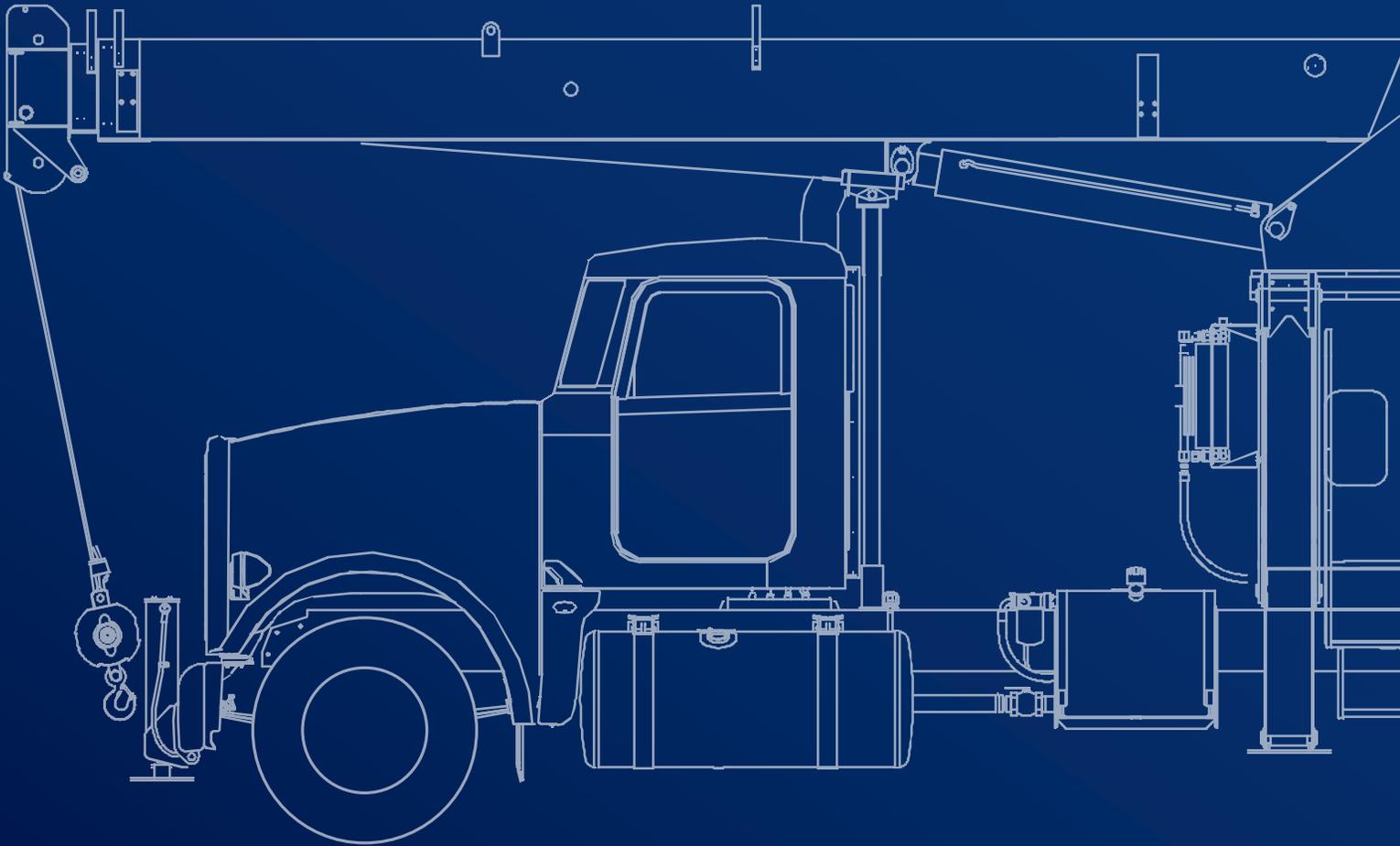


CM220

SERIES PRODUCT GUIDE

22 TON (20 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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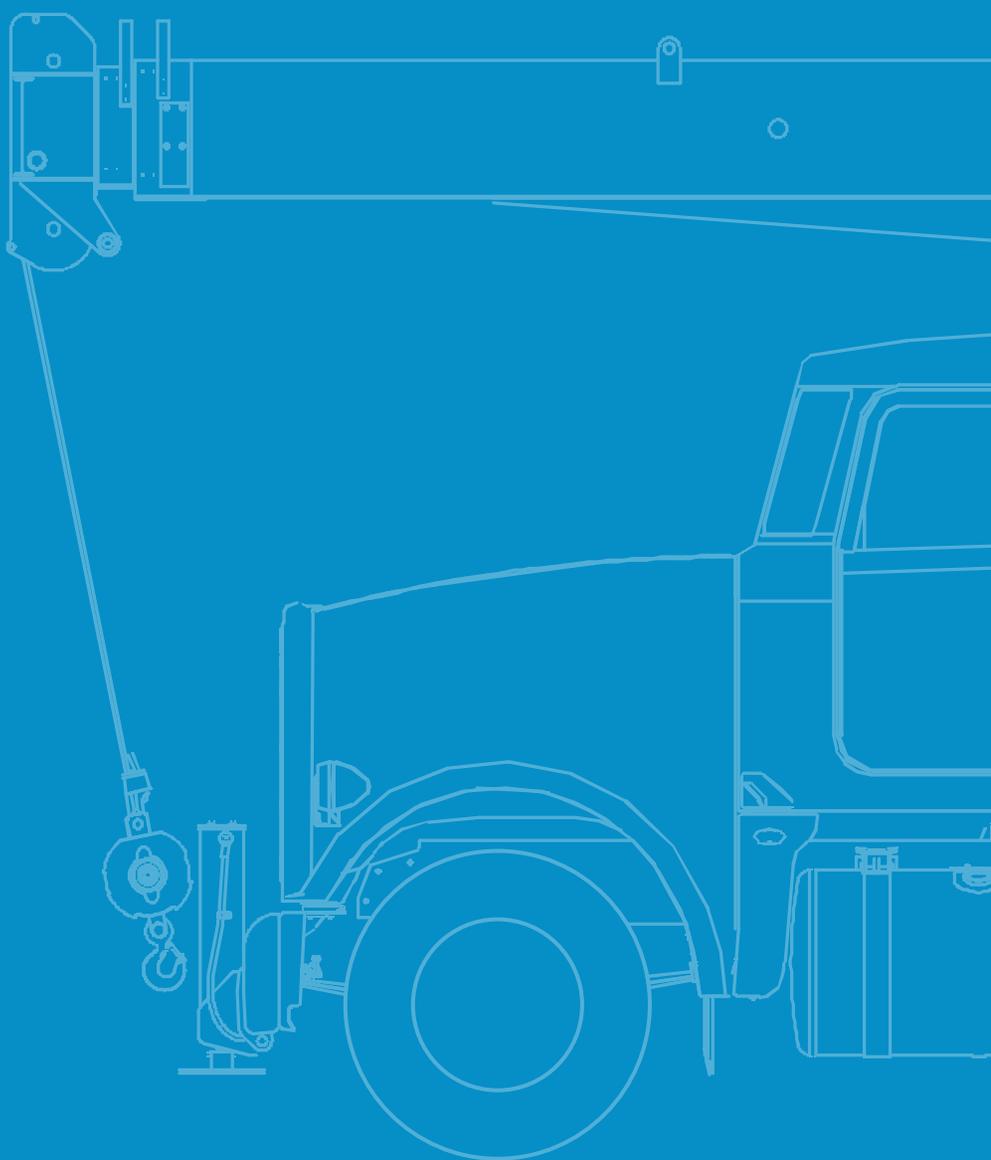
Contents

2250C Chassis Data	6
2250T Chassis Data.....	7
2262T Chassis Data.....	8
2277C Chassis Data	9
2281C Chassis Data	10
Outrigger Extension	11-13
2250CT Load Chart: Main Boom and Jib	16
2250CT Boom Diagram.....	17
2250C Load Chart: Main Boom and Jib.....	18
2250C Boom Diagram	19
2262C Load Chart: Main Boom and Jib.....	20
2262C Boom Diagram	21
2262C Load Chart: Main Boom	22
2262C Boom Diagram	23
2277C Load Chart: Main Boom and Jib.....	24
2277C Boom Diagram	25
2281C Load Chart: Main Boom and Jib.....	26
2281C Boom Diagram	27
Area of Operation.....	28
Reeving Diagram	28
Technical Description	30-31
Technical Description – Options	32-33

Key

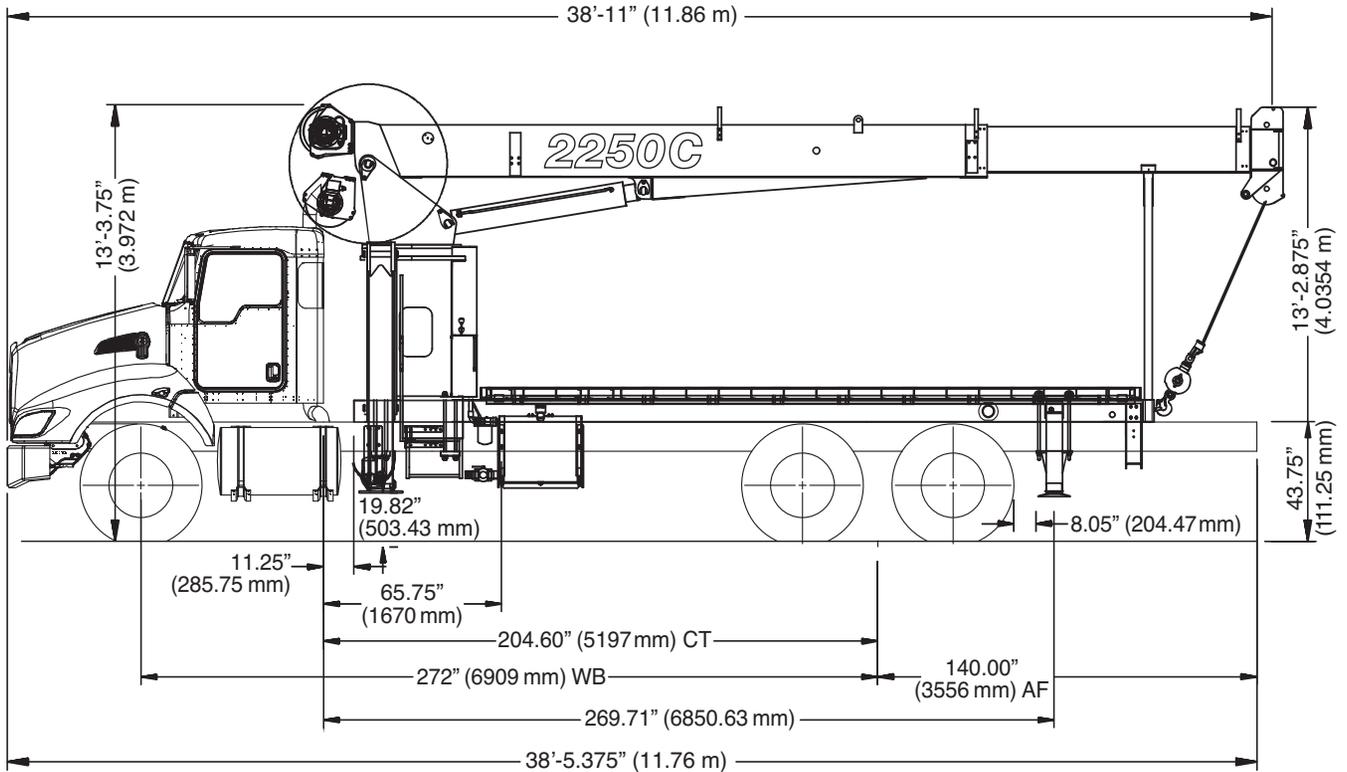
	Operator aids		Radio remote control
	Cab		Hook block
	Heating / Air conditioning		Distance from hook to head sheave pin
	Controls		Hook and ball
	Hoist speed		Hydraulics
	1 - Main hoist 2 - Auxiliary winch 3 - Recovery winch		Boom elevation angle
	Rope length		Max. boom length with extension
	Rope – 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
	A-Frame outriggers		Main boom with auxiliary head
	2-person man basket		Tip height
	Counterweight		

CM 220



2250C Chassis Data

Dimensions



Chassis Data

Model	2250C
Wheelbase (WB)	272 in. (6,909 mm)
Cab to tandem (CT)	204.6 in. (5,197 mm)
After frame (AF)	140 in. (3,556 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	30 in ³ (491.6 cm ³) 110,000 psi · 758,422 kPa

Crane Weight

Model	2250C
Total crane standard A-frame outriggers	13,787 lbs (6,254 kg)
Flatbed 18 ft	1,550 lbs (703 kg)
Flatbed 22 ft	1,890 lbs (857 kg)
Telescopic jib	958 lbs (435 kg)
Fixed jib	832 lbs (377 kg)

Truck Axle Weight

Front axle gross weight rating	20,000 lbs (9,072 kg)
Rear axle gross weight rating	34,000 lbs (15,422 kg)
Min. truck axle weight – Front**	Consult factory
Min. truck axle weight – Rear**	Consult factory

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

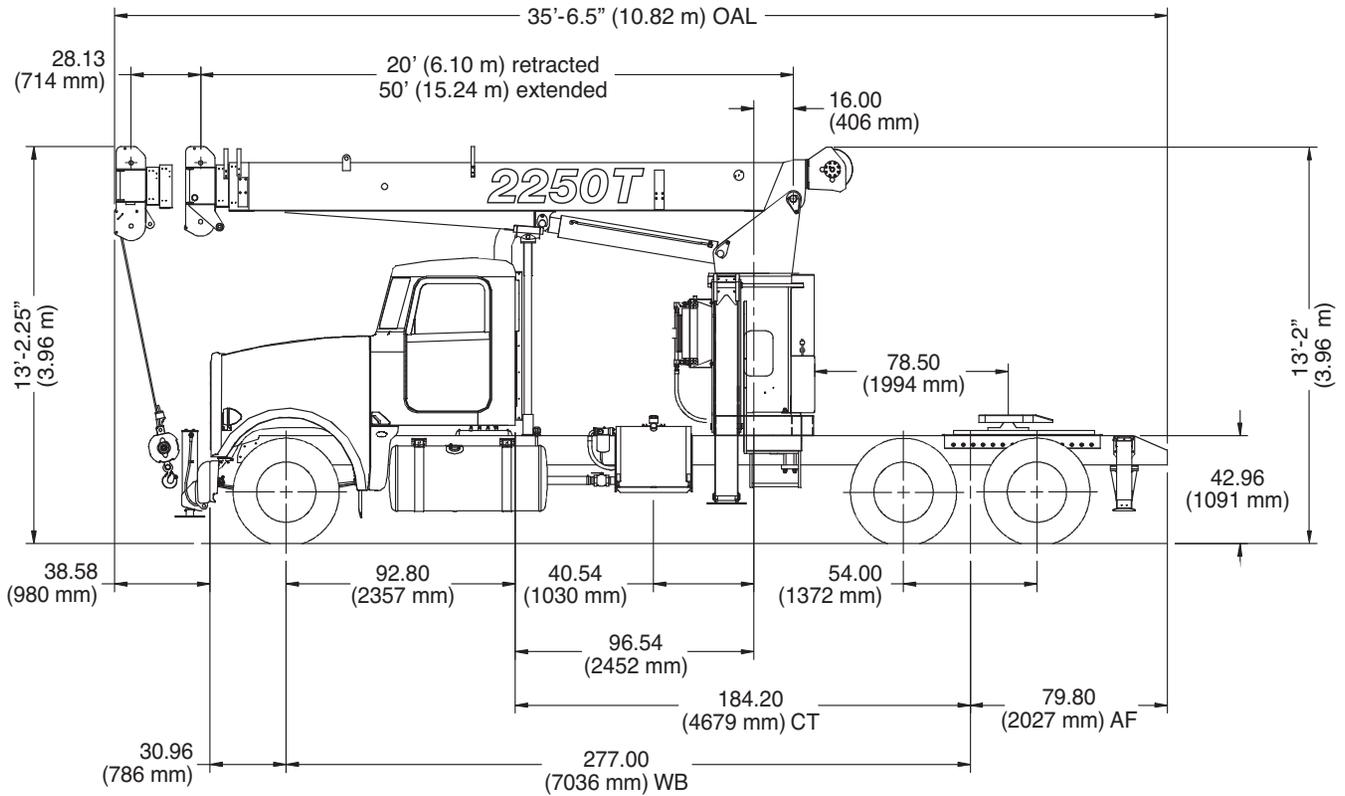
** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

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

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

2250T Chassis Data

Dimensions



Chassis Data

Model	2250T
Wheelbase (WB)	277 in. (7,036 mm)
Cab to tandem (CT)	184.20 in. (4,679 mm)
After frame (AF)	79.8 in. (2,027 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	30 in ³ (491.6 cm ³) 110,000 psi · 758,422 kPa

Truck Axle Weight

Front axle gross weight rating	20,000 lbs (9,072 kg)
Rear axle gross weight rating	34,000 lbs (15,422 kg)
Min. truck axle weight – Front**	Consult factory
Min. truck axle weight – Rear**	Consult factory

Crane Weight

Model	2250T
Total crane A-frame outriggers	12,874 lbs (5,840 kg)
Telescopic jib	1,220 lbs (553 kg)
Fixed jib	832 lbs (377 kg)

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

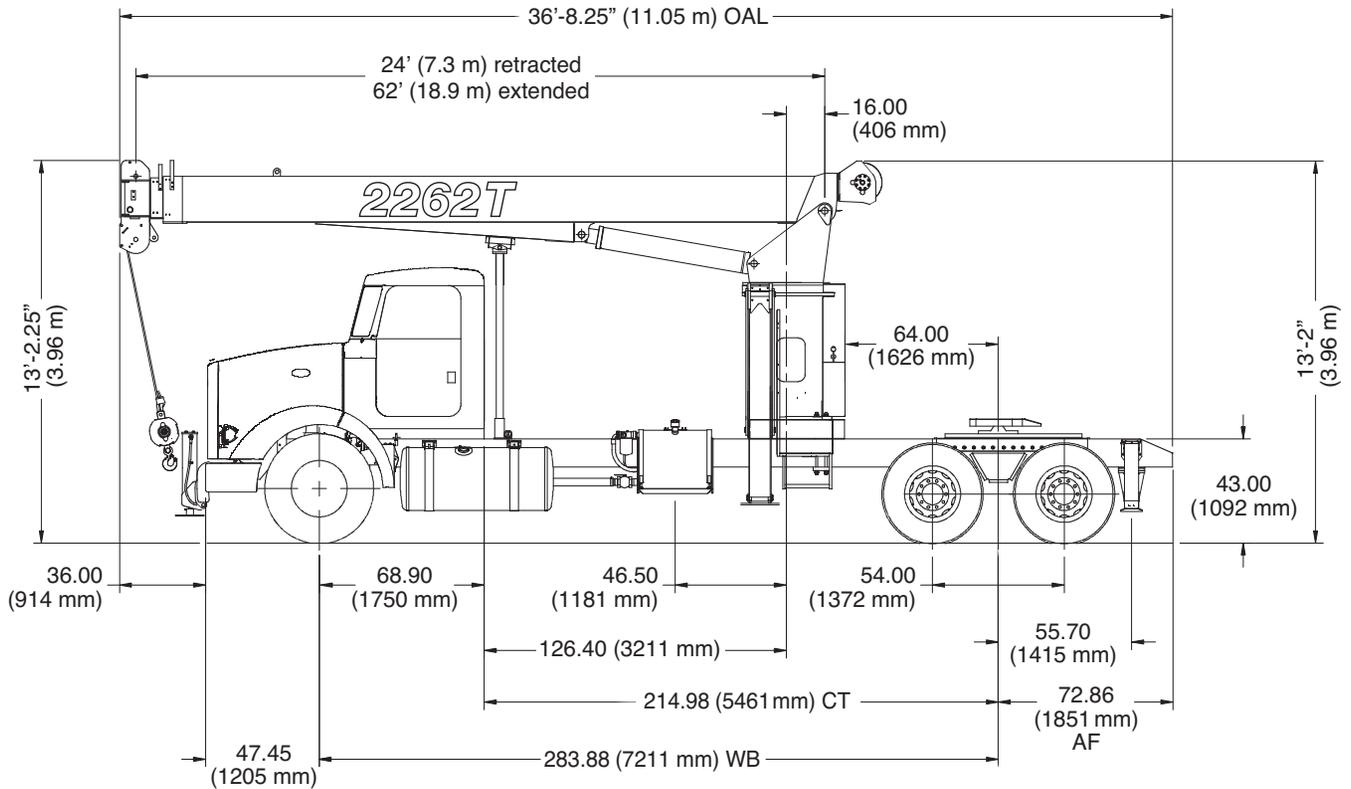
** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

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

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2262T Chassis Data

Dimensions



Chassis Data

Model	2262T
Wheelbase (WB)	283.88 in. (7,211 mm)
Cab to tandem (CT)	214.98 in. (5,461 mm)
After frame (AF)	72.86 in (1,851 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	30 in ³ (491.6 cm ³) 110,000 psi · 758,422 kPa

Crane Weight

Model	2262T
Total crane A-frame outriggers	13,665 lbs (6,198 kg)
Telescopic jib	1,085 lbs (492 kg)
Fixed jib	815 lbs (370 kg)

Truck Axle Weight

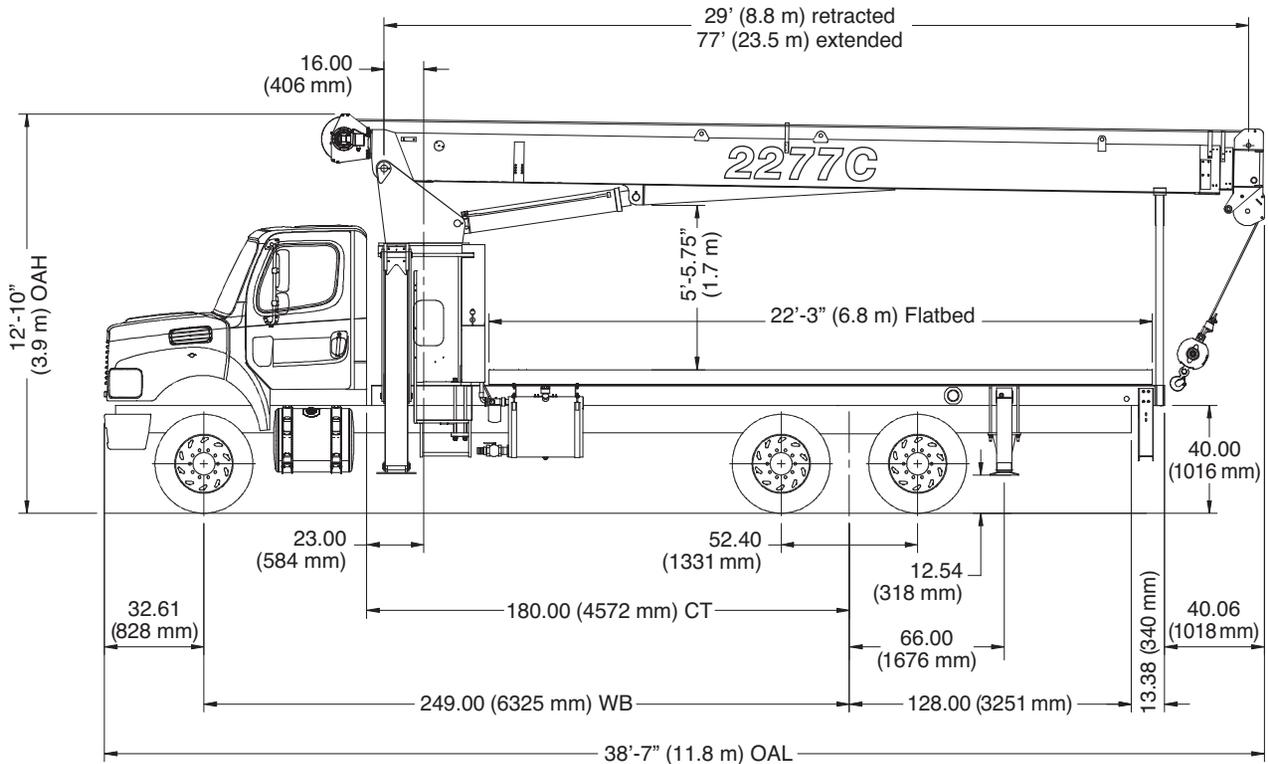
Front axle gross weight rating	20,000 lbs (9,072 kg)
Rear axle gross weight rating	40,000 lbs (18,144 kg)

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.
Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends addition of a front stabilizer and may be required on some installations – consult Tadano.

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2277C Chassis Data

Dimensions



Chassis Data

Model	2277C
Wheelbase (WB)	249 in. (6,325 mm)
Cab to tandem (CT)	180 in. (4,572 mm)
After frame (AF)	128 in. (3,251 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	28 in ³ (491.6 cm ³) 110,000 psi · 758,422 kPa

Truck Axle Weight

Front axle gross weight rating	16,000 lbs (7,257 kg)
Rear axle gross weight rating	34,000 lbs (15,422 kg)
Min. truck axle weight – Front**	8,500 lbs (3,856 kg)
Min. truck axle weight – Rear**	8,150 lbs (3,697 kg)

Crane Weight

Model	2277C
Total crane A-frame outriggers	16,620 lbs (7,538 kg)
Flatbed 18 ft wood/steel	1,550 lbs (703 kg)
Flatbed 20 ft wood/steel	1,890 lbs (857 kg)
Telescopic jib	1,285 lbs (582 kg)
Fixed jib	630 lbs (285 kg)

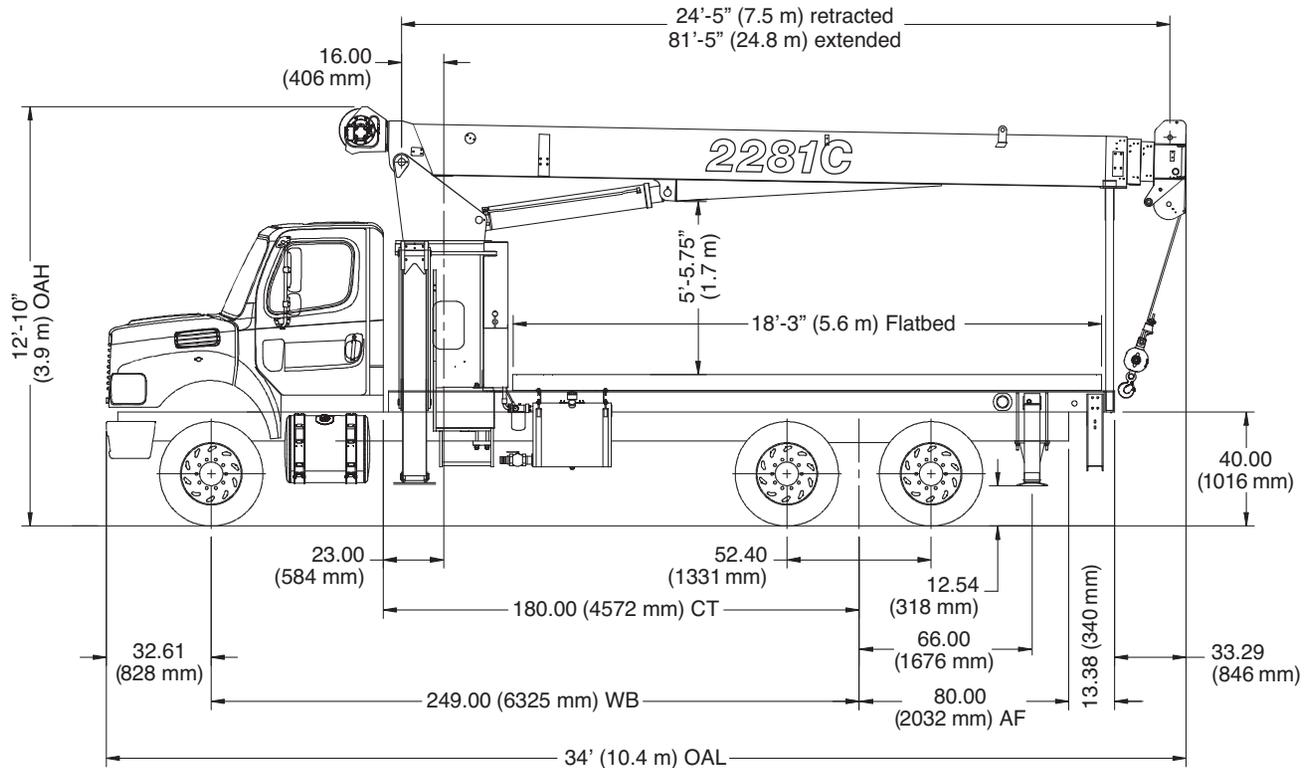
* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

** 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 Tadano. Tadano highly recommends addition of a front stabilizer and may be required on some installations – consult Tadano.

2281C Chassis Data

Dimensions



Chassis Data

Model	2281C
Wheelbase (WB)	249 in. (6,325 mm)
Cab to tandem (CT)	180 in. (4,572 mm)
After frame (AF)	80 in. (2,032 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	28 in ³ (491.6 cm ³) 110,000 psi · 758,422 kPa

Truck Axle Weight

Front axle gross weight rating	16,000 lbs (7,257 kg)
Rear axle gross weight rating	34,000 lbs (15,422 kg)
Min. truck axle weight – Front**	7,100 lbs (3,220 kg)
Min. truck axle weight – Rear**	7,400 lbs (3,356 kg)

Crane Weight

Model	2281C
Total crane A-frame outriggers	16,912 lbs (7,671 kg)
Flatbed 18 ft	1,550 lbs (703 kg)
Flatbed 20 ft	1,720 lbs (780 kg)
Flatbed 22 ft	1,890 lbs (857 kg)
Telescopic jib	886 lbs (401 kg)
Fixed jib	630 lbs (285 kg)

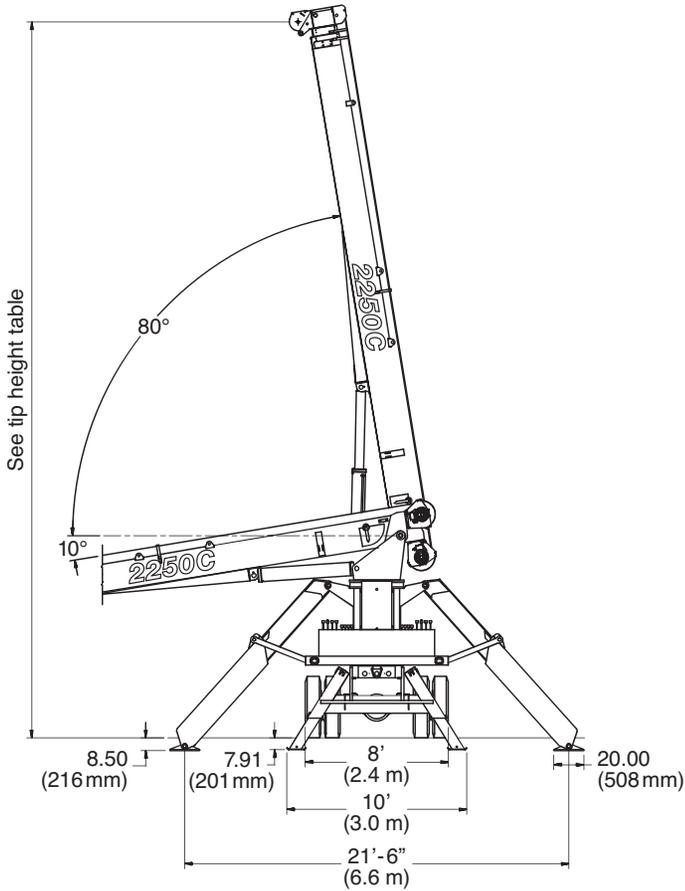
* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

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

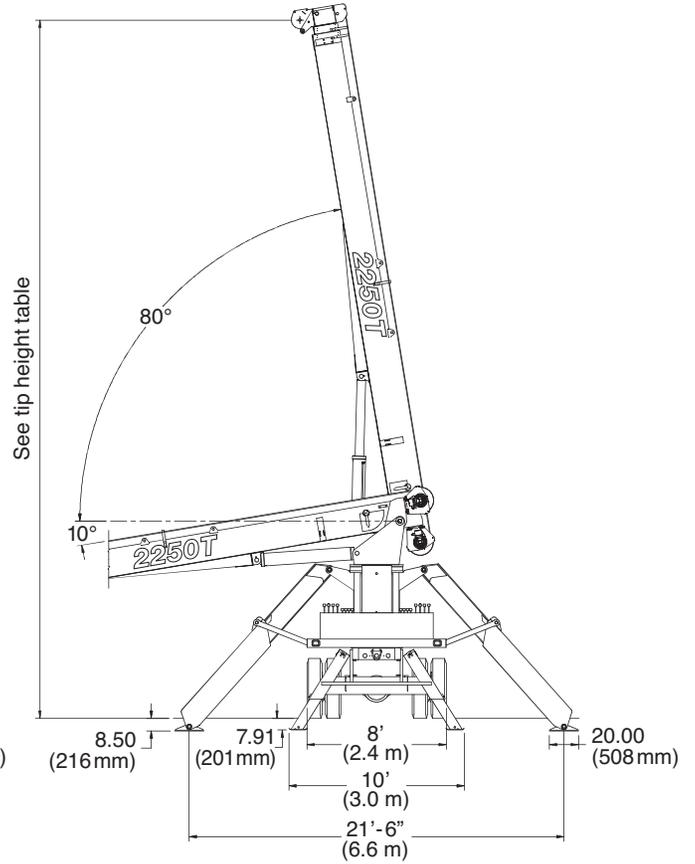
Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends addition of a front stabilizer and may be required on some installations – consult Tadano.

Outrigger Extension

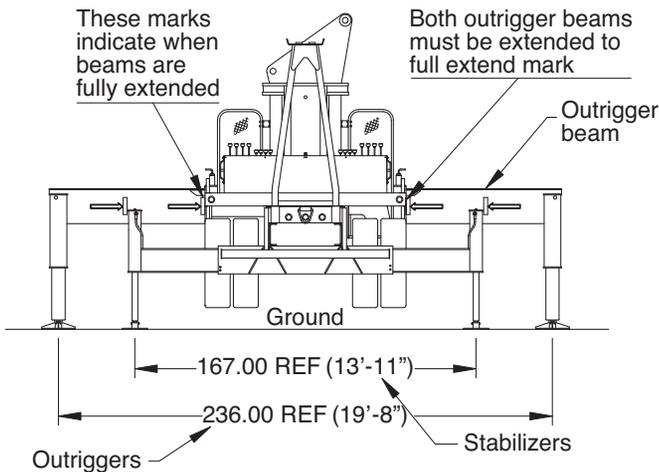
2250C Outrigger Rear



2250T Outrigger Rear



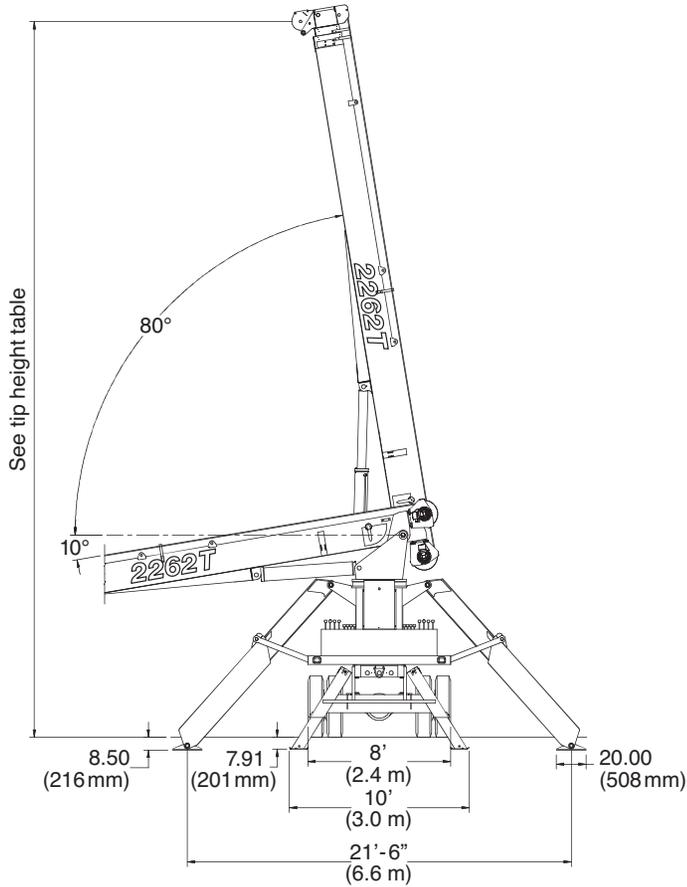
2250C Outrigger Dimensions



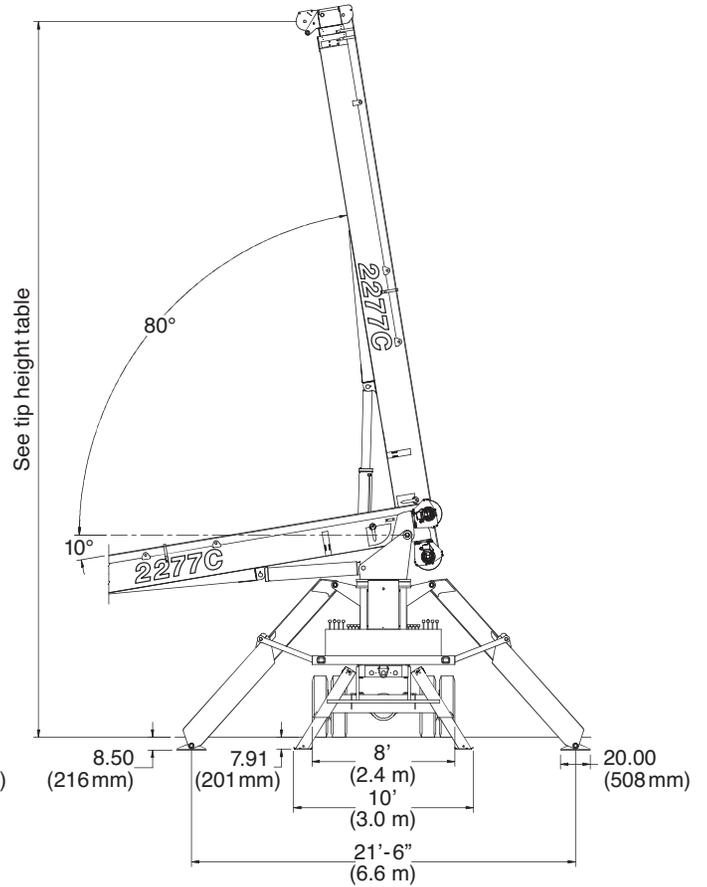
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

Outrigger Extension

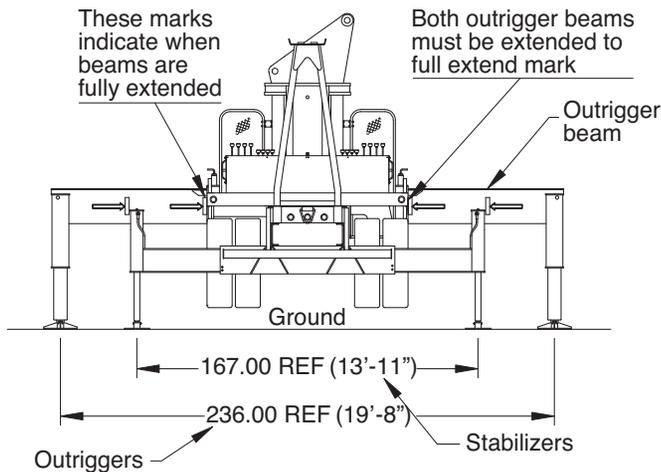
2262T Outrigger Rear for A-Frame Outriggers



2277C Outrigger Rear for A-Frame Outriggers



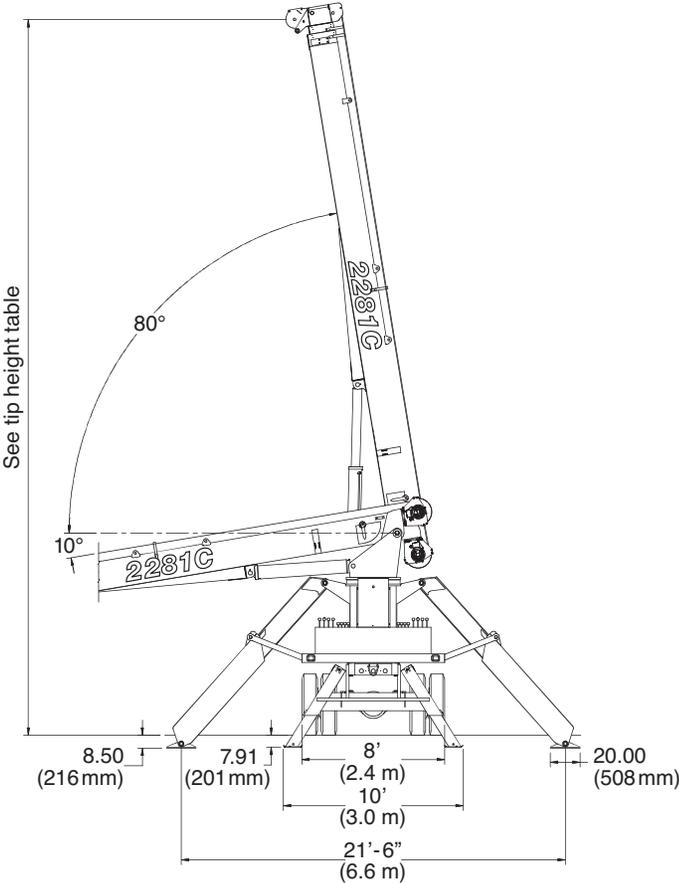
2262C Outrigger Dimensions for Out and Down Outriggers



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

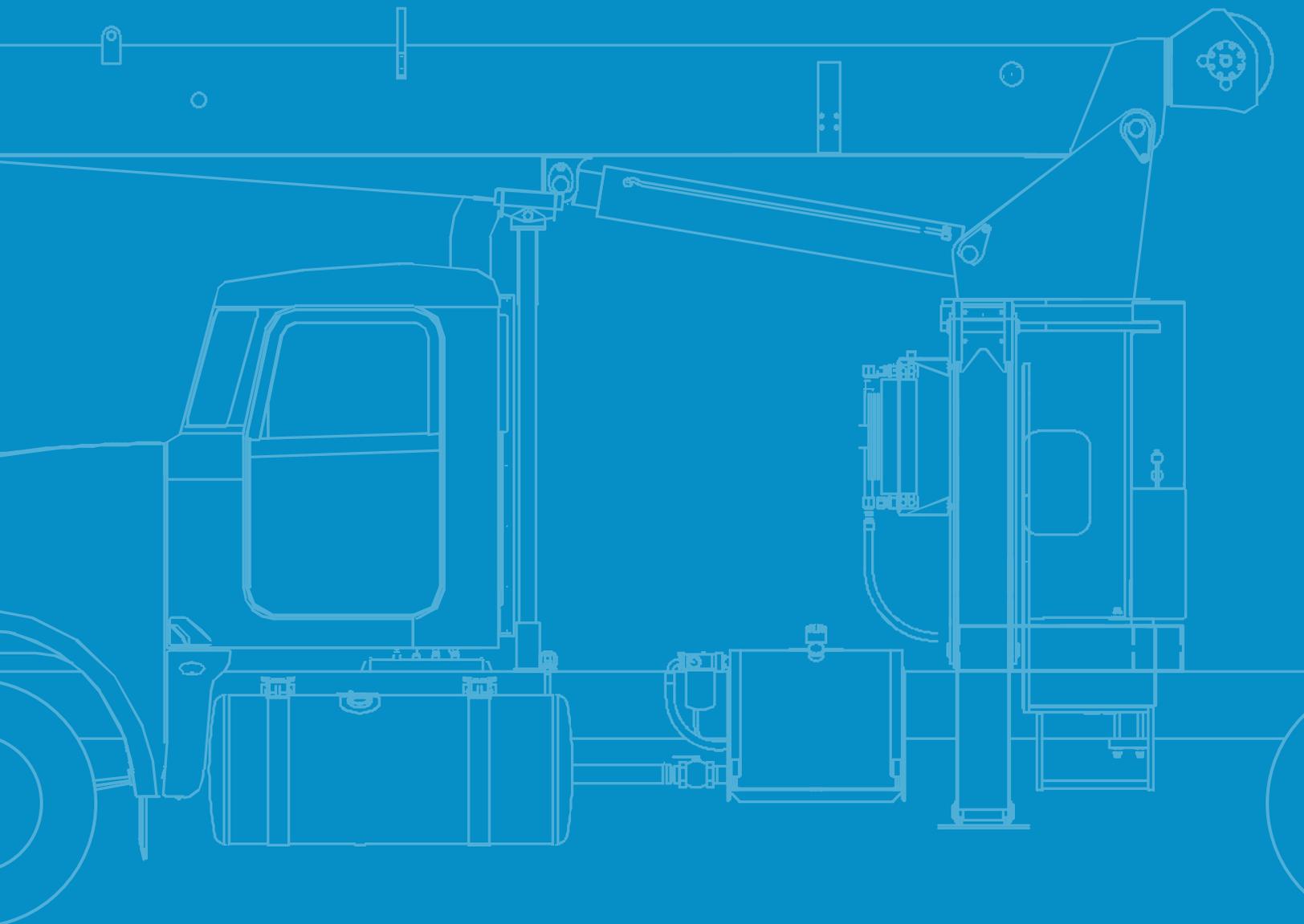
Outrigger Extension

2281C Outrigger Rear for A-Frame Outriggers



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

CM 220



2250CT Load Chart

Main Boom Jib

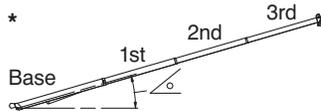
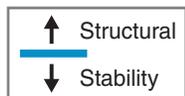
A-Frame Outriggers

20 ft – 50 ft – 3 section Jib 20 ft – 34 ft						180° non-continuous		21.7 ft (6.6 m)		7.9 ft (2.4 m) A-frame			
20 ft		35 ft (A)		40 ft (B)		45 ft (C)		50 ft (D)		Fixed Jib		Telescopic Jib	
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	ft	°	lbs
5	74	44,000	-	-	-	-	-	-	-	-	5	-	-
8	65	37,400	-	-	-	-	-	-	-	-	8	-	-
10	58	30,420	73	24,000	76	24,000	78	23,400	79	20,680	10	-	-
12	51	25,270	70	24,000	73	22,590	75	20,710	77	18,530	12	-	-
14	43	21,530	66	21,740	70	20,060	73	18,540	75	17,000	14	79	8,500
17	26	17,500	61	17,730	65	17,110	69	16,260	71	14,820	17	77	8,500
20	-	-	55	14,800	60	14,830	64	14,150	67	13,030	20	74	8,500
25	-	-	44	11,370	51	11,410	57	11,440	61	10,820	25	70	7,460
30	-	-	29	9,120	41	9,160	48	9,180	54	9,190	30	66	6,470
35	-	-	-	-	27	7,560	39	7,590	46	7,610	35	61	5,690
40	-	-	-	-	-	-	26	6,390	37	6,420	40	56	5,070
45	-	-	-	-	-	-	-	-	25	5,370	45	51	4,560
50	-	-	-	-	-	-	-	-	-	-	50	46	4,140
55	-	-	-	-	-	-	-	-	-	-	55	39	3,780
60	-	-	-	-	-	-	-	-	-	-	60	32	3,390
65	-	-	-	-	-	-	-	-	-	-	65	22	2,950
70	-	-	-	-	-	-	-	-	-	-	70	-	-
75	-	-	-	-	-	-	-	-	-	-	75	-	-
80	-	-	-	-	-	-	-	-	-	-	80	-	-
85	-	-	-	-	-	-	-	-	-	-	85	-	-
90	-	-	-	-	-	-	-	-	-	-	90	-	-

Deductions from main boom capacities for stowed jibs

SFJ	340 lbs	200 lbs	170 lbs	150 lbs	140 lbs
STJ	510 lbs	290 lbs	260 lbs	230 lbs	210 lbs

SFJ = Stowed fixed jib · **STJ** = Stowed telescopic jib



NOTES:

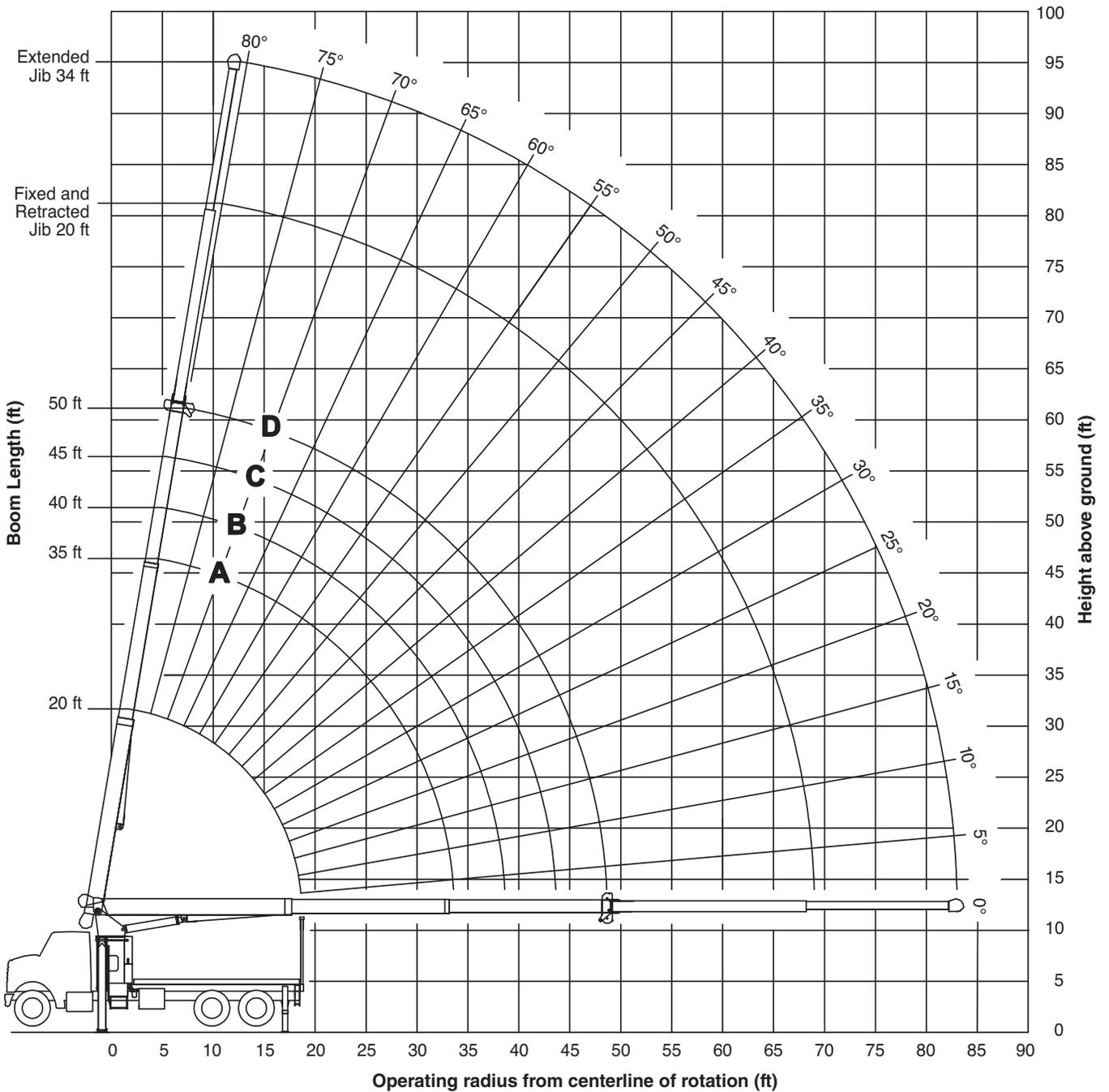
- All loads rated at 180° pick
- Loads based on crane on fully extended outriggers and stabilizers
- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating

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

2250CT Boom Diagram

Main Boom Jib

A-Frame Outriggers



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2250C Load Chart

Main Boom Jib

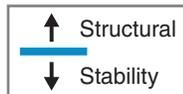
Outriggers Lifting Capacities

20 ft – 50 ft – 3 section Jib 20 ft – 34 ft										180° non-continuous					19.4 ft (5.9 m)		13.8 ft (4.2 m) Stabilizers	
		20 ft		35 ft (A)		40 ft (B)		45 ft (C)		50 ft (D)		Fixed Jib			Telescopic Jib			
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	ft	°	lbs	°	lbs	°	lbs	
5	74	44,000	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	
8	65	37,400	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	
10	58	30,420	73	24,000	76	24,000	78	23,400	79	20,680	10	-	-	-	-	-	-	
12	51	25,270	70	24,000	73	22,590	75	20,710	77	18,530	12	-	-	-	-	-	-	
14	43	21,530	66	21,740	70	20,060	73	18,540	75	17,000	14	79	8,500	79	8,500	-	-	
17	26	17,500	61	17,730	65	17,110	69	16,260	71	14,820	17	77	8,500	77	8,500	79	7,340	
20	-	-	55	14,800	60	14,830	64	14,150	67	13,030	20	74	8,500	74	8,500	77	6,600	
25	-	-	44	11,370	51	11,410	57	11,440	61	10,820	25	70	7,460	70	7,240	74	5,600	
30	-	-	29	9,120	41	9,160	48	9,180	54	9,190	30	66	6,470	66	6,250	70	4,830	
35	-	-	-	-	27	7,560	39	7,590	46	7,610	35	61	5,690	61	5,460	67	4,240	
40	-	-	-	-	-	-	26	6,390	37	6,420	40	56	5,070	56	4,850	63	3,750	
45	-	-	-	-	-	-	-	-	25	5,350	45	51	4,560	51	4,330	59	3,360	
50	-	-	-	-	-	-	-	-	-	-	50	46	4,140	46	3,910	55	3,030	
55	-	-	-	-	-	-	-	-	-	-	55	39	3,780	39	3,550	51	2,750	
60	-	-	-	-	-	-	-	-	-	-	60	32	3,390	32	3,170	46	2,520	
65	-	-	-	-	-	-	-	-	-	-	65	22	2,960	22	2,730	41	2,320	
70	-	-	-	-	-	-	-	-	-	-	70	-	-	-	-	35	2,140	
75	-	-	-	-	-	-	-	-	-	-	75	-	-	-	-	28	1,990	
80	-	-	-	-	-	-	-	-	-	-	80	-	-	-	-	18	1,860	
85	-	-	-	-	-	-	-	-	-	-	85	-	-	-	-	-	-	
90	-	-	-	-	-	-	-	-	-	-	90	-	-	-	-	-	-	

Deductions from main boom capacities for stowed jibs

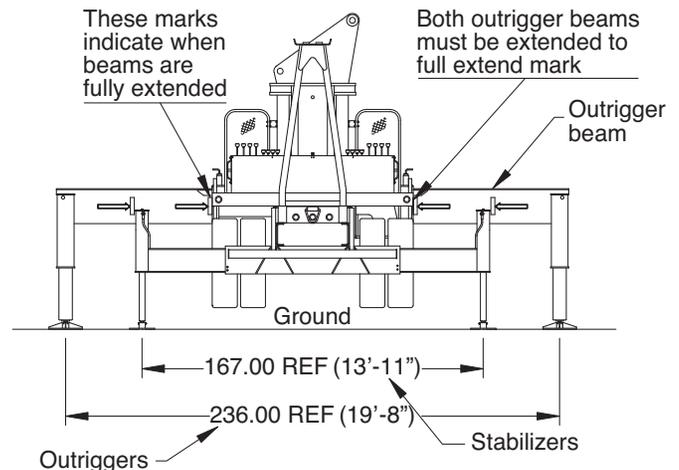
SFJ	340 lbs	200 lbs	170 lbs	150 lbs	140 lbs
STJ	510 lbs	290 lbs	260 lbs	230 lbs	210 lbs

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib



NOTES:

- All loads rated at 180° pick
- Loads based on crane on fully extended outriggers and stabilizers
- All “on outriggers” loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating

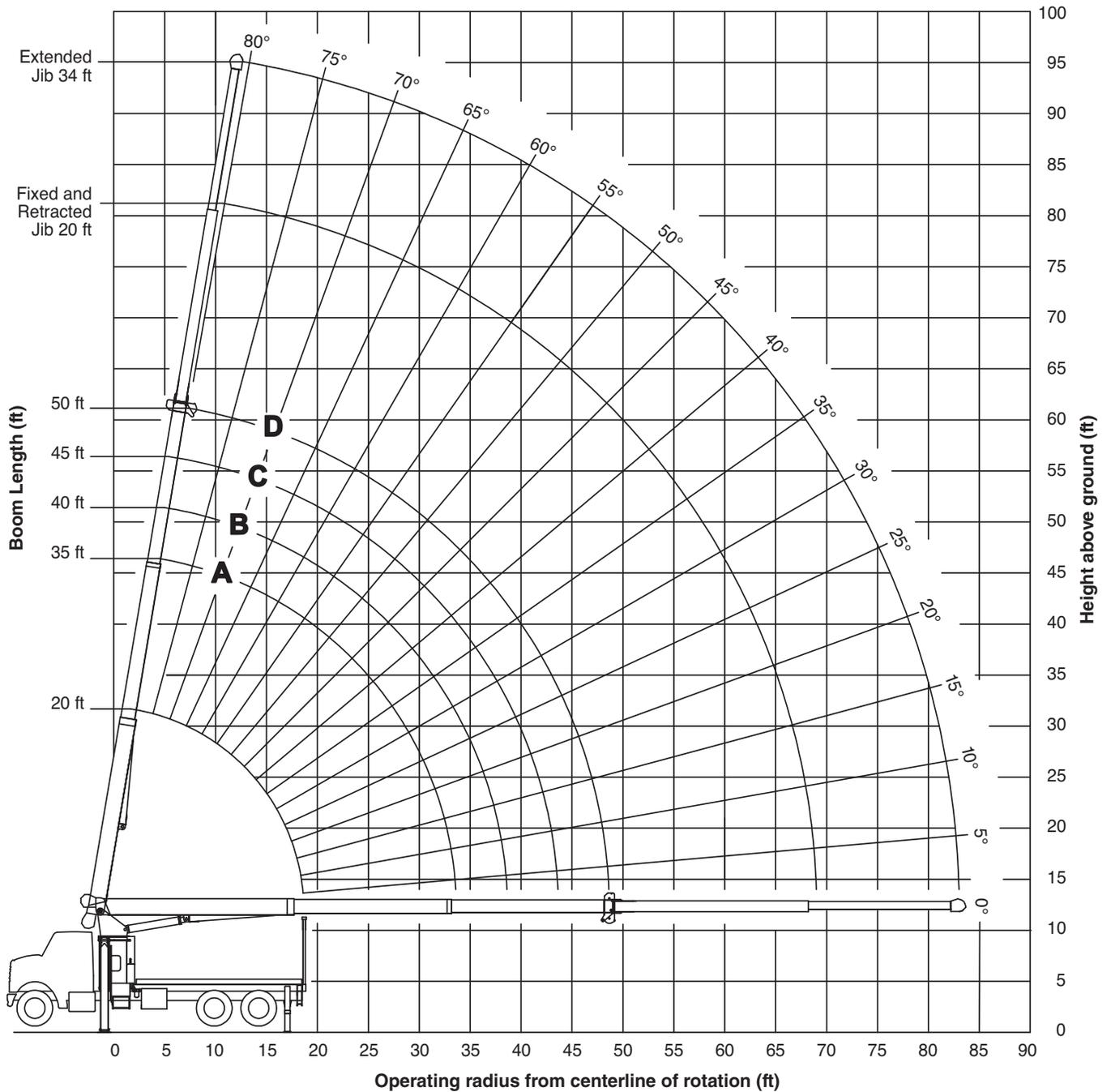


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2250C Boom Diagram

Main Boom Jib

Out and Down Outriggers



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2262C Load Chart

Main Boom Jib

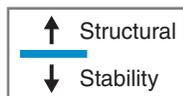
Outriggers Lifting Capacities

24 ft – 62 ft – 3 section Jib 24 ft – 42 ft 180° non-continuous 19.4 ft (5.9 m) 13.8 ft (4.2 m) Stabilizers																	
					Fixed Jib		Telescopic Jib										
24 ft		38 ft (A)		46 ft (B)		54 ft (C)		62 ft (D)		24 ft		24 ft		42 ft			
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	ft	°	lbs	°	lbs		
5	77	44,000	-	-	-	-	-	-	-	-	5	-	-	-	-	-	
8	70	35,900	-	-	-	-	-	-	-	-	8	-	-	-	-	-	
10	64	30,200	75	23,000	78	23,000	-	-	-	-	10	-	-	-	-	-	
12	59	25,040	72	23,000	76	20,730	78	18,430	-	-	12	-	-	-	-	-	
14	53	21,300	69	21,410	73	18,560	76	16,880	78	15,000	14	-	-	-	-	-	
17	43	17,270	64	17,460	69	16,110	73	14,570	76	13,180	17	80	7,670	80	7,440	-	
20	30	14,330	58	14,560	65	14,000	69	12,760	73	11,660	20	78	6,960	78	6,730	-	
25	-	-	48	11,120	58	11,180	64	10,480	68	9,700	25	75	6,020	75	5,770	78	4,080
30	-	-	37	8,860	50	8,920	57	8,920	63	8,420	30	71	5,250	71	5,000	75	3,660
35	-	-	19	7,240	40	7,350	51	7,350	57	7,230	35	68	4,630	68	4,380	72	3,310
40	-	-	-	-	29	6,120	43	6,160	51	6,180	40	64	4,120	64	3,860	69	3,000
45	-	-	-	-	-	-	34	5,200	45	5,230	45	60	3,700	60	3,420	67	2,750
50	-	-	-	-	-	-	21	4,350	37	4,380	50	56	3,290	56	3,000	64	2,500
55	-	-	-	-	-	-	-	-	28	3,720	55	52	2,940	52	2,640	60	2,270
60	-	-	-	-	-	-	-	-	12	3,180	60	48	2,630	48	2,340	57	2,070
65	-	-	-	-	-	-	-	-	-	-	65	43	2,370	43	2,080	54	1,900
70	-	-	-	-	-	-	-	-	-	-	70	37	2,140	37	1,850	50	1,750
75	-	-	-	-	-	-	-	-	-	-	75	31	1,940	31	1,640	46	1,620
80	-	-	-	-	-	-	-	-	-	-	80	22	1,770	22	1,470	42	1,490
85	-	-	-	-	-	-	-	-	-	-	85	-	-	-	-	37	1,340
90	-	-	-	-	-	-	-	-	-	-	90	-	-	-	-	32	1,210
95	-	-	-	-	-	-	-	-	-	-	95	-	-	-	-	26	1,090
100	-	-	-	-	-	-	-	-	-	-	100	-	-	-	-	17	990

Deductions from main boom capacities for stowed jibs

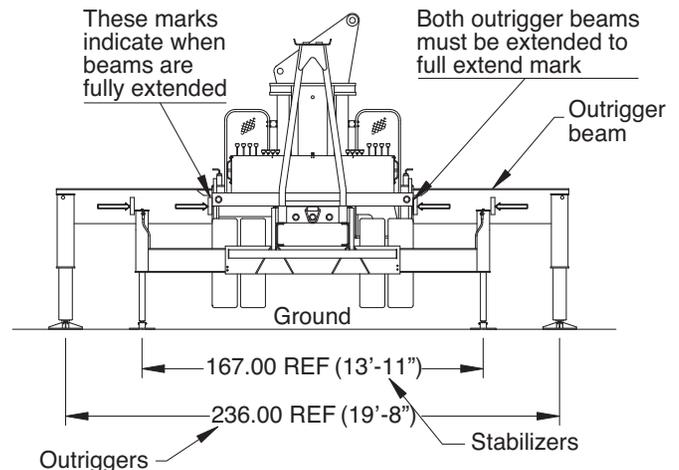
SFJ	440 lbs	280 lbs	230 lbs	200 lbs	170 lbs
STJ	580 lbs	370 lbs	310 lbs	260 lbs	230 lbs

SFJ = Stowed fixed jib · **STJ** = Stowed telescopic jib



NOTES:

- All loads rated at 180° pick
- Loads based on crane on fully extended outriggers and stabilizers
- All “on outriggers” loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating

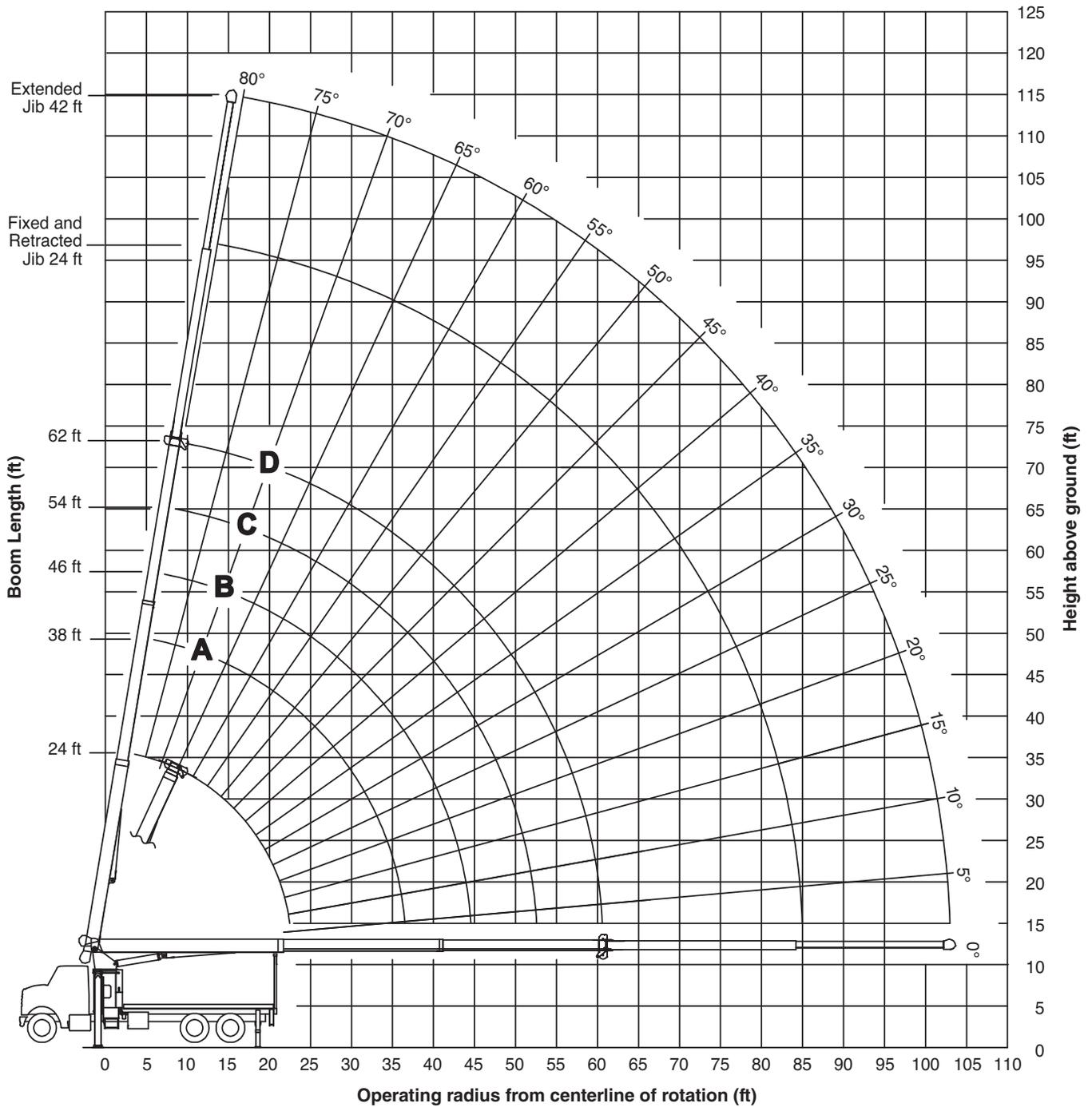


Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

2262C Boom Diagram

Main Boom Jib

Out and Down Outriggers

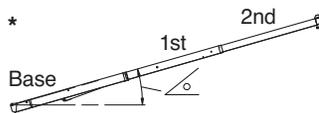
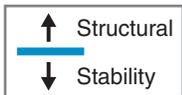


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2262C Load Chart

Main Boom

24 ft – 62 ft – 3 section			180° non-continuous		21.7 ft (6.6 m)		9.8 ft (3.0 m) A-frame			
24 ft			38 ft (A)		46 ft (B)		54 ft (C)		62 ft (D)	
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs
5	77	44,000	-	-	-	-	-	-	-	-
8	70	35,900	-	-	-	-	-	-	-	-
10	64	30,200	75	23,000	78	23,000	-	-	-	-
12	59	25,040	72	23,000	75	20,730	78	18,430	-	-
14	53	21,300	68	21,410	73	18,560	76	16,880	78	15,000
17	43	17,270	63	17,460	69	16,110	73	14,570	75	13,180
20	30	14,330	58	14,560	65	14,000	69	12,760	73	11,660
25	-	-	48	11,120	57	11,180	63	10,480	68	9,700
30	-	-	37	8,860	49	8,920	57	8,820	62	8,420
35	-	-	19	7,240	40	7,320	50	7,350	57	7,230
40	-	-	-	-	28	5,830	43	5,880	51	5,910
45	-	-	-	-	-	-	33	4,800	44	4,830
50	-	-	-	-	-	-	20	3,980	37	4,020
55	-	-	-	-	-	-	-	-	27	3,380
60	-	-	-	-	-	-	-	-	14	2,860
65	-	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-	-
75	-	-	-	-	-	-	-	-	-	-



NOTES:

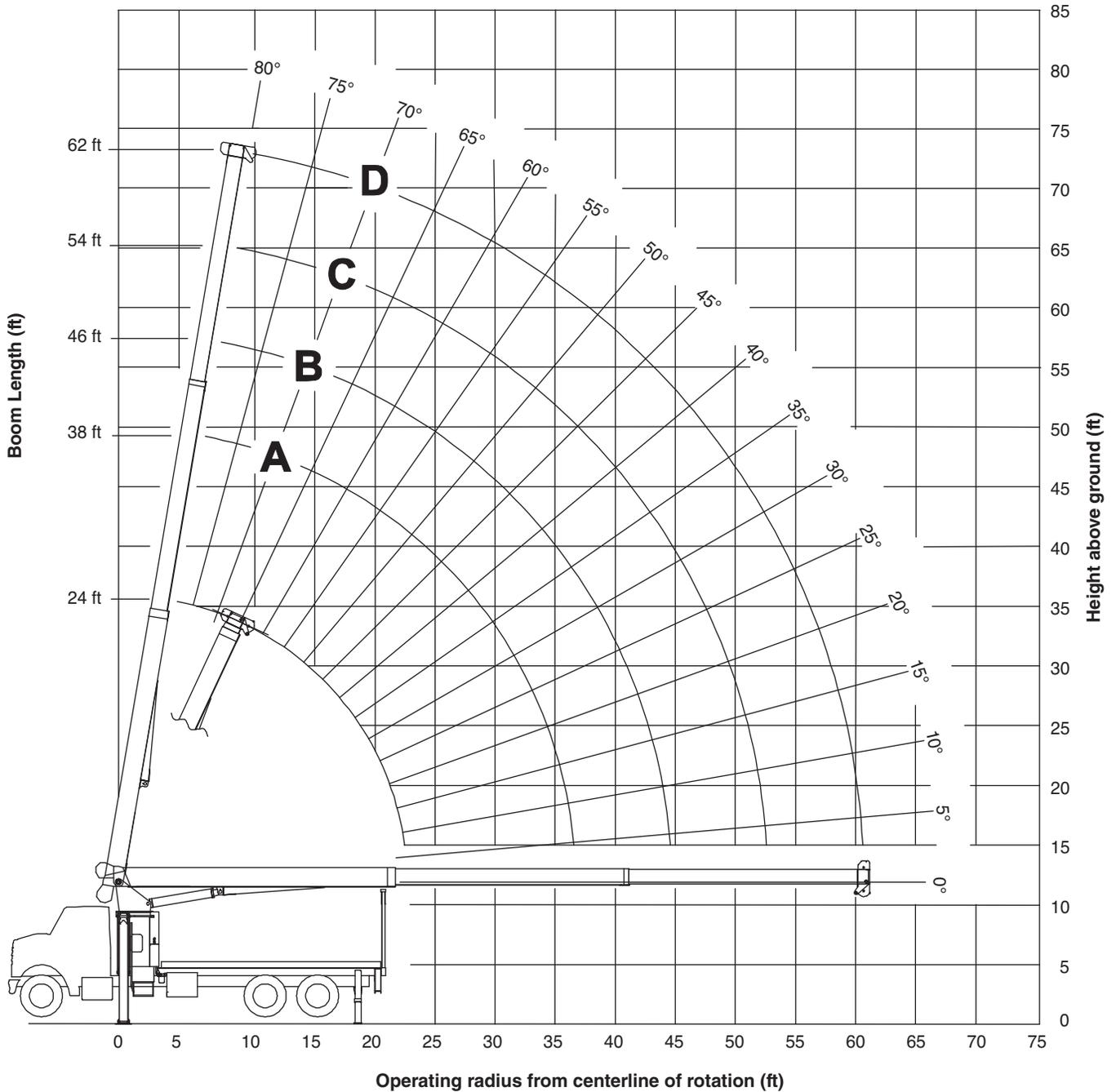
- All loads rated at 180° pick
- Loads based on crane on outriggers
- All “on outriggers” loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating

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2262C Boom Diagram

Main Boom

A-Frame Outriggers



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

2277C Load Chart

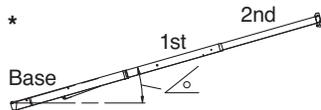
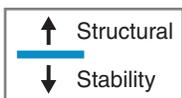
Main Boom Jib

29 ft – 77 ft – 3 section Jib 29 ft – 52 ft							180° non-continuous		21.7 ft (6.6 m) Stabilizer		9.8 ft (3.0 m) A-frame					
29 ft		41 ft (A)		53 ft (B)		65 ft (C)		77 ft (D)		Fixed Jib		Telescopic Jib				
ft	°	lbs	ft	°	lbs	ft	°	lbs	ft	°	lbs	ft	°	lbs		
5	80	44,000	-	-	-	-	-	-	-	-	-	-	-	-		
8	74	34,340	-	-	-	-	-	-	-	-	-	-	-	-		
10	69	28,910	76	22,000	-	-	-	-	-	-	-	-	-	-		
12	65	24,730	73	22,000	78	18,500	-	-	-	-	-	-	-	-		
14	60	20,970	70	20,120	75	16,850	79	14,340	-	-	-	-	-	-		
17	53	16,940	66	17,000	72	14,430	76	12,540	79	11,500	-	-	-	-		
20	45	14,080	61	14,250	69	12,560	73	11,060	77	9,800	-	-	-	-		
25	27	10,790	52	10,980	63	10,200	69	9,120	73	8,270	79	5,070	79	4,820		
30	-	-	42	8,750	56	8,500	64	7,840	69	7,030	30	77	4,530	77	4,270	
35	-	-	30	7,100	49	7,200	59	6,670	65	6,050	35	74	4,050	74	3,790	
40	-	-	-	-	41	5,730	53	5,750	61	5,240	40	71	3,640	71	3,330	
45	-	-	-	-	31	4,620	47	4,690	56	4,570	45	68	3,220	68	2,900	
50	-	-	-	-	17	3,770	40	3,850	51	3,890	50	65	2,860	65	2,540	
55	-	-	-	-	-	-	33	3,200	46	3,240	55	62	2,550	62	2,220	
60	-	-	-	-	-	-	22	2,670	40	2,720	60	59	2,270	59	1,940	
65	-	-	-	-	-	-	-	-	34	2,290	65	55	2,040	55	1,710	
70	-	-	-	-	-	-	-	-	25	1,930	70	51	1,830	51	1,490	
75	-	-	-	-	-	-	-	-	13	1,620	75	47	1,650	47	1,300	
80	-	-	-	-	-	-	-	-	-	-	80	43	1,400	43	1,080	
85	-	-	-	-	-	-	-	-	-	-	85	39	1,170	39	860	
90	-	-	-	-	-	-	-	-	-	-	90	34	980	34	660	
95	-	-	-	-	-	-	-	-	-	-	95	-	-	-	46	830
100	-	-	-	-	-	-	-	-	-	-	100	-	-	-	43	710
105	-	-	-	-	-	-	-	-	-	-	105	-	-	-	39	560
	0°	7,360	0°	4,590	0°	3,070	0°	2,110	0°	1,440		-	-	-	-	-

Deductions from main boom capacities for stowed jibs

SFJ	430 lbs	310 lbs	240 lbs	190 lbs	170 lbs
STJ	680 lbs	480 lbs	370 lbs	300 lbs	260 lbs

SFJ = Stowed fixed jib · **STJ** = Stowed telescopic jib



NOTES:

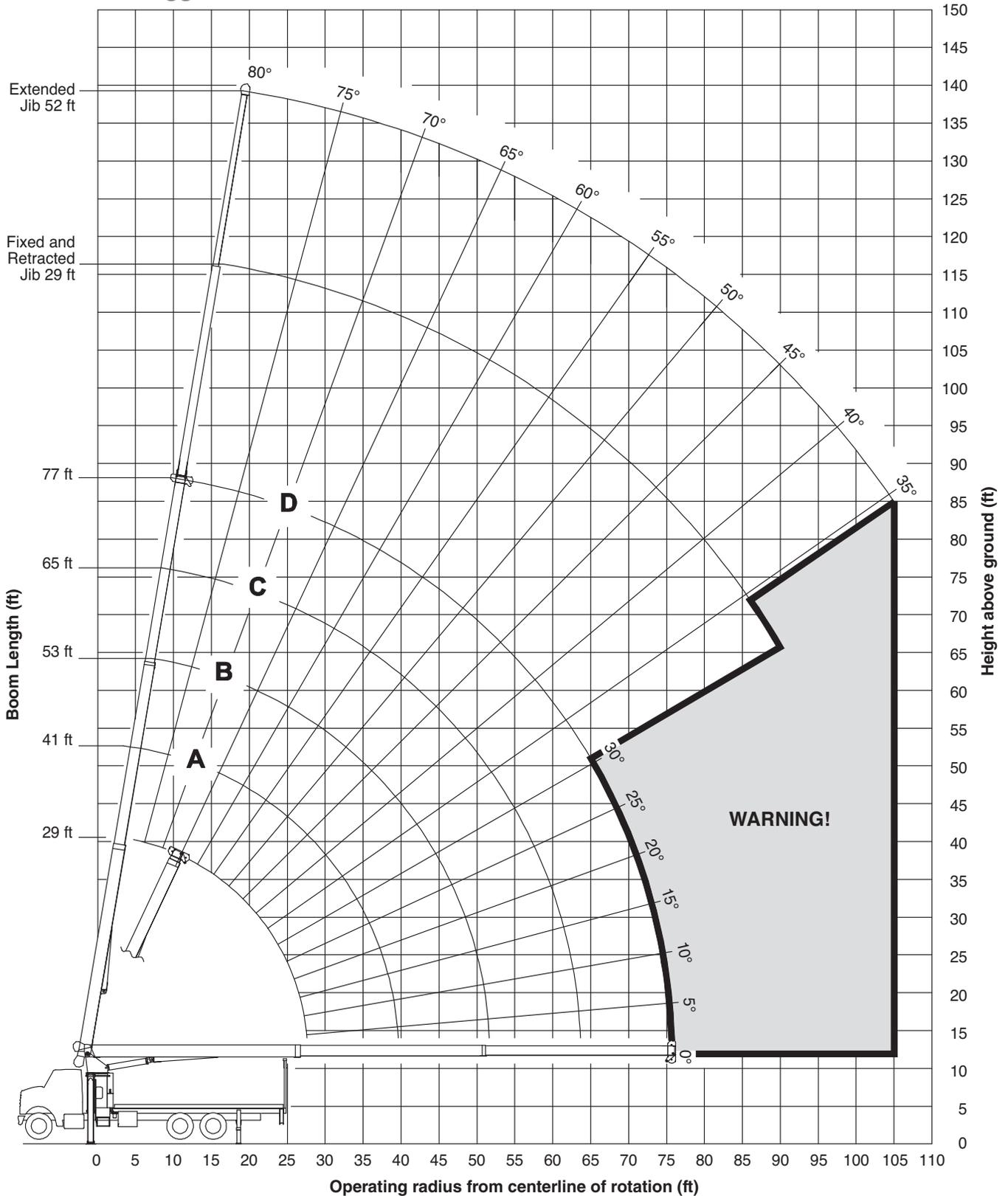
- All loads rated at 180° pick
- Loads based on crane on outriggers
- All “on outriggers” loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating

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2277C Boom Diagram

Main Boom Jib

A-Frame Outriggers



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2281C Load Chart

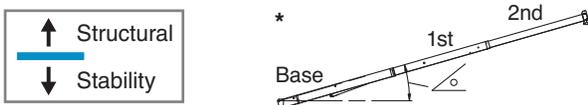
Main Boom Jib

24.4 ft – 81.4 ft – 4 section Jib 24 ft – 41 ft										180° non-continuous		21.7 ft (6.6 m) A-frame		9.8 ft (3.0 m) Stabilizer				
24.4 ft		42 ft (A)		55 ft (B)		68 ft (C)		81.4 ft (D)		Fixed Jib			Telescopic Jib					
ft	°	lbs	ft	°	lbs	ft	°	lbs	ft	°	lbs	ft	°	lbs	ft	°	lbs	
5	78	44,000	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	
8	70	35,150	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	
10	65	29,700	76	14,500	-	-	-	-	-	-	-	10	-	-	-	-	-	
12	60	24,640	74	14,500	78	14,500	-	-	-	-	-	12	-	-	-	-	-	
14	54	20,870	71	14,500	76	14,500	80	13,050	-	-	-	14	-	-	-	-	-	
17	44	16,830	66	14,500	73	14,500	77	11,700	80	9,200	-	-	-	-	-	-	-	
20	32	13,940	62	14,270	70	13,430	75	10,550	78	8,500	80	80	4,650	80	4,450	-	-	
25	-	-	54	10,990	64	11,000	70	9,000	75	7,550	75	75	4,360	78	4,160	80	3,000	
30	-	-	44	8,780	58	8,880	66	8,120	71	6,640	70	70	3,900	76	3,700	78	2,740	
35	-	-	32	7,180	51	7,290	61	7,120	67	5,880	67	67	3,500	73	3,290	76	2,490	
40	-	-	13	5,620	44	5,770	56	5,840	63	5,260	63	63	3,160	70	2,940	74	2,260	
45	-	-	-	-	35	4,650	50	4,720	59	4,700	59	59	2,850	67	2,640	71	2,070	
50	-	-	-	-	24	3,800	44	3,880	55	3,930	55	55	2,590	64	2,370	69	1,900	
55	-	-	-	-	-	-	37	3,230	50	3,270	50	50	2,370	61	2,140	66	1,730	
60	-	-	-	-	-	-	28	2,700	45	2,750	45	45	2,170	59	1,950	64	1,580	
65	-	-	-	-	-	-	15	2,260	39	2,320	39	39	2,000	55	1,770	61	1,430	
70	-	-	-	-	-	-	-	-	32	1,960	32	32	1,840	51	1,620	58	1,310	
75	-	-	-	-	-	-	-	-	24	1,650	24	24	1,710	47	1,470	55	1,210	
80	-	-	-	-	-	-	-	-	3	1,380	3	3	1,490	43	1,260	52	1,110	
85	-	-	-	-	-	-	-	-	-	-	-	85	39	1,260	39	1,030	49	1,020
90	-	-	-	-	-	-	-	-	-	-	-	90	34	1,070	34	830	46	940
95	-	-	-	-	-	-	-	-	-	-	-	95	27	890	27	650	42	870
100	-	-	-	-	-	-	-	-	-	-	-	100	19	730	19	500	38	790
105	-	-	-	-	-	-	-	-	-	-	-	105	-	-	-	-	34	650
110	-	-	-	-	-	-	-	-	-	-	-	110	-	-	-	-	29	520
115	-	-	-	-	-	-	-	-	-	-	-	115	-	-	-	-	22	410

Deductions from main boom capacities for stowed jibs

SFJ	290 lbs	170 lbs	130 lbs	110 lbs	90 lbs
STJ	440 lbs	260 lbs	200 lbs	160 lbs	140 lbs

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib



NOTES:

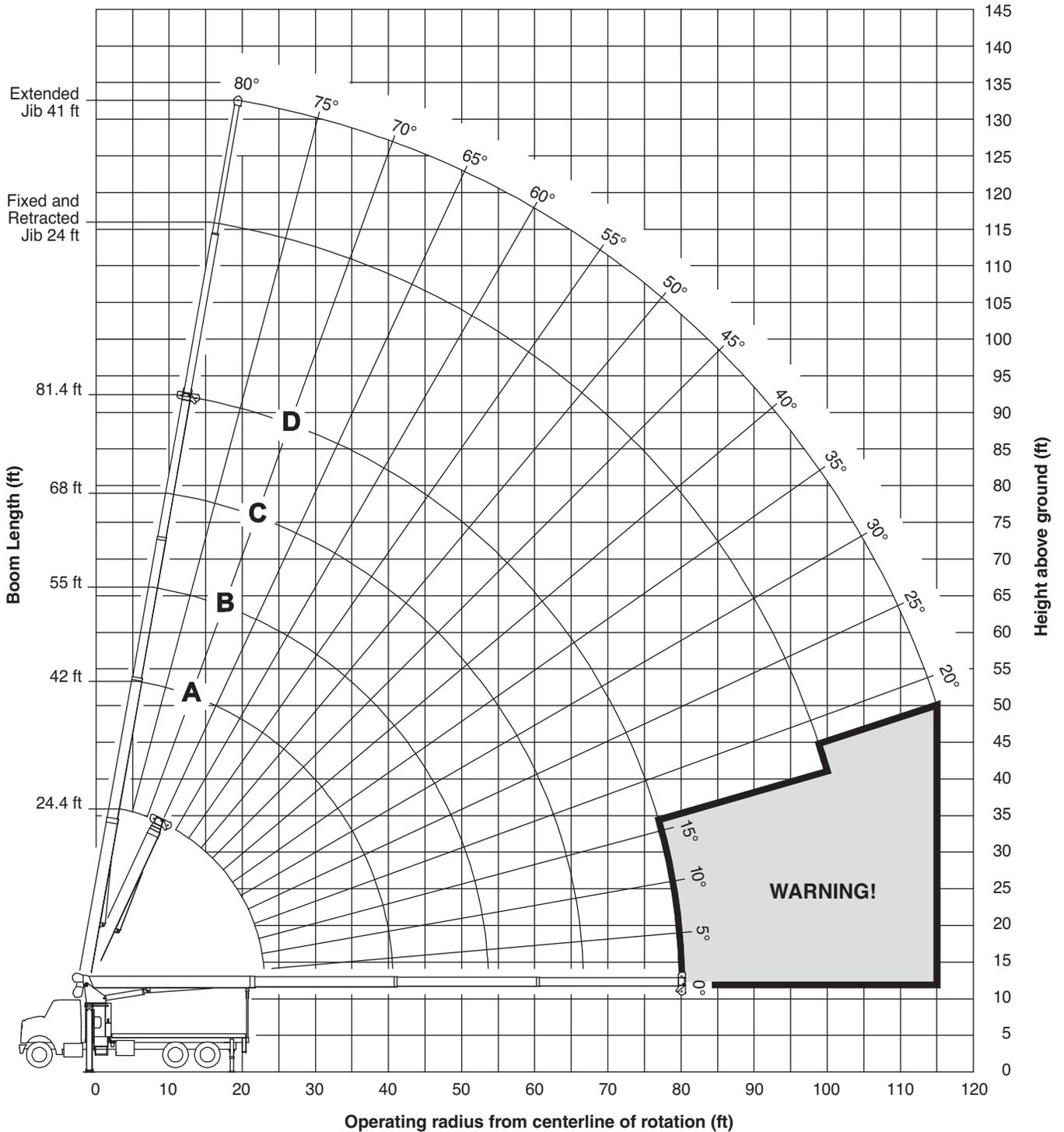
- All loads rated at 180° pick
- Loads based on crane on outriggers
- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on stability rating

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2281C Boom Diagram

Main Boom Jib

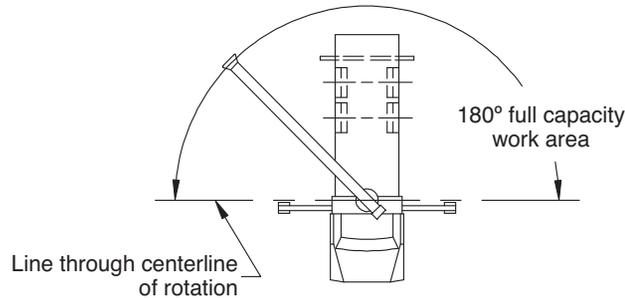
A-Frame Outriggers



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Area of Operation · Reeving Diagram

Area of Operation



Deductions from rated loads for load handling devices supplied by Tadano

Auxiliary block	50 lbs (22.7 kg)
Overhaul ball	See overhaul ball mfgr. nameplate
Load blocks	See block mfgr. nameplate
Hose reel	160 lbs (72.6 kg)
Swing around jib	See load chart

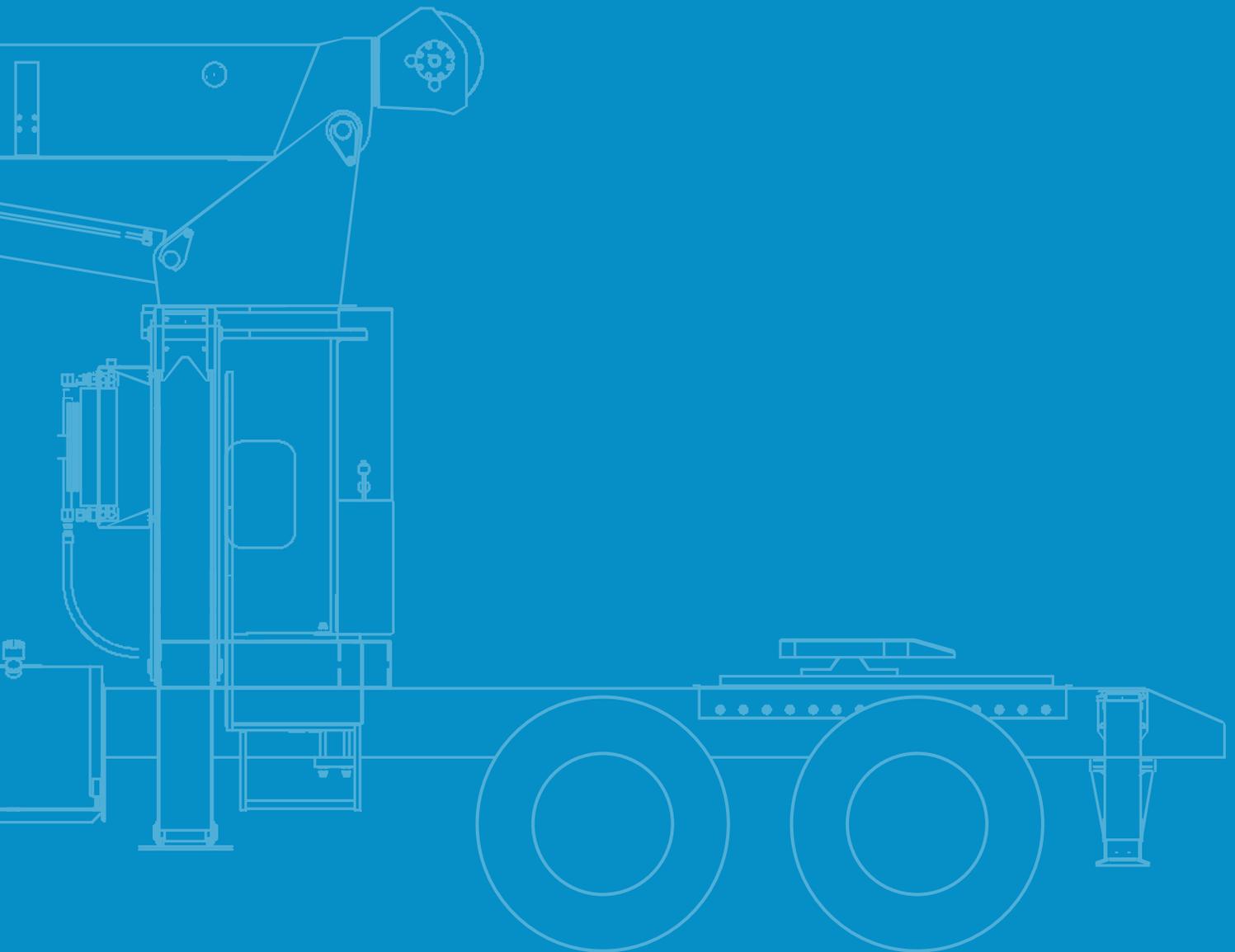
WARNING: Lifting off the main boom point while the jib is erected is not intended nor approved.

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	
<p>OVERHAUL BALL</p>	<p>SINGLE OR TRIPLE SHEAVE LOAD BLOCK</p>	<p>SINGLE OR TRIPLE SHEAVE LOAD BLOCK</p>	<p>DOUBLE OR TRIPLE SHEAVE LOAD BLOCK</p>	<p>DOUBLE OR TRIPLE SHEAVE LOAD BLOCK AUXILIARY BLOCK</p>	<p>TRIPLE SHEAVE LOAD BLOCK AUXILIARY BLOCK</p>	
8,500 lbs	17,000 lbs	25,500 lbs	34,000 lbs	42,500 lbs	44,000 lbs	
7,400 lbs	14,800 lbs	22,200 lbs	29,600 lbs	37,000 lbs	44,000 lbs	
9/16" 6 x 25 IWRC (3.5 : 1 SF) 29,750 lbs breaking strength						
9/16" rot resistant (5.0 : 1 SF) 37,000 lbs breaking strength						

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CM 220



Technical Description

Boom



Boom length: Proportional boom

- 3-section Telescopic boom 50 ft (15.24 m)
- 3-section Telescopic boom 62 ft (18.90 m)
- 3-section Telescopic boom 77.1 ft (23.50 m)
- 4-section Telescopic boom 81 ft (24.70 m)

3-sheave quick reeve boom point



2250C

- Boom max. tip height 61.4 ft (18.7 m)

2262C

- Boom max. tip height 72.8 ft (22.2 m)

2277C

- Boom max. tip height 88.3 ft (26.9 m)

2281C

- Boom max. tip height 92.9 ft (28.3 m)



Boom angle (min./max.):
-10° / 80°

Rotation



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



Slewing brake:
Spring-applied pressure released parking brake



Slewing speed: 0 - 1.5 rpm
Boom rotation: 372° non-continuous

Outriggers



Outriggers A-Frame

- A-frame, center to center of pad: 21.5 ft (6.55 m)



Outriggers Out-Down

- Out and down 19.7 ft (6.0 m)



Stabilizer A-frame, Outside to Outside

- A-frame 10 ft (3.0 m)



Stabilizer Out-Down

- 13.9 ft (4.24 m)

Operator Aids



LMI with crane functions cut-offs for over-load protection

- External wired anti-two block system

Technical Description

Hoist, Rope and Hook



Maximum theoretical line speed:
300 fpm (91 mpm)



Maximum theoretical bottom-layer line pull:
11,500 lbs (5,216 kg)



Main winch cable diameter: 0.5625 in. (14.3 mm)
EIPS IWRC wire rope



Line length:
300 ft (91.44 m)



Main winch motor:
2 speed gear type hydraulic motor activated electrically
Combined flows for high speed operation



Hook and ball:
7 t (6,3 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation

Hydraulics



Direct mounted PTO with SAE B input and SAE BB output
3-section gear pump standard CCW rotation
Hydraulic reservoir capacity: 70 gallons (265 l)
Pump sections @ 2000 rpm with 100 psi

- Shaft end pump: 32.4 gpm (123 lpm)
- Center pump: 20.6 gpm (79 lpm)
- Cover end pump: 10 gpm (38 lpm)

Mounting System

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 under-ride protection: Standard on factory mounted cranes
Boom rest: Heavy-duty fabrication, easily removed

Control System



Dual operating stations are equipped with four single-lever crane controls arranged in accordance with ANSI B30.5 standards
Fully proportional control valves
Each station includes:

- Individual control levers for each outrigger and stabilizer
- Engine start and stop
- Electronic foot throttle
- Signal horn
- Boom angle indicator
- Beverage holder
- Load chart with range diagram and mount for removable LMI display

Electrical System

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

Technical Description – Options

Flatbeds

- 22 ft (6.7 m) Wood bed
- 22 ft (6.7 m) Steel bed
- 18 ft (5.5 m) Wood bed
- 18 ft (5.5 m) Steel bed

Hoist, Rope and Hook



0.5625 in. (14.3 mm) rotation resistant rope

Hydraulics



- 3-section vane pump, CCW or CW
- FBS – Front Bumper Stabilizer
 - Hydraulic oil cooler
 - Hose reel

Radio Remote



- 4-function radio remote crane control system
- Hycas system available with radio load cell for jib overload protection only

Technical Description – Options

Jib

Jib

2250C

- 1 section fixed jib 20 ft (6 m)
- 2 section telescopic jib 20 ft - 34 ft (6 m - 10.4 m)

2262C

- 1 section fixed jib 24 ft (7.3 m)
- 2 section telescopic jib 24 ft - 42 ft (7.3 m - 12.8 m)

2277C

- 1 section fixed jib 29 ft (8.8 m)
- 2 section telescopic jib 29 ft - 52 ft (8.8 m - 15.9 m)

2281C

- 1 section jib 24 ft (7.3 m)
- 2 section telescopic jib 24 ft - 41 ft (7.3 m - 12.5 m)

Max. Tip Height with Extension

2250C

- Max. tip height with extension 95 ft (28.9 m)
- Max. tip height with extension retracted 82 ft (24.9 m)

2262C

- Max. tip height with extension 113.8 ft (34.7 m)
- Max. tip height with extension retracted 97.1 ft (29.6 m)

2277C

- Max. tip height with extension 139 ft (42.4 m)
- Max. tip height with extension retracted 116 ft (35.4 m)

2281C

- Max. tip height with extension 132 ft (40.2 m)
- Max. tip height with extension retracted 116 ft (35.4 m)

2-Person Basket



2-person man basket – steel

- 2 person gravity level with friction brake steel (600 lbs capacity)
- 2 person steel gravity rotating man basket (1,000 lbs capacity) – Main boom only

Tool Boxes and Bulkhead

Tool Boxes

- 24 in. L x 18 in. W x 18 in. H (610 mm L x 457 mm W x 457 mm H) – Steel
- 48 in. L x 24 in. W x 24 in. H (1,219 mm L x 610 mm W x 610 mm H) – Aluminium

Bulkhead:

- 24 in. (610 mm)

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Reaching new heights

