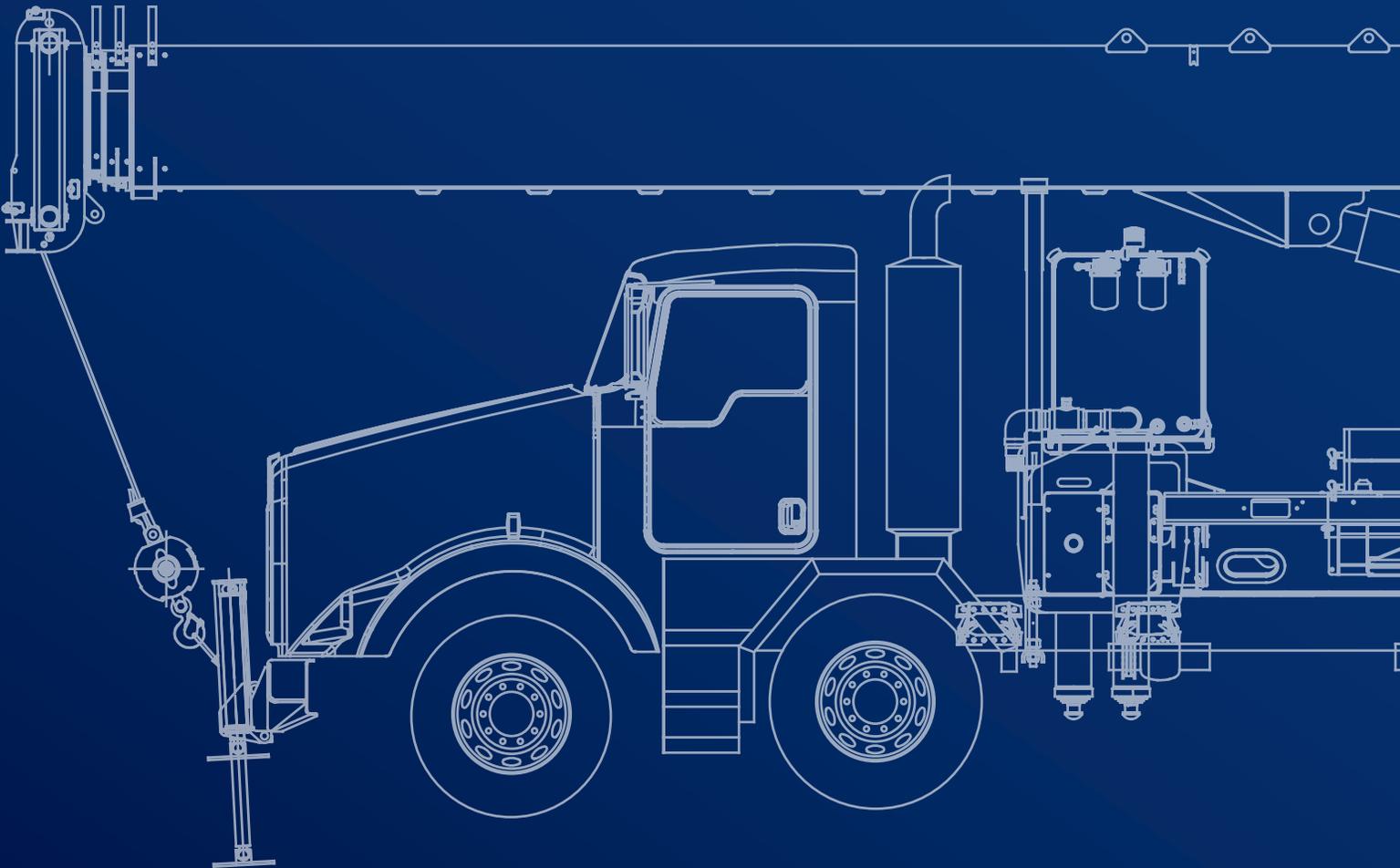


TC 650

SERIES PRODUCT GUIDE

65 TON (59 MT) TELESCOPIC CRANE





January 2026. 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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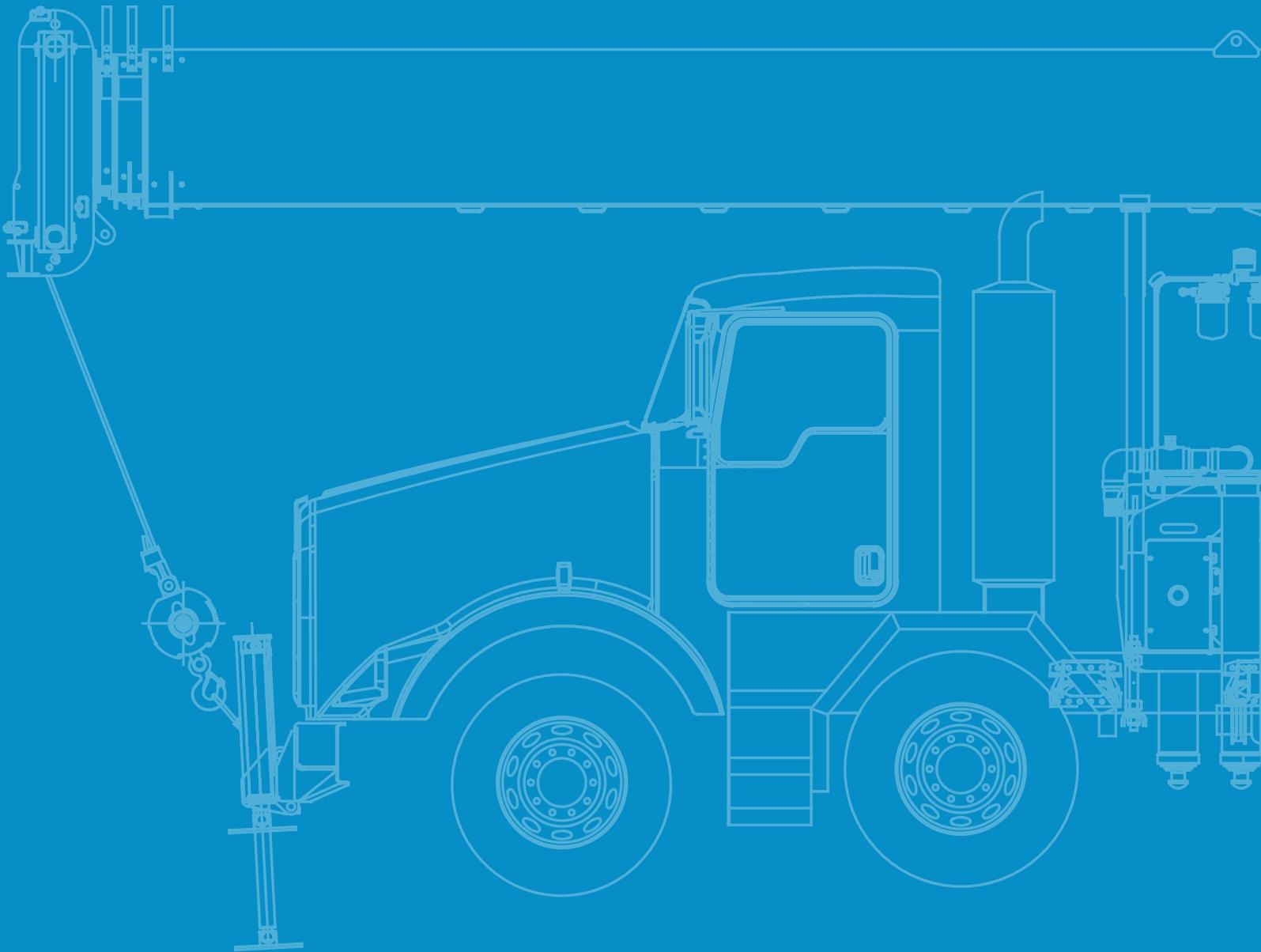


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Key

	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 2 - Auxiliary winch 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

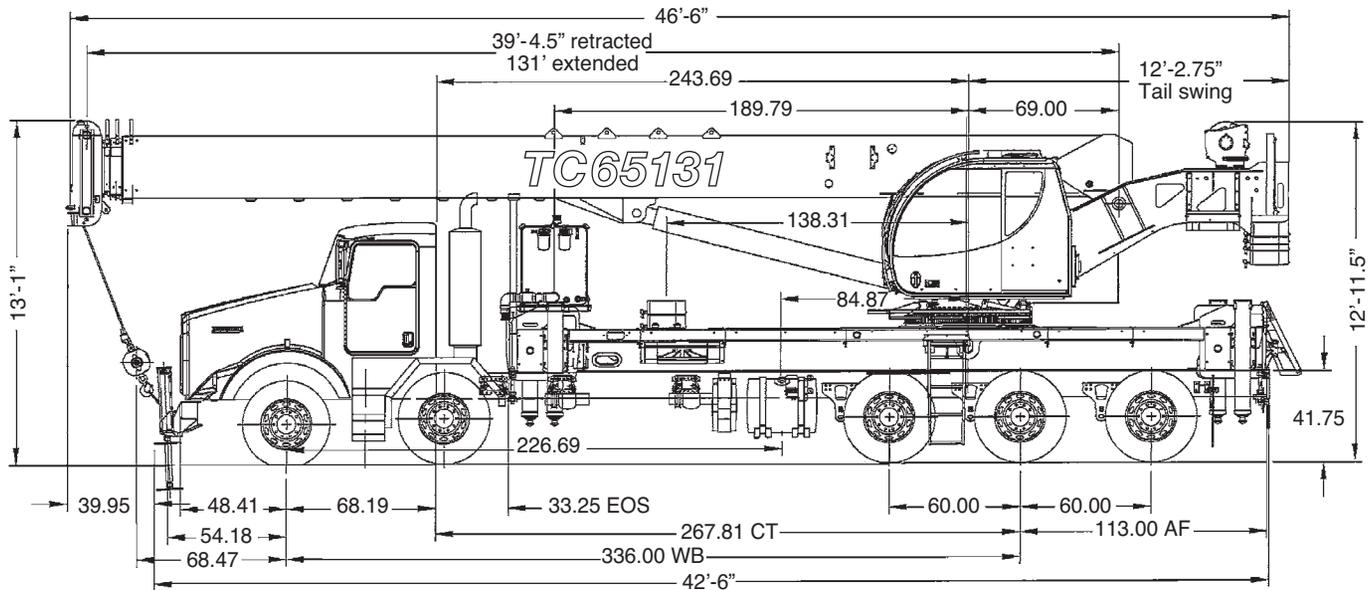
TC650



65131 Chassis Data

Dimensions

TC65131



Chassis Data

Model	TC65131
Frame section modulus at 180° / 360° area of operation*	27.0 in ³ 120,000 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)
Min. truck axle weight – Rear**	12,300 lbs (5,579 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.

Crane Weight

Crane – Dry weight	49,715 lbs (22,550 kg)
Jib fixed	1,700 lbs (771 kg)
Jib telescopic	2,300 lbs (1,043 kg)
Aluminum platforms	555 lbs (252 kg)
Counterweight	10,000 lbs (4,536 kg)

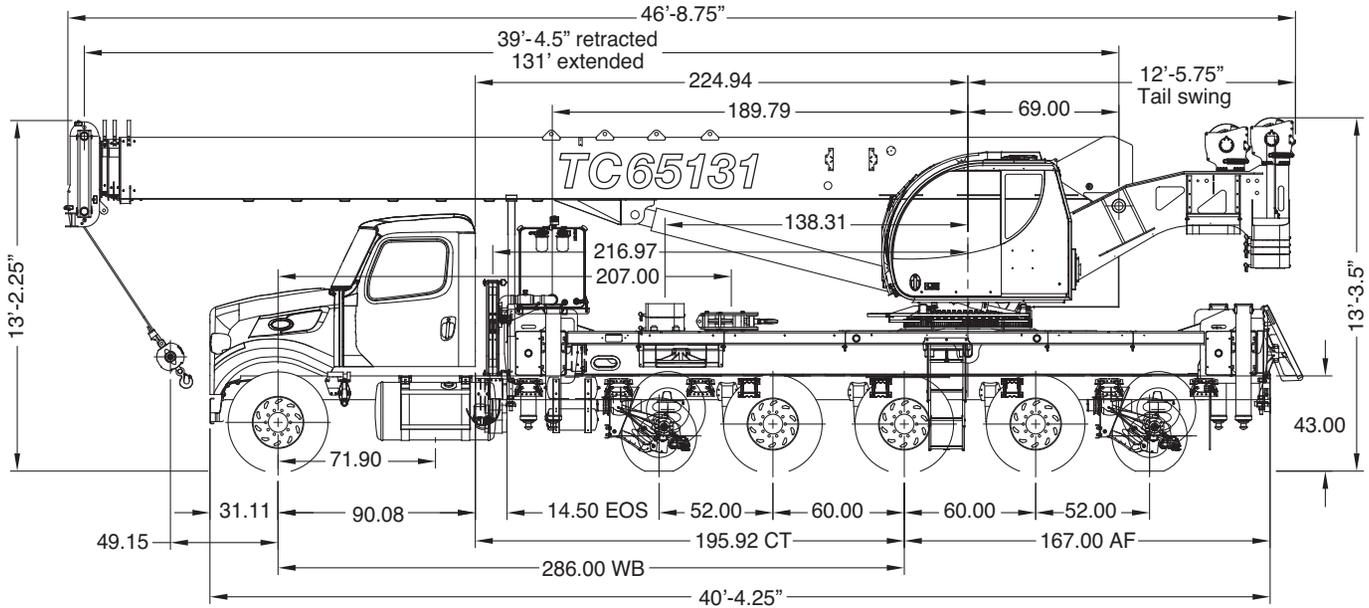
Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends the addition of a front stabilizer and it may be required on some installations – consult Tadano.

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65131 Chassis Data

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TC65131



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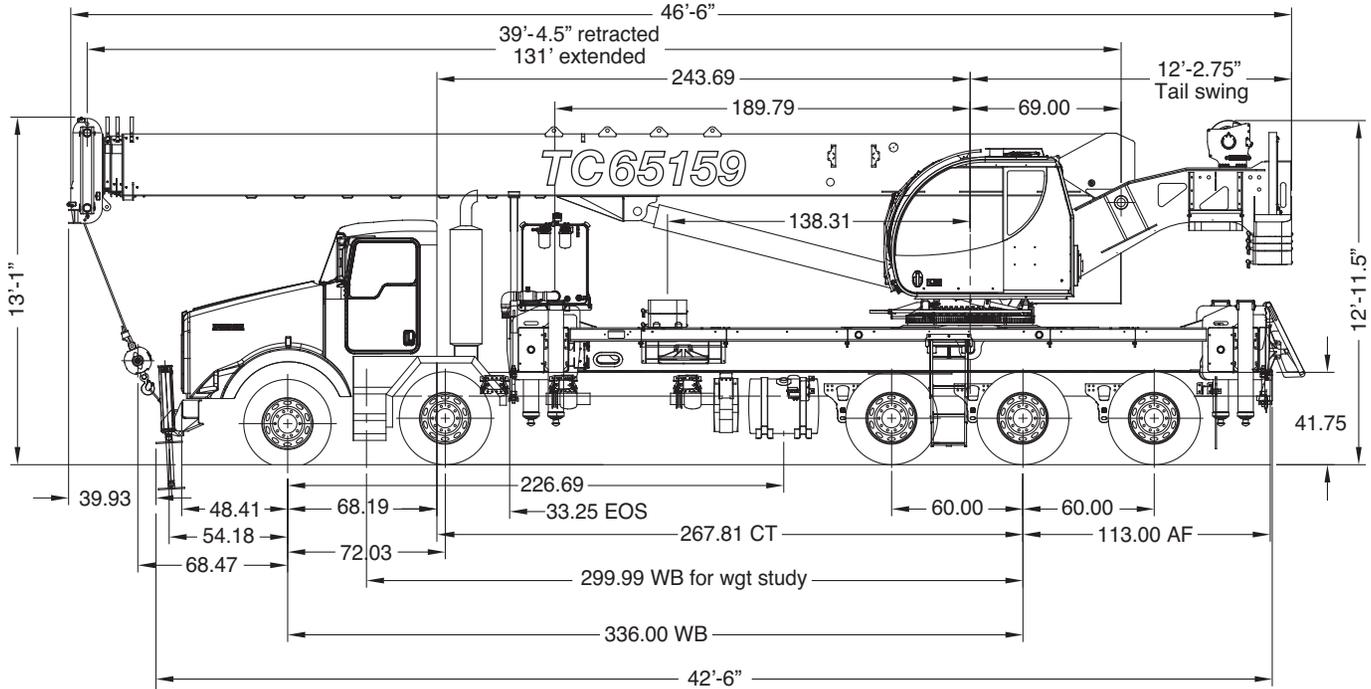
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Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends the addition of a front stabilizer and it may be required on some installations – consult Tadano.

65159 Chassis Data

Dimensions

TC65159



Chassis Data

Model	TC65159
Frame section modulus at 180° / 360° area of operation*	27.0 in ³ 120,000 psi · 758,423 kPa

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

Truck Axle Weight

Min. truck axle weight – Front**	10,100 lbs (4,581 kg)
Min. truck axle weight – Rear**	14,730 lbs (6,682 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.

Crane Weight

Crane – Dry weight	52,830 lbs (23,963 kg)
Jib fixed 38 ft	2,200 lbs (998 kg)
Jib telescopic	2,300 lbs (1,043 kg)
Aluminum platforms	555 lbs (252 kg)
Counterweight	10,000 lbs (4,536 kg)

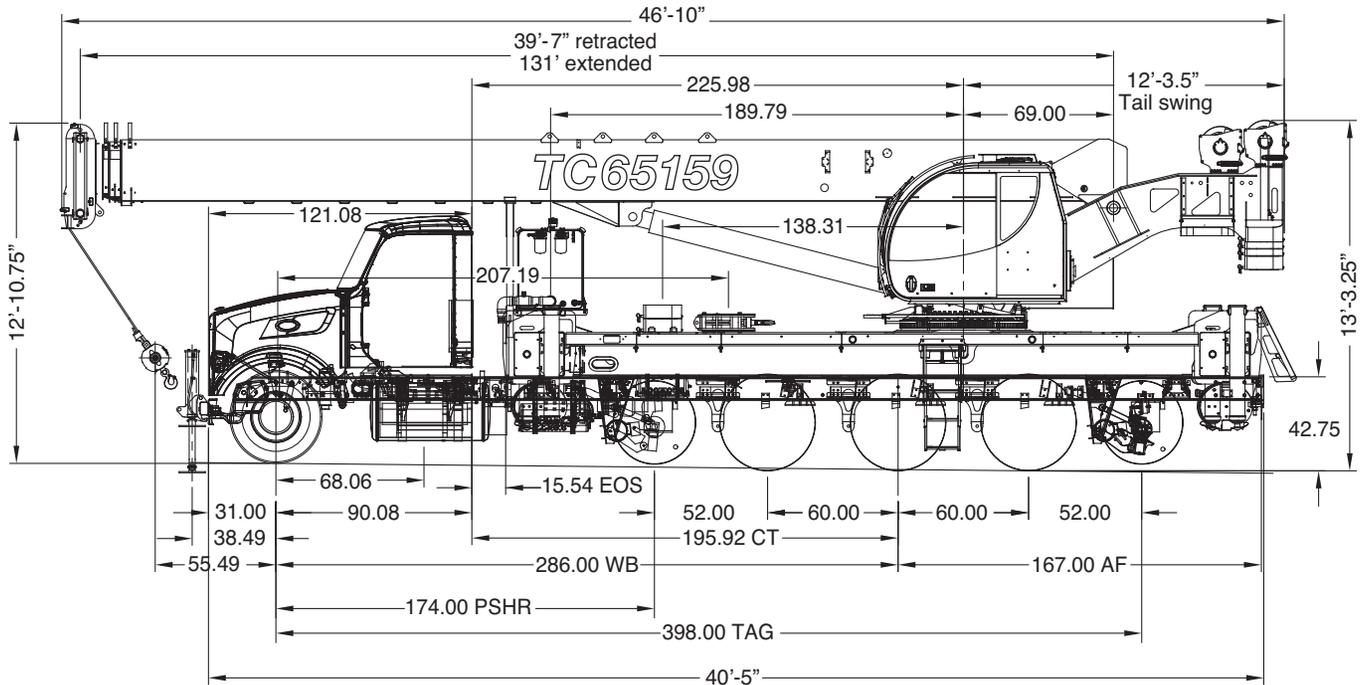
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65159 Chassis Data

Dimensions

TC65159



Chassis Data

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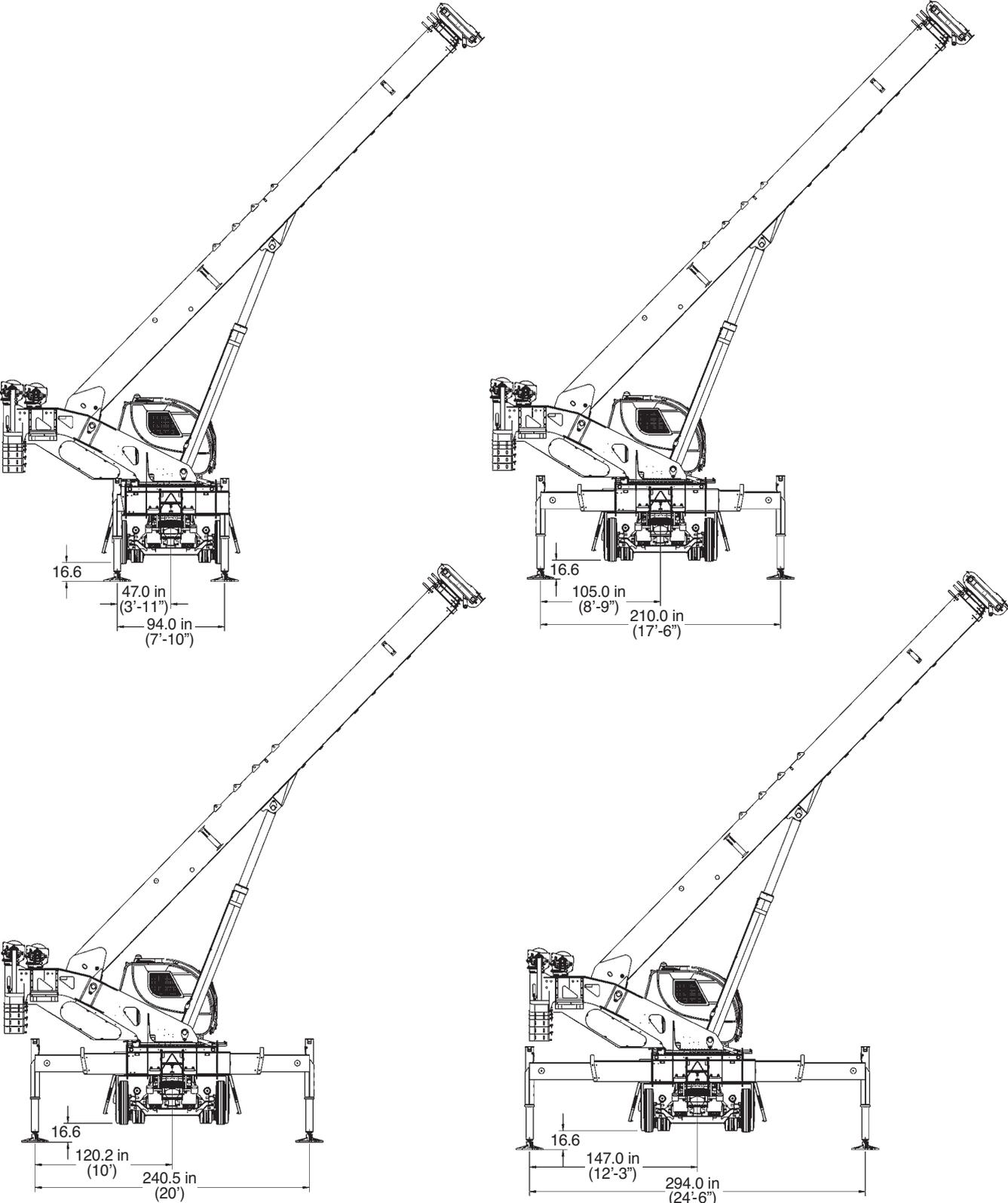
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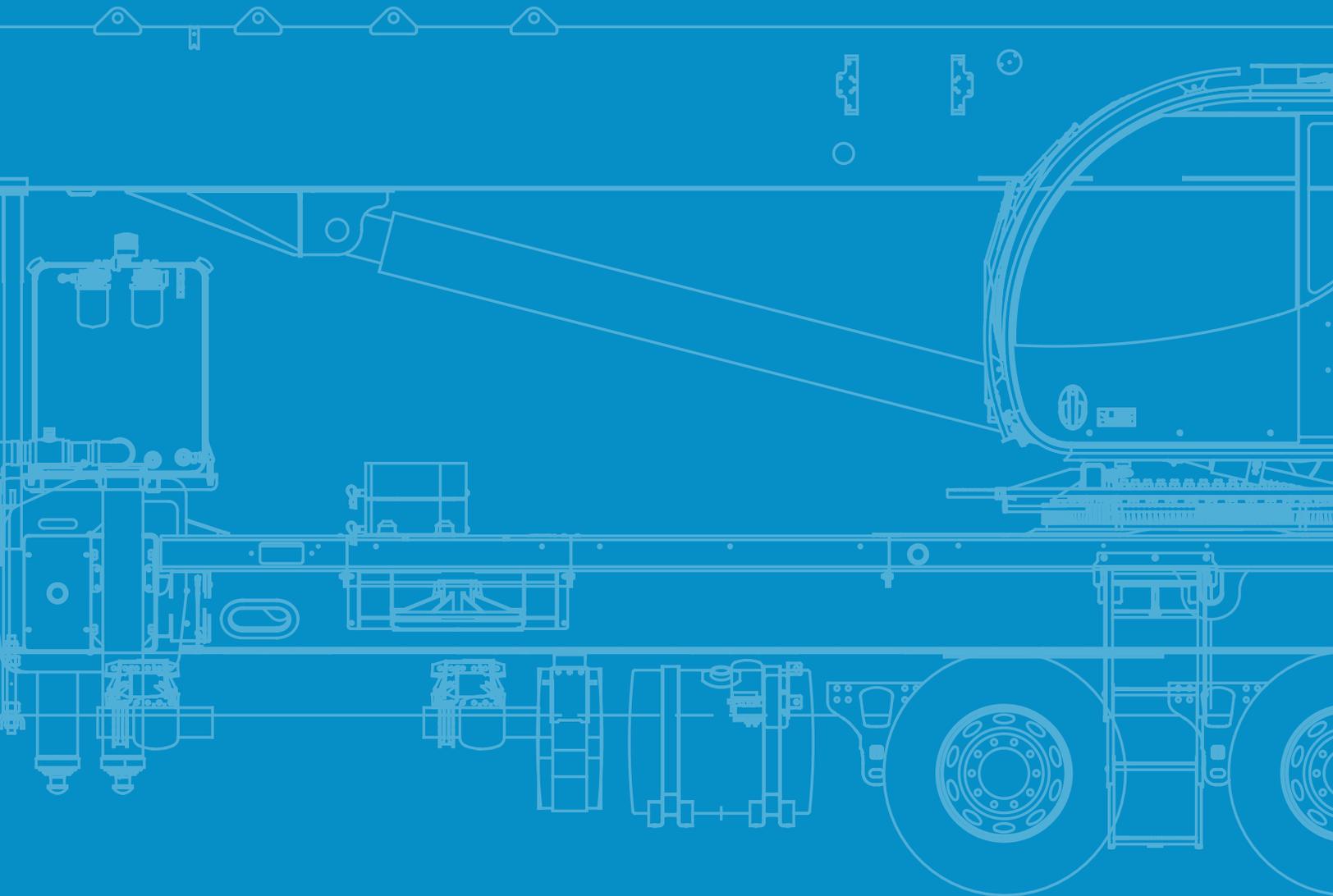
Outrigger Extension

Outrigger Extension



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TC650



65131 Load Chart

Main Boom

10,000 lbs		360°		24'-6" (7.5 m)		Fully Extended (100 %)			
	39.3 ft	53 ft (A)	66 ft (B)	79 ft (C)	92 ft (D)	105 ft (E)	118 ft (F)	131 ft (G)	
	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	
ft	° lbs	° lbs	° lbs	° lbs	° lbs	° lbs	° lbs	° lbs	ft
6	74 130,000	-	-	-	-	-	-	-	6
8	70 120,000	-	-	-	-	-	-	-	8
10	67 104,870	74 80,000	77 73,200	-	-	-	-	-	10
12	64 95,630	71 80,000	76 68,990	78 54,510	-	-	-	-	12
15	59 84,050	68 74,250	73 62,490	76 49,640	79 38,040	-	-	-	15
20	50 65,540	62 62,410	68 53,070	72 43,090	75 33,510	78 28,990	-	-	20
25	40 50,810	55 51,800	63 46,050	69 37,560	72 29,440	75 25,810	77 22,810	-	25
30	26 40,810	49 41,860	58 40,230	65 33,320	69 26,050	72 23,390	75 20,770	77 18,180	30
35	-	41 34,350	53 35,090	61 29,630	66 23,500	69 21,000	73 18,830	75 16,770	35
40	-	31 26,710	47 27,420	56 26,450	62 21,000	66 18,910	70 17,110	73 15,360	40
45	-	18 21,340	41 22,090	52 22,510	58 18,920	63 17,130	67 15,520	70 14,070	45
50	-	-	35 18,150	47 18,570	55 17,110	60 15,540	65 14,150	68 12,900	50
55	-	-	28 15,110	41 15,550	51 15,570	57 14,150	62 12,930	66 12,100	55
60	-	-	18 12,630	35 13,150	46 13,430	54 12,920	59 12,100	63 11,110	60
65	-	-	-	28 11,200	42 11,490	50 11,680	56 11,100	61 10,190	65
70	-	-	-	18 9,560	36 9,870	46 10,070	53 10,190	58 9,370	70
75	-	-	-	-	30 8,510	42 8,710	50 8,850	55 8,620	75
80	-	-	-	-	23 7,340	38 7,550	46 7,690	52 7,800	80
85	-	-	-	-	11 6,300	33 6,550	43 6,690	49 6,800	85
90	-	-	-	-	-	27 5,670	39 5,820	46 5,930	90
95	-	-	-	-	-	19 4,850	34 5,030	43 5,150	95
100	-	-	-	-	-	-	29 4,310	39 4,440	100
105	-	-	-	-	-	-	23 3,670	36 3,800	105
110	-	-	-	-	-	-	14 3,080	31 3,230	110
115	-	-	-	-	-	-	-	26 2,710	115
120	-	-	-	-	-	-	-	19 2,240	120
125	-	-	-	-	-	-	-	6 1,790	125
130	-	-	-	-	-	-	-	-	130

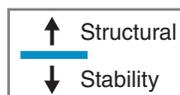
Deductions from main boom capacities

	0° 30,700	0° 18,200	0° 12,450	0° 8,350	0° 6,050	0° 4,250	0° 2,900	0° 600
ST	1,570 lbs	1,140 lbs	920 lbs	770 lbs	660 lbs	580 lbs	520 lbs	460 lbs
RET	3,510 lbs	3,240 lbs	3,100 lbs	3,010 lbs	2,940 lbs	2,890 lbs	2,850 lbs	2,820 lbs
EXT	3,910 lbs	3,530 lbs	3,340 lbs	3,200 lbs	3,110 lbs	3,040 lbs	2,980 lbs	2,940 lbs
FIX	2,620 lbs	2,420 lbs	2,320 lbs	2,250 lbs	2,200 lbs	2,170 lbs	2,140 lbs	2,120 lbs

ST = Stowed · **RET** = Retracted · **EXT** = Extended · **FIX** = Fixed

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.

65131 Load Chart

Main Boom

10,000 lbs		rear		24'-6" (7.5 m)		Fully Extended (100 %)			
	39.3 ft	53 ft (A)	66 ft (B)	79 ft (C)	92 ft (D)	105 ft (E)	118 ft (F)	131 ft (G)	
	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	Load capacity	
ft	° lbs	° lbs	° lbs	° lbs	° lbs	° lbs	° lbs	° lbs	ft
6	74 130,000	-	-	-	-	-	-	-	6
8	70 120,000	-	-	-	-	-	-	-	8
10	67 104,870	74 80,000	77 73,200	-	-	-	-	-	10
12	64 95,630	71 80,000	76 68,990	78 54,510	-	-	-	-	12
15	59 84,050	68 74,250	73 62,490	76 49,640	79 38,040	-	-	-	15
20	50 65,540	62 62,410	68 53,070	72 43,090	75 33,510	78 28,990	-	-	20
25	40 50,810	55 51,800	63 46,050	69 37,560	72 29,440	75 25,810	77 22,810	-	25
30	26 40,810	49 41,860	58 40,230	65 33,320	69 26,050	72 23,390	75 20,770	77 18,180	30
35	-	41 34,680	53 35,220	61 29,630	66 23,500	69 21,000	73 18,830	75 16,770	35
40	-	31 29,250	47 29,810	56 26,450	62 21,000	66 18,910	70 17,110	73 15,360	40
45	-	18 24,140	41 24,840	52 24,040	58 18,920	63 17,130	67 15,520	70 14,070	45
50	-	-	35 20,780	47 21,180	55 17,110	60 15,540	65 14,150	68 12,900	50
55	-	-	28 17,600	41 18,010	51 15,570	57 14,150	62 12,930	66 12,100	55
60	-	-	18 13,960	35 15,480	46 14,210	54 12,920	59 12,100	63 11,110	60
65	-	-	-	28 13,390	42 13,000	50 12,100	56 11,100	61 10,190	65
70	-	-	-	18 11,630	36 11,930	46 11,110	53 10,190	58 9,370	70
75	-	-	-	-	30 10,460	42 10,190	50 9,360	55 8,620	75
80	-	-	-	-	23 9,180	38 9,380	46 8,620	52 7,940	80
85	-	-	-	-	11 8,050	33 8,290	43 7,950	49 7,310	85
90	-	-	-	-	-	27 7,320	39 7,300	46 6,740	90
95	-	-	-	-	-	19 6,460	34 6,620	43 6,200	95
100	-	-	-	-	-	-	29 5,870	39 5,720	100
105	-	-	-	-	-	-	23 5,180	36 5,250	105
110	-	-	-	-	-	-	14 4,560	31 4,690	110
115	-	-	-	-	-	-	-	26 4,140	115
120	-	-	-	-	-	-	-	19 3,630	120
125	-	-	-	-	-	-	-	6 3,140	125
130	-	-	-	-	-	-	-	-	130

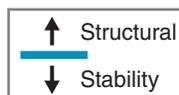
Deductions from main boom capacities

	0° 30,700	0° 19,750	0° 13,750	0° 9,100	0° 7,350	0° 4,500	0° 3,750	0° 600
STOWED	1,570 lbs	1,140 lbs	920 lbs	770 lbs	660 lbs	580 lbs	520 lbs	460 lbs
RET	3,510 lbs	3,240 lbs	3,100 lbs	3,010 lbs	2,940 lbs	2,890 lbs	2,850 lbs	2,820 lbs
EXT	3,910 lbs	3,530 lbs	3,340 lbs	3,200 lbs	3,110 lbs	3,040 lbs	2,980 lbs	2,940 lbs
FIXED	2,620 lbs	2,420 lbs	2,320 lbs	2,250 lbs	2,200 lbs	2,170 lbs	2,140 lbs	2,120 lbs

ST = Stowed · RET = Retracted · EXT = Extended · FIX = Fixed

NOTES:

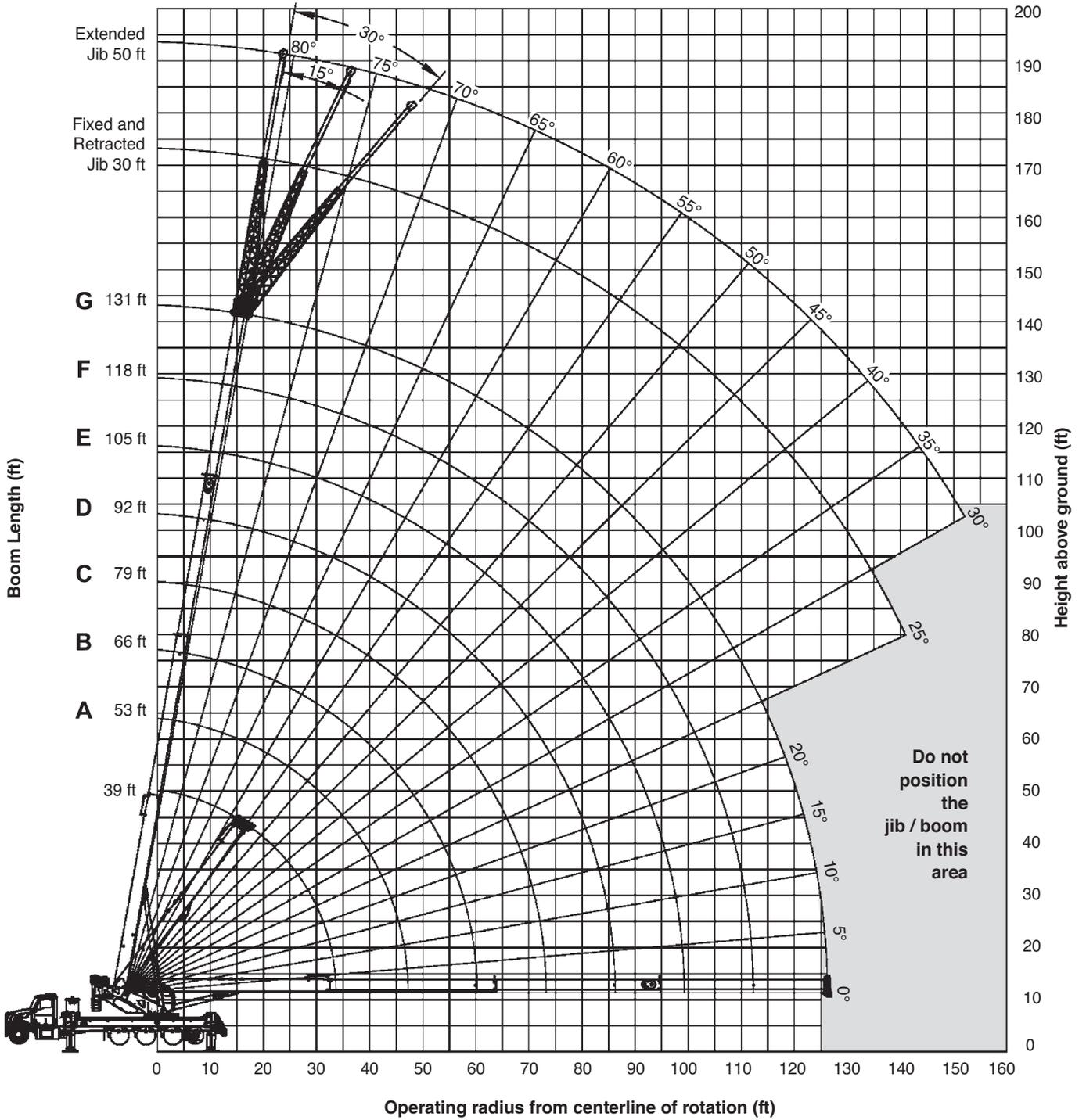
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- Loads based on crane on outriggers
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating



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

65131 Boom Diagram

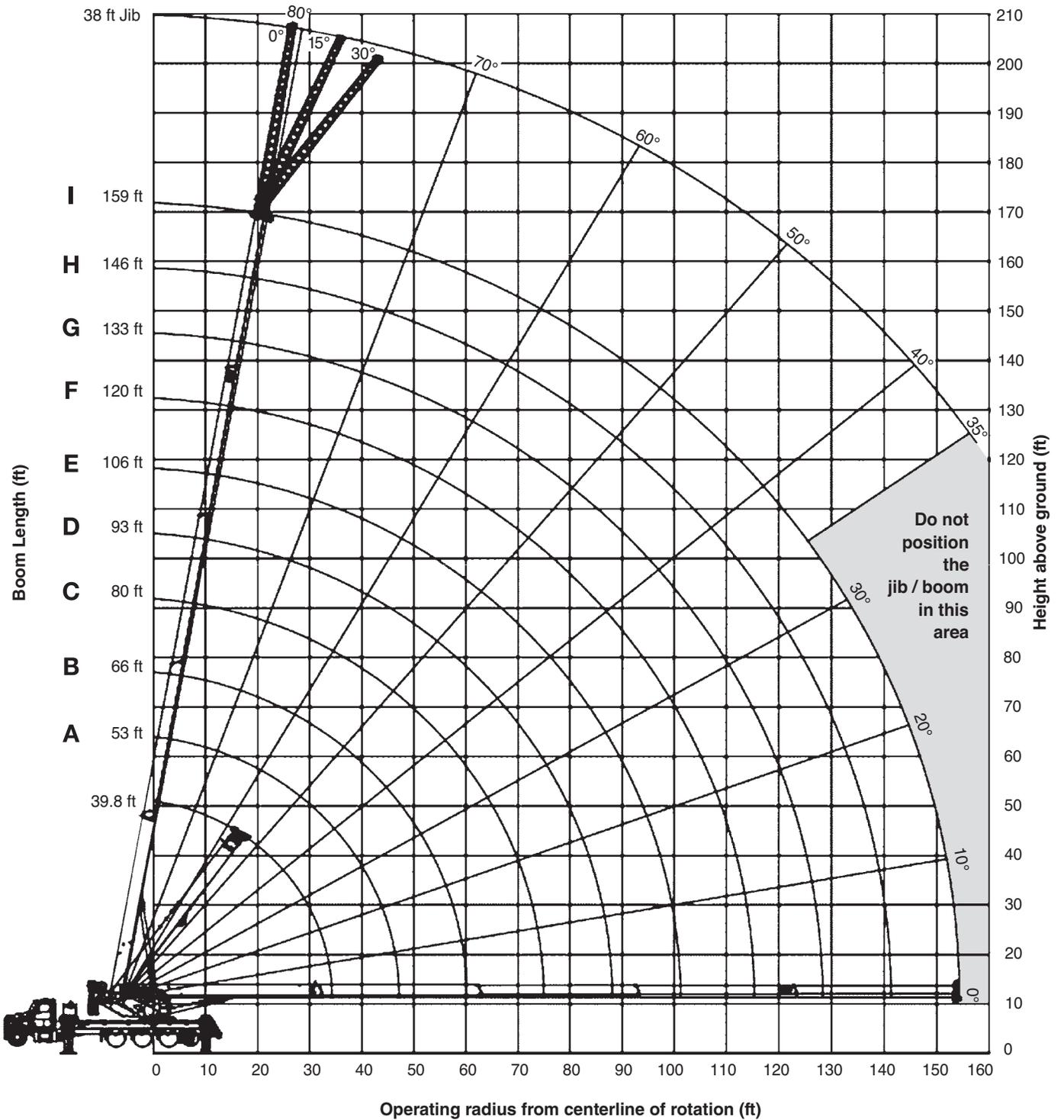
Main Boom Jib



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65159 Boom Diagram

Main Boom Jib



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65159 Load Chart

Main Boom

10,000 lbs		360°		24'-6" (7.5 m)		Fully Extended (100 %)														
39.8 ft		53 ft (A)		66 ft (B)		80 ft (C)		93 ft (D)		106 ft (E)		120 ft (F)		133 ft (G)		146 ft (H)		159 ft (I)		
Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs
6	73	130,000	78	58,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	70	118,100	76	58,000	79	58,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	67	106,200	73	58,000	77	58,000	80	58,000	-	-	-	-	-	-	-	-	-	-	-	-
12	64	95,900	71	58,000	75	58,000	78	57,900	80	46,400	-	-	-	-	-	-	-	-	-	-
15	59	82,800	68	58,000	73	58,000	76	52,300	79	42,400	80	33,500	-	-	-	-	-	-	-	-
20	50	65,100	61	58,000	68	54,000	72	45,000	75	36,800	78	29,320	80	24,490	-	-	-	-	-	-
25	40	50,200	55	51,000	63	46,500	69	39,000	72	32,300	75	25,820	77	22,030	79	19,070	81	13,000	-	-
30	26	40,000	48	41,000	58	40,500	65	34,400	69	28,560	72	23,200	75	19,670	77	17,290	79	13,000	81	9,450
35	-	-	40	33,700	53	34,300	61	30,500	66	25,390	69	20,660	73	17,630	75	15,630	77	13,000	79	9,500
40	-	-	31	27,360	47	28,110	56	27,250	62	22,930	66	18,500	70	15,830	73	14,190	75	12,500	77	9,500
45	-	-	17	21,670	40	22,460	52	23,030	58	20,640	63	16,680	67	14,300	71	12,870	73	11,600	75	9,500
50	-	-	-	-	33	18,280	47	18,830	55	18,740	60	15,090	65	13,020	68	11,930	71	10,620	73	9,000
55	-	-	-	-	24	15,050	42	15,600	51	16,010	57	13,690	62	12,020	66	10,840	69	9,720	71	8,450
60	-	-	-	-	5	12,370	36	13,040	47	13,430	54	12,460	59	10,940	63	9,880	67	8,880	70	7,780
65	-	-	-	-	-	-	29	10,940	42	11,330	50	11,570	56	9,960	61	9,030	64	8,130	68	7,140
70	-	-	-	-	-	-	20	9,180	37	9,590	46	9,900	53	9,100	58	8,250	62	7,430	65	6,560
75	-	-	-	-	-	-	-	-	31	8,110	42	8,420	50	8,300	55	7,530	60	6,780	63	6,010
80	-	-	-	-	-	-	-	-	24	6,840	38	7,150	47	7,450	53	6,870	57	6,190	61	5,500
85	-	-	-	-	-	-	-	-	14	5,700	33	6,050	43	6,340	50	6,280	55	5,670	59	5,020
90	-	-	-	-	-	-	-	-	-	-	27	5,080	39	5,380	47	5,630	52	5,160	57	4,560
95	-	-	-	-	-	-	-	-	-	-	20	4,210	35	4,520	44	4,760	50	4,690	54	4,150
100	-	-	-	-	-	-	-	-	-	-	-	-	30	3,750	40	3,990	47	4,230	52	3,760
105	-	-	-	-	-	-	-	-	-	-	-	-	25	3,050	36	3,300	44	3,530	50	3,400
110	-	-	-	-	-	-	-	-	-	-	-	-	17	2,400	32	2,680	41	2,900	47	3,050
115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	2,100	37	2,320	44	2,530
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	1,560	34	1,800	41	2,000
125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	1,040	29	1,320	38	1,520
130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	860	35	1,070
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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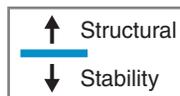
Deductions from main boom capacities

	0°	25,400	0°	18,000	0°	12,150	0°	6,950	0°	5,000	0°	2,800	0°	1,550	-	-	-	-	-	-
ST	910 lbs	650 lbs	510 lbs	420 lbs	350 lbs	310 lbs	270 lbs	240 lbs	220 lbs	200 lbs										
ER	2,440 lbs	2,220 lbs	2,100 lbs	2,010 lbs	1,960 lbs	1,920 lbs	1,890 lbs	1,860 lbs	1,850 lbs	1,830 lbs										

ST = Stowed · ER = Erected

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.

65159 Load Chart

Main Boom

10,000 lbs		rear		24'-6" (7.5 m)		Fully Extended (100%)														
39.8 ft		53 ft (A)		66 ft (B)		80 ft (C)		93 ft (D)		106 ft (E)		120 ft (F)		133 ft (G)		146 ft (H)		159 ft (I)		
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs
6	73	130,000	78	58,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	70	118,100	76	58,000	79	58,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	67	106,200	73	58,000	77	58,000	80	58,000	-	-	-	-	-	-	-	-	-	-	-	-
12	64	95,900	71	58,000	75	58,000	78	57,900	80	46,400	-	-	-	-	-	-	-	-	-	-
15	59	82,800	68	58,000	73	58,000	76	52,300	79	42,400	80	33,500	-	-	-	-	-	-	-	-
20	50	65,100	61	58,000	68	54,000	72	45,000	75	36,800	78	29,320	80	24,490	-	-	-	-	-	-
25	40	50,200	55	51,000	63	46,500	69	39,000	72	32,300	75	25,820	77	22,030	79	19,070	81	13,000	-	-
30	26	40,000	48	41,000	58	40,500	65	34,400	69	28,560	72	23,200	75	19,670	77	17,290	79	13,000	81	9,450
35	-	-	40	33,700	53	34,200	61	30,500	66	25,390	69	20,660	73	17,630	75	15,630	77	13,000	79	9,500
40	-	-	31	28,220	47	28,780	56	27,250	62	22,930	66	18,500	70	15,830	73	14,190	75	12,500	77	9,500
45	-	-	17	23,840	40	24,460	52	24,510	58	20,640	63	16,680	67	14,300	71	12,870	73	11,600	75	9,500
50	-	-	-	-	33	20,980	47	21,420	55	18,740	60	15,090	65	13,020	68	11,930	71	10,620	73	9,000
55	-	-	-	-	24	17,660	42	18,160	51	17,030	57	13,690	62	12,020	66	10,840	69	9,720	71	8,450
60	-	-	-	-	5	12,810	36	15,450	47	15,540	54	12,460	59	10,940	63	9,880	67	8,880	70	7,780
65	-	-	-	-	-	-	29	13,220	42	13,570	50	11,570	56	9,960	61	9,030	64	8,130	68	7,140
70	-	-	-	-	-	-	20	11,320	37	11,700	46	10,590	53	9,100	58	8,250	62	7,430	65	6,560
75	-	-	-	-	-	-	-	-	31	10,110	42	9,700	50	8,300	55	7,530	60	6,780	63	6,010
80	-	-	-	-	-	-	-	-	24	8,720	38	8,890	47	7,580	53	6,870	57	6,190	61	5,500
85	-	-	-	-	-	-	-	-	14	7,480	33	7,820	43	6,940	50	6,280	55	5,670	59	5,020
90	-	-	-	-	-	-	-	-	-	-	27	6,760	39	6,350	47	5,720	52	5,160	57	4,560
95	-	-	-	-	-	-	-	-	-	-	20	5,800	35	5,790	44	5,200	50	4,690	54	4,150
100	-	-	-	-	-	-	-	-	-	-	-	-	30	5,260	40	4,740	47	4,250	52	3,760
105	-	-	-	-	-	-	-	-	-	-	-	-	25	4,490	36	4,300	44	3,840	50	3,400
110	-	-	-	-	-	-	-	-	-	-	-	-	17	3,780	32	3,900	41	3,460	47	3,050
115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	3,410	37	3,100	44	2,720
120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	2,810	34	2,770	41	2,410
125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	2,240	29	2,460	38	2,110
130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	2,010	35	1,820
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	1,520	31	1,540
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	970	27	1,280
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	900

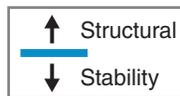
Deductions from main boom capacities

0°	25,350	0°	19,200	0°	12,600	0°	7,200	0°	5,900	0°	2,600	0°	1,650	0°	1,250	0°	900	-	-
ST	910 lbs	650 lbs	510 lbs	420 lbs	350 lbs	310 lbs	270 lbs	240 lbs	220 lbs	200 lbs									
ER	2,440 lbs	2,220 lbs	2,100 lbs	2,010 lbs	1,960 lbs	1,920 lbs	1,890 lbs	1,860 lbs	1,850 lbs	1,830 lbs									

ST = Stowed · ER = Erected

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

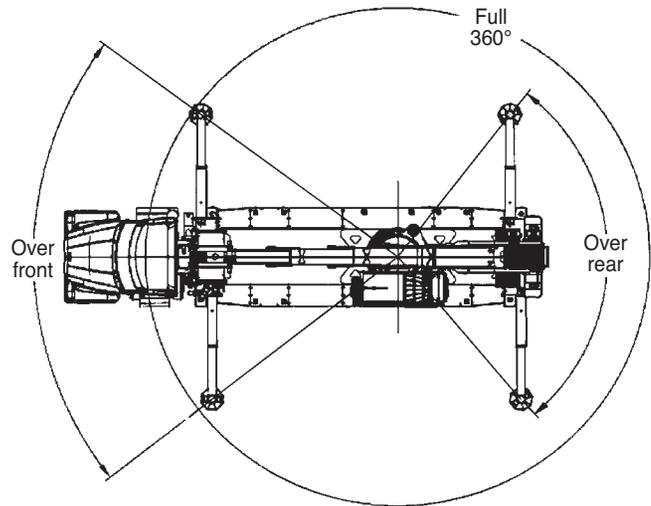


Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

Area of Operation · Reeving Diagram

Area of Operation

When working over the front, the optional front bumper stabilizer (if equipped) must be deployed.
If no front bumper stabilizer is equipped, the front tires must be contacting the ground.



Deductions from rated loads for load handling devices supplied by Tadano

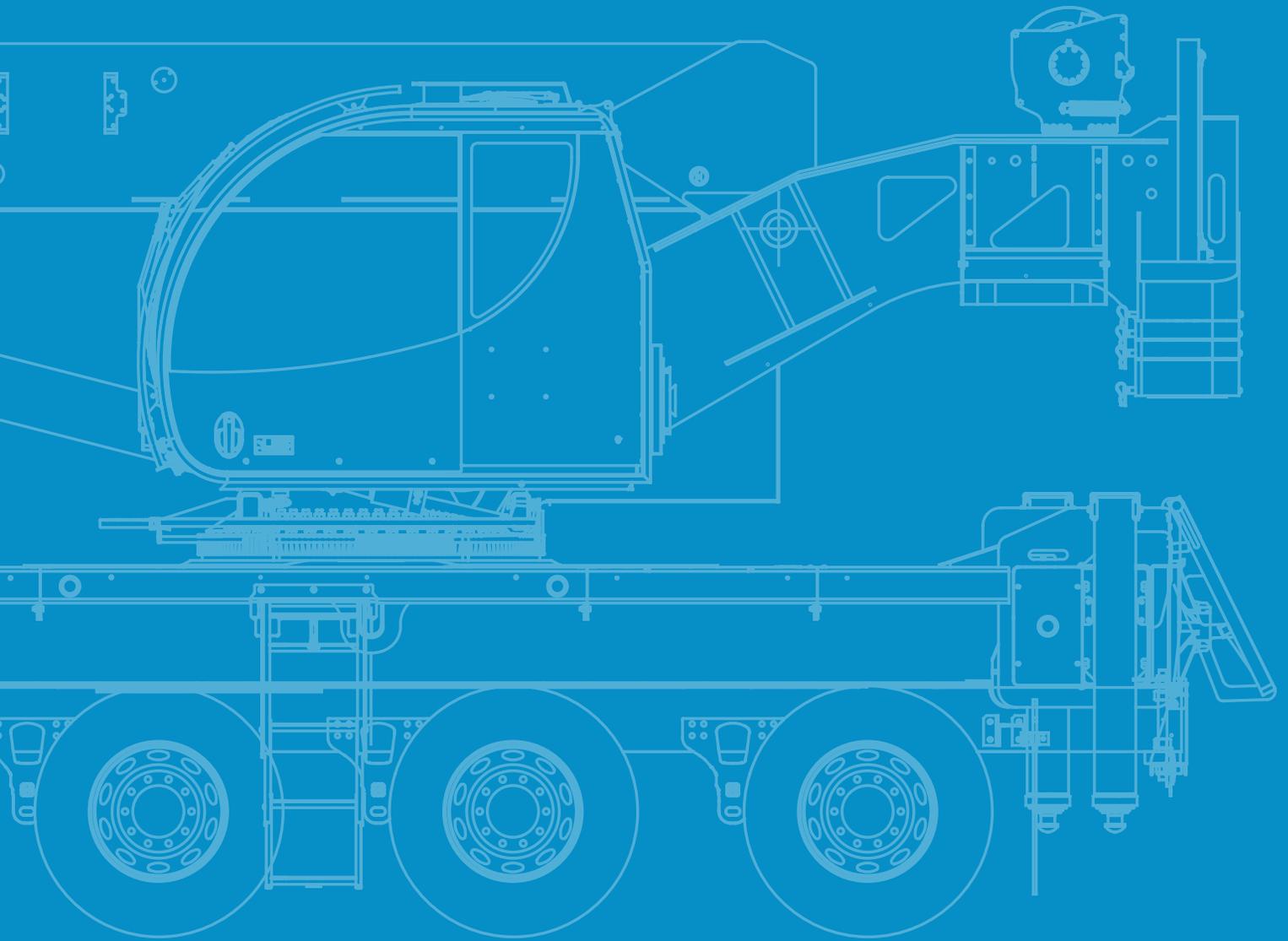
Auxiliary block	50 lbs (22.7 kg)
Auxiliary (rooster) sheave	70 lbs (31.8 kg)
Lifting from main boom with jib stowed or erected	See load chart
Overhaul ball	See manufacturer nameplate
Load block	See manufacturer nameplate

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

Reeving Diagram

Allowable Line Pull											WARNING
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	11 part line	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.
12,000 lbs	24,000 lbs	36,000 lbs	48,000 lbs	60,000 lbs	72,000 lbs	84,000 lbs	96,000 lbs	108,000 lbs	120,000 lbs	130,000 lbs	

TC650



Technical Description

Boom



Boom lengths: Proportional boom

- 4-section 131 ft (39.92 m)
- 5-section 159 ft (48.5 m)

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



Boom max. tip height 65131: 141 ft (43 m)
Boom max. tip height 65159: 169 ft (51.5 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 to 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 100%

- Front and rear: 24.5 ft (7.5 m)

Middle extension 68%

- Front and rear: 20.0 ft (6.0 m)

Middle extension 50%

- Front and rear: 17.5 ft (5.3 m)

Full retraction 0%



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 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:
15,000 lbs (6,804 kg)



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



Line length:
500 ft (152 m)



Main winch:
Bent axis 2-speed hydraulic motor (activated electrically)
Optional 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 (swing)
Hydraulic reservoir capacity: 210 gallons (795 l)
Pump sections @ 2000 rpm with 100 psi

- Variable displacement pump: 77 gpm (291 lpm)
- Fixed displacement gear pump: 12 gpm (45 lpm)
- Optional front bumper stabilizer

Tiltable 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



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 LMI system available, wired ATB and wired wind speed sensors, telematics, GPS monitoring, remote diagnostic capability, Work Area Definition (WADs)

Technical Description – Options

Boom

Boom



Boom max. tip height 65131:
141 ft (43 m)

Max. Boom Length with Fixed Jib



65131
• Max boom length with extension:
171 ft (52.1 m)

Maximum Tip Height with 2-Piece Jib



65131
• Max tip height 2-piece jib:
194 ft (59.1 m)

Maximum Tip Height with 1-Piece Jib



65159
• Max tip height 1-piece jib:
209 ft (63.7 m)

Hoist, Rope and Hook



Rooster sheave
Wireline options available
2nd overhaul ball available



Load blocks 1-7, 4-8, 2-8, 9-10 part lines

Removable Counterweights



Removable counterweights 10,000 lbs (4,536 kg)
2 – 1,250 lbs (567 kg)
3 – 2,500 lbs (1,134 kg)

Technical Description – Options

Cab



Video camera (1 or 2)
Cab weather band bluetooth radio system
Wired wind speed indicator
Cab step light
Perimeter lighting
Strobe light
Cab go-light
Utilization light
Slide out operator platform
4 single-axis controllers

Operator Aids



4-function radio remote crane control system with joysticks (crane is radio remote ready)

- 900 Mhz
- 433 Mhz

Tool Boxes and Platforms

Tool Boxes

- 2 – 45 in. x 15 in. x 18 in. (1,143 mm x 381 mm x 457 mm)
storage bins integrated into platforms

Auxiliary Winch



Auxiliary winch bent axis 2-speed hydraulic motor
(activated electrically)
Drum rotation indicator third wrap limiter on both main and auxiliary winch
(3rd wrap indicator optional)

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Reaching new heights

