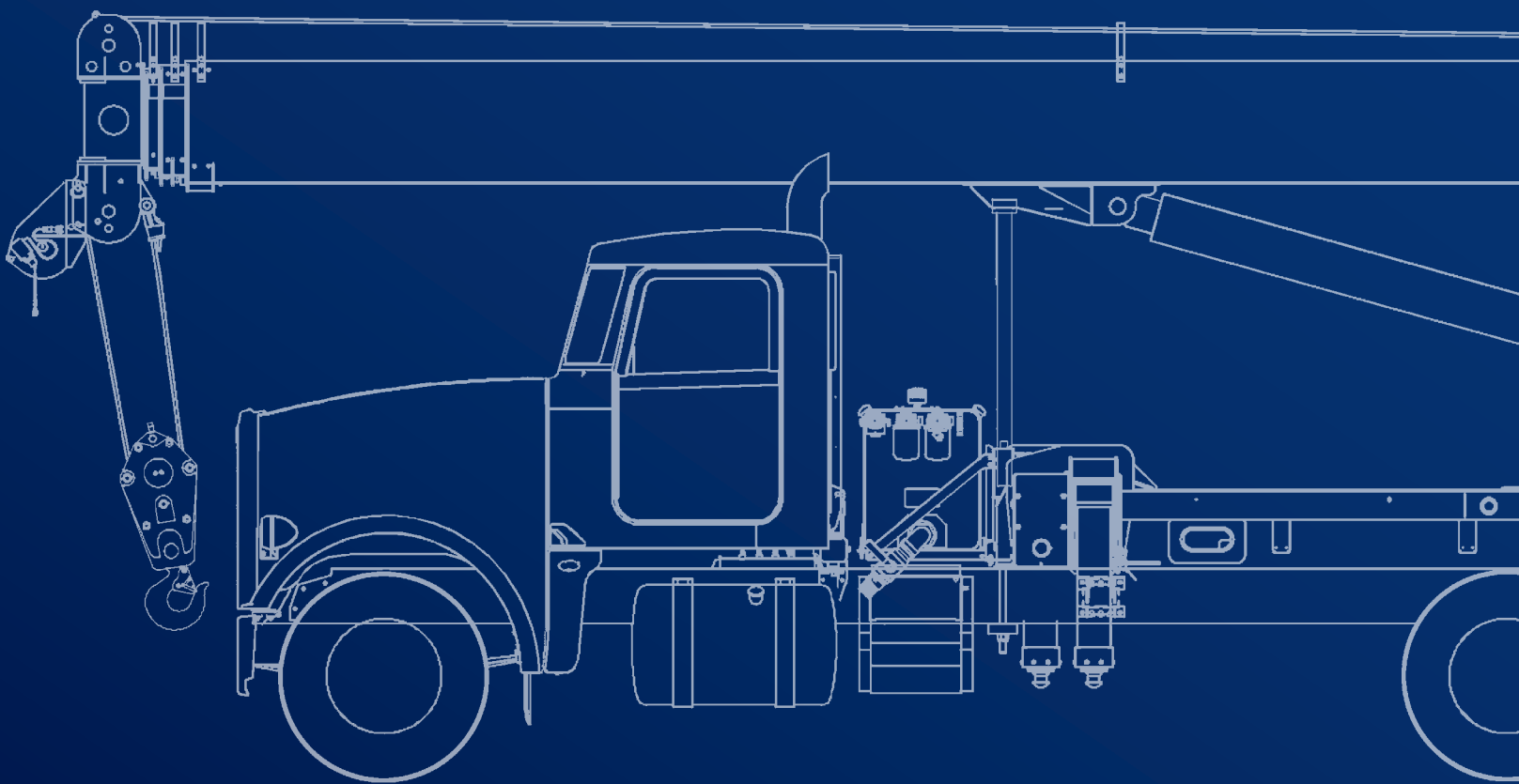


TC 500.1

SERIES PRODUCT GUIDE

50 TON (45 MT) TELESCOPIC CRANE

Manitex





October 2025. Unless otherwise specified, all information in this brochure refers to a standard crane equipment, and it is intended as general information only. No liability is assumed. Errors reserved. Product specifications and prices are subject to changes without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. For correct and safe crane operation, the original operating manual and lifting capacity charts are essential. Failure to follow the corresponding Operator's Manual when using our equipment or failure to otherwise act responsibly may result in property damage, serious injury or death. The sole warranty applicable with respect to our equipment is the standard warranty as per general terms and conditions of sales and service (ask your local Tadano dealer for details), and Tadano makes no other warranty, express or implied. All rights reserved. Any use of the trademarks, logos, brand names and model names used herein is prohibited.

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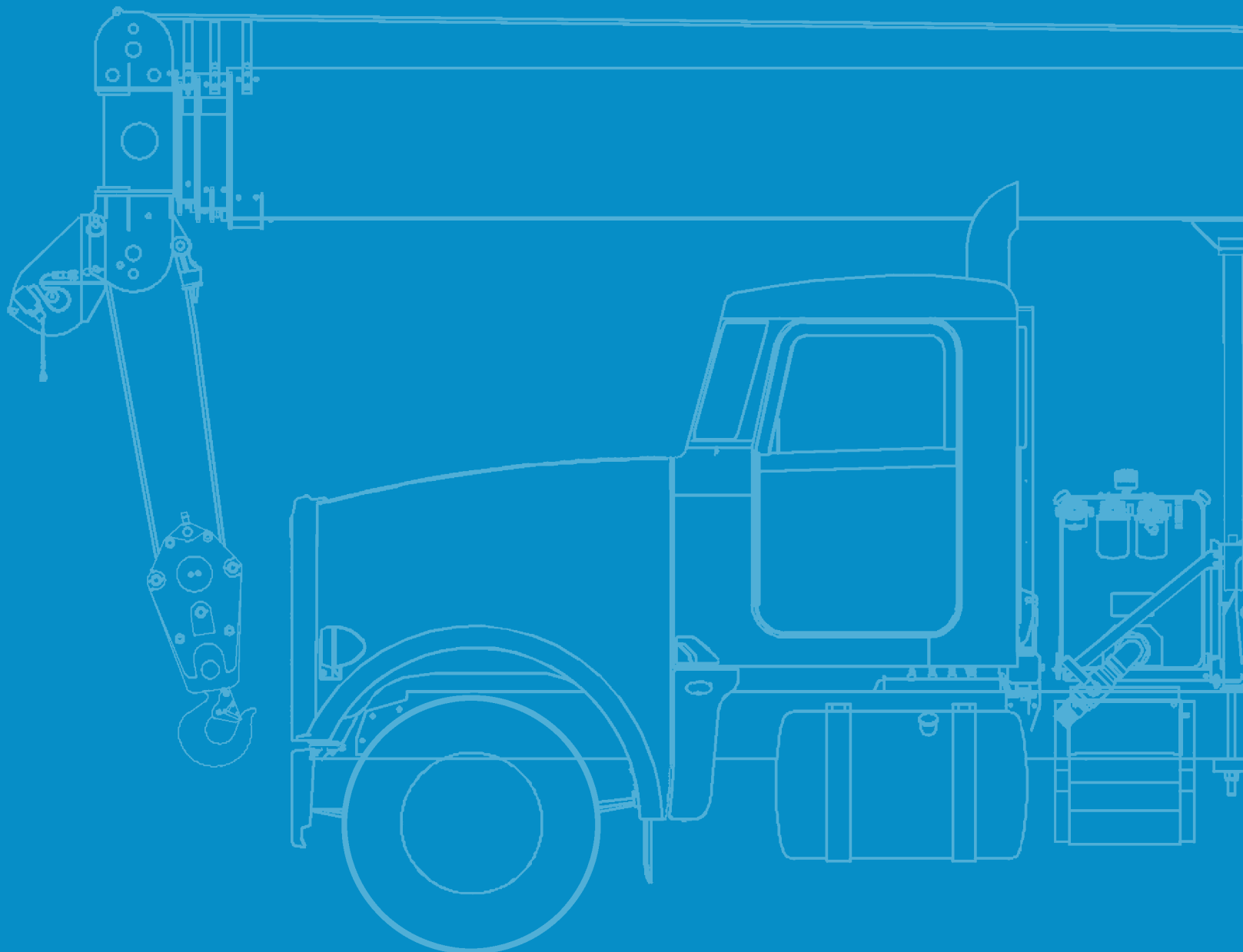
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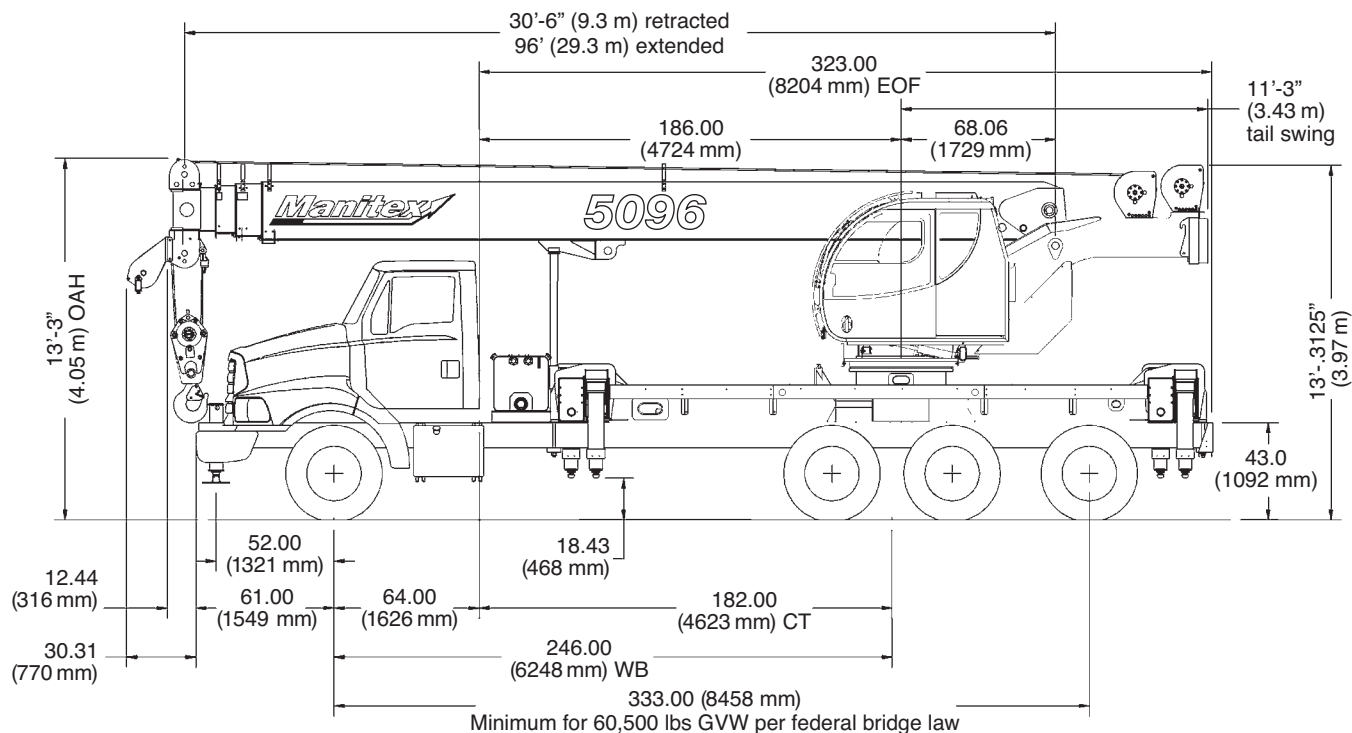
	Operator aids		Radio remote control
	Cab		Hook block
	Heating / Air conditioning		Distance from hook to head sheave pin
	Controls		Hook and ball
	Hoist speed		Hydraulics
	1 - Main hoist 3 - Recovery winch		Boom elevation angle
	Rope length		Max. boom length with extension
	Rope – Standard / optional		Boom with extension retracted
	Rope diameter		Boom angle
	Permissible line pull		Telescoping mode
	Maximum line pull		Working radius
	Slewing / Allowable slewing range		Boom length
	Slewing gears		Hydraulic actuated boom
	Slewing brake		Full power mechanical synchronized
	Outriggers / Lifting on outriggers		Boom head / Hook block dimension
	2-person man basket		Main boom with auxiliary head
	Counterweight		Tip height

TC500.1

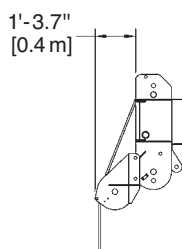


5096 Chassis Data

Dimensions



Auxiliary Sheave Head



Crane Weight

Model	5096
Crane	35,755 lbs (16,218 kg)
Jib fixed	1,510 lbs (685 kg)
Jib telescopic	1,870 lbs (848 kg)
Aluminum platform	621 lbs (282 kg)

Chassis Data

Model	5096
Frame section modulus at 180° / 360° area of operation*	27.0 in ³ 120,000 psi 827,371 kPa

* Frame section modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Weight

Model	5096
Min. truck axle weight – Front**	9,100 lbs (4,127 kg)
Min. truck axle weight – Rear**	11,150 lbs (5,057 kg)
Nominal frame width	34 in. (864 mm)

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

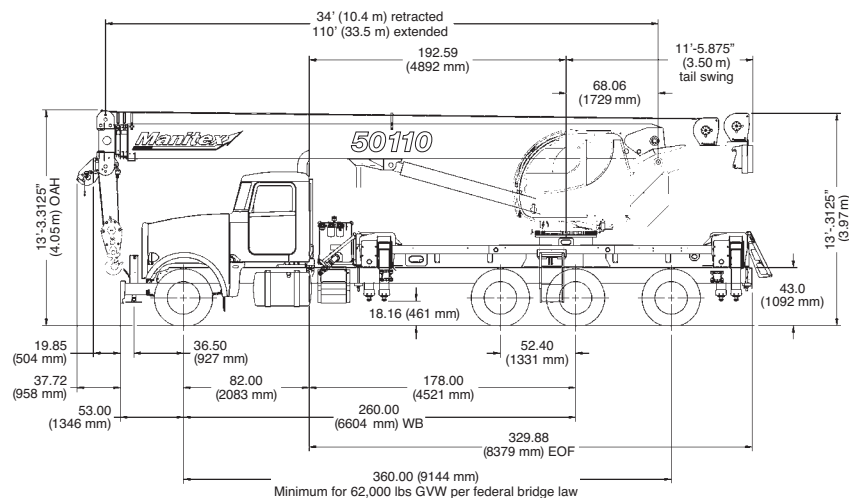
Notes: Additional axles required for federal bridge legal configuration – consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations – consult Manitex.

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

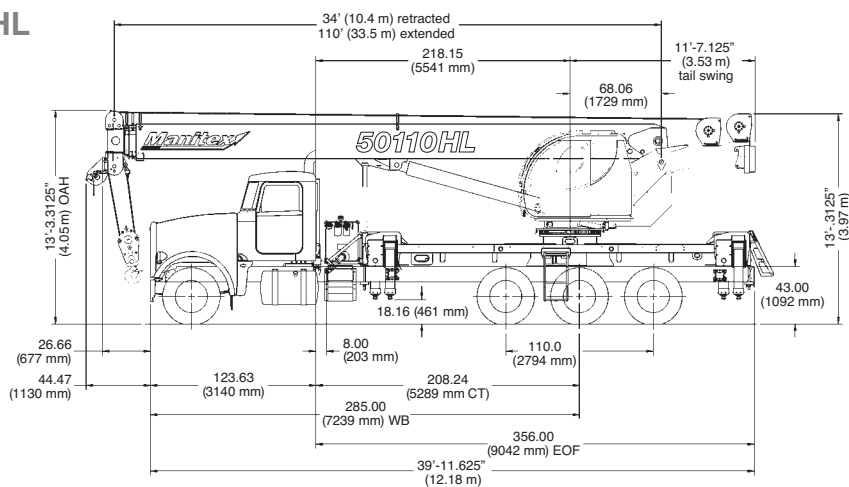
50110 and 50110HL Chassis Data

Dimensions

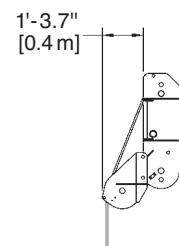
50110



50110HL



Auxiliary Sheave Head



Chassis Data

Model	50110	50110HL
Frame section modulus at 180° / 360° area of operation*	27.0 in ³ 120,000 psi · 827,371 kPa	27.0 in ³ 120,000 psi · 827,371 kPa

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Weight

Min. truck axle weight – Front**	9,000 lbs (4,173 kg)	10,700 lbs (4,853 kg)
Min. truck axle weight – Rear**	10,600 lbs (4,808 kg)	15,200 lbs (6,894 kg)
Nominal frame width	34 in. (864 mm)	34 in. (864 mm)

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

Crane Weight

Crane	37,422 lbs (16,974 kg)	43,846 lbs (19,888 kg)
Jib fixed	1,510 lbs (685 kg)	1,510 lbs (685 kg)
Jib telescopic	1,870 lbs (848 kg)	1,870 lbs (848 kg)
Aluminum platforms	621 lbs (282 kg)	621 lbs (282 kg)

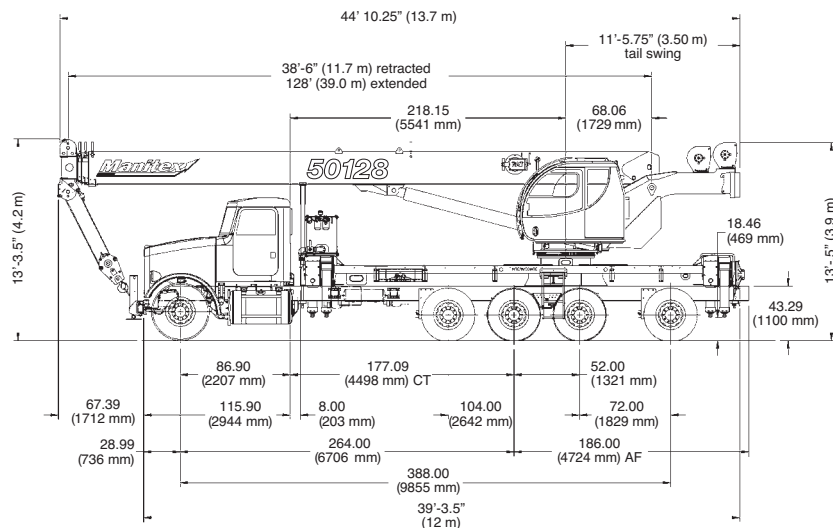
Notes: Additional axles required for federal bridge legal configuration – consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations – consult Manitex.

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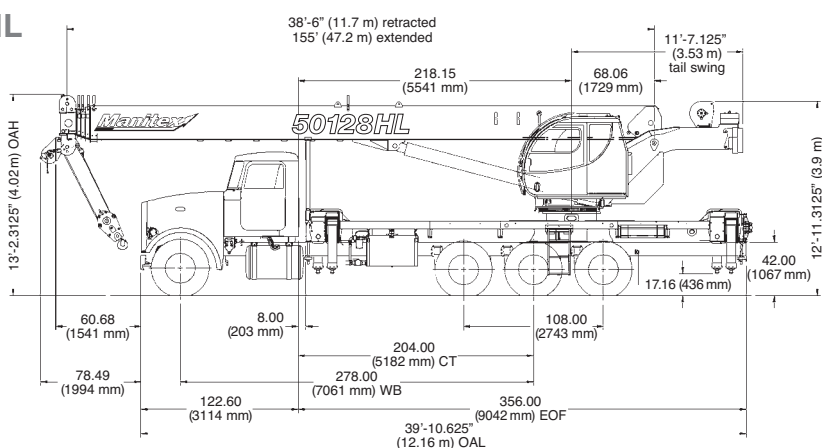
50128 and 50128HL Chassis Data

Dimensions

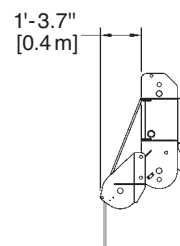
50128



50128HL



Auxiliary Sheave Head



Chassis Data

Model	50128	50128HL
Frame section modulus at 180° / 360° area of operation*	27.0 in ³ 110,000 psi · 758,423 kPa	27.0 in ³ 110,000 psi · 758,423 kPa

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Weight

Min. truck axle weight – Front**	9,100 lbs (4,127 kg)	11,100 lbs (5,034 kg)
Min. truck axle weight – Rear**	13,985 lbs (6,344 kg)	12,500 lbs (5,670 kg)
Nominal frame width	34 in. (864 mm)	34 in. (864 mm)

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

Crane Weight

Crane	38,955 lbs (17,670 kg)	45,379 lbs (20,584 kg)
Jib fixed	1,510 lbs (685 kg)	1,510 lbs (685 kg)
Jib telescopic	1,870 lbs (848 kg)	1,870 lbs (848 kg)
Aluminum platforms	621 lbs (282 kg)	621 lbs (282 kg)

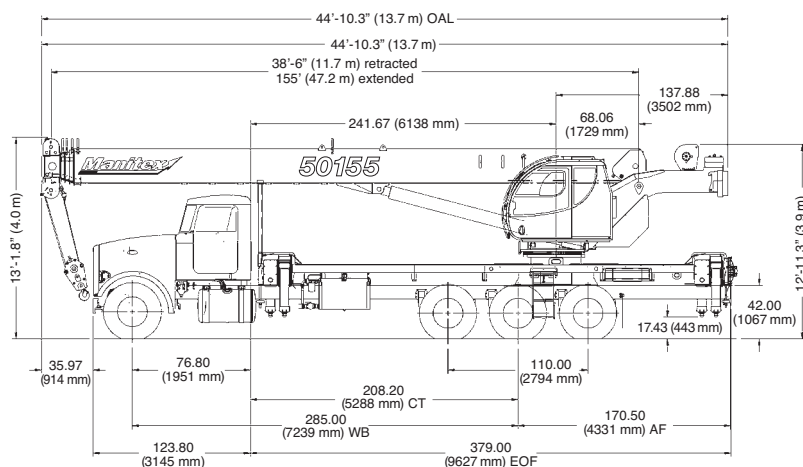
Notes: Additional axles required for federal bridge legal configuration – consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations – consult Manitex.

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

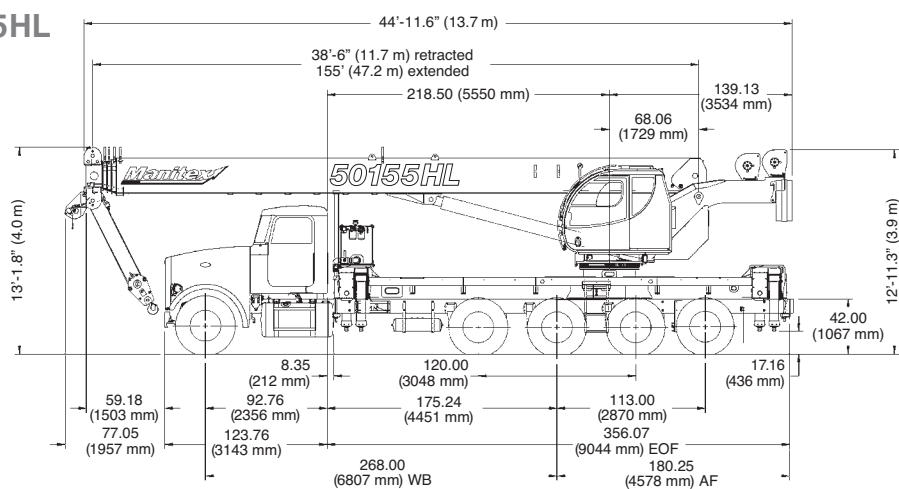
50155 and 50155HL Chassis Data

Dimensions

50155

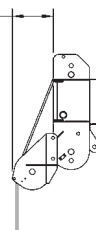


50155HL



Auxiliary Sheave Head

1'-3.7"
[0.4 m]



Chassis Data

Model	50155	50155HL
Frame section modulus at 180° / 360° area of operation*	27.0 in ³ 110,000 psi · 758,423 kPa	27.0 in ³ 110,000 psi · 758,423 kPa

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Weight

Min. truck axle weight – Front**	10,750 lbs (4,876 kg)	9,500 lbs (4,309 kg)
Min. truck axle weight – Rear**	12,300 lbs (5,579 kg)	13,400 lbs (6,078 kg)
Nominal frame width	34 in. (864 mm)	34 in. (864 mm)

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

Crane Weight

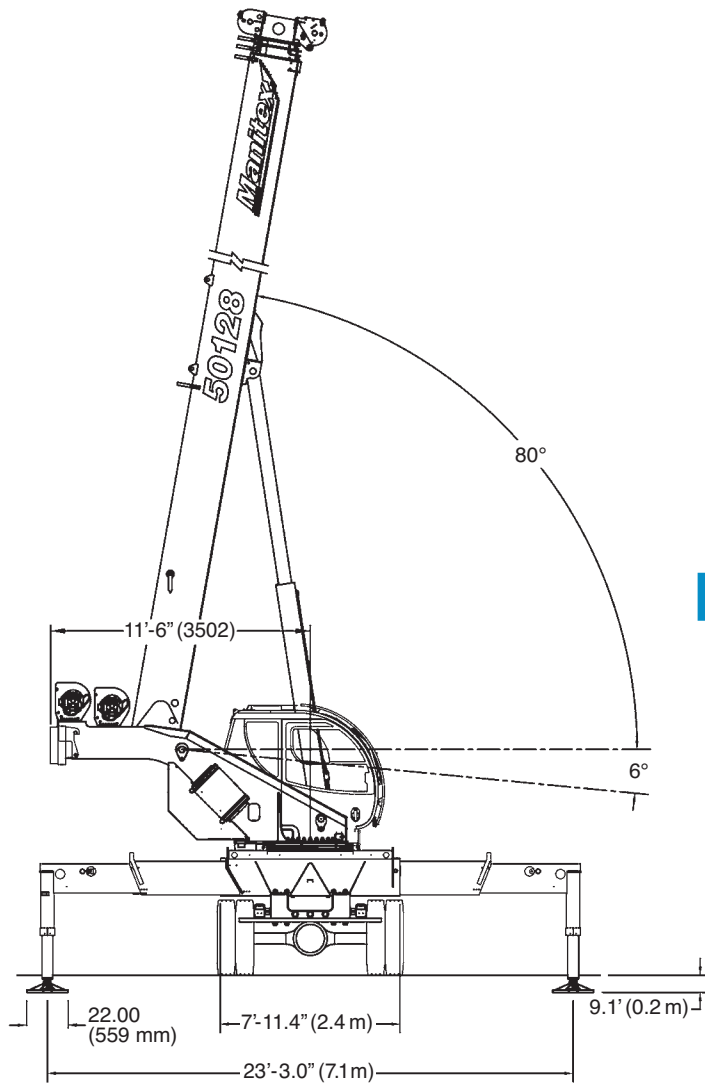
Crane	39,175 lbs (17,796 kg)	45,605 lbs (20,686 kg)
Jib fixed	1,510 lbs (685 kg)	1,510 lbs (685 kg)
Jib telescopic	N/A	N/A
Aluminum platforms	621 lbs (282 kg)	621 lbs (282 kg)

Notes: Additional axles required for federal bridge legal configuration – consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations – consult Manitex.

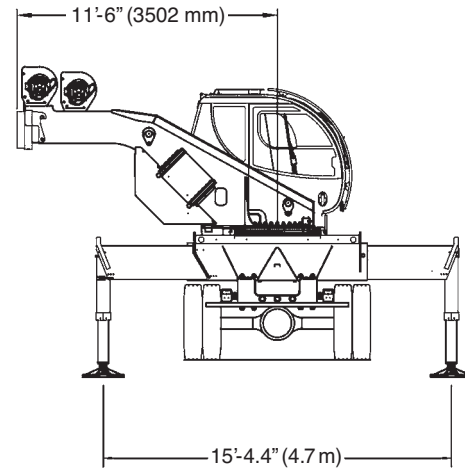
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

Outrigger Extension

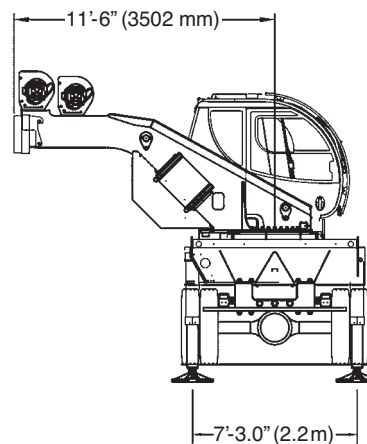
Full Extension



Middle Extension



Full Retraction



Sub Frame

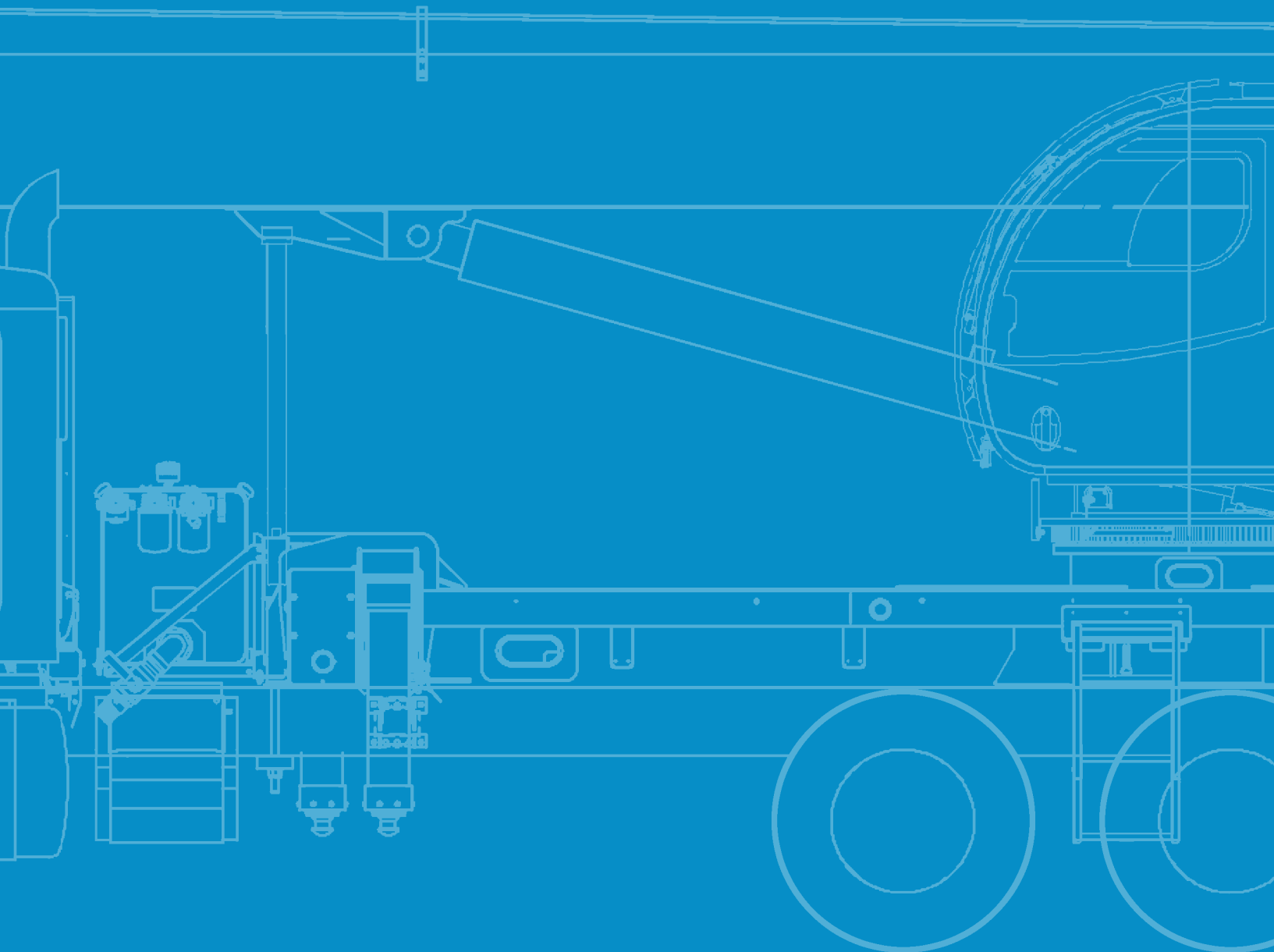
- Pedestal sub-frame and stabilizers are mounted to chassis by threaded rods and clamp plates
- Sub-frame: Torsion resistant, rigid 4-plate design mounted under crane full length of truck frame
- Rear underride protection: Standard on factory mounted cranes

Electrical System

- State-of-the-art, weather-resistant components throughout
- Hermetically sealed enclosure includes power in relays and circuit status LEDs
- 12-24 Volt capability

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

TC500.1



5096 Load Chart

Main Boom

30.5 ft – 96.0 ft – 4 section							 23'-3" (7.07 m)			Fully Extended (100 %)					
 30.5 ft				 48.0 ft (A)			 64.0 ft (B)			 80.0 ft (C)			 96.0 ft (D)		
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs
6	69	100,000	100,000	-	-	-	-	-	-	-	-	-	-	-	-
8	65	90,400	90,400	-	-	-	-	-	-	-	-	-	-	-	-
10	61	80,000	80,000	73	51,000	51,000	-	-	-	-	-	-	-	-	-
12	56	71,800	71,800	70	51,000	51,000	76	40,000	40,000	-	-	-	-	-	-
15	49	61,700	61,700	66	51,000	51,000	73	40,000	40,000	77	27,500	27,500	-	-	-
20	34	46,100	46,100	59	47,000	47,000	69	37,700	37,700	74	27,500	27,500	78	18,000	18,000
25	-	-	-	52	36,800	36,800	64	30,400	30,400	70	24,300	24,300	75	18,000	18,000
30	-	-	-	44	29,480	25,890	59	27,040	26,420	66	21,280	21,280	72	17,500	17,500
35	-	-	-	34	22,630	19,320	53	23,100	19,830	62	19,050	19,050	69	16,240	16,240
40	-	-	-	20	18,020	15,030	47	18,510	15,550	58	16,980	15,820	65	14,660	14,660
45	-	-	-	-	-	-	40	15,230	12,550	53	15,250	12,810	62	13,280	12,970
50	-	-	-	-	-	-	32	12,750	10,320	49	13,000	10,580	58	12,130	10,730
55	-	-	-	-	-	-	21	10,810	8,590	44	11,070	8,860	54	11,080	9,020
60	-	-	-	-	-	-	-	-	-	38	9,530	7,500	50	9,680	7,650
65	-	-	-	-	-	-	-	-	-	31	8,260	6,380	46	8,420	6,540
70	-	-	-	-	-	-	-	-	-	22	7,200	5,450	41	7,360	5,620
75	-	-	-	-	-	-	-	-	-	-	-	-	36	6,470	4,840
80	-	-	-	-	-	-	-	-	-	-	-	-	30	5,700	4,170
85	-	-	-	-	-	-	-	-	-	-	-	-	23	5,020	3,580
90	-	-	-	-	-	-	-	-	-	-	-	-	8	4,410	3,050

Deductions from main boom capacities for stowed jibs

SJ	1,080 lbs	690 lbs	520 lbs	410 lbs	350 lbs
EJR	3,050 lbs	2,680 lbs	2,520 lbs	2,420 lbs	2,360 lbs
EJE	3,470 lbs	2,590 lbs	2,720 lbs	2,580 lbs	2,490 lbs

SJ = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

↑	Structural
↓	Stability

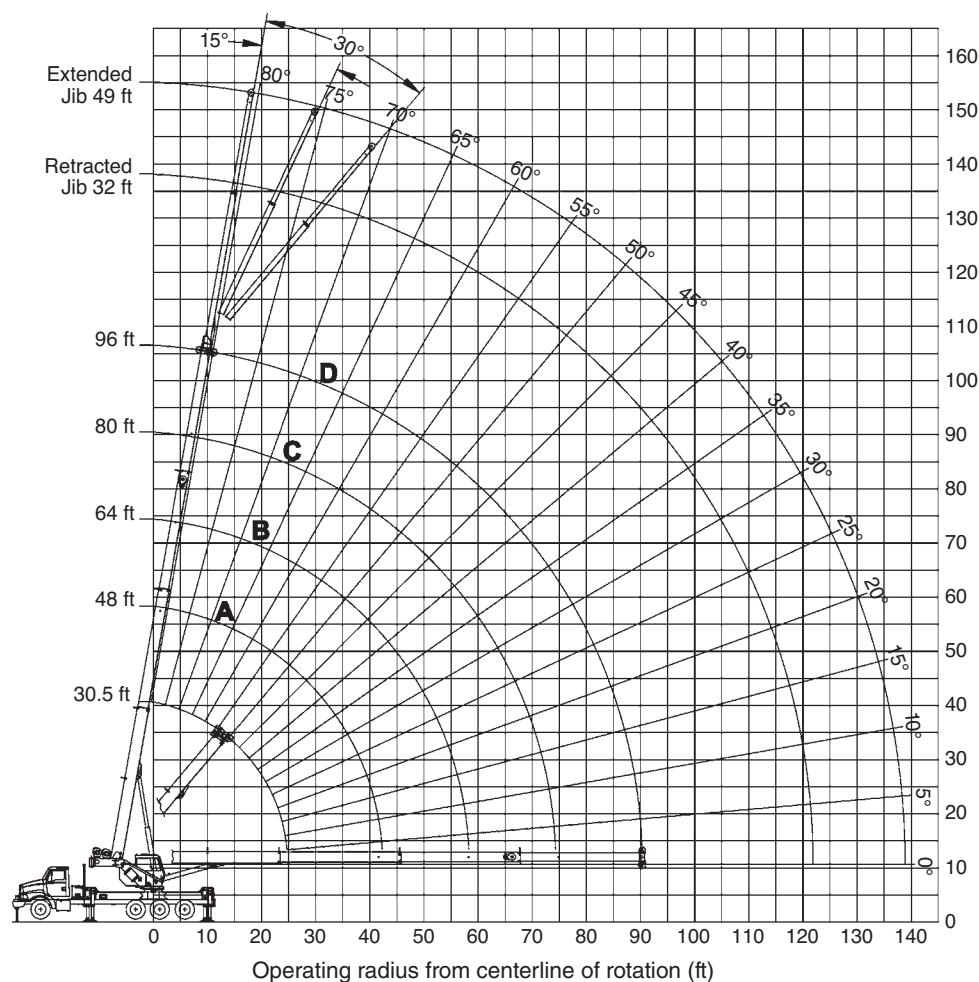
NOTES:

All “on outriggers” loads are based on 85% tipping
 Loads based on crane on outriggers
 Loads above heavy line are based on structural rating
 Loads below heavy line are based on stability rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

5096 Boom Diagram and Jib Load Capacities

Main Boom Jib



23'-3" (7.07 m)										Fully Extended (100 %)									
32 ft retracted jib load capacities										49 ft extended jib load capacities									
0° Offset				15° Offset				30° Offset				0° Offset				15° Offset			
ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°
35	75	8,500	8,500	-	-	-	-	-	-	-	-	40	75	5,600	5,600	-	-	-	-
40	73	8,500	8,500	76	7,600	7,600	-	-	-	-	-	45	73	5,600	5,600	77	4,530	4,530	-
45	71	8,320	8,320	74	7,600	7,600	76	5,900	5,900	50	71	5,600	5,600	75	4,530	4,530	-	-	-
50	68	7,790	7,790	72	7,140	7,140	74	5,900	5,900	55	69	5,600	5,600	73	4,300	4,300	77	3,350	3,350
55	66	7,290	7,290	69	6,700	6,700	72	5,700	5,700	60	67	5,300	5,300	71	4,080	4,080	75	3,350	3,350
60	63	6,830	6,830	66	6,280	6,280	69	5,520	5,520	65	65	4,960	4,960	69	3,900	3,900	73	3,230	3,230
65	61	6,380	6,380	64	5,900	5,900	66	5,350	5,350	70	63	4,670	4,670	67	3,710	3,710	71	3,120	3,120
70	58	5,980	5,650	61	5,500	5,500	63	5,200	5,200	75	61	4,400	4,400	65	3,550	3,550	68	3,020	3,020
75	55	5,610	4,850	58	5,240	5,200	60	5,000	5,000	80	58	4,160	4,160	62	3,410	3,410	66	2,930	2,930
80	52	5,270	4,180	55	4,960	4,480	57	4,760	4,720	85	55	3,940	3,940	60	3,270	3,270	63	2,850	2,850
85	49	4,970	3,590	52	4,700	3,860	54	4,540	4,060	90	53	3,730	3,670	57	3,150	3,150	60	2,770	2,770
90	46	4,410	3,080	49	4,460	3,310	51	4,330	3,480	95	50	3,550	3,210	54	3,030	3,030	57	2,710	2,710
95	42	3,890	2,630	45	4,080	2,830	47	4,150	2,970	100	47	3,380	2,800	51	2,930	2,930	54	2,650	2,650
100	38	3,420	2,220	41	3,590	2,400	43	3,700	2,510	105	44	3,230	2,440	48	2,830	2,710	51	2,600	2,600
105	34	3,010	1,870	37	3,150	2,010	38	3,220	2,090	110	41	3,090	2,110	45	2,750	2,350	48	2,550	2,530
110	29	2,630	1,540	32	2,740	1,650	32	2,780	1,700	115	38	2,850	1,820	42	2,670	2,030	44	2,520	2,170
115	23	2,290	1,250	25	2,360	1,320	24	2,360	1,320	120	34	2,540	1,550	38	2,600	1,730	40	2,510	1,830
120	14	1,980	980	14	2,000	1,000	-	-	-	125	30	2,260	1,310	33	2,400	1,450	34	2,460	1,520
										130	25	1,990	1,080	28	2,100	1,180	27	2,110	1,200
										135	18	1,750	870	20	1,800	930	-	-	-

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50110 Load Chart

Main Boom

 34.0 ft – 110.0 ft – 4 section							 23'-3" (7.07 m)				Fully Extended (100 %)				
 34.0 ft				 42.0 ft (A)			 51.0 ft (B)			 59.0 ft (C)			 68.0 ft (D)		
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs
6	71	100,000	100,000	-	-	-	-	-	-	-	-	-	-	-	-
8	67.5	88,500	88,500	72	51,000	51,000	75.5	51,000	51,000	78	51,000	51,000	-	-	-
10	63.5	78,200	78,200	69	51,000	51,000	73.5	51,000	51,000	76	51,000	51,000	78	47,380	47,380
12	60	70,200	70,200	66	51,000	51,000	71	51,000	51,000	74	51,000	51,000	76.5	45,140	45,140
15	53.5	60,600	60,600	61.5	51,000	51,000	67.5	51,000	51,000	71	49,770	49,770	74	42,140	42,140
20	42	46,200	46,200	53.5	46,700	46,700	61	46,400	46,400	65.5	44,310	44,310	69.5	37,820	37,820
25	26.5	35,800	35,800	44	36,300	36,300	54.5	36,700	36,700	60	36,900	36,900	65	32,530	32,530
30	-	-	-	33	29,340	25,770	47	29,720	26,320	54.5	29,930	26,640	60	28,560	26,900
35	-	-	-	15.5	22,960	18,990	38.5	23,490	19,560	48	23,770	19,860	55	23,990	20,100
40	-	-	-	-	-	-	27.5	18,680	15,160	40.5	18,960	15,460	49.5	19,180	15,690
45	-	-	-	-	-	-	7	15,170	12,010	32	15,510	12,370	43.5	15,730	12,600
50	-	-	-	-	-	-	-	-	-	20.5	12,910	10,060	37	13,140	10,310
55	-	-	-	-	-	-	-	-	-	-	-	-	28.5	11,110	8,530
60	-	-	-	-	-	-	-	-	-	-	-	-	16.5	9,470	7,100

Deductions from main boom capacities for stowed jibs

SJ	1,150 lbs	930 lbs	770 lbs	670 lbs	580 lbs
EJR	2,940 lbs	2,770 lbs	2,640 lbs	2,560 lbs	2,490 lbs
EJE	3,320 lbs	3,080 lbs	2,890 lbs	2,780 lbs	2,680 lbs

76.0 ft (E)				85.0 ft (F)			93.0 ft (G)			102.0 ft (H)			110.0 ft (I)		
ft	°	Over rear	Full 360°	°	Over rear	Full 360°	°	Over rear	Full 360°	°	Over rear	Full 360°	°	Over rear	Full 360°
lbs		lbs		lbs		lbs	lbs	lbs		lbs		lbs	lbs		lbs
12	78.5	39,530	39,530	-	-	-	-	-	-	-	-	-	-	-	-
15	76	37,080	37,080	78	30,830	30,830	-	-	-	-	-	-	-	-	-
20	72	31,860	31,860	74.5	26,790	26,790	76.5	24,480	24,480	78	21,860	21,860	-	-	-
25	68	27,740	27,740	71	23,230	23,230	73	21,500	21,500	75	19,820	19,820	76.5	15,500	15,500
30	64	24,220	24,220	67.5	20,390	20,390	70	19,210	19,210	72.5	17,730	17,730	74	15,500	15,500
35	59.5	21,390	20,260	63.5	18,270	18,270	66.5	17,050	17,050	69.5	15,830	15,830	71.5	14,660	14,660
40	55	19,300	15,840	60	16,260	15,980	63	15,260	15,260	66.5	14,210	14,210	68.5	13,320	13,320
45	50	15,870	12,750	55.5	14,570	12,870	59.5	13,700	12,960	63	12,810	12,810	66	12,080	12,080
50	45	13,280	10,450	51.5	13,130	10,580	56	12,370	10,660	60	11,600	10,740	63	10,970	10,800
55	39	11,260	8,680	47	11,380	8,810	52	11,220	8,890	56.5	10,530	8,970	59.5	10,000	9,020
60	32	9,640	7,270	41.5	9,760	7,400	47.5	9,840	7,490	53	9,840	7,560	56.5	9,330	7,610
65	23.5	8,300	6,120	36	8,430	6,250	43	8,510	6,340	49	8,590	6,410	53.5	8,530	6,470
70	7	7,150	5,130	29.5	7,320	5,300	38	7,410	5,390	45	7,480	5,460	50	7,530	5,520
75	-	-	-	20.5	6,370	4,480	32.5	6,470	4,580	40.5	6,540	4,660	46	6,590	4,710
80	-	-	-	-	-	-	25.5	5,650	3,890	36	5,740	3,970	42	5,790	4,030
85	-	-	-	-	-	-	15	4,940	3,280	30	5,030	3,380	37.5	5,090	3,430
90	-	-	-	-	-	-	-	-	-	23	4,420	2,850	33	4,480	2,910
95	-	-	-	-	-	-	-	-	-	12	3,860	2,370	27	3,930	2,450
100	-	-	-	-	-	-	-	-	-	-	-	-	19	3,440	2,040

Deductions from main boom capacities for stowed jibs

SJ	520 lbs	460 lbs	420 lbs	390 lbs	360 lbs
EJR	2,440 lbs	2,400 lbs	2,370 lbs	2,340 lbs	2,320 lbs
EJE	2,610 lbs	2,550 lbs	2,510 lbs	2,460 lbs	2,430 lbs

SJ = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

↑	Structural
↓	Stability

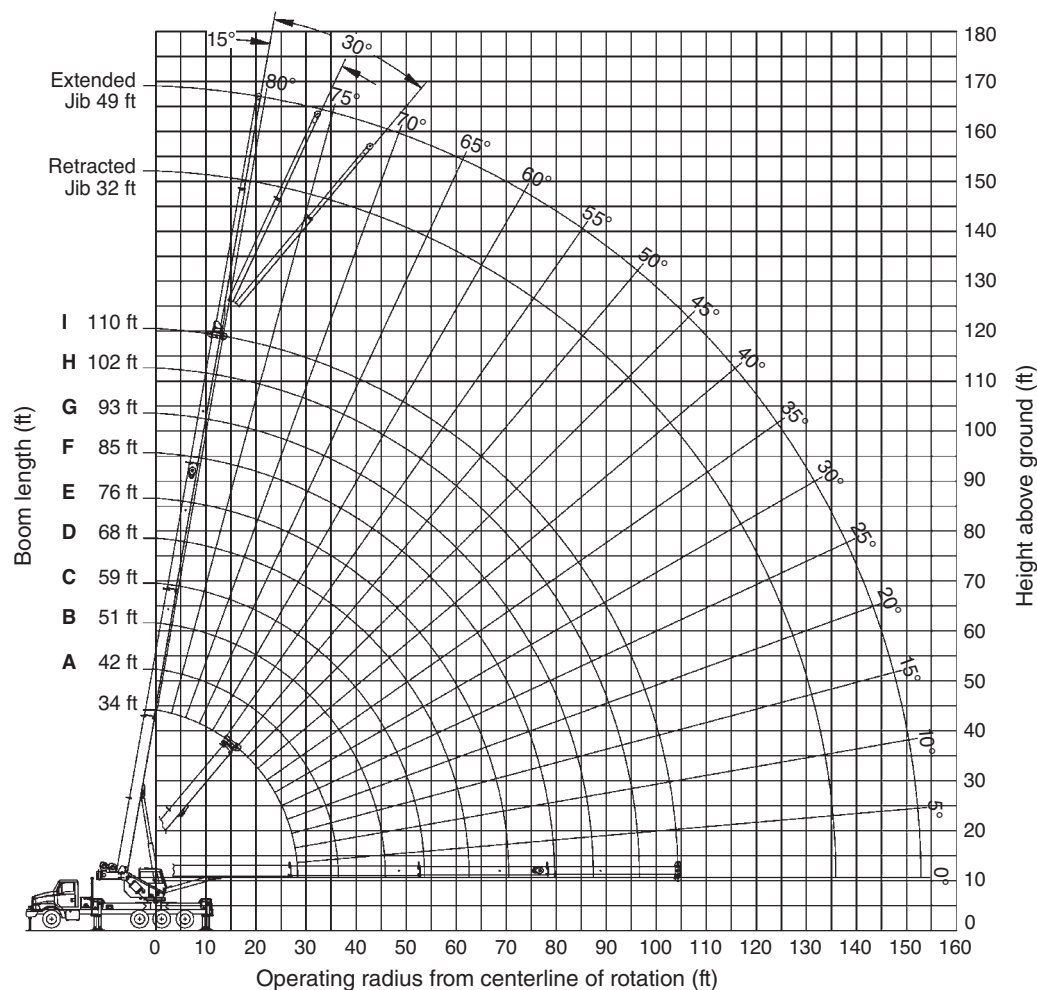
NOTES:

All "on outriggers" loads are based on 85% tipping
 Loads based on crane on outriggers
 Loads above heavy line are based on structural rating
 Loads below heavy line are based on stability rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50110 Boom Diagram and Jib Load Capacities

Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100 %)

32 ft retracted jib load capacities											
0° Offset				15° Offset			30° Offset				
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs		
35	76.5	7,300	7,300	-	-	-	-	-	-		
40	74.5	7,300	7,300	-	-	-	-	-	-		
45	72.5	7,300	7,300	76	6,500	6,500	-	-	-		
50	70.5	7,300	7,300	73.5	6,500	6,500	76	5,800	5,800		
55	68.5	6,980	6,980	71.5	6,500	6,500	74	5,800	5,800		
60	66.5	6,600	6,600	69.5	6,120	6,120	72	5,750	5,750		
65	64	6,230	6,230	67	5,780	5,780	69.5	5,450	5,450		
70	62	5,870	5,330	65	5,450	5,450	67	5,160	5,160		
75	59.5	5,530	4,520	62.5	5,160	4,930	64.5	4,900	4,900		
80	57	5,110	3,830	60	4,880	4,200	62	4,670	4,500		
85	54.5	4,690	3,240	57.5	4,630	3,570	59.5	4,450	3,830		
90	52	4,270	2,720	54.5	4,400	3,010	56.5	4,250	3,250		
95	49	3,730	2,260	51.5	3,990	2,530	53.5	4,070	2,730		
100	46	3,250	1,860	48.5	3,480	2,090	50.5	3,650	2,260		
105	43	2,820	1,490	45.5	3,020	1,700	47	3,160	1,840		
110	39.5	2,440	1,170	42	2,610	1,350	43.5	2,720	1,460		
115	35.5	2,080	870	38	2,230	1,020	39	2,320	1,110		
120	31.5	1,770	-	34	1,890	-	34.5	1,940	790		
125	26.5	1,470	-	29	1,570	-	29	1,590	-		
130	20.5	1,200	-	22	1,260	-	20	1,240	-		
135	10	950	-	-	-	-	-	-	-		

49 ft extended jib load capacities											
0° Offset				15° Offset			30° Offset				
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs		
40	77	5,400	5,400	-	-	-	-	-	-		
45	75	5,400	5,400	-	-	-	-	-	-		
50	73.5	5,400	5,400	77	4,700	4,700	-	-	-		
55	71.5	5,400	5,400	75	4,700	4,700	-	-	-		
60	69.5	5,400	5,400	73.5	4,480	4,480	77	3,520	3,520		
65	68	5,230	5,230	71.5	4,280	4,280	75	3,520	3,520		
70	66	4,930	4,930	69.5	4,100	4,100	73.5	3,410	3,410		
75	64	4,660	4,660	67.5	3,940	3,940	71	3,310	3,310		
80	62	4,410	4,410	65.5	3,790	3,790	69	3,210	3,210		
85	60	4,170	3,840	63.5	3,650	3,650	67	3,130	3,130		
90	57.5	3,950	3,320	61.5	3,520	3,520	64.5	3,050	3,050		
95	55.5	3,750	2,850	59	3,400	3,280	62	2,980	2,980		
100	53	3,560	2,440	57	3,290	2,830	59.5	2,910	2,910		
105	50.5	3,380	2,080	54.5	3,190	2,420	57	2,860	2,700		
110	48	3,000	1,750	52	3,050	2,060	54.5	2,810	2,300		
115	45.5	2,650	1,450	49	2,920	1,730	51.5	2,760	1,940		
120	42.5	2,330	1,180	46	2,570	1,430	48.5	2,730	1,610		
125	39.5	2,030	930	43	2,250	1,150	45	2,400	1,300		
130	36	1,760	-	39.5	1,950	890	41	2,070	1,010		
135	32	1,510	-	35.5	1,670	-	36.5	1,750	-		
140	28	1,280	-	31	1,410	-	31	1,450	-		
145	22.5	1,070	-	25	1,160	-	-	-	-		
150	15	870	-	15.5	900	-	-	-	-		

Data published herein is intended as a guide only.
Crane operation is subject to machine specific load charts and information.

50110HL Load Chart

Main Boom

 34.0 ft – 110.0 ft – 4 section							 23'-3" (7.07 m)				Fully Extended (100 %)				
 34.0 ft				 42.0 ft (A)			 51.0 ft (B)			 59.0 ft (C)			 68.0 ft (D)		
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs
6	71	100,000	100,000	-	-	-	-	-	-	-	-	-	-	-	-
8	67.5	88,500	88,500	72	51,000	51,000	75.5	51,000	51,000	78	51,000	51,000	-	-	-
10	63.5	78,200	78,200	69	51,000	51,000	73.5	51,000	51,000	76	51,000	51,000	78	47,380	47,380
12	60	70,200	70,200	66	51,000	51,000	71	51,000	51,000	74	51,000	51,000	76.5	45,140	45,140
15	53.5	60,600	60,600	61.5	51,000	51,000	67.5	51,000	51,000	71	49,770	49,770	74	42,140	42,140
20	42	48,500	48,500	53.5	47,800	47,800	61	46,400	46,400	65.5	44,310	44,310	69.5	37,820	37,820
25	26.5	37,600	37,600	44	38,100	38,100	54.5	38,500	38,500	60	38,000	38,000	65	32,530	32,530
30	-	-	-	33	30,500	30,500	47	30,900	30,900	54.5	31,100	31,100	60	28,560	28,560
35	-	-	-	15.5	23,990	23,990	38.5	25,480	24,980	48	25,710	25,280	55	25,150	25,150
40	-	-	-	-	-	-	27.5	21,420	19,630	40.5	21,670	19,930	49.5	21,860	20,160
45	-	-	-	-	-	-	7	15,390	15,390	32	18,530	16,170	43.5	18,730	16,400
50	-	-	-	-	-	-	-	-	-	20.5	16,010	13,360	37	16,230	13,610
55	-	-	-	-	-	-	-	-	-	-	-	-	28.5	14,180	11,450
60	-	-	-	-	-	-	-	-	-	-	-	-	16.5	12,450	9,720

Deductions from main boom capacities for stowed jibs

SJ	1,150 lbs	930 lbs	770 lbs	670 lbs	580 lbs
EJR	2,940 lbs	2,770 lbs	2,640 lbs	2,560 lbs	2,490 lbs
EJE	3,320 lbs	3,080 lbs	2,890 lbs	2,780 lbs	2,680 lbs

76.0 ft (E)				85.0 ft (F)			93.0 ft (G)			102.0 ft (H)			110.0 ft (I)		
ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°
lbs		lbs	lbs	lbs		lbs	lbs	lbs		lbs	lbs	lbs		lbs	lbs
12	78.5	39,530	39,530	-	-	-	-	-	-	-	-	-	-	-	-
15	76	37,080	37,080	78	30,830	30,830	-	-	-	-	-	-	-	-	-
20	72	31,860	31,860	74.5	26,790	26,790	76.5	24,480	24,480	78	21,860	21,860	-	-	-
25	68	27,740	27,740	71	23,230	23,230	73	21,500	21,500	75	19,820	19,820	76.5	15,500	15,500
30	64	24,220	24,220	67.5	20,390	20,390	70	19,210	19,210	72.5	17,730	17,730	74	15,500	15,500
35	59.5	21,390	21,390	63.5	18,270	18,270	66.5	17,050	17,050	69.5	15,830	15,830	71.5	14,660	14,660
40	55	19,300	19,300	60	16,260	16,260	63	15,260	15,260	66.5	14,210	14,210	68.5	13,320	13,320
45	50	17,310	16,540	55.5	14,570	14,570	59.5	13,700	13,700	63	12,810	12,810	66	12,080	12,080
50	45	15,610	13,760	51.5	13,130	13,130	56	12,370	12,370	60	11,600	11,600	63	10,970	10,970
55	39	14,160	11,600	47	11,920	11,730	52	11,220	11,220	56.5	10,530	10,530	59.5	10,000	10,000
60	32	12,610	9,890	41.5	10,840	10,020	47.5	10,210	10,100	53	9,840	9,840	56.5	9,330	9,330
65	23.5	11,160	8,490	36	10,010	8,630	43	9,590	8,710	49	9,000	8,790	53.5	8,530	8,530
70	7	8,290	7,300	29.5	9,320	7,470	38	8,780	7,560	45	8,240	7,630	50	7,810	7,690
75	-	-	-	20.5	8,580	6,480	32.5	8,060	6,580	40.5	7,560	6,660	46	7,160	6,710
80	-	-	-	-	-	-	25.5	7,420	5,740	36	6,960	5,830	42	6,590	5,880
85	-	-	-	-	-	-	15	6,860	5,010	30	6,410	5,100	37.5	6,070	5,160
90	-	-	-	-	-	-	-	-	-	23	5,920	4,470	33	5,600	4,530
95	-	-	-	-	-	-	-	-	-	12	5,490	3,890	27	5,170	3,970
100	-	-	-	-	-	-	-	-	-	-	-	-	19	4,780	3,470

Deductions from main boom capacities for stowed jibs

SJ	520 lbs	460 lbs	420 lbs	390 lbs	360 lbs
EJR	2,440 lbs	2,400 lbs	2,370 lbs	2,340 lbs	2,320 lbs
EJE	2,610 lbs	2,550 lbs	2,510 lbs	2,460 lbs	2,430 lbs

SJ = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

↑	Structural
↓	Stability

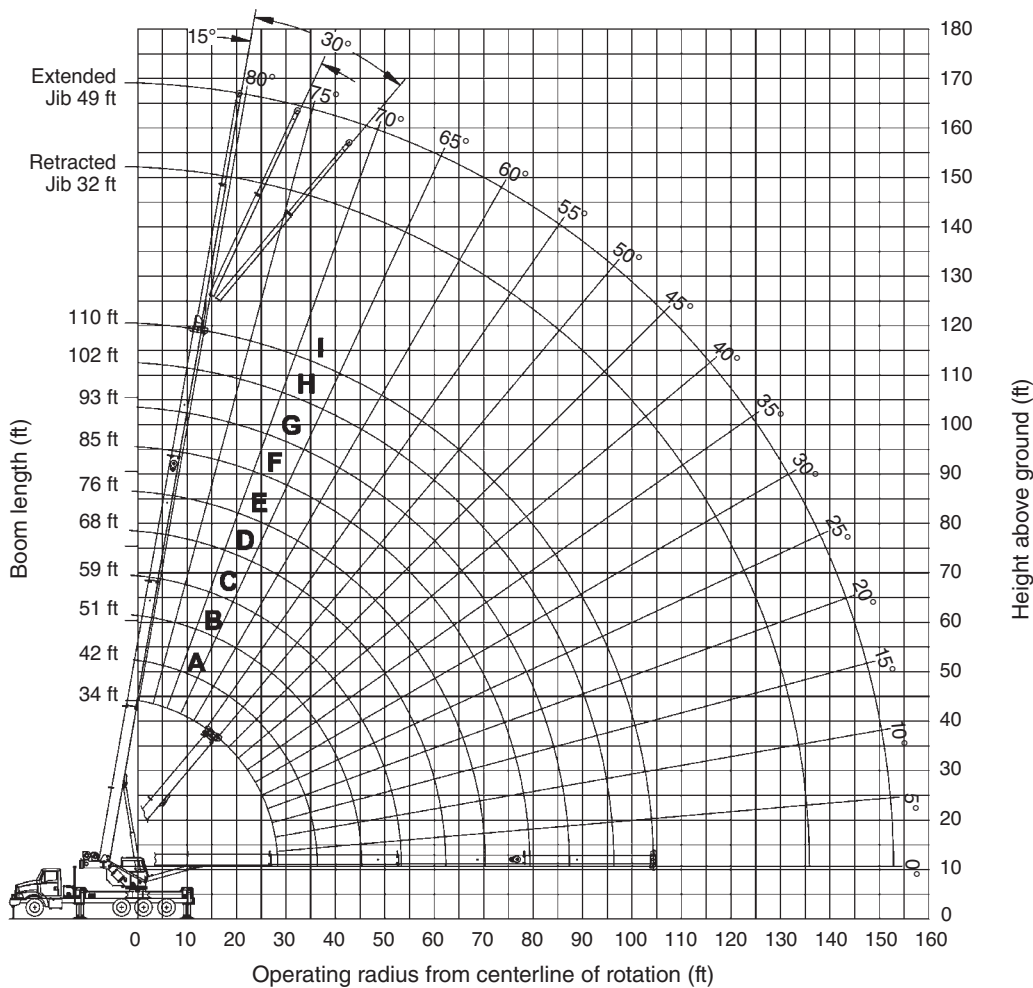
NOTES:

All "on outriggers" loads are based on 85% tipping
 Loads based on crane on outriggers
 Loads above heavy line are based on structural rating
 Loads below heavy line are based on stability rating

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50110HL Boom Diagram and Jib Load Capacities

Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100 %)

32 ft retracted jib load capacities											
0° Offset				15° Offset				30° Offset			
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs		
40	76.5	7,300	7,300	-	-	-	-	-	-		
40	74.5	7,300	7,300	-	-	-	-	-	-		
45	72.5	7,300	7,300	76	6,500	6,500	-	-	-		
50	70.5	7,300	7,300	73.5	6,500	6,500	76	5,800	5,800		
55	68.5	6,980	6,980	71.5	6,500	6,500	74	5,800	5,800		
60	66.5	6,600	6,600	69.5	6,120	6,120	72	5,750	5,750		
65	64	6,230	6,230	67	5,780	5,780	69.5	5,450	5,450		
70	62	5,870	5,870	65	5,450	5,450	67	5,160	5,160		
75	59.5	5,530	5,530	62.5	5,160	5,160	64.5	4,900	4,900		
80	57	5,110	5,110	60	4,880	4,880	62	4,670	4,670		
85	54.5	4,690	4,690	57.5	4,630	4,630	59.5	4,450	4,450		
90	52	4,280	4,280	54.5	4,400	4,400	56.5	4,250	4,250		
95	49	3,920	3,760	51.5	4,070	4,030	53.5	4,070	4,070		
100	46	3,570	3,270	48.5	3,700	3,510	50.5	3,820	3,680		
105	43	3,250	2,830	45.5	3,370	3,040	47	3,480	3,180		
110	39.5	2,950	2,440	42	3,050	2,620	43.5	3,140	2,730		
115	35.5	2,670	2,080	38	2,770	2,230	39	2,830	2,320		
120	31.5	2,420	1,760	34	2,500	1,880	34.5	2,540	1,940		
125	26.5	2,180	1,460	29	2,240	1,560	29	2,260	1,580		
130	20.5	1,960	1,190	22	2,000	1,250	20	1,970	1,230		
135	10	1,760	930	-	-	-	-	-	-		

49 ft extended jib load capacities										
	0° Offset			15° Offset			30° Offset			
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°	
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	
40	77	5,400	5,400	-	-	-	-	-	-	
45	75	5,400	5,400	-	-	-	-	-	-	
50	73.5	5,400	5,400	77	4,700	4,700	-	-	-	
55	71.5	5,400	5,400	75	4,700	4,700	-	-	-	
60	69.5	5,400	5,400	73.5	4,480	4,480	77	3,520	3,520	
65	68	5,230	5,230	71.5	4,280	4,280	75	3,520	3,520	
70	66	4,930	4,930	69.5	4,100	4,100	73.5	3,410	3,410	
75	64	4,660	4,660	67.5	3,940	3,940	71	3,310	3,310	
80	62	4,410	4,410	65.5	3,790	3,790	69	3,210	3,210	
85	60	4,170	4,170	63.5	3,650	3,650	67	3,130	3,130	
90	57.5	3,950	3,950	61.5	3,520	3,520	64.5	3,050	3,050	
95	55.5	3,750	3,750	59	3,400	3,400	62	2,980	2,980	
100	53	3,560	3,560	57	3,290	3,290	59.5	2,910	2,910	
105	50.5	3,380	3,380	54.5	3,190	3,190	57	2,860	2,860	
110	48	3,220	3,020	52	3,050	3,050	54.5	2,810	2,810	
115	45.5	2,980	2,660	49	2,920	2,920	51.5	2,760	2,760	
120	42.5	2,730	2,330	46	2,800	2,580	48.5	2,730	2,730	
125	39.5	2,500	2,030	43	2,640	2,250	45	2,650	2,400	
130	36	2,290	1,760	39.5	2,410	1,950	41	2,480	2,070	
135	32	2,090	1,510	35.5	2,190	1,660	36.5	2,240	1,750	
140	28	1,890	1,270	31	1,970	1,440	31	2,000	1,440	
145	22.5	1,720	1,060	25	1,770	1,150	-	-	-	
150	15	1,550	850	15.5	1,570	890	-	-	-	

Data published herein is intended as a guide only.
Crane operation is subject to machine specific load charts and information.

50128 Load Chart

Main Boom

38.5 ft – 128.0 ft – 4 section						23'-3" (7.07 m)			Fully Extended (100 %)			
38.5 ft				53.0 ft (A)			66.0 ft (B)			78.0 ft (C)		
ft	°	Over rear lbs	Full 360° lbs	ft	°	Over rear lbs	Full 360° lbs	ft	°	Over rear lbs	Full 360° lbs	ft
6	73.5	100,000	100,000	-	-	-	-	-	-	-	-	6
8	70.5	86,600	86,600	-	-	-	-	-	-	-	-	8
10	67	76,400	76,400	74.5	51,000	51,000	78	51,000	51,000	-	-	10
12	64	68,400	68,400	72.5	51,000	51,000	76.5	51,000	51,000	79	41,710	12
15	59	59,000	59,000	68.5	51,000	51,000	73.5	46,650	46,650	77	37,880	15
20	49.5	47,670	47,670	62.5	45,700	45,700	69	39,300	39,300	73	32,140	20
25	38.5	36,900	36,900	56	37,680	37,680	64	33,450	33,450	69	27,890	25
30	23.5	29,590	26,680	49.5	30,410	27,890	59	29,140	28,440	65	24,230	30
35	-	-	-	41.5	25,170	20,650	54	25,490	21,160	61	21,310	35
40	-	-	-	32	20,620	15,940	48	21,090	16,440	56.5	19,160	40
45	-	-	-	18.5	16,770	12,610	42	17,270	13,130	52	17,070	45
50	-	-	-	-	-	-	34.5	14,390	10,670	46.5	14,660	50
55	-	-	-	-	-	-	25	12,140	8,760	41	12,420	55
60	-	-	-	-	-	-	7	9,790	7,200	35	10,620	60
65	-	-	-	-	-	-	-	-	-	27	9,140	65
70	-	-	-	-	-	-	-	-	-	16	7,890	70

Deductions from main boom capacities for stowed jibs

SJ	1,230 lbs	890 lbs	720 lbs	610 lbs
EJR	2,840 lbs	2,620 lbs	2,500 lbs	2,430 lbs
EJE	3,170 lbs	2,860 lbs	2,700 lbs	2,600 lbs

91.0 ft (D)				103.0 ft (E)			116.0 ft (F)			128.0 ft (G)		
ft	°	Over rear lbs	Full 360° lbs	ft	°	Over rear lbs	Full 360° lbs	ft	°	Over rear lbs	Full 360° lbs	ft
15	79	30,000	30,000	-	-	-	-	-	-	-	-	15
20	76	26,010	26,010	78.5	22,790	22,790	-	-	-	-	-	20
25	72.5	22,620	22,620	75.5	20,160	20,160	78	17,660	17,660	-	-	25
30	69.5	20,000	20,000	72.5	18,080	18,080	75.5	16,060	16,060	77.5	13,000	30
35	66	17,710	17,710	70.5	16,070	16,070	73	14,480	14,480	75.5	12,760	35
40	62.5	15,740	15,740	67.5	14,360	14,360	70.5	13,050	13,050	73	11,760	40
45	59	14,050	13,620	64	12,900	12,900	68	11,780	11,780	71	10,800	45
50	55	12,620	11,150	60.5	11,610	11,290	65	10,640	10,640	68.5	10,000	50
55	50.5	11,380	9,250	57	10,500	9,380	62	9,890	9,490	66	9,130	55
60	46.5	10,340	7,740	53.5	9,760	7,870	59	8,970	7,970	63.5	8,320	60
65	41.5	9,340	6,510	50	8,860	6,640	56	8,160	6,740	60.5	7,570	65
70	36.5	8,110	5,490	46	8,060	5,620	53	7,430	5,720	58	6,910	70
75	30	7,060	4,620	41.5	7,190	4,750	49.5	6,780	4,860	55	6,300	75
80	22	6,160	3,870	37	6,300	4,020	46	6,180	4,120	52	5,750	80
85	7	5,290	3,200	31.5	5,520	3,380	42.5	5,620	3,480	49	5,250	85
90	-	-	-	25	4,830	2,810	38	4,940	2,920	46	4,790	90
95	-	-	-	15.5	4,210	2,300	33.5	4,340	2,430	42	4,370	95
100	-	-	-	-	-	-	28.5	3,800	1,990	38.5	3,870	100
105	-	-	-	-	-	-	21.5	3,310	1,590	34	3,390	105
110	-	-	-	-	-	-	7.5	2,860	1,220	29.5	2,960	110
115	-	-	-	-	-	-	-	-	-	23.5	2,560	115
120	-	-	-	-	-	-	-	-	-	15	2,200	120

Deductions from main boom capacities for stowed jibs

SJ	520 lbs	460 lbs	410 lbs	370 lbs
EJR	2,370 lbs	2,330 lbs	2,300 lbs	2,280 lbs
EJE	2,520 lbs	2,460 lbs	2,410 lbs	2,380 lbs

SJ = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

↑	Structural
↓	Stability

NOTES:

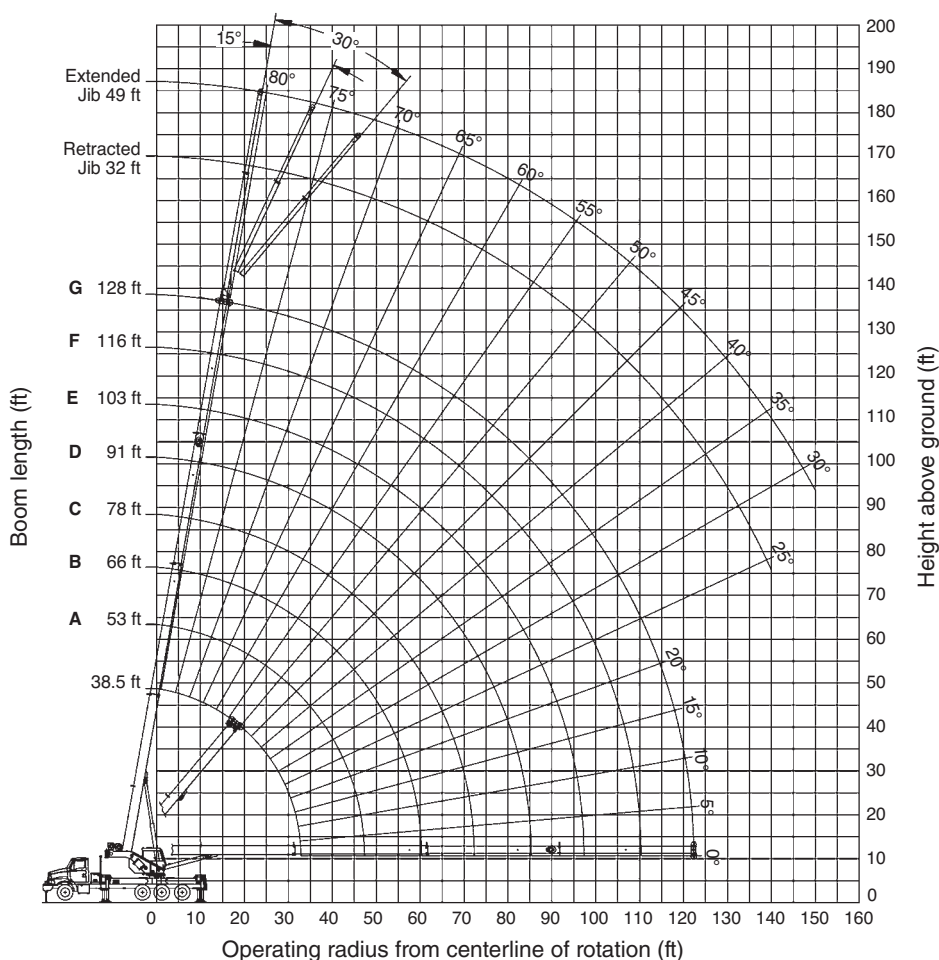
All "on outriggers" loads are based on 85% tipping
Loads based on crane on outriggers

Loads above heavy line are based on structural rating
Loads below heavy line are based on stability rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50128 Boom Diagram and Jib Load Capacities

Main Boom Jib



23'-3" (7.07 m)										Fully Extended (100 %)									
32 ft retracted jib load capacities										49 ft extended jib load capacities									
0° Offset					15° Offset					0° Offset					15° Offset				
ft	°	Over rear		Full 360°	ft	°	Over rear		Full 360°	ft	°	Over rear		Full 360°	ft	°	Over rear		Full 360°
		lbs	lbs				lbs	lbs				lbs	lbs				lbs	lbs	
35	78	5,400	5,400	-	-	-	-	-	-	40	78	4,300	4,300	-	-	-	-	-	-
40	76.5	5,400	5,400	-	79.5	5,400	5,400	-	-	45	76.5	4,300	4,300	-	-	-	-	-	-
45	75	5,400	5,400	-	78	5,400	5,400	-	-	50	75	4,300	4,300	-	79.5	4,300	4,300	-	-
50	73.5	5,400	5,400	-	76.5	5,400	5,400	-	79	5,400	5,400	-	-	-	78	4,300	4,300	-	-
55	72	5,400	5,400	-	74.5	5,400	5,400	-	77	5,400	5,400	-	-	-	76.5	4,300	4,300	79.5	3,700
60	70	5,400	5,400	-	73	5,400	5,400	-	75	5,400	5,400	-	-	-	75	4,300	4,300	78	3,590
65	68.5	5,400	5,400	-	71	5,400	5,400	-	73	5,240	5,240	-	-	-	73.5	4,230	4,230	76	3,490
70	66.5	5,210	5,210	-	69	5,230	5,230	-	71.5	4,990	4,990	-	-	-	71.5	4,080	4,080	74	3,390
75	64.5	4,740	4,740	-	67	4,970	4,970	-	69.5	4,750	4,750	-	-	-	70	3,930	3,930	72.5	3,300
80	62.5	4,300	4,030	-	65	4,570	4,480	-	67.5	4,520	4,520	-	-	-	68.5	3,760	3,760	70.5	3,220
85	60.5	3,890	3,390	-	63	4,140	3,790	-	65	4,310	4,120	-	-	-	66.5	3,590	3,590	69	3,140
90	58	3,510	2,820	-	61	3,740	3,190	-	63	3,930	3,480	-	-	-	64.5	3,420	3,420	67	3,070
95	55.5	3,160	2,320	-	58.5	3,360	2,650	-	60.5	3,540	2,920	-	-	-	62.5	3,270	2,950	65	3,000
100	53	2,820	1,880	-	56	3,010	2,180	-	58	3,170	2,410	-	-	-	60.5	3,100	2,510	63	2,940
105	50.5	2,520	1,490	-	53.5	2,690	1,760	-	55.5	2,830	1,960	-	-	-	58	2,810	2,120	61	2,880
110	48	2,230	1,130	-	50.5	2,390	1,380	-	52.5	2,510	1,560	-	-	-	56	2,540	1,760	58.5	2,720
115	45.5	1,960	810	-	48	2,100	1,030	-	49.5	2,210	1,180	-	-	-	53.5	2,280	1,430	56	2,450
120	42.5	1,700	-	-	45	1,830	-	-	46.5	1,920	840	-	-	-	51	2,040	1,130	53.5	2,190
125	39.5	1,470	-	-	42	1,580	-	-	43	1,660	-	-	-	-	48	1,810	860	50.5	1,940
130	36.5	1,240	-	-	38.5	1,350	-	-	39.5	1,400	-	-	-	-	45.5	1,590	-	47.5	1,700
135	32.5	1,030	-	-	34.5	1,120	-	-	35.5	1,160	-	-	-	-	42.5	1,390	-	44.5	1,480
140	28.5	840	-	-	30.5	910	-	-	30.5	920	-	-	-	-	39.5	1,190	-	41	1,260
145												-	-	-	36	1,000	-	37	1,050
150												-	-	-	32	820	-	32.5	850
155												-	-	-					

Data published herein is intended as a guide only.
Crane operation is subject to machine specific load charts and information.

50128HL Load Chart

Main Boom

 38.5 ft – 128.0 ft – 4 section							 23'-3" (7.07 m)			Fully Extended (100 %)			
 38.5 ft				 53.0 ft (A)			 66.0 ft (B)			 78.0 ft (C)			
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°	
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	
6	73.5	100,000	100,000	-	-	-	-	-	-	-	-	-	6
8	70.5	86,600	86,600	-	-	-	-	-	-	-	-	-	8
10	67	76,400	76,400	74.5	51,000	51,000	78	51,000	51,000	-	-	-	10
12	64	68,400	68,400	72.5	51,000	51,000	76.5	51,000	51,000	79	41,710	41,710	12
15	59	59,000	59,000	68.5	51,000	51,000	73.5	46,650	46,650	77	37,880	37,880	15
20	49.5	47,700	47,700	62.5	45,700	45,700	69	39,300	39,300	73	32,140	32,140	20
25	38.5	38,300	38,300	56	38,400	38,400	64	33,450	33,450	69	27,890	27,890	25
30	23.5	30,200	30,200	49.5	31,590	31,590	59	29,140	29,140	65	24,230	24,230	30
35	-	-	-	41.5	26,180	23,590	54	25,490	24,100	61	21,310	21,310	35
40	-	-	-	32	22,080	18,360	48	22,480	18,860	56.5	19,160	19,150	40
45	-	-	-	18.5	18,340	14,670	42	19,280	15,190	52	17,070	15,470	45
50	-	-	-	-	-	-	34.5	16,710	12,460	46.5	15,330	12,740	50
55	-	-	-	-	-	-	25	14,420	10,350	41	13,850	10,630	55
60	-	-	-	-	-	-	7	9,790	8,620	35	12,560	8,960	60
65	-	-	-	-	-	-	-	-	-	27	11,000	7,590	65
70	-	-	-	-	-	-	-	-	-	16	9,600	6,440	70

Deductions from main boom capacities for stowed jibs

SJ	1,230 lbs	890 lbs	720 lbs	610 lbs
EJR	2,840 lbs	2,620 lbs	2,500 lbs	2,430 lbs
EJE	3,170 lbs	2,860 lbs	2,700 lbs	2,600 lbs

91.0 ft (D)				103.0 ft (E)			116.0 ft (F)			128.0 ft (G)		
ft	°	Over rear lbs	Full 360° lbs	ft	°	Over rear lbs	Full 360° lbs	ft	°	Over rear lbs	Full 360° lbs	ft
15	79	30,000	30,000	-	-	-	-	-	-	-	-	15
20	76	26,010	26,010	78.5	22,790	22,790	-	-	-	-	-	20
25	72.5	22,620	22,620	75.5	20,160	20,160	78	17,660	17,660	-	-	25
30	69.5	20,000	20,000	72.5	18,080	18,080	75.5	16,060	16,060	77.5	13,000	13,000
35	66	17,710	17,710	70.5	16,070	16,070	73	14,480	14,480	75.5	12,760	12,760
40	62.5	15,740	15,740	67.5	14,360	14,360	70.5	13,050	13,050	73	11,760	11,760
45	59	14,050	14,050	64	12,900	12,900	68	11,780	11,780	71	10,800	10,800
50	55	12,620	12,620	60.5	11,610	11,610	65	10,640	10,640	68.5	10,000	10,000
55	50.5	11,380	10,830	57	10,500	10,500	62	9,890	9,890	66	9,130	9,130
60	46.5	10,340	9,160	53.5	9,760	9,290	59	8,970	8,970	63.5	8,320	8,320
65	41.5	9,630	7,800	50	8,860	7,930	56	8,160	8,030	60.5	7,570	7,570
70	36.5	8,770	6,660	46	8,060	6,790	53	7,430	6,900	58	6,910	6,910
75	30	8,000	5,700	41.5	7,350	5,840	49.5	6,780	5,940	55	6,300	6,010
80	22	7,320	4,880	37	6,720	5,020	46	6,180	5,130	52	5,750	5,200
85	7	5,290	4,140	31.5	6,140	4,310	42.5	5,650	4,420	49	5,250	4,490
90	-	-	-	25	5,630	3,690	38	5,160	3,800	46	4,790	3,870
95	-	-	-	15.5	5,160	3,130	33.5	4,720	3,260	42	4,370	3,330
100	-	-	-	-	-	-	28.5	4,310	2,770	38.5	3,980	2,850
105	-	-	-	-	-	-	21.5	3,940	2,330	34	3,620	2,410
110	-	-	-	-	-	-	7.5	3,610	1,920	29.5	3,300	2,020
115	-	-	-	-	-	-	-	-	-	23.5	2,990	1,660
120	-	-	-	-	-	-	-	-	-	15	2,710	1,330

Deductions from main boom capacities for stowed jibs

SJ	520 lbs	460 lbs	410 lbs	370 lbs
EJR	2,370 lbs	2,330 lbs	2,300 lbs	2,280 lbs
EJE	2,520 lbs	2,460 lbs	2,410 lbs	2,380 lbs

SJ = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

↑	Structural
↓	Stability

NOTES:

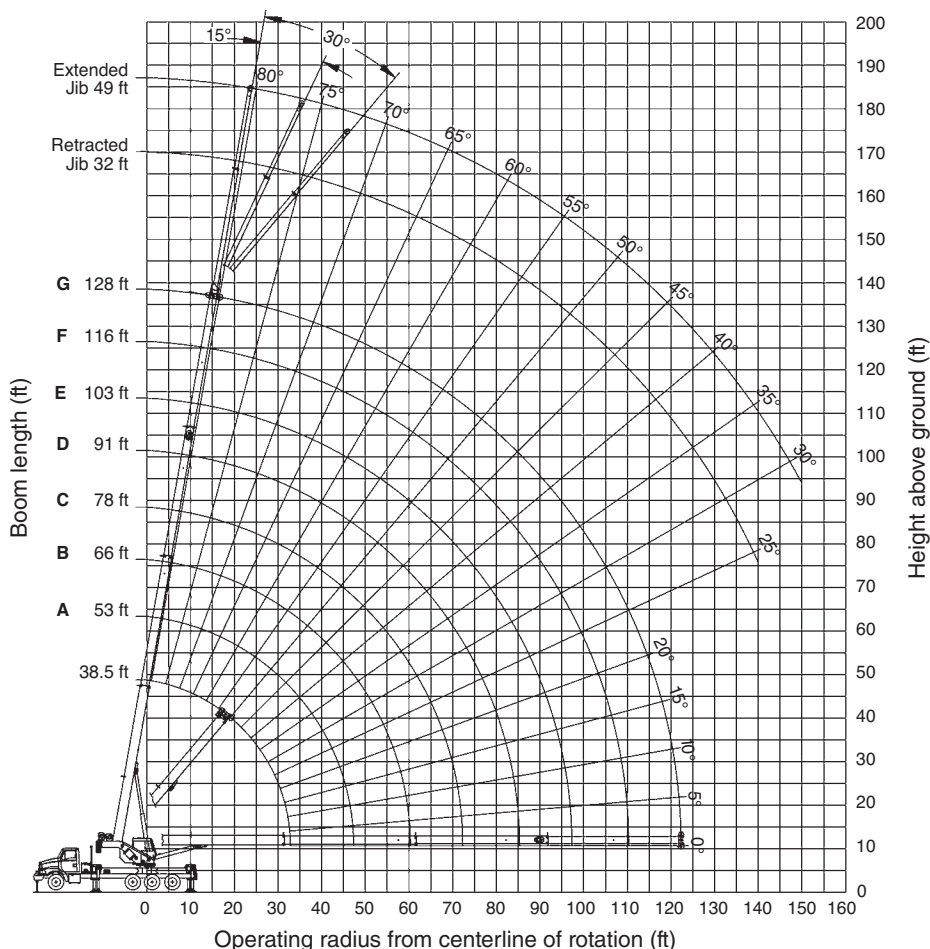
All "on outriggers" loads are based on 85% tipping
Loads based on crane on outriggers

Loads above heavy line are based on structural rating
Loads below heavy line are based on stability rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50128HL Boom Diagram and Jib Load Capacities

Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100 %)

32 ft retracted jib load capacities									
0° Offset				15° Offset				30° Offset	
ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°
35	78	5,400	5,400	-	-	-	-	-	-
40	76.5	5,400	5,400	79.5	5,400	5,400	-	-	-
45	75	5,400	5,400	78	5,400	5,400	-	-	-
50	73.5	5,400	5,400	76.5	5,400	5,400	79	5,400	5,400
55	72	5,400	5,400	74.5	5,400	5,400	77	5,400	5,400
60	70	5,400	5,400	73	5,400	5,400	75	5,400	5,400
65	68.5	5,400	5,400	71	5,400	5,400	73	5,240	5,240
70	66.5	5,210	5,210	69	5,230	5,230	71.5	4,990	4,990
75	64.5	4,740	4,740	67	4,970	4,970	69.5	4,750	4,750
80	62.5	4,300	4,300	65	4,570	4,570	67.5	4,520	4,520
85	60.5	3,890	3,890	63	4,140	4,140	65	4,310	4,310
90	58	3,510	3,510	61	3,740	3,740	63	3,930	3,930
95	55.5	3,160	3,150	58.5	3,360	3,360	60.5	3,540	3,540
100	53	2,820	2,660	56	3,010	2,960	58	3,170	3,170
105	50.5	2,520	2,220	53.5	2,690	2,490	55.5	2,830	2,700
110	48	2,230	1,830	50.5	2,390	2,080	52.5	2,510	2,250
115	45.5	1,960	1,480	48	2,100	1,700	49.5	2,210	1,850
120	42.5	1,700	1,160	45	1,830	1,350	46.5	1,920	1,480
125	39.5	1,470	860	42	1,580	1,030	43	1,660	1,130
130	36.5	1,240	-	38.5	1,350	-	39.5	1,400	-
135	32.5	1,030	-	34.5	1,120	-	35.5	1,160	-
140	28.5	840	-	30.5	910	-	30.5	920	-

49 ft extended jib load capacities									
0° Offset				15° Offset				30° Offset	
ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°
40	78	4,300	4,300	-	-	-	-	-	-
45	76.5	4,300	4,300	-	-	-	-	-	-
50	75	4,300	4,300	79.5	4,300	4,300	-	-	-
55	73.5	4,300	4,300	78	4,300	4,300	-	-	-
60	72	4,300	4,300	76.5	4,300	4,300	79.5	3,700	3,700
65	70.5	4,300	4,300	75	4,300	4,300	78	3,590	3,590
70	69	4,300	4,300	73.5	4,230	4,230	76	3,490	3,490
75	67.5	4,300	4,300	71.5	4,080	4,080	74	3,390	3,390
80	66	4,240	4,240	70	3,930	3,930	72.5	3,300	3,300
85	64.5	4,030	4,030	68.5	3,760	3,760	70.5	3,220	3,220
90	63	3,740	3,740	66.5	3,590	3,590	69	3,140	3,140
95	61	3,430	3,430	64.5	3,420	3,420	67	3,070	3,070
100	59	3,120	3,120	62.5	3,270	3,270	65	3,000	3,000
105	57	2,840	2,820	60.5	3,100	3,100	63	2,940	2,940
110	54.5	2,560	2,420	58	2,810	2,810	61	2,880	2,880
115	52	2,310	2,060	56	2,540	2,420	58.5	2,720	2,710
120	49.5	2,070	1,740	53.5	2,280	2,070	56	2,450	2,320
125	47	1,840	1,440	51	2,040	1,740	53.5	2,190	1,970
130	44.5	1,630	1,170	48	1,810	1,440	50.5	1,940	1,640
135	42	1,430	920	45.5	1,590	1,160	47.5	1,700	1,330
140	39.5	1,240	-	42.5	1,390	900	44.5	1,480	1,040
145	36.5	1,060	-	39.5	1,190	-	41	1,260	770
150	33	900	-	36	1,000	-	37	1,050	-
155	-	-	-	32	820	-	32.5	850	-

Data published herein is intended as a guide only.
Crane operation is subject to machine specific load charts and information.

50155 Load Chart

Main Boom

 38.5 ft – 155.0 ft – 4 section							 23'-3" (7.07 m)			Fully Extended (100 %)					
 38.5 ft				 63.0 ft (A)			 74.0 ft (B)			 86.0 ft (C)			 97.0 ft (D)		
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs
6	73.5	100,000	100,000	-	-	-	-	-	-	-	-	-	-	-	-
8	70.5	85,400	85,400	-	-	-	-	-	-	-	-	-	-	-	-
10	67	75,100	75,100	77	40,000	40,000	-	-	-	-	-	-	-	-	-
12	64	67,100	67,100	75	40,000	40,000	78	37,700	37,700	-	-	-	-	-	-
15	58.5	57,700	57,700	72.5	40,000	40,000	75.5	36,340	36,340	78.5	31,000	31,000	-	-	-
20	49	46,070	46,070	67.5	38,250	38,250	72	33,380	33,380	75	28,200	28,200	77.5	24,120	24,120
25	38	35,280	35,280	62.5	35,040	35,040	67.5	30,620	30,620	71.5	25,970	25,970	74.5	22,200	22,200
30	22.5	27,920	27,490	57	29,140	29,140	63	28,020	28,020	68	23,950	23,950	71	20,480	20,480
35	-	-	-	51.5	23,890	21,500	58.5	24,130	21,830	64	22,080	22,080	68	18,670	18,670
40	-	-	-	45	19,920	16,460	54	20,170	16,770	60.5	20,350	17,010	65	17,210	17,170
45	-	-	-	38	16,810	12,910	48.5	17,060	13,220	56.5	17,250	13,450	61.5	15,920	13,610
50	-	-	-	29.5	14,290	10,280	43	14,570	10,590	52	14,760	10,820	58	14,720	10,970
55	-	-	-	17	12,200	8,210	37	12,510	8,560	47.5	12,710	8,790	54	12,830	8,940
60	-	-	-	-	-	-	29	10,780	6,940	42.5	11,000	7,180	50	11,120	7,320
65	-	-	-	-	-	-	19	9,300	5,600	37	9,540	5,860	46	9,670	6,010
70	-	-	-	-	-	-	-	-	-	30.5	8,280	4,760	41.5	8,420	4,920
75	-	-	-	-	-	-	-	-	-	22.5	7,170	3,830	36.5	7,330	3,990
80	-	-	-	-	-	-	-	-	-	7.5	4,360	2,990	30.5	6,370	3,200
85	-	-	-	-	-	-	-	-	-	-	-	-	23.5	5,520	2,510
90	-	-	-	-	-	-	-	-	-	-	-	-	12	4,140	1,880

Deductions from main boom capacities for stowed jibs

SJ	960 lbs	590 lbs	500 lbs	430 lbs	390 lbs
EJ	2,620 lbs	2,270 lbs	2,190 lbs	2,130 lbs	2,080 lbs

109.0 ft (E)				120.0 ft (F)			132.0 ft (G)			143.0 ft (H)			155.0 ft (I)		
ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°	ft	°	Over rear	Full 360°
lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs	
25	77	18,000	18,000	79	16,260	16,260	-	-	-	-	-	-	-	-	-
30	74	17,000	17,000	76.5	15,280	15,280	78	13,500	13,500	79.5	11,500	11,500	-	-	-
35	71.5	15,920	15,920	74	14,270	14,270	76	12,900	12,900	77.5	11,300	11,300	79	9,000	9,000
40	68.5	14,700	14,700	71.5	13,310	13,310	74	12,000	12,000	75.5	11,000	11,000	77	9,000	9,000
45	65.5	13,570	13,570	69	12,410	12,410	71.5	11,300	11,300	73.5	10,460	10,460	75.5	9,000	9,000
50	62.5	12,540	11,100	66	11,600	11,180	69	10,550	10,550	71.5	9,460	9,460	73.5	8,800	8,800
55	59.5	11,580	9,060	63.5	10,840	9,150	67	9,610	9,220	69.5	8,880	8,880	71.5	8,320	8,320
60	56	10,690	7,440	60.5	9,960	7,530	64.5	9,000	7,600	67.5	8,330	7,650	69.5	7,820	7,700
65	53	9,770	6,130	57.5	9,230	6,210	62	8,430	6,280	65	7,800	6,330	67.5	7,340	6,380
70	49	8,530	5,040	54.5	8,550	5,120	59	7,880	5,190	62.5	7,300	5,240	65.5	6,880	5,290
75	45.5	7,440	4,120	51.5	7,520	4,200	56.5	7,390	4,270	60.5	6,820	4,320	63.5	6,410	4,360
80	41.5	6,490	3,330	48	6,570	3,410	53.5	6,630	3,480	58	6,360	3,530	61.5	5,980	3,570
85	37	5,650	2,640	44.5	5,730	2,730	50.5	5,790	2,800	55.5	5,830	2,850	59	5,560	2,890
90	32	4,890	2,040	41	4,980	2,130	47.5	5,040	2,200	52.5	5,090	2,250	57	5,120	2,300
95	25.5	4,210	1,510	36.5	4,300	1,610	44.5	4,370	1,680	50	4,420	1,730	54.5	4,460	1,770
100	17	3,590	1,030	32	3,700	1,140	41	3,770	1,210	47	3,820	1,260	52	3,850	1,310
105	-	-	-	26	3,140	-	37	3,220	-	44	3,270	850	49.5	3,310	890
110	-	-	-	19	2,630	-	33	2,720	-	40.5	2,770	-	47	2,810	-
115	-	-	-	-	-	-	28	2,250	-	37	2,310	-	44	2,360	-
120	-	-	-	-	-	-	22	1,830	-	33	1,890	-	41	1,940	-
125	-	-	-	-	-	-	12	860	-	28.5	1,500	-	37.5	1,550	-
130	-	-	-	-	-	-	-	-	-	23	1,140	-	34	1,190	-

Deductions from main boom capacities for stowed jibs

SJ	340 lbs	310 lbs	280 lbs	260 lbs	240 lbs
EJ	2,050 lbs	2,020 lbs	1,990 lbs	1,970 lbs	1,950 lbs

SJ = Stowed jib · **EJ** = Erected jib

↑	Structural
↓	Stability

NOTES:

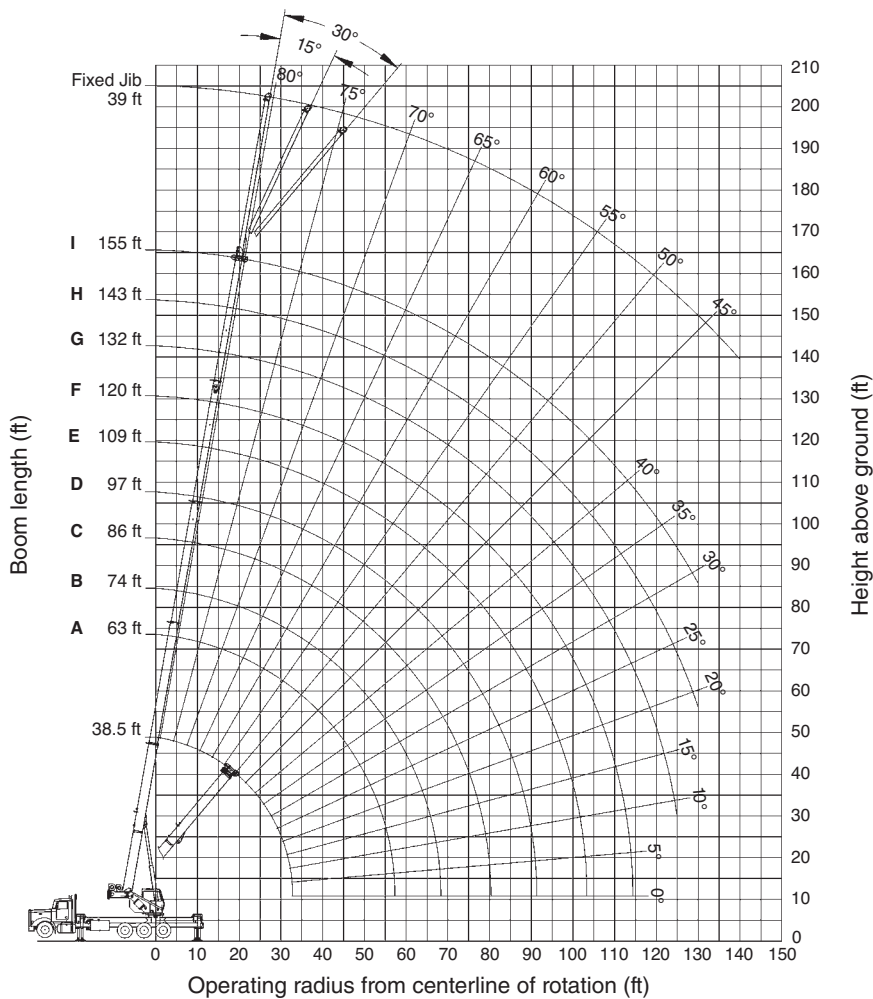
All "on outriggers" loads are based on 85% tipping
Loads based on crane on outriggers

Loads above heavy line are based on structural rating
Loads below heavy line are based on stability rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50155 Boom Diagram and Jib Load Capacities

Main Boom Jib



 23'-3" (7.07 m)

Fully Extended (100 %)

39 ft fixed jib load capacities								
0° Offset			15° Offset			30° Offset		
								
ft	°	lbs	ft	°	lbs	ft	°	lbs
40	80	4,000	4,000	-	-	-	-	-
45	78	4,000	4,000	-	-	-	-	-
50	77.5	4,000	4,000	80	4,000	4,000	-	-
55	75.5	4,000	4,000	78	4,000	4,000	-	-
60	74	4,000	4,000	76.5	4,000	4,000	80	4,000
65	72.5	4,000	4,000	75	4,000	4,000	78	4,000
70	71	4,000	4,000	73.5	4,000	4,000	76	4,000
75	69.5	4,000	4,000	72	4,000	4,000	74.5	3,880
80	68	4,000	4,000	71	3,940	3,940	73	3,730
85	66.5	3,860	3,360	69.5	3,780	3,780	71.5	3,570
90	65	3,720	2,750	67.5	3,630	3,350	70	3,430
95	63.5	3,430	2,210	66	3,480	2,760	68	3,290
100	61.5	3,150	1,740	64.5	3,340	2,250	66.5	3,160
105	60	2,880	1,310	62.5	3,180	1,780	65	3,030
110	58	2,610	930	61	2,880	1,370	63	2,920
115	56	2,360	-	59	2,610	990	61	2,800
120	54.5	2,130	-	57	2,350	-	59	2,570
125	52.5	1,840	-	55	2,110	-	57	2,290
130	50.5	1,490	-	53	1,830	-	55	2,040
135	48.5	1,160	-	51	1,480	-	53	1,710
140	46	860	-	48.5	1,150	-	50.5	1,350
145	-	-	-	46.5	840	-	48	1,020

Data published herein is intended as a guide only.
Crane operation is subject to machine specific load charts and information.

50155HL Load Chart

Main Boom

 38.5 ft – 155.0 ft – 4 section							 23'-3" (7.07 m)			Fully Extended (100 %)					
 38.5 ft				 63.0 ft (A)			 74.0 ft (B)			 86.0 ft (C)			 97.0 ft (D)		
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs
6	73.5	100,000	100,000	-	-	-	-	-	-	-	-	-	-	-	-
8	70.5	85,400	85,400	-	-	-	-	-	-	-	-	-	-	-	-
10	67	75,100	75,100	77	40,000	40,000	-	-	-	-	-	-	-	-	-
12	64	67,100	67,100	75	40,000	40,000	78	37,700	37,700	-	-	-	-	-	-
15	58.8	57,700	57,700	72.5	40,000	40,000	75.5	36,340	36,340	78.5	31,000	31,000	-	-	-
20	49	46,200	46,200	67.5	38,250	38,250	72	33,380	33,380	75	28,200	28,200	77.5	24,120	24,120
25	38	37,290	37,290	62.5	35,040	35,040	67.5	30,620	30,620	71.5	25,970	25,970	74.5	22,200	22,200
30	22.5	28,580	28,580	57	30,700	30,700	63	28,020	28,020	68	23,950	23,950	71	20,480	20,480
35	-	-	-	51.5	25,340	25,140	58.5	25,580	25,470	64	22,080	22,080	68	18,670	18,670
40	-	-	-	45	21,000	19,460	54	21,440	19,780	60.5	20,370	20,010	65	17,210	17,170
45	-	-	-	38	17,940	15,470	48.5	18,200	15,780	56.5	18,380	16,010	61.5	15,920	15,920
50	-	-	-	29.5	15,320	12,500	43	15,590	12,820	52	15,780	13,040	58	14,720	13,190
55	-	-	-	17	12,420	10,180	37	13,440	10,530	47.5	13,640	10,760	54	13,620	10,900
60	-	-	-	-	-	-	29	11,640	8,700	42.5	11,850	8,940	50	11,980	9,090
65	-	-	-	-	-	-	19	10,030	7,200	37	10,330	7,460	46	10,460	7,610
70	-	-	-	-	-	-	-	-	-	30.5	9,010	6,220	41.5	9,150	6,380
75	-	-	-	-	-	-	-	-	-	22.5	7,860	5,170	36.5	8,020	5,340
80	-	-	-	-	-	-	-	-	-	7.5	4,360	4,230	30.5	7,020	4,450
85	-	-	-	-	-	-	-	-	-	-	-	-	23.5	6,120	3,670
90	-	-	-	-	-	-	-	-	-	-	-	-	12	4,140	2,970

Deductions from main boom capacities for stowed jibs

SJ	960 lbs	590 lbs	500 lbs	430 lbs	390 lbs
EJ	2,620 lbs	2,270 lbs	2,190 lbs	2,130 lbs	2,080 lbs

109.0 ft (E)				120.0 ft (F)			132.0 ft (G)			143.0 ft (H)			155.0 ft (I)		
ft	°	Over rear	Full 360°	°	Over rear	Full 360°	°	Over rear	Full 360°	°	Over rear	Full 360°	°	Over rear	Full 360°
lbs		lbs		lbs		lbs	lbs		lbs	lbs		lbs	lbs		lbs
25	77	18,000	18,000	79	16,260	16,260	-	-	-	-	-	-	-	-	-
30	74	17,000	17,000	76.5	15,280	15,280	78	13,500	13,500	79.5	11,500	11,500	-	-	-
35	71.5	15,920	15,920	74	14,270	14,270	76	12,900	12,900	77.5	11,300	11,300	79	9,000	9,000
40	68.5	14,700	14,700	71.5	13,310	13,310	74	12,000	12,000	75.5	11,000	11,000	77	9,000	9,000
45	65.5	13,570	13,570	69	12,410	12,410	71.5	11,300	11,300	73.5	10,460	10,460	75.5	9,000	9,000
50	62.5	12,540	12,540	66	11,600	11,600	69	10,550	10,550	71.5	9,460	9,460	73.5	8,800	8,800
55	59.5	11,580	11,020	63.5	10,840	10,840	67	9,610	9,610	69.5	8,880	8,880	71.5	8,320	8,320
60	56	10,690	9,210	60.5	9,960	9,290	64.5	9,000	9,000	67.5	8,330	8,330	69.5	7,820	7,820
65	53	9,870	7,730	57.5	9,230	7,810	62	8,430	7,880	65	7,800	7,800	67.5	7,340	7,340
70	49	9,150	6,500	54.5	8,550	6,580	59	7,880	6,650	62.5	7,300	6,700	65.5	6,880	6,750
75	45.5	8,130	5,460	51.5	7,930	5,540	56.5	7,390	5,610	60.5	6,820	5,660	63.5	6,410	5,710
80	41.5	7,130	4,570	48	7,210	4,660	53.5	6,880	4,730	58	6,360	4,780	61.5	5,980	4,820
85	37	6,250	3,800	44.5	6,330	3,890	50.5	6,360	3,960	55.5	5,940	4,010	59	5,560	4,050
90	32	5,470	3,130	41	5,550	3,220	47.5	5,620	3,290	52.5	5,540	3,340	57	5,170	3,380
95	25.5	4,750	2,530	36.5	4,850	2,630	44.5	4,920	2,700	50	4,960	2,750	54.5	4,780	2,790
100	17	3,830	1,990	32	4,210	2,100	41	4,280	2,180	47	4,330	2,230	52	4,370	2,270
105	-	-	-	26	3,630	1,620	37	3,710	1,710	44	3,760	1,760	49.5	3,800	1,800
110	-	-	-	19	3,030	1,190	33	3,190	1,280	40.5	3,240	1,340	47	3,280	1,380
115	-	-	-	-	-	-	28	2,700	900	37	2,760	950	44	2,800	1,000
120	-	-	-	-	-	-	22	2,260	-	33	2,320	-	41	2,370	-
125	-	-	-	-	-	-	12	860	-	28.5	1,910	-	37.5	1,960	-
130	-	-	-	-	-	-	-	-	-	23	1,530	-	34	1,590	-
135	-	-	-	-	-	-	-	-	-	14.5	1,170	-	29.5	1,240	-

Deductions from main boom capacities for stowed jibs

SJ	340 lbs	310 lbs	280 lbs	260 lbs	240 lbs
EJ	2,050 lbs	2,020 lbs	1,990 lbs	1,970 lbs	1,950 lbs

↑	Structural
↓	Stability

NOTES:

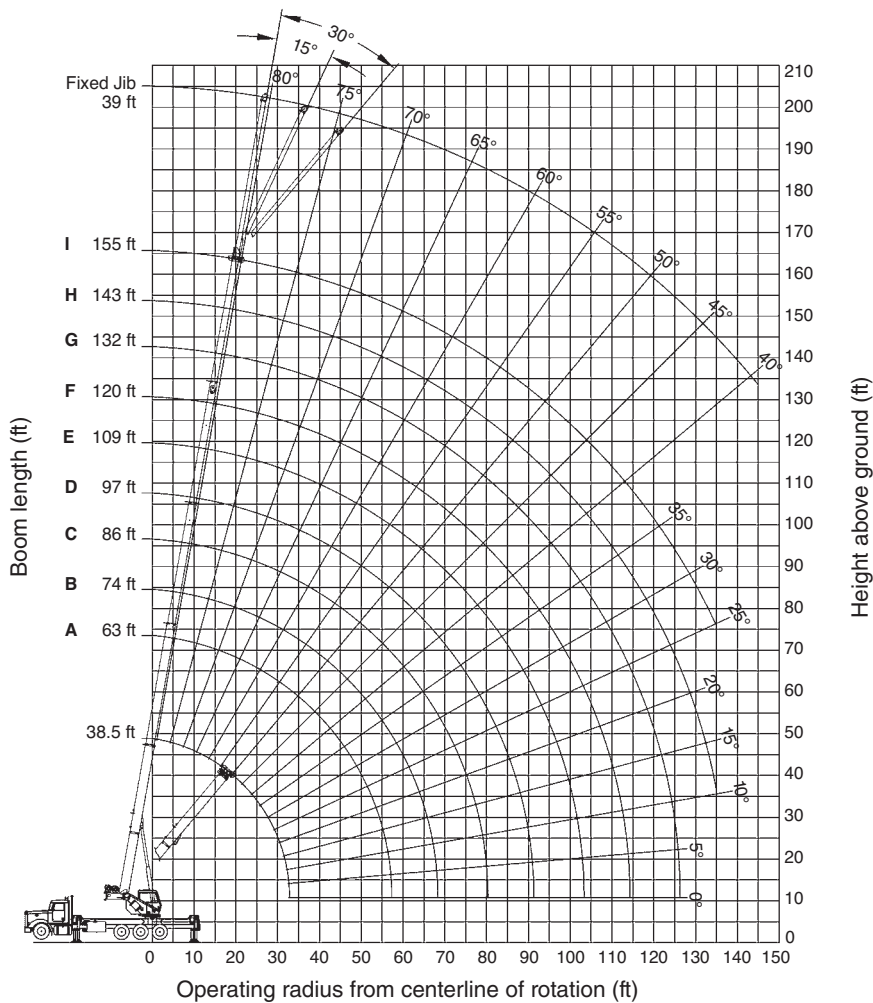
All "on outriggers" loads are based on 85% tipping
Loads based on crane on outriggers

SJ = Stowed jib · **EJ** = Erected jib
Loads above heavy line are based on structural rating
Loads below heavy line are based on stability rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50155HL Boom Diagram and Jib Load Capacities

Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100 %)

39 ft fixed jib load capacities									
0° Offset				15° Offset			30° Offset		
		Over rear	Full 360°		Over rear	Full 360°		Over rear	Full 360°
ft	°	lbs	lbs	°	lbs	lbs	°	lbs	lbs
40	80	4,000	4,000	-	-	-	-	-	-
45	78	4,000	4,000	-	-	-	-	-	-
50	77.5	4,000	4,000	80	4,000	4,000	-	-	-
55	75.5	4,000	4,000	78	4,000	4,000	-	-	-
60	74	4,000	4,000	76.5	4,000	4,000	80	4,000	4,000
65	72.5	4,000	4,000	75	4,000	4,000	78	4,000	4,000
70	71	4,000	4,000	73.5	4,000	4,000	76	4,000	4,000
75	69.5	4,000	4,000	72	4,000	4,000	74.5	3,880	3,880
80	68	4,000	4,000	71	3,940	3,940	73	3,730	3,730
85	66.5	3,860	3,360	69.5	3,780	3,780	71.5	3,570	3,570
90	65	3,720	3,720	67.5	3,630	3,630	70	3,430	3,430
95	63.5	3,430	3,240	66	3,480	3,480	68	3,290	3,290
100	61.5	3,150	2,700	64.5	3,340	3,210	66.5	3,160	3,160
105	60	2,880	2,230	62.5	3,180	2,700	65	3,030	3,030
110	58	2,610	1,800	61	2,880	2,230	63	2,920	2,590
115	56	2,360	1,410	59	2,610	1,810	61	2,800	2,140
120	54.5	2,130	1,060	57	2,350	1,430	59	2,570	1,730
125	52.5	1,900	-	55	2,110	1,080	57	2,290	1,350
130	50.5	1,690	-	53	1,880	-	55	2,040	1,000
135	48.5	1,490	-	51	1,660	-	53	1,810	-
140	46	1,230	-	48.5	1,460	-	50.5	1,590	-
145	43.5	930	-	46.5	1,200	-	48	1,380	-
150	-	-	-	44	890	-	45.5	1,050	-

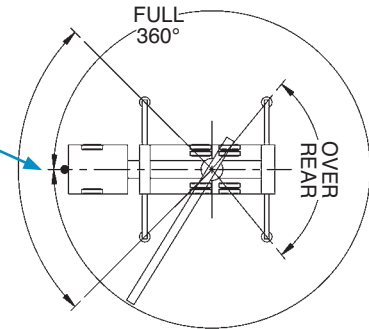
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Crane operation is subject to machine specific load charts and information.

Area of Operation · LMI Operating Codes · Reeving Diagram

Area of Operation

In order to take advantage of full 360° operation, the front bumper stabilizer must be set in accordance to the manual before working in this area.

If a front bumper stabilizer was not supplied, then the front tires must be in contact with the ground before working in this area.



Deductions from rated loads for load handling devices supplied by Manitex

Auxiliary block	50 lbs (22,7 kg)
Overhaul ball	See overhaul ball mfr. nameplate
Load blocks	See load block mfr. nameplate
Hose reel	260 lbs (117,9 kg)
Swing around jib (stowed)	See load chart

WARNING: Lifting off the main boom point while the jib is erected is not intended nor approved.

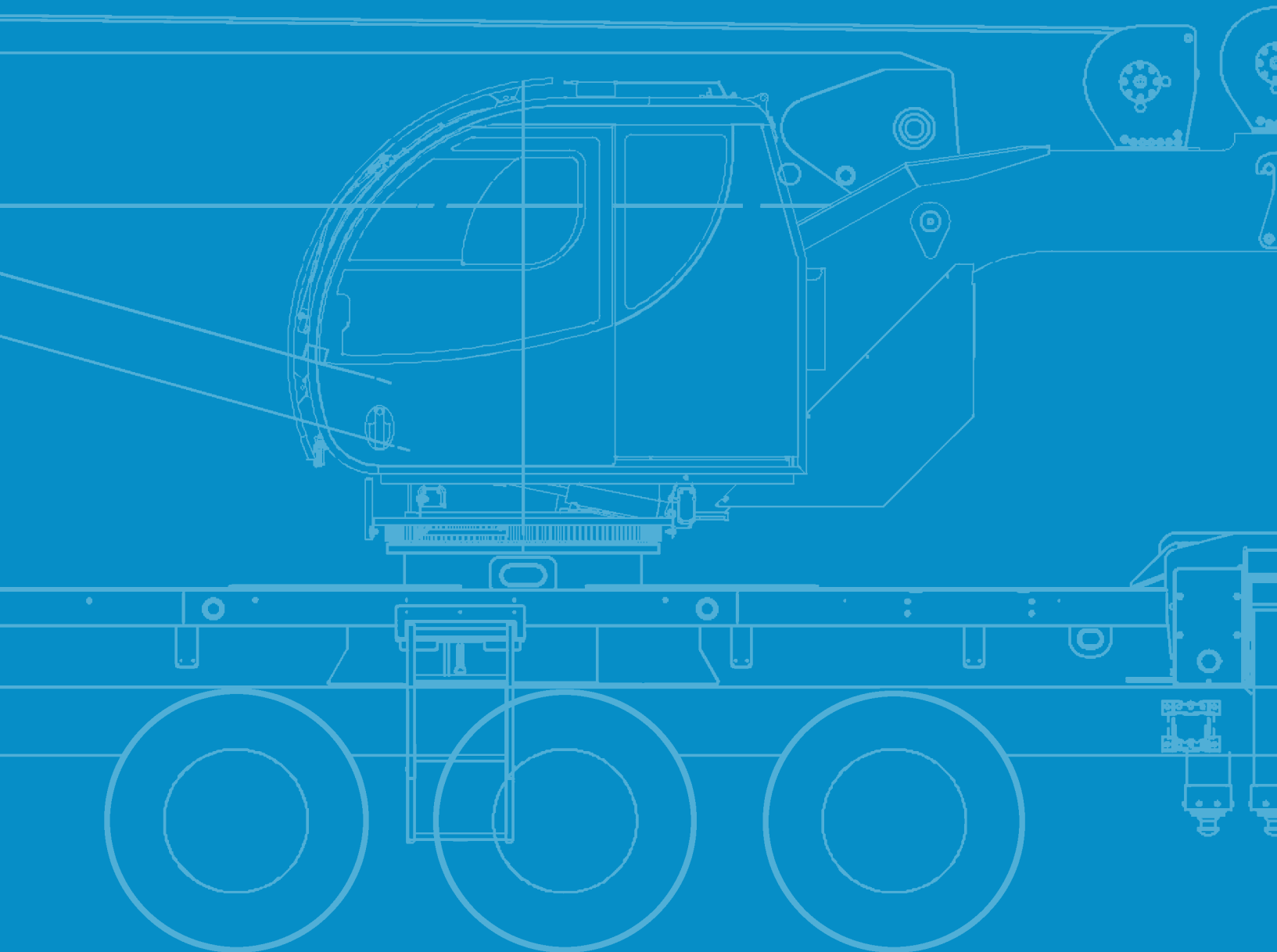
LMI Operating Codes

Code	Crane Configuration	Outrigger Configuration	Area of Operation
3	Main boom	Fully extended	Full 360°
5	Main boom	Fully retracted	Full 360°
8	Retracted jib 0° Offset	Fully extended	Full 360°
10	Retracted jib 15° Offset	Fully extended	Full 360°
12	Retracted jib 30° Offset	Fully extended	Full 360°

Reeving Diagram

Allowable Line Pull										WARNING Anti-Two-Block System must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least 3 wraps of load line on the drum at all times.
1 part line	2 part line	3 part line	4 part line	5 part line	6 part line	7 part line	8 part line	9 part line	10 part line	
10,000 lbs	20,000 lbs	30,000 lbs	40,000 lbs	50,000 lbs	60,000 lbs	70,000 lbs	80,000 lbs	90,000 lbs	100,000 lbs	5/8" 6 x 19 class (3.5 : 1 SF) 35,000 lbs min. breaking strength 5/8" rot resistant (5 : 1 SF) 50,000 lbs min. breaking strength

TC500.1



Technical Description

Boom



Boom lengths: Proportional boom

- 4-section 96 ft (29 m)
- 4-section 110 ft (33.5 m)
- 4-section 128 ft (39 m)
- 5-section 155 ft (47 m)

4-sheave load quick reeve boom point with 2 idler reeve boom points
Self lubricating slider pads



Boom max. tip height 5096: 105.2 ft (32.1 m)
Boom max. tip height 50110: 119.0 ft (36.3 m)
Boom max. tip height 50128: 131.9 ft (40.2 m)
Boom max. tip height 50155: 163.4 ft (49.8 m)



Boom angle (min./max.):
-6° / 80°

Rotation



Ball-bearing swing circle with external gear
Double-reduction planetary gearbox driven by hydraulic motor



Slewing brake: Spring-applied pressure released automatic brake
Free swing and non-free swing selection from the operator's keypad



Slewing speed: 1.5 - 2 rpm (nominal)
Boom rotation: 360° continuous

Outriggers



Outriggers: Out-and-down style
Outrigger monitoring system (for verification only)
Outrigger motion alarm

Full extension

- Front and rear: 23.3 ft (7.1 m)

Middle extension

- Front and rear: 15.4 ft (4.7 m)

Full retraction

- Front and rear: 7.3 ft (2.2 m)



ROC Solid – Radio operated handheld controller for outrigger, winches and FBS setup
Crane is shipped with the boom radio remote ready

Operator Aids



Externally routed A2B cable. Color graphic display with LMI crane function cut-offs for overload protection, event recorder and WADS – Work Area Definition System.
HDRI – Hoist Drum Rotation Indicator

Technical Description

Hoist, Rope and Hook



Maximum theoretical line speed:
453 fpm (138 mpm)



Maximum theoretical bottom-layer line pull:
13,050 lbs (5,919 kg)



Main winch cable diameter:
Main winch 0.625 in. (15.9 mm) rotation resistant



Line length:
5096 and 50110 400 ft (122 m)
50128 and 50155 500 ft (152 m)



Main winch:
Bent axis 2-speed hydraulic motor (activated electrically)
Third wrap limiter on both main and auxiliary winch



Hook and ball:
7 t (6.4 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation

Hydraulics



8-bolt direct mounted PTO and SAE C output (factory mounted units only)
1-section variable displacement piston pump, SAE C input
Piggy back fixed gear pump
Hydraulic reservoir capacity: 115 gallons (435 l) – 155 gallons (587 l)
Pump sections @ 2000 rpm with 100 psi
• Variable displacement pump: 77 gpm (291 lpm)
• Fixed displacement gear pump: 12 gpm (45 lpm)

Tilttable Cab / Cab Controls



Standard features:
Curved glass, 0° to 20° cab tilt, sliding door, heated cloth seat, 8 seat adjustments, lumbar support, reclining and adjustable head rest, sliding windows, rear pop out window, top hinged hatch, with guard, front and top windshield wipers, heater, air conditioning, 12 volt DC outlet, USB ports, engine monitoring system, E-coated cab (10 year rust warranty)



Controls:
PLC crane controller, CANBUS communication, J1939 truck engine communication, electric hand and foot throttle, twin dual axis joysticks, electric/hydraulic valve actuation, electronic sensor monitoring, Hirschmann/PAT or 3B6 LMI system available, wired ATB and wired wind speed sensors, telematics, GPS monitoring, remote diagnostic capability, Work Area Definition (WADs)

Technical Description – Options

Jibs

- 5096, 50110, 50128
- 2-section telescopic jib: 32 ft (9.7 m) to 49 ft (14.9 m)
- 50155
- 1-section fixed jib: 39 ft (11.8 m)

Boom

Max. Boom Length with Jib



- 5096
- Max. boom length with extension: 144.5 ft (44 m)
- 50110 & 50110HL
- Max. boom length with extension: 159 ft (48.5 m)
- 50128 & 50128HL
- Max. boom length with extension: 177 ft (53.9 m)
- 50155 & 50155HL
- Max. boom length with extension: 194 ft (59.1 m)

Max. Boom Length with Minimum Extension



- 5096
- Max. boom length with extension retracted: 127.5 ft (38.9 m)
- 50110 & 50110HL
- Max. boom length with extension retracted: 142 ft (43.2 m)
- 50128 & 50128HL
- Max. boom length with extension retracted: 160 ft (48.8 m)
- 50155 & 50155HL
- Max. boom length with extension retracted: 155 ft (47.2 m)

Boom

Max. Tip Height with Maximum Extension



- 5096
- Max. tip height with extension: 153.3 ft (46.7 m)
 - Max. tip height with extension retracted: 136.5 ft (41.6 m)
- 50110 & 50110HL
- Max. tip height with extension: 167.1 ft (50.9 m)
 - Max. tip height with extension retracted: 150.3 ft (45.8 m)
- 50128 & 50128HL
- Max. tip height with extension: 184.8 ft (56.3 m)
 - Max. tip height with extension retracted: 168.0 ft (51.2 m)
- 50155 & 50155HL
- Max. tip height with extension: 202.4 ft (61.7 m)
 - Max. tip height with extension retracted: No telescopic jib for 50155

Technical Description – Options

Hoist, Rope and Hook



Rooster sheave
Wireline options available
2nd overhaul ball available

Auxiliary lower sheave block for 2-9 part lines
Load blocks 1-7, 4-8, 2-8, 9-10 part lines

Hydraulics



Hydraulic hose reel for accessories – boom mounted
Front Bumper Stabilizer

Auxiliary Winch



Auxiliary winch bent axis 2-speed hydraulic motor (activated electrically)
Third wrap limiter on both main and auxiliary winch

Cab



Video camera (1 or 2)
Cab weather band radio system
Wireless wind speed indicator
Cab step light
Perimeter lighting
Strobe light
Cab go-light

Operator Aids



4-function radio remote crane control system with joysticks (crane is radio remote ready)
• 900 Mhz
• 433 Mhz
A92.2 Aerial lift manbasket dual rating
Wired wind speed sensor

2-Person Basket



Consult Manitex for specific application and rating
• 2-person gravity level basket
• 2-person rotating steel basket
• 2-person quick attach rotating basket

Tool Boxes and Platforms

Tool Boxes

- 24 " L x 18" W x 18" H – Steel (610 mm L x 457 mm W x 457 mm H)
 - 48 " L x 24" W x 24" H – Aluminum (1,219 mm L x 610 mm W x 610 mm H)
 - 48 " L x 24" W x 24" H – Aluminum (1,219 mm L x 610 mm W x 610 mm H)
- Top MTD swing door

Platforms

- Wide platform option 102 in.

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Reaching new heights

