

TADANO TG-500M-4 HYDRAULIC CRANE

CHART "B"

TOTAL RATED LOAD IN KILOGRAMS

THIS DOCUMENT SHOULD BE READ IN CONJUNCTION WITH THE A.M.L
NOTE : THIS CHART PROVIDES FOR SIMULTANEOUS BOOM SECTION MOVEMENT

OUTRIGGERS FULLY EXTENDED (OVER SIDES AND REAR)

B \ A	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	40.0m
3.0	50,000	14,000					
3.5	43,000	14,000	14,000				
4.0	38,000	14,000	14,000	14,000			
4.5	34,000	14,000	14,000	14,000	14,000		
5.0	30,200	14,000	14,000	14,000	13,200		
5.5	27,500	14,000	14,000	14,000	12,500	11,000	
6.0	25,000	14,000	14,000	14,000	11,800	10,800	
6.5	22,700	14,000	14,000	14,000	11,200	10,400	8,000
7.0	20,700	14,000	14,000	13,400	10,700	9,900	8,000
7.5	18,900	14,000	14,000	12,800	10,200	9,500	8,000
8.0	17,400	14,000	14,000	12,300	9,700	9,100	8,000
8.5	16,050	14,000	14,000	11,800	9,200	8,700	8,000
9.0	14,900	14,000	14,000	11,300	8,800	8,300	8,000
10.0		13,000	13,200	10,500	8,000	7,700	7,500
11.0		11,000	11,200	9,800	7,300	7,100	6,950
12.0		9,400	9,600	9,200	6,800	6,500	6,450
13.0		8,100	8,200	8,250	6,300	6,100	6,000
14.0		7,000	7,100	7,150	5,800	5,700	5,600
16.0		5,300	5,400	5,400	5,100	4,900	4,850
18.0			4,200	4,200	4,200	4,300	4,250
20.0			3,300	3,300	3,300	3,300	3,600
22.0				2,500	2,600	2,600	2,850
24.0					2,000	2,100	2,250
26.0					1,550	1,600	1,800
28.0						1,150	1,350
30.0						800	1,000
32.0							700
34.0							400

OUTRIGGERS FULLY EXTENDED WITH FRONT JACK DOWN (OVER FRONT)

B \ A	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	40.0m
3.0	50,000	14,000					
3.5	43,000	14,000	14,000				
4.0	38,000	14,000	14,000	14,000			
4.5	34,000	14,000	14,000	14,000	14,000		
5.0	30,200	14,000	14,000	14,000	13,200		
5.5	27,500	14,000	14,000	14,000	12,500	11,000	
6.0	25,000	14,000	14,000	14,000	11,800	10,800	
6.5	22,700	14,000	14,000	14,000	11,200	10,400	8,000
7.0	20,700	14,000	14,000	13,400	10,700	9,900	8,000
7.5	18,900	14,000	14,000	12,800	10,200	9,500	8,000
8.0	17,300	14,000	14,000	12,300	9,700	9,100	8,000
8.5	15,500	14,000	14,000	11,800	9,200	8,700	8,000
9.0	13,900	14,000	14,000	11,300	8,800	8,300	8,000
10.0		12,200	12,400	10,500	8,000	7,700	7,500
11.0		10,250	10,400	9,800	7,300	7,100	6,950
12.0		8,800	8,950	9,050	6,800	6,500	6,450
13.0		7,600	7,750	7,850	6,300	6,100	6,000
14.0		6,600	6,750	6,850	5,800	5,700	5,600
16.0		5,050	5,200	5,300	5,100	4,900	4,850
18.0			4,100	4,200	4,200	4,250	4,250
20.0			3,200	3,300	3,300	3,300	3,400
22.0				2,500	2,600	2,600	2,750
24.0					2,000	2,100	2,150
26.0					1,550	1,600	1,700
28.0						1,150	1,300
30.0						800	1,000
32.0							700
34.0							400

A : BOOM LENGTH

B : WORKING RADIUS (m)

NOTES :

- These capacities are based on condition that crane is set on firm ground horizontally. Those above bold lines are based on crane strength and those below, on its stability.
- Total rated loads below bold lines do not exceed 75% of tipping load.
- The weight of the hook (460kg for the 50,000kg capacity, 280kg for the 20,000kg capacity and 100kg for the 4000kg capacity), slings and all similarly used load handling devices must be added to the weight of the load.
- The total rated loads shown are based on the actual working radius which does not include any deflection of the boom.
- Standard number of part lines for boom length are as shown below. Load per line should not surpass 4,170kg for the main winch and 4000kg for the auxiliary winch.



- Without the front jack extended, when the boom is within the "Over-Front" zone the total rated loads are different from those in both the "Over-Side" and "Over-Rear" zones.
- For total rated load of single top, deduct the load shown in following table from relevant total rated load. Total rated loads of single top should not exceed 4000kg.

Boom length	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	40.0m
Load reduction	0kg	100kg	100kg	200kg	200kg	250kg	250kg

- Free fall operation should be performed without any load on the hook.
- 1,850kg shall be subtracted from the rated lifting loads of the main boom, when the jib is attached to main boom head.
- Special weather caution: Refer to the operation and maintenance manual.

TYPE OF EXTENSION	BOOM LENGTH								SINGLE TOP
	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	40.0m		
A	12	7	-	5	-	4	4	1	
B	12	7	5	5	4	4	4	1	

TADANO TG-500M-4 HYDRAULIC CRANE

CHARTS "A" & "B" TOTAL RATED LOAD IN KILOGRAMS THIS DOCUMENT SHOULD BE READ IN CONJUNCTION WITH THE A.M.L

OUTRIGGERS EXTENDED WITH FRONT JACK DOWN (360°)
OUTRIGGERS FULLY EXTENDED (OVER THE SIDES AND REAR)

BOOM & JIB LENGTH	40.0m BOOM + 9.0m JIB						40.0m BOOM + 14.6m JIB					
	5°		25°		45°		5°		25°		45°	
JIB OFFSET	A	B	A	B	A	B	A	B	A	B	A	B
80	9.3	3,500	12.1	2,400	14.0	1,600	11.0	2,500	15.4	1,250	18.7	800
79	10.2	3,500	12.9	2,400	14.8	1,600	12.1	2,500	16.4	1,250	19.5	800
78	11.1	3,500	13.8	2,400	15.6	1,600	13.1	2,500	17.3	1,250	20.4	800
77	12.0	3,500	14.6	2,400	16.4	1,600	14.0	2,500	18.2	1,250	21.2	800
76	12.8	3,500	15.4	2,400	17.2	1,580	15.0	2,300	19.1	1,220	22.0	800
75	13.7	3,500	16.3	2,300	17.9	1,550	15.9	2,150	20.0	1,200	22.8	800
73	15.3	3,150	17.9	2,150	19.5	1,520	17.8	2,000	21.8	1,150	24.5	770
70	17.8	2,750	20.2	1,950	21.7	1,500	20.5	1,800	24.4	1,100	26.8	750
68	19.4	2,500	21.7	1,800	23.1	1,450	22.3	1,650	26.0	1,050	28.3	720
65	21.7	2,200	24.0	1,650	25.2	1,400	24.9	1,450	28.5	1,000	30.5	700
63	23.3	1,950	25.4	1,550	26.6	1,330	26.5	1,350	30.0	950	31.9	690
60	25.5	1,700	27.5	1,400	28.6	1,250	29.0	1,200	32.3	870	34.0	670
58	26.9	1,400	28.9	1,250	29.8	1,150	30.6	1,100	33.8	820	35.3	650
55	28.9	950	30.8	850	31.6	800	32.9	800	35.9	700	37.1	600
53	30.2	700	31.9	650	32.7	600	34.3	600	37.1	500	38.3	450
50	32.0	400	33.6	350	34.3	300	36.3	300				

OUTRIGGERS AT MEDIUM EXTENSION WITH FRONT JACK DOWN (360°)
OUTRIGGERS FULLY EXTENDED WITH FRONT JACK DOWN (OVER FRONT)

BOOM & JIB LENGTH	40.0m BOOM + 9.0m JIB						40.0m BOOM + 14.6m JIB					
	5°		25°		45°		5°		25°		45°	
JIB OFFSET	A	B	A	B	A	B	A	B	A	B	A	B
80	9.3	3,500	12.1	2,400	14.0	1,600	11.0	2,500	15.4	1,250	18.7	800
79	10.2	3,500	12.9	2,400	14.8	1,600	12.1	2,500	16.4	1,250	19.5	800
78	11.1	3,400	13.8	2,400	15.6	1,600	13.1	2,500	17.3	1,250	20.4	800
77	12.0	2,900	14.6	2,150	16.4	1,600	14.0	2,400	18.2	1,250	21.2	800
76	12.8	2,400	15.4	1,800			15.0	2,000				

NOTES :

- 3.0 The weight of the hook (450kg for the 50,000kg capacity, 280kg for the 20,000kg capacity and 100kg for the 4000kg capacity), slings and all similarly used load handling devices must be added to the weight of the load.
- 4.0 The total rated loads shown are based on the actual working radius which does not include any deflection of the boom.
- 5.0 Standard number of part lines for boom length are as shown below. Load per line should not surpass 4,170kg. for the main winch and 4000kg. for the auxiliary winch.

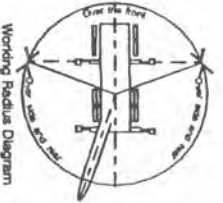
TYPE OF EXTENSION	800M						SINGLE TOP
	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	
A	12	7	-	5	-	4	4
B	12	7	5	5	4	4	1

- 6.0 Without the front jack extended, when the boom is within the "Over-Front" zone the total rated loads are different from those in both the "Over-Side" and "Over-Rear" zones.
- 7.0 For total rated load of single top, deduct the load shown in following table from relevant total rated load. Total rated loads of single top should not exceed 4000kg.

Boom length	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	40.0m
Load reduction	0kg	100kg	100kg	200kg	200kg	250kg	250kg

- 8.0 Free fall operation should be performed without any load on the hook.
- 9.0 1,850kg shall be subtracted from the rated lifting loads of the main boom, when the jib is attached to main boom head.
- 10.0 Special weather caution: Refer to the operation and maintenance manual.

A : WORKING RADIUS (m)
B : LOAD (KILOGRAMS)
∠ : BOOM ANGLE



NOTES :

- 1.0 These capacities are based on condition that crane is set on firm ground horizontally. Those above bold lines are based on crane strength and those below, on its stability.
- 2.0 Total rated loads below bold lines do not exceed 75% of tipping load.

TADANO TG-500M-4 HYDRAULIC CRANE

CHART "A"

TOTAL RATED LOAD IN KILOGRAMS

THIS DOCUMENT SHOULD BE READ IN CONJUNCTION WITH THE A.M.I

NOTE : THIS CHART PROVIDES FOR SEQUENTIAL-BOOM SECTION MOVEMENT

OUTRIGGERS FULLY EXTENDED (OVER SIDES AND REAR)					
B \ A	10.65m	18.0m	25.3m	32.7m	40.0m
3.0	50,000	28,000			
3.5	43,000	28,000			
4.0	38,000	28,000	20,000		
4.5	34,000	28,000	20,000		
5.0	30,200	28,000	20,000		
5.5	27,500	25,600	20,000	14,000	
6.0	25,000	23,500	20,000	14,000	
6.5	22,700	21,800	18,600	14,000	8,000
7.0	20,700	20,000	17,300	13,500	8,000
7.5	18,900	18,500	16,200	13,000	8,000
8.0	17,400	17,000	15,300	12,500	8,000
8.5	16,050	15,700	14,400	11,900	8,000
9.0	14,900	14,700	13,600	11,300	8,000
10.0		12,200	12,050	10,300	7,500
11.0		10,200	10,050	9,400	6,950
12.0		8,600	8,450	8,600	6,450
13.0		7,300	7,200	7,900	6,000
14.0		6,250	6,050	6,750	5,600
16.0		4,500	4,350	5,150	4,850
18.0			3,250	3,950	4,250
20.0			2,300	3,050	3,600
22.0			1,600	2,300	2,850
24.0				1,700	2,250
26.0				1,300	1,800
28.0				850	1,350
30.0					1,000
32.0					700
34.0					400

A : BOOM LENGTH

OUTRIGGERS FULLY EXTENDED WITH FRONT JACK (OVER FRONT)					
B \ A	10.65m	18.0m	25.3m	32.7m	40.0m
3.0	50,000	28,000			
3.5	43,000	28,000			
4.0	38,000	28,000	20,000		
4.5	34,000	28,000	20,000		
5.0	30,200	28,000	20,000		
5.5	27,500	25,600	20,000	14,000	
6.0	25,000	23,500	20,000	14,000	
6.5	22,700	21,800	18,600	14,000	8,000
7.0	20,700	20,000	17,300	13,500	8,000
7.5	18,900	18,500	16,200	13,000	8,000
8.0	17,300	17,000	15,300	12,500	8,000
8.5	15,500	15,300	14,400	11,900	8,000
9.0	13,900	13,750	13,600	11,300	8,000
10.0		11,300	11,200	10,300	7,500
11.0		9,450	9,350	9,400	6,950
12.0		7,950	7,850	8,600	6,450
13.0		6,750	6,650	7,500	6,000
14.0		5,800	5,700	6,500	5,600
16.0		4,300	4,200	5,000	4,850
18.0			3,100	3,850	4,250
20.0			2,250	3,000	3,400
22.0			1,600	2,300	2,750
24.0				1,700	2,150
26.0				1,300	1,700
28.0				850	1,300
30.0					1,000
32.0					700
34.0					400

B : WORKING RADIUS (m)

NOTES :

- These capacities are based on condition that crane is set on firm ground horizontally. Those above bold lines are based on crane strength and those below, on its stability.
- Total rated loads below bold lines do not exceed 75% of tipping load.
- The weight of the hook (480kg for the 50,000kg capacity, 280kg for the 20,000kg capacity and 100kg for the 4000kg capacity), slings and all similarly used load handling devices must be added to the weight of the load.
- The total rated loads shown are based on the actual working radius which does not include any deflection of the boom.
- Standard number of part lines for boom length are as shown below. Load per line should not surpass 4,170kg. for the main winch and 4000kg. for the auxiliary winch.

TYPE OF EXTENSION	BOOM LENGTH							SINGLE TOP
	10.65m	18.0m	21.7m	25.3m	29.0m	32.7m	40.0m	
A	12	7	-	5	-	4	4	1
B	12	7	5	5	4	4	4	1



- Without the front jack extended, when the boom is within the "Over-Front" zone the total rated loads are different from those in both the "Over-Side" and "Over-Rear" zones.
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- 1,850kg shall be subtracted from the rated lifting loads of the main boom, when the jib is attached to main boom head.
- Special weather caution: Refer to the operation and maintenance manual.