.0	9,900	64.5	9,500	68.5	9,100
45	52.0	7,500	57.0	7,600	61.0	7,300	66.0	6,800
50	47.0	5,700	53.0	5,800	57.5	5,500	63.0	5,100
55	41.5	4,200	49.0	4,300	54.0	4,000	60.0	3,700
60	35.5	3,000	44.0	3,100	50.0	2,800	57.0	2,500
65	28.5	2,100	39.0	2,100	46.0	1,900	54.0	1,500
70	18.5	1,200	33.5	1,300	42.0	1,000		
Min.Bm. Ang./Cap.	0.0	800	29.5		37.5		51.5	
Radius (ft)	73.0		72.9		74.6		68.7	

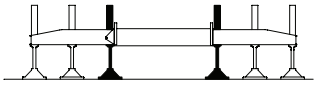
WARNING

Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

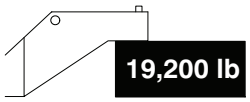
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Not for crane operations

Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Retracted



EM 3

Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
	∠ °	360°	∠ °	360°	∠ °	360°	∠ °	360°
10	68.0	107,400	74.0	111,200				
12	64.5	74,700	71.5	77,800				
15	59.0	49,600	68.0	52,200	73.0	52,800		
20	49.0	29,300	61.5	32,100	68.0	32,500	72.0	32,000
25	37.0	19,100	54.5	21,700	62.5	22,300	68.0	21,800
30	18.0	12,800	46.5	15,300	57.5	16,000	63.5	15,600
35			37.5	11,100	51.5	11,800	59.0	11,500
40			25.5	8,100	45.5	8,800	54.5	8,500
45					38.0	6,500	49.5	6,200
50					29.5	4,700	44.5	4,400
55					16.0	3,200	38.5	3,000
60							31.5	1,800
Min.Bm. Ang./Cap.	0.0	11,700	0.0	6,300	0.0	2,800	23.5	
Radius (ft)	31.0		43.7		56.7		64.5	

WARNING

Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

For sales use only

Not for crane operations

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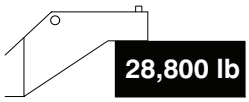
For sales use only

Not for crane operations

Rated Lifting Capacities In Pounds



Retracted



EM 1

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°	∠°	360°
15	59.0	62,300										
20	49.0	37,900										
25	37.0	25,500	54.0	28,700								
30	18.0	17,900	46.0	21,100	55.5	22,700						
35			36.5	16,000	49.0	17,500	56.0	18,300				
40			23.5	12,400	41.5	13,800	51.0	14,600	57.0	15,000		
45					33.0	11,100	45.0	11,800	52.5	12,300	57.5	12,500
50					21.5	8,900	38.5	9,600	47.5	10,100	53.5	10,300
55							30.5	7,900	42.0	8,300	49.0	8,600
60							20.0	6,500	36.0	6,900	44.5	7,100
65									28.5	5,700	39.5	5,900
70									18.5	4,700	34.0	4,900
75											27.0	4,100
80											17.5	3,300
Min.Bm. Ang./Cap.	0.0	16,600	0.0	10,600	0.0	7,800	0.0	5,700	0.0	4,200	0.0	2,900
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
50	58.0	10,300						
55	54.5	8,500	58.5	8,500				
60	50.5	7,100	55.0	7,000	58.5	6,700		
65	46.5	5,900	51.5	5,800	55.5	5,600	59.0	5,200
70	42.0	4,900	48.0	4,800	52.5	4,500	56.5	4,200
75	37.5	4,000	44.5	3,900	49.5	3,700	53.5	3,400
80	32.0	3,200	40.0	3,200	46.0	2,900	50.5	2,600
85	25.5	2,600	35.5	2,500	42.5	2,300	47.5	2,000
90	16.5	2,000	30.5	2,000	38.5	1,700	44.0	1,400
95			24.5	1,400	34.0	1,200	40.5	900
100			16.0	1,000				
Min.Bm. Ang./Cap.	0.0	1,700	8.5		32.0		39.5	
Radius (ft)	93.0		101.5		97.5		96.0	

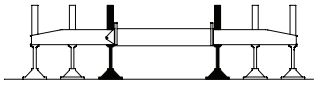
⚠ WARNING

Do Not Raise Boom Above 61° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

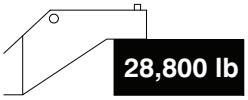
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Rated Lifting Capacities In Pounds



Retracted



EM 2

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠ °	360°	∠ °	360°	∠ °	360°	∠ °	360°
15	59.0	62,300						
20	49.0	37,900						
25	37.0	25,500	53.5	28,000				
30	18.0	17,900	46.0	20,400	55.0	21,600		
35			36.5	15,300	48.5	16,500	56.0	16,900
40			23.5	11,700	41.5	12,800	50.5	13,200
45					33.0	10,100	45.0	10,500
50					21.5	7,900	38.5	8,400
55							30.5	6,600
60							19.5	5,200
Min.Bm. Ang./Cap.	0.0	16,600	0.0	9,900	0.0	6,800	0.0	4,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	∠ °	360°	∠ °	360°	∠ °	360°	∠ °	360°
40	56.5	13,400						
45	52.0	10,700	57.5	10,800				
50	47.0	8,600	53.5	8,700	58.0	8,400		
55	42.0	6,800	49.0	6,900	54.0	6,600	60.5	6,300
60	35.5	5,400	44.5	5,500	50.5	5,200	57.0	4,900
65	28.5	4,200	39.5	4,300	46.5	4,000	54.0	3,700
70	18.5	3,200	33.5	3,300	42.0	3,000	51.0	2,700
75			26.5	2,500	37.0	2,200	47.5	1,800
80			17.5	1,700	32.0	1,400	43.5	1,100
Min.Bm. Ang./Cap.	0.0	2,700	0.0	1,300	26.5		42.5	
Radius (ft)	73.0		83.0		84.2		81.4	

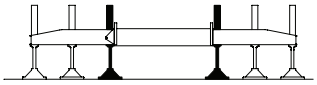
⚠ WARNING

Do Not Raise Boom Above 61° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

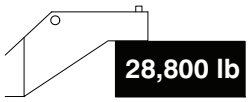
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Not for crane operations

Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.



Retracted



EM 3

Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
	∠°	360°	∠°	360°	∠°	360°	∠°	360°
15	59.0	62,300						
20	49.0	37,900						
25	37.0	25,500	54.5	28,100				
30	18.0	17,900	46.5	20,500	57.5	21,200		
35			37.5	15,400	51.5	16,100	59.5	15,700
40			25.5	11,800	45.5	12,500	54.5	12,200
45					38.0	9,700	49.5	9,400
50					29.5	7,500	44.5	7,300
55					16.5	5,800	38.5	5,600
60							31.5	4,100
65							22.5	3,000
Min.Bm. Ang./Cap.	0.0	16,600	0.0	9,600	0.0	5,300	0.0	2,000
Radius (ft)	31.0		43.7		56.7		69.5	

WARNING

Do Not Raise Boom Above 61° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

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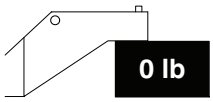
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Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Over Front – Between Tire Tracks



On Tires



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft	
	∠°	Front	∠°	Front	∠°	Front
10	68.0	62,400				
12	64.5	54,100	71.5	47,000		
15	59.0	43,800	67.5	47,000	72.0	33,300
20	49.0	28,300	61.0	31,600	66.5	33,300
25	37.0	17,400	53.5	20,600	61.0	22,100
30	18.0	11,200	46.0	14,300	55.0	15,800
35			36.5	10,300	48.5	11,800
40			23.5	7,400	41.5	8,900
45					33.0	6,700
50					21.5	5,100
Min.Bm. Ang./Cap.	0.0	10,200	0.0	6,000	0.0	4,200
Radius (ft)	31.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft	
	∠°	Front	∠°	Front
20	70.5	29,100		
25	66.0	22,800	69.5	23,200
30	61.0	16,400	65.5	16,800
35	56.0	12,400	61.0	12,700
40	50.5	9,500	56.5	9,900
45	45.0	7,400	52.0	7,800
50	38.0	5,700	47.0	6,100
55	30.5	4,400	41.5	4,800
60	19.5	3,400	35.5	3,800
65			28.5	2,900
70			18.5	2,100
Min.Bm. Ang./Cap.	0.0	2,800	0.0	1,800
Radius (ft)	63.0		73.0	

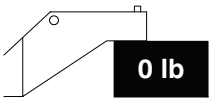
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Not for crane operations

Rated Lifting Capacities In Pounds
On Tires – Pick & Carry
Boom Centered Over Front



On Tires



EM 1

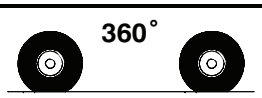
Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph
10	68.0	62,400	47,600						
12	64.5	54,100	41,200	71.5	47,000	43,300			
15	59.0	43,800	33,800	67.5	47,000	36,000	72.0	33,300	33,300
20	49.0	28,300	25,100	61.0	31,600	27,400	66.5	33,300	28,500
25	37.0	17,400	17,400	53.5	20,600	20,600	61.0	22,100	22,100
30	18.0	11,200	11,200	46.0	14,300	14,300	55.0	15,800	15,800
35				36.5	10,300	10,300	48.5	11,800	11,800
40				23.5	7,400	7,400	41.5	8,900	8,900
45							33.0	6,700	6,700
50							21.5	5,100	5,100
Min.Bm. Ang./Cap.	0.0	10,200	10,200	0.0	6,000	6,000	0.0	4,200	4,200
Radius (ft)	31.0			43.0			53.0		

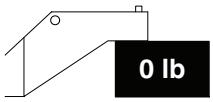
Load Radius (ft)	70.0 ft			80.0 ft		
	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph
20	70.5	29,100	29,100			
25	66.0	22,800	22,800	69.5	23,200	23,200
30	61.0	16,400	16,400	65.5	16,800	16,800
35	56.0	12,400	12,400	61.0	12,700	12,700
40	50.5	9,500	9,500	56.5	9,900	9,900
45	45.0	7,400	7,400	52.0	7,800	7,800
50	38.0	5,700	5,700	47.0	6,100	6,100
55	30.5	4,400	4,400	41.5	4,800	4,800
60	19.5	3,400	3,400	35.5	3,800	3,800
65				28.5	2,900	2,900
70				18.5	2,100	2,100
Min.Bm. Ang./Cap.	0.0	2,800	2,800	0.0	1,800	1,800
Radius (ft)	63.0			73.0		

For sales use only

Not for crane operations

Rated Lifting Capacities In Pounds
On Tires – Stationary





Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft	
	◿ °	360˚	◿ °	360˚	◿ °	360˚
10	68.0	32,500				
12	64.5	22,700	71.0	25,900		
15	59.0	14,200	67.5	17,200	71.5	18,700
20	49.0	6,800	60.5	9,700	66.0	11,000
25	37.0	2,700	53.5	5,500	60.5	6,900
30			45.5	2,900	55.0	4,200
35					48.5	2,400
Min.Bm. Ang./Cap.	32.0		39.0		42.5	
Radius (ft)	26.2		33.6		39.1	

Load Radius (ft)	70.0 ft		80.0 ft	
	◿ °	360˚	◿ °	360˚
20	70.0	11,600		
25	65.5	7,500	69.0	7,800
30	60.5	4,900	65.0	5,200
35	55.5	3,000	60.5	3,400
40	50.5	1,700	56.5	2,100
Min.Bm. Ang./Cap.	47.5		52.0	
Radius (ft)	42.4		44.5	

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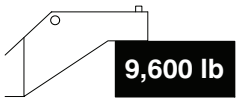
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Not for crane operations

Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Over Front – Between Tire Tracks



On Tires



EM 1

Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	Front	∠°	Front	∠°	Front	∠°	Front
10	68.0	67,500						
12	64.5	60,000	71.5	45,700				
15	59.0	51,300	67.5	45,700				
20	49.0	38,200	61.0	41,200	67.0	30,300		
25	37.0	25,200	54.0	28,300	61.0	29,800	66.0	30,500
30	18.0	17,300	46.0	20,400	55.5	21,900	61.5	22,500
35			36.5	15,300	49.0	16,700	56.0	17,300
40			23.5	11,700	41.5	13,000	51.0	13,700
45					33.0	10,400	45.0	11,100
50					21.5	8,300	38.5	9,000
55							30.5	7,300
60							20.0	6,000
Min.Bm. Ang./Cap.	0.0	16,000	0.0	9,900	0.0	7,300	0.0	5,300
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
	∠°	Front	∠°	Front	∠°	Front
30	65.5	22,900				
35	61.5	17,700	65.5	17,800	68.0	14,100
40	57.0	14,000	61.5	14,200	65.0	14,100
45	52.5	11,500	57.5	11,600	61.5	11,500
50	47.5	9,400	53.5	9,600	58.0	9,500
55	42.0	7,700	49.0	8,000	54.5	7,800
60	36.0	6,400	44.5	6,600	50.5	6,500
65	28.5	5,300	39.5	5,500	46.5	5,400
70	18.5	4,400	34.0	4,600	42.0	4,500
75			27.0	3,800	37.5	3,700
80			17.5	3,100	32.0	3,000
85					25.5	2,400
90					16.5	1,900
95						
Min.Bm. Ang./ Cap.	0.0	3,900	0.0	2,700	0.0	1,700
Radius (ft)	73.0		83.0		93.0	

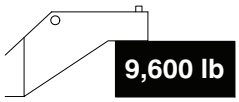
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Rated Lifting Capacities In Pounds
On Tires – Pick & Carry
Boom Centered Over Front



On Tires



EM 1

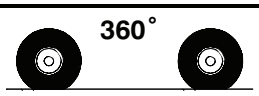
Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	∠ °	Creep	2.5 mph	∠ °	Creep	2.5 mph	∠ °	Creep	2.5 mph	∠ °	Creep	2.5 mph
10	68.0	67,500	50,300									
12	64.5	60,000	43,700	71.5	45,700	45,700						
15	59.0	50,100	36,000	67.5	45,700	38,200						
20	49.0	38,200	26,800	61.0	40,600	29,100	67.0	30,300	30,300			
25	37.0	25,200	20,500	54.0	28,300	22,900	61.0	29,800	24,200	66.0	30,500	24,700
30	18.0	17,300	15,800	46.0	20,400	18,400	55.5	21,900	19,600	61.5	22,500	20,200
35				36.5	15,300	14,900	49.0	16,700	16,100	56.0	17,300	16,700
40				23.5	11,700	11,700	41.5	13,000	13,000	51.0	13,700	13,700
45							33.0	10,400	10,400	45.0	11,100	11,100
50							21.5	8,300	8,300	38.5	9,000	9,000
55										30.5	7,300	7,300
60										20.0	6,000	6,000
Min.Bm. Ang./Cap.	0.0	16,000	14,900	0.0	9,900	9,900	0.0	7,300	7,300	0.0	5,300	5,300
Radius (ft)	31.0			43.0			53.0			63.0		

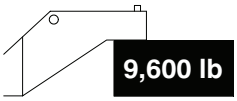
Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft		
	∠ °	Creep	2.5 mph	∠ °	Creep	2.5 mph	∠ °	Creep	2.5 mph
30	65.5	22,900	20,600						
35	61.5	17,700	17,100	65.5	17,800	17,300	68.0	14,100	14,100
40	57.0	14,000	14,000	61.5	14,200	14,200	65.0	14,100	14,100
45	52.5	11,500	11,500	57.5	11,600	11,600	61.5	11,500	11,500
50	47.5	9,400	9,400	53.5	9,600	9,600	58.0	9,500	9,500
55	42.0	7,700	7,700	49.0	8,000	8,000	54.5	7,800	7,800
60	36.0	6,400	6,400	44.5	6,600	6,600	50.5	6,500	6,500
65	28.5	5,300	5,300	39.5	5,500	5,500	46.5	5,400	5,400
70	18.5	4,400	4,400	34.0	4,600	4,600	42.0	4,500	4,500
75				27.0	3,800	3,800	37.5	3,700	3,700
80				17.5	3,100	3,100	32.0	3,000	3,000
85							25.5	2,400	2,400
90							16.5	1,900	1,900
95									
Min.Bm. Ang./Cap.	0.0	3,900	3,900	0.0	2,700	2,700	0.0	1,700	1,700
Radius (ft)	73.0			83.0			93.0		

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Rated Lifting Capacities In Pounds
On Tires – Stationary





Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠ °	360˚	∠ °	360˚	∠ °	360˚	∠ °	360˚
10	68.0	49,800						
12	64.5	35,900	71.0	39,100				
15	59.0	24,000	67.5	26,900				
20	49.0	13,500	61.0	16,500	66.5	17,800		
25	37.0	8,000	53.5	10,700	61.0	12,100	65.5	12,700
30	18.0	4,400	45.5	7,100	55.0	8,500	61.0	9,100
35			36.5	4,600	48.5	5,900	56.0	6,600
40			23.5	2,800	41.5	4,100	50.5	4,700
45					33.0	2,700	44.5	3,400
50					21.5	1,700	38.0	2,300
55							30.5	1,400
Min.Bm. Ang./Cap.	0.0	3,700	0.0	1,900	0.0	1,100	29.0	
Radius (ft)	31.0		43.0		53.0		58.1	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
	∠ °	360˚	∠ °	360˚	∠ °	360˚
30	65.0	9,500				
35	61.0	7,000	64.5	7,200	67.5	7,000
40	56.5	5,100	61.0	5,300	64.0	5,300
45	52.0	3,700	57.0	3,900	61.0	3,900
50	47.0	2,600	53.0	2,800	57.5	2,800
55	41.5	1,800	48.5	2,000	54.0	1,900
60	35.5	1,000	44.0	1,200	50.0	1,200
Min.Bm. Ang./ Cap.	33.5		41.0		48.0	
Radius (ft)	61.3		62.8		62.6	

⚠ WARNING

Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

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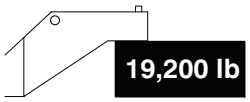
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Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Over Front – Between Tire Tracks



On Tires



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	Front	∠°	Front	∠°	Front	∠°	Front
15	59.0	54,700						
20	49.5	43,300						
25	37.0	33,000	54.0	36,200				
30	18.0	23,400	46.0	26,500	55.5	27,900		
35			36.5	20,300	49.0	21,700	56.5	22,300
40			23.5	15,900	42.0	17,300	51.0	17,900
45					33.5	14,000	45.0	14,700
50					21.5	11,600	38.5	12,200
55							30.5	10,200
60							20.0	8,600
Min.Bm. Ang./Cap.	0.0	21,800	0.0	13,800	0.0	10,300	0.0	7,800
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		110.0 ft	
	∠°	Front	∠°	Front	∠°	Front	∠°	Front
40	57.0	18,300						
45	52.5	15,100	58.0	15,200				
50	47.5	12,600	54.0	12,700	58.5	12,700		
55	42.0	10,700	49.5	10,900	54.5	10,800	58.5	10,700
60	36.0	9,000	45.0	9,200	51.0	9,200	55.5	9,100
65	28.5	7,700	40.0	7,900	47.0	7,800	52.0	7,800
70	18.5	6,600	34.0	6,800	42.5	6,700	48.5	6,700
75			27.0	5,800	37.5	5,800	44.5	5,700
80			17.5	5,000	32.0	4,900	40.5	4,900
85					25.5	4,200	36.0	4,200
90					16.5	3,600	31.0	3,500
95							24.5	3,000
100							16.0	2,500
Min.Bm. Ang./Cap.	0.0	6,000	0.0	4,600	0.0	3,300	0.0	2,200
Radius (ft)	73.0		83.0		93.0		103.0	

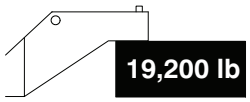
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Rated Lifting Capacities In Pounds
On Tires – Pick & Carry
Boom Centered Over Front



On Tires



EM 1

Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph
15	59.0	52,200	38,100									
20	49.0	40,100	28,600									
25	37.0	31,700	22,000	54.0	34,100	24,400						
30	18.0	23,400	17,100	46.0	26,500	19,600	55.5	27,900	20,900			
35				36.5	20,300	16,000	49.0	21,700	17,300	56.5	22,300	17,900
40				23.5	15,900	13,100	42.0	17,300	14,400	51.0	17,900	15,000
45							33.5	14,000	12,100	45.0	14,700	12,800
50							21.5	11,600	10,200	38.5	12,200	10,900
55										30.5	10,200	9,300
60										20.0	8,600	7,900
Min.Bm. Ang./Cap.	0.0	21,800	16,200	0.0	13,800	11,600	0.0	10,300	9,200	0.0	7,800	7,200
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			110.0 ft		
	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph	∠°	Creep	2.5 mph
40	57.0	18,300	15,400									
45	52.5	15,100	13,100	58.0	15,200	13,300						
50	47.5	12,600	11,300	54.0	12,700	11,500	58.5	12,700	11,400			
55	42.0	10,700	9,700	49.5	10,900	9,900	54.5	10,800	9,900	58.5	10,700	9,800
60	36.0	9,000	8,300	45.0	9,200	8,600	51.0	9,200	8,500	55.5	9,100	8,400
65	28.5	7,700	7,200	40.0	7,900	7,400	47.0	7,800	7,300	52.0	7,800	7,300
70	18.5	6,600	6,200	34.0	6,800	6,400	42.5	6,700	6,300	48.5	6,700	6,300
75				27.0	5,800	5,500	37.5	5,800	5,400	44.5	5,700	5,400
80				17.5	5,000	4,700	32.0	4,900	4,600	40.5	4,900	4,600
85							25.5	4,200	3,900	36.0	4,200	3,900
90							16.5	3,600	3,300	31.0	3,500	3,300
95										24.5	3,000	2,700
100										16.0	2,500	2,200
Min.Bm. Ang./Cap.	0.0	6,000	5,600	0.0	4,600	4,300	0.0	3,300	3,000	0.0	2,200	1,900
Radius (ft)	73.0			83.0			93.0			103.0		

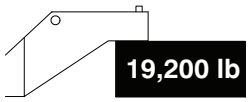
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Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Centered Over Front



On Tires



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
15	59.0	33,700						
20	49.0	20,400						
25	37.0	13,200	53.5	15,900				
30	18.0	8,700	45.5	11,400	55.0	12,700		
35			36.5	8,200	48.5	9,500	56.0	10,200
40			23.5	5,900	41.5	7,200	50.5	7,800
45					33.0	5,500	44.5	6,100
50					21.5	4,100	38.0	4,700
55							30.5	3,600
60							19.5	2,700
Min.Bm. Ang./Cap.	0.0	7,800	0.0	4,800	0.0	3,400	0.0	2,200
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		110.0 ft	
	∠°	360˚	∠°	360˚	∠°	360˚	∠°	360˚
40	56.5	8,200						
45	52.0	6,500	57.0	6,700				
50	47.0	5,100	53.0	5,300	57.5	5,200		
55	41.5	4,000	49.0	4,100	54.0	4,100	58.0	4,100
60	35.5	3,000	44.0	3,200	50.0	3,200	54.5	3,100
65	28.5	2,300	39.0	2,500	46.0	2,400	51.5	2,400
70	18.5	1,600	33.5	1,800	42.0	1,800	47.5	1,700
75			26.5	1,200	37.0	1,200	44.0	1,100
Min.Bm. Ang./Cap.	0.0	1,300	19.5		32.0		40.5	
Radius (ft)	73.0		78.8		79.7		79.1	

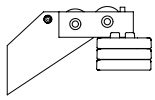
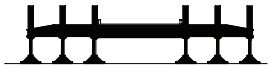
WARNING

Do Not Raise Boom Above 60° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

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Backward Stability – Maximum Boom Angle

				
		Outrigger Position		
Counterweight (lb)	On Tires	Retracted	Intermediate	Full
0	80˚	80˚	80˚	
9,600	75˚			
19,200	60˚	75˚		
28,800	42˚	61˚		
Maximum boom angle is based on retracted boom at the least stable over side position.				

Wind Speed Restrictions

If The Wind Speed Is:	Rated Lifted Capacities Must Be Reduced By At Least:
0–20 mph	Normal Lifting Operations (See Capacity Charts)
21–29 mph	40%
30–39 mph	70%
40 mph or Greater	Crane operation must be shutdown and the boom retracted and lowered to horizontal.

- Additional reductions are required for loads with large wind sail area.
- These restrictions are based on crane on fully extended outriggers.
- During high winds (above 21 mph), the operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.

Hydraulic Circuit Pressure Settings

Function	Pressure (psi)
Front And Rear Winch	3,500
Outriggers	3,000
Boom Hoist	4,300
Telescope	4,300
Swing	2,000
Steering	2,500
Pilot Control	500

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