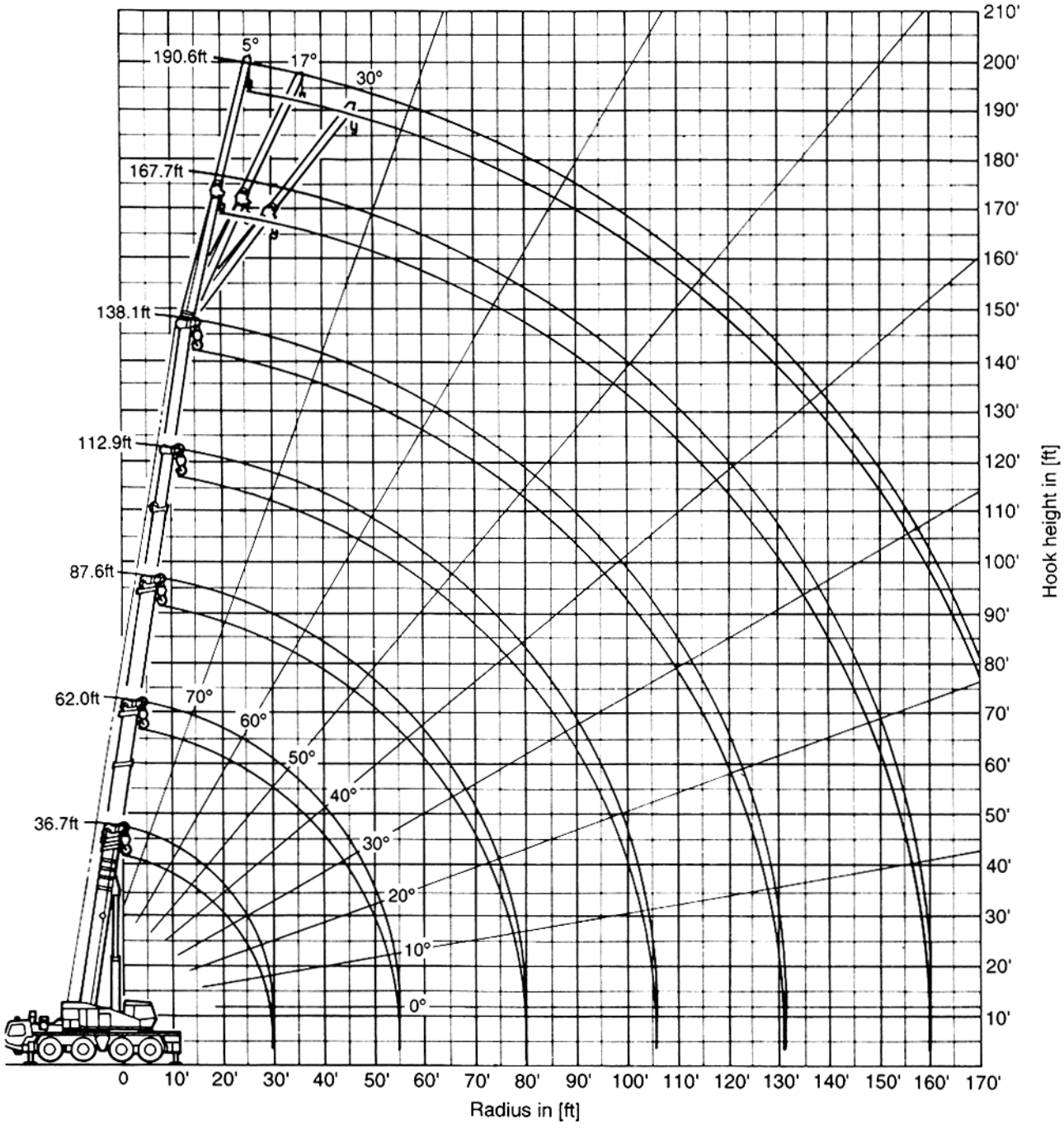
STERLING CRANE

LIFTING CHARTS - All Terrain Cranes

TADANO MODEL ATF-1000XL - 100 TON CAPACITY

OPERATING RADIUS/LIFTING HEIGHT CHART



NOTE: Operating Radius is measured in feet from Axis of Rotation. Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom defection and subsequent radius and boom angle change must be accounted for when applying load to hook.

STERLING CRANE

LIFTING CAPACITIES IN 1,000 LBS.

TELESCOPIC BOOM - Counterweight 29,760 lbs.

Working Radius (ft)	On Outriggers, 360° Working area Outrigger base 23.62 ft									On Outriggers, 360° Working area Outrigger base 16.4 ft							
	Boom Length (ft)									Boom Length in (ft)							
	36.57 (1)	36.75	62.00	62.00	87.60	87.60	112.87	112.87	138.12	36.75	62.00	62.00	87.60	87.60	112.87	112.87	138.12
9	200.0*	165.0															
10	175.0*	162.8	88.0	36.0	55.0	33.0				141.8	88.1	34.8	55.0	32.9			
12	156.7	143.8	88.0	36.0	55.0	33.0				125.4	88.1	34.8	55.0	32.9			
14	135.2	131.4	88.0	36.0	55.0	33.0				112.5	88.1	34.8	55.0	32.9	34.8		
16	117.7	117.7	88.0	36.0	55.0	33.0	35.0	25.0		101.3	88.1	34.8	55.0	32.9	34.8	25.2	
18	103.9	103.9	85.4	36.0	55.0	33.0	35.0	25.0		85.9	78.7	34.8	55.0	32.9	34.8	25.2	
20	92.7	92.7	81.6	36.0	54.8	33.0	35.0	25.0	22.0	70.3	67.3	34.8	54.8	32.9	34.8	25.2	21.9
25	72.7	72.7	70.2	36.0	48.4	33.0	35.0	25.0	22.0	46.5	42.1	34.8	45.3	32.9	34.8	25.2	21.9
30			57.6	36.0	40.4	33.0	34.9	25.0	22.0		32.9	34.1	32.1	32.7	34.0	25.0	21.9
35			45.4	36.0	34.6	32.5	31.3	24.7	22.0		25.0	26.9	24.4	28.0	26.6	24.6	21.9
40			35.8	35.8	30.1	29.6	27.0	24.0	21.1		19.7	21.7	19.1	22.4	21.2	22.9	20.5
45			29.2	31.4	26.4	27.0	23.6	21.6	19.0		15.8	18.0	15.3	18.4	17.3	18.7	18.4
50			24.1	26.8	23.2	25.0	21.0	19.5	17.4		12.7	15.0	12.4	15.4	14.4	15.6	15.7
55					19.8	22.7	18.6	18.0	16.0				10.0	12.9	12.0	13.1	13.2
60					16.6	19.9	16.6	16.7	14.7				8.0	10.9	10.0	11.0	11.2
65					14.1	17.2	14.9	15.3	13.7				6.4	9.3	8.3	9.3	9.5
70					11.9	14.9	13.4	14.3	12.6				5.1	7.9	7.0	8.0	8.2
75					9.9	13.1	12.0	13.2	11.5				4.0	6.7	5.9	6.8	7.0
80							10.6	11.7	10.5						4.8	5.8	6.0
85							9.1	10.2	9.5						4.0	4.9	5.1
90							7.8	9.0	8.5						3.1	4.1	4.2
95							6.9	7.9	7.5						2.4	3.5	3.6
100							6.1	7.0	6.8						1.8	2.9	3.0
110									5.7								1.9
120									4.1								
Telescoping conditions %																	
Tel. 1	0		50	25	100	50	100	75	100	0	50	25	100	50	100	75	100
Tel. 2	0		50	25	100	50	100	75	100	0	50	25	100	50	100	75	100
Tel. 3	0		0	25	0	50	50	75	100	0	0	25	0	50	50	75	100
Tel. 4	0		0	25	0	50	50	75	100	0	0	25	0	50	50	75	100
Code	01/02		01	02	01	02	01	02	01/02	07/08	07	08	07	08	07	08	07/08

(1) Over rear, swing lock engaged ***With additional equiptment**

Working Radius (ft)	Without Outriggers Over rear 360°			
	Boom Length (ft)			
	36.75		62.00	
	over rear	360°	over rear	360°
10	47.9		34.8	
12	42.7		34.8	
14	38.3		34.8	
16	34.7		34.8	
18	31.7		32.2	
20	28.8		29.3	
25	22.1		22.9	
30			17.1	
35			13.0	
40			10.2	
45			8.0	
50			6.3	
Telescoping conditions %				
Tel. 1	0		25	
Tel. 2	0		25	
Tel. 3	0		25	
Tel. 4	0		25	
Code	20			

Operation and Maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

STERLING CRANE

LIFTING CAPACITIES IN 1,000 LBS.

TELESCOPIC BOOM - Counterweight 7,940 lbs.

Working Radius (ft)	On Outriggers, 360° Working area Outrigger base 23.62 ft									On Outriggers, 360° Working area Outrigger base 16.4 ft							
	Boom Length (ft)									Boom Length in (ft)							
	36.57 (1)	36.75	62.00	62.00	87.60	87.60	112.87	112.87	138.12	36.75	62.00	62.00	87.60	87.60	112.87	112.87	138.12
9	200.0*	155.0															
10	172.0*	153.5	88.0	36.0	55.0	33.0				153.5	88.0	36.0	55.0	33.0			
12	141.8	141.4	88.0	36.0	55.0	33.0				141.4	88.0	36.0	55.0	33.0			
14	120.9	120.9	88.0	36.0	55.0	33.0				109.0	88.0	36.0	55.0	33.0			
16	105.1	105.1	88.0	36.0	55.0	33.0	35.0	25.0		78.0	76.0	36.0	55.0	33.0	35.0	25.0	
18	92.4	92.4	85.4	36.0	55.0	33.0	35.0	25.0		60.0	58.5	36.0	55.0	33.0	35.0	25.0	
20	82.6	82.6	81.4	36.0	54.8	33.0	35.0	25.0	22.0	48.5	46.5	36.0	46.0	33.0	35.0	25.0	22.0
25	60.0	60.0	59.3	36.0	48.3	33.0	35.0	25.0	22.0	31.0	29.5	32.5	29.0	33.0	32.0	25.0	22.0
30			41.5	36.0	40.1	33.0	34.9	25.0	22.0		20.5	23.0	20.0	23.8	22.8	24.0	22.0
35			31.1	33.4	29.9	32.5	31.3	24.7	22.0		14.5	17.0	14.0	17.8	16.8	18.0	18.0
40			24.1	26.5	23.1	26.3	25.7	24.0	21.1		10.5	13.0	10.5	13.7	12.8	13.8	13.9
45			19.0	21.5	18.4	21.4	20.6	21.6	19.0		8.0	9.8	7.5	10.7	9.8	10.8	10.9
50			15.2	17.5	14.4	17.7	16.6	18.3	17.4		6.0	7.5	5.0	8.0	7.3	8.6	8.7
55					11.3	14.6	13.4	15.0	15.5				3.7	6.5	5.7	6.8	6.8
60					9.0	12.1	11.0	12.5	12.7				2.0	5.0	4.0	5.0	5.0
65					7.0	10.1	9.2	10.3	10.5				1.0	3.9	2.8	4.0	4.0
70					5.4	8.3	7.6	8.5	8.9						2.0	3.0	3.0
75					4.1	7.0	6.2	7.2	7.5						1.0	2.0	2.0
80							4.9	6.1	6.3								1.6
85							3.8	5.1	5.3								0.9
90							3.1	4.0	4.3								
95							2.3	3.3	3.5								
100								2.9	2.8								
Telescoping conditions %																	
Tel. 1	0		50	25	100	50	100	75	100	0	50	25	100	50	100	75	100
Tel. 2	0		50	25	100	50	100	75	100	0	50	25	100	50	100	75	100
Tel. 3	0		0	25	0	50	50	75	100	0	0	25	0	50	50	75	100
Tel. 4	0		0	25	0	50	50	75	100	0	0	25	0	50	50	75	100
Code	05/06		05	06	05	06	05	06	05/06	11/12	11	12	11	12	11	12	11/12

(1) Over rear, swing lock engaged ***With additional equiptment**

Working Radius (ft)	Without Outriggers Over rear 360°			
	Boom Length (ft)			
	36.75		62.00	
	over rear	360°	over rear	360°
10	47.9		34.8	
12	42.7		34.8	
14	35.0		33.5	
16	28.5		27.0	
18	23.5		22.3	
20	19.8		18.7	
25	13.3		12.2	
30			8.2	
35			5.3	
40			3.3	
45			1.7	
Telescoping conditions %				
Tel. 1	0		25	
Tel. 2	0		25	
Tel. 3	0		25	
Tel. 4	0		25	
Code	22			

Operation and Maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

LIFTING CAPACITIES IN 1,000 LBS.

EXTENDIBLE FLY JIB - Counterweight 29,760 lbs.

Working Radius (ft)	On Outriggers, 360° Working area Outrigger base 23.62 ft														On Outriggers, 360° Working area Outrigger base 16.4 ft													
	Boom Length (ft)														Boom Length in (ft)													
	36.75 ft to 127.95 ft		127.95 ft to 138.12 ft												36.75 ft to 127.95 ft		127.95 ft to 138.12 ft											
	Extendible fly jib 29.53 ft Offset								Extendible fly jib 52.50 ft Offset						Extendible fly jib 29.53 ft Offset								Extendible fly jib 52.50 ft Offset					
	5°		5°		17°		30°		5°		17°		30°		5°		5°		17°		30°		5°		17°		30°	
	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C
30	80	13.2	80	11.0											80	13.2	80	11.0										
35	78	12.9	79	11.0	81	9.5									78	12.9	79	11.0	81	9.5								
40	76	12.4	77	10.7	79	8.6	81	6.5	79	6.5					76	12.4	77	10.7	79	8.6	81	6.5	79	6.5				
45	73	11.9	74	9.7	76	7.8	78	6.5	77	6.4					73	11.9	74	9.7	76	7.8	78	6.5	77	6.4				
50	72	11.4	73	8.7	75	7.1	77	6.1	76	6.1	79	4.0			72	11.4	73	8.7	75	7.1	77	6.1	76	6.1	79	4.0		
55	69	10.7	71	7.8	73	6.5	75	5.6	74	5.7	77	3.8	80	2.5	69	10.7	71	7.8	73	6.5	75	5.6	74	5.7	77	3.8	80	2.5
60	68	9.8	70	7.1	72	5.9	74	5.2	73	5.1	76	3.5	79	2.5	68	9.8	70	7.1	72	5.9	74	5.2	73	5.1	76	3.5	79	2.5
65	66	9.0	67	6.4	69	5.5	71	4.8	71	4.6	74	3.3	77	2.5	66	9.0	67	6.4	69	5.5	71	4.8	71	4.6	74	3.3	77	2.5
70	64	8.3	66	5.8	68	5.1	69	4.5	69	4.4	73	3.1	76	2.4	64	8.3	66	5.8	68	5.1	69	4.5	69	4.4	73	3.1	76	2.4
75	62	7.7	64	5.3	66	4.7	68	4.2	68	4.1	70	3.0	73	2.3	62	7.4	64	5.3	66	4.7	68	4.2	68	4.1	70	3.0	73	2.3
80	60	7.1	62	4.9	64	4.3	66	3.9	66	3.7	69	2.9	72	2.3	60	6.4	62	4.9	64	4.3	66	3.9	66	3.7	69	2.9	72	2.3
85	57	6.6	60	4.5	61	4.0	63	3.6	64	3.5	67	2.8	70	2.3	57	5.4	60	4.5	61	4.0	63	3.6	64	3.5	67	2.8	70	2.3
90	55	6.1	58	4.2	60	3.7	61	3.3	63	3.2	66	2.7	69	2.2	55	4.6	58	4.2	60	3.7	61	3.3	63	3.2	66	2.7	69	2.2
95	53	5.8	56	3.8	58	3.4	59	3.1	61	3.0	64	2.6	67	2.1	53	3.8	56	3.8	58	3.4	59	3.1	61	3.0	64	2.6	67	2.1
100	51	5.5	54	3.5	56	3.2	58	3.0	59	2.7	63	2.4	65	2.0	51	3.1	54	3.4	56	3.2	58	3.0	59	2.7	63	2.4	65	2.0
110	45	4.6	49	3.0	51	2.8	52	2.7	56	2.3	59	2.1	61	1.9	45	2.0	49	2.2	51	2.5	52	2.7	56	2.3	59	2.1	61	1.9
120	39	3.5	44	2.7	46	2.4	47	2.3	51	2.0	54	1.9	57	1.8	39	1.0	44	1.4	46	1.5	47	1.6	51	2.0	54	1.9	57	1.8
130	33	2.3	39	2.3	40	2.1	42	2.1	48	1.7	51	1.6	53	1.5			39	0.6	40	0.7	42	0.7	48	1.5	51	1.6	53	1.5
140	24	1.4	32	1.9	33	1.9	34	1.8	42	1.5	45	1.3	47	1.3									42	0.8	45	1.1	47	1.3
150			24	1.0	25	1.1	26	1.2	38	1.3	41	1.2	43	1.2									38	0.4	41	0.6	43	0.7
160									32	1.1	34	1.0	36	1.0														
170									26	0.9	28	0.9	29	0.9														
Telescoping conditions %																												
Tel. 1	100		100												100		100											
Tel. 2	100		100												100		100											
Tel. 3	80		100												80		100											
Tel. 4	80		100												80		100											
Code	50		52		54		70		72		74				60				62		64		80		82		84	

B : Boom angle degree C : Capacity in 1,000 lbs.

Main Winch Line Pull is 13,500lbs and Aux. Winch Line Pull is 10,000 lbs. To attain lift capacities in excess of 10,000 lbs. with single part line Main Winch must be used.

Operation and Maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

LIFTING CAPACITIES IN 1,000 LBS.

EXTENDIBLE FLY JIB - Counterweight 7,940 lbs.

Working Radius (ft)	On Outriggers, 360° Working area Outrigger base 23.62 ft														On Outriggers, 360° Working area Outrigger base 16.4 ft											
	Boom Length (ft)														Boom Length in (ft)											
	36.75 ft to 127.95 ft		127.95 ft to 138.12 ft												36.75 ft to 127.95 ft		127.95 ft to 138.12 ft									
	Extendible fly jib 29.53 ft Offset								Extendible fly jib 52.50 ft Offset						Extendible fly jib 29.53 ft Offset								Extendible fly jib 52.50 ft Offset					
	5°		5°		17°		30°		5°		17°		30°		5°		5°		17°		30°		5°		17°		30°	
	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C
30	80	13.2	80	11.0											80	13.2	80	11.0										
35	78	12.9	79	11.0	81	9.5									78	12.9	79	11.0	81	9.5								
40	76	12.4	77	10.7	79	8.6	81	6.5	79	6.5					76	12.4	77	10.7	79	8.6	81	6.5	79	6.5				
45	73	11.9	74	9.7	76	7.8	78	6.5	77	6.4					73	11.9	74	9.7	76	7.8	78	6.5	77	6.4				
50	72	11.4	73	8.7	75	7.1	77	6.1	76	6.1	79	4.0			72	9.5	73	8.7	75	7.1	77	6.1	76	6.1	79	4.0		
55	69	10.7	71	7.8	73	6.5	75	5.6	74	5.7	77	3.8	80	2.5	69	7.7	71	7.8	73	6.5	75	5.6	74	5.7	77	3.8	80	2.5
60	68	9.8	70	7.1	72	5.9	74	5.2	73	5.1	76	3.5	79	2.5	68	6.1	70	6.2	72	5.9	74	5.2	73	5.1	76	3.5	79	2.5
65	66	9.0	67	6.4	69	5.5	71	4.8	71	4.6	74	3.3	77	2.5	66	4.8	67	5.0	69	5.5	71	4.8	71	4.6	74	3.3	77	2.5
70	64	8.0	66	5.8	68	5.1	69	4.5	69	4.4	73	3.1	76	2.4	64	3.7	66	4.0	68	4.4	69	4.5	69	4.4	73	3.1	76	2.4
75	62	6.8	64	5.3	66	4.7	68	4.2	68	4.1	70	3.0	73	2.3	62	2.8	64	3.0	66	3.6	68	4.1	68	4.1	70	3.0	73	2.3
80	60	5.5	62	4.9	64	4.3	66	3.9	66	3.7	69	2.9	72	2.3	60	2.0	62	2.3	64	2.7	66	3.2	66	3.5	69	2.9	72	2.3
85	57	4.5	60	4.5	61	4.0	63	3.6	64	3.5	67	2.8	70	2.3	57	1.3	60	1.8	61	2.0	63	2.4	64	2.7	67	2.8	70	2.3
90	55	3.7	58	4.2	60	3.7	61	3.3	63	3.2	66	2.7	69	2.2	55	0.7	58	1.0	60	1.4	61	1.7	63	2.1	66	2.7	69	2.2
95	53	2.8	56	3.7	58	3.4	59	3.1	61	3.0	64	2.6	67	2.1					58	0.8	59	1.1	61	1.6	64	2.2	67	2.1
100	51	2.1	54	2.9	56	3.1	58	3.0	59	2.7	63	2.4	65	2.0							58	0.6	59	1.1	63	1.7	65	2.0
110	45	1.0	49	1.6	51	1.9	52	2.2	56	2.3	59	2.1	61	1.9											59	1.3	61	1.2
120									51	1.9	54	1.9	57	1.8											54	0.8		
130									48	1.0	51	1.4	53	1.5														
Telescoping conditions %																												
Tel. 1	100		100												100		100											
Tel. 2	100		100												100		100											
Tel. 3	80		100												80		100											
Tel. 4	80		100												80		100											
Code	51				53		55		71		73		75		61				63		65		81		83		85	

B : Boom angle degree C : Capacity in 1,000 lbs.

Main Winch Line Pull is 13,500lbs and Aux. Winch Line Pull is 10,000 lbs. To attain lift capacities in excess of 10,000 lbs. with single part line Main Winch must be used.

Operation and Maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

WARNING AND OPERATING INSTRUCTIONS FOR LIFTING

GENERAL

1. Total rated loads shown on the TADANO LOAD RATING CHART apply only to the machine as originally manufactured and normally equipped by TADANO. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operation, safety and maintenance manual supplied with the machine. If this manual is missing, order replacement through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) safety standards for cranes.

SET UP

1. Total rated loads shown on the TADANO LOAD RATING CHART are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
2. For on outrigger operation, outriggers shall be extended according to the TADANO LOAD RATING CHART with tires free of supporting surface, before operating crane.

OPERATION

1. Total rated loads with outriggers fully extended do not exceed 85% of the tipping loads as determined by SAE Crane Stability Test Code J-765. Total rated loads with outriggers half extended or on tires do not exceed 75% of the tipping loads as determined by SAE Crane Stability Test Code J-765.
2. Total rated loads above the bold lines in the TADANO LOAD RATING CHART are based on crane strength and those below the bold lines on crane stability.
3. Total rated loads include the weight of the main hook block, auxiliary hook ball, sling and other auxiliary lifting devices and all their weights shall be subtracted from the listed capacities to obtain the net load to be lifted.

Hook Ball/ Hook Block	6.6	22		44				69			110		
No. of parts of line	1	2	3	4	5	6	7	8	10	11	12	15	17
Max. lift cap. (ton)	6.6	13.2	19.8	26.4	33.0	39.7	44.0	51.3	62.8	67.8	73.9	88.2	100
Weight (lbs.)	330	440		880				1,320			2,550		

4. The lifting capacity ratings specified in the TADANO LOAD RATING CHART apply to the telescopic boom without extendible fly jib fixed in transport position or working position. If the extendible fly jib is secured to the telescopic boom in transport position or working position, the lifting capacities of the telescopic boom are reduced by the values specified below. The weight of the extendible fly jib (2,150 lbs.) is detected in terms of a load, and the load moment limiter will shut off earlier.

29.53/52.50 ft extendible fly jib, mounted in transport position	1,000 lbs.
29.53 ft extendible fly jib, mounted to the boom head	2,500 lbs.
52.50 ft extendible fly jib, mounted to the boom head	4,410 lbs.

5. Total rated loads are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on boom or jib is extremely dangerous.
6. Total rated loads do not account for wind on lifted load or boom. Total rated loads and boom length shall be appropriately reduced, when wind velocity is above 20 mph (29 ft/sec.).
7. Total rated loads at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
8. Do not operate at boom lengths beyond radii or boom angles where no capacities are shown. Crane may overturn without any load on the hook.
9. Slewing of the superstructure is admissible only when the crane is supported on half or fully extended outriggers.
10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
11. Load per part line should not exceed 13,500 lbs. for the main winch and should not exceed 10,000lbs. for the auxiliary winch.
12. Loaded boom angles are approximate. The boom angle before loading should be greater to account for deflection.
13. The 36.75' boom length capacities are based on the telescopic boom being fully retracted. If not fully retracted (less than 62' boom length), use the total rated loads for the 62' boom length according to the telescoping sequence.
14. Extension or retraction of the telescopic boom with loads may be attempted within the limits of the TADANO LOAD RATING CHART. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
15. When erecting or stowing the extendible fly jib, be sure to retain it by hand or by other means to prevent its free movement.
16. Use the Anti-Two Block (OVERWIND CUTOUT) disable switch when erecting or stowing the extendible fly jib and stowing the hook block. While the switch is pushed, the hoist will not stop, even when an overwind condition occurs.
17. The working radius specified in the TADANO LOAD RATING CHARTS for the extendible fly jib apply only if the telescopic boom is completely extended. If one or more elements of the telescopic boom are retracted partially or completely, the specified boom angles will be decisive in determining total rated lifting capacities.
18. When lifting a load by using the extendible fly jib (auxiliary hoist) and telescopic boom (main hoist) simultaneously, do the following:
    A. Select the correct program for the load moment device in accordance with jib length, jib offset angle, counterweight and outrigger base.
    B. Before starting the operation, make sure that the weight of the load is within the total rated load for the extendible fly jib.
19. Safe Load Indicator
    Before working with the telescopic boom, make sure that the S.L.I. code is set according to the desired telescoping sequence while the telescopic boom is completely retracted. A change of the telescoping sequence is not permissible when the boom has been partially of fully extended. In order to change the S.L.I. code number, the boom must be fully retracted.

WARNING AND OPERATING INSTRUCTIONS FOR LIFTING

20. Working with Single Top
Operation with the single top is only allowed with the auxiliary winch (2nd winch). The maximum allowed line pull is 10,000 lbs.
For operations with the single top mounted, use the TADANO LOAD RATING CHART for the telescopic boom in accordance with existing counterweight and outrigger base to find the total rated lifting capacity and also select the correct S.L.I. code for the telescopic boom in accordance with the existing counterweight and outrigger base. Find the total rated lifting capacity based on boom length and working radius. From that value, subtract 1,100 lbs. and the weights of all lifting equipment used including hook block, sling and other auxiliary lifting devices. The result is the total rated lifting capacity for a single top lift. However, remember that the maximum total rated lifting capacity for a single top operation is 10,000 lbs. When the result of the above calculation (<total rated lifting capacity> - <1,100lbs.> - <lifting equipment>) is over 10,000 lbs., always regard the total rated lifting capacity as 10,000 lbs.

DEFINITIONS

1. Working Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied. The deflection of the boom due to its deadweight and the rated load are taken into account.
2. Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the total rated load at the working radius.
3. Working Area: Area measured in a circular arc about the centerline of rotation.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

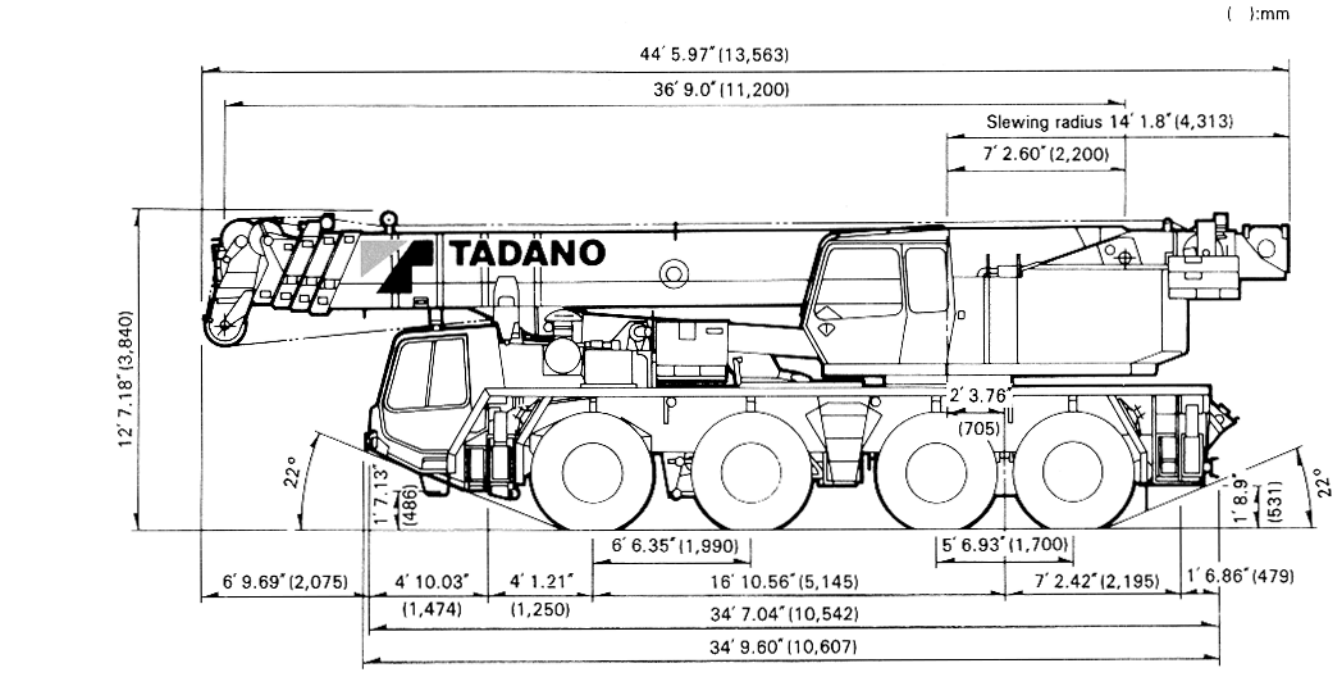
WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER CAPACITIES

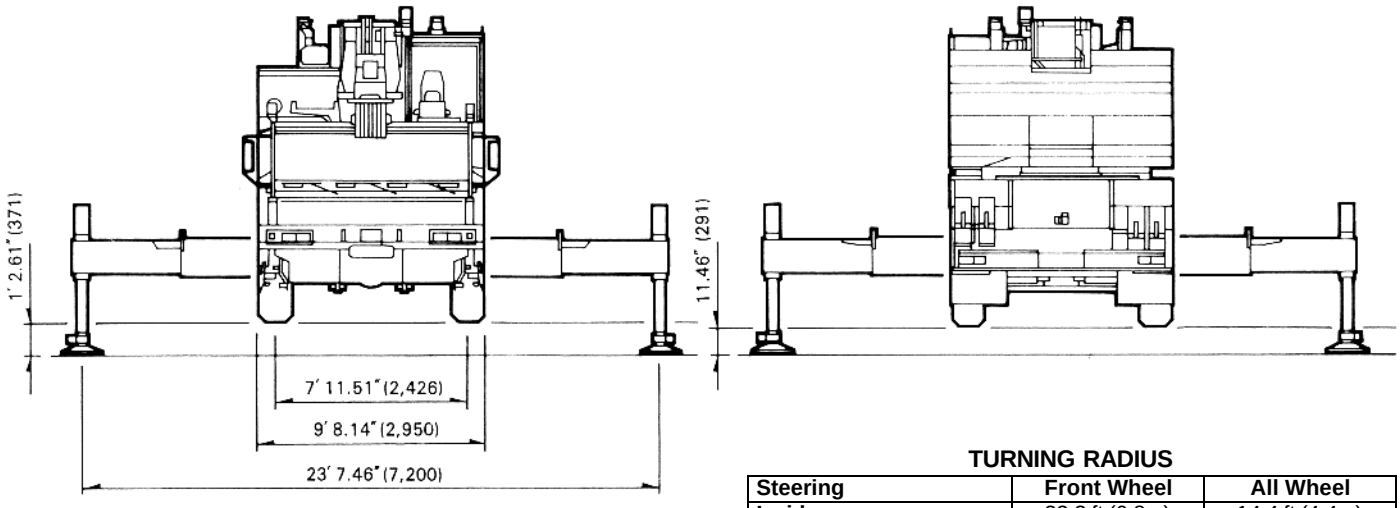
1. Total rated lifting capacities on rubber are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
2. Total rated lifting capacities shown in the TADANO LOAD RATING CHART are based on the condition that the crane is set on firm level supporting surfaces with suspension let down to block. Those above the bold lines are based on tire capacity and those below the bold lines on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
3. Total rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of the crane.
4. Tires shall be inflated to correct air pressure
   Tire Air Pressure
   20.5 R 25 -100 psi (7 kgf/cm²)
5. On rubber lifting with "extendible fly jib" is not permitted.
6. When making a lift on rubber, set the parking brake.
7. Traveling with the load is permitted only if the following conditions exist:
   Machine is set on firm level supporting surface: tires inflated to specified pressure: boom must be centered over the rear of the machine: superstructure swing lock pin engaged: slewing brake engaged; maximum boom length not to exceed 62'; lifted load kept as close to the ground as possible and fastened to the chassis to prevent the lifted load from swinging or oscillating; travel slowly with a creeping speed not to exceed 1.6 mph; and especially avoid any abrupt steering, accelerating or braking.
   If possible, extend the outriggers and lower the outrigger floats to just above ground level.
8. Do not operate the crane while carrying the load.

LOAD MOMENT DEVICE (PAT 350DS)

The Load Moment Device (PAT 350DS) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of Load Rating Charts and Operating Instructions. Sole reliance upon the Load Moment Device Aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

DIMENSIONS





TURNING RADIUS

Steering	Front Wheel	All Wheel
Inside	22.3 ft (6.8m)	14.4 ft (4.4m)
Carrier	40.7 ft (12.4m)	30.7 ft (9.35m)
Over boom extension	44.6 ft (13.6m)	35.8 ft (10.9m)