

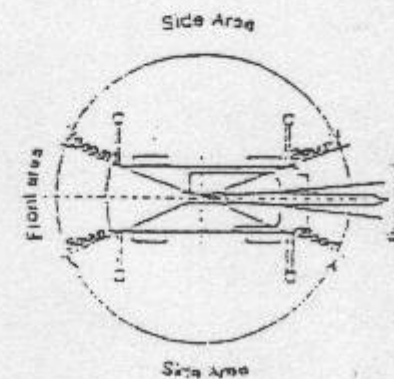
KOBELCO RK450 HYDRAULIC CRANE

CHART 1

TOTAL RATED LOAD IN KILOGRAMS

THIS DOCUMENT SHOULD BE READ IN CONJUNCTION WITH THE L.S.D.

MAIN BOOM RATED CAPACITIES WITH OUTRIGGERS																		
BOOM LENGTH (m)	OUTRIGGERS FULLY EXTENDED (3.6m)					OUTRIGGERS EXTENDED 3.4m (OVER THE SIDE)					OUTRIGGERS EXTENDED 4.0m (OVER THE SIDE)					OUTRIGGERS AT MINIMUM EXTENSION (2.57m)		
	10.45m	17.55m	24.65m	31.75m	39.85m	10.45m	17.55m	24.65m	31.75m	39.85m	10.45m	17.55m	24.65m	31.75m	39.85m	10.45m	17.55m	24.65m
3.0	50,000					45,000	28,000	20,000			40,000	28,000	20,000			15,000	11,000	11,000
3.5	45,000	28,000	20,000			40,500	28,000	20,000			37,200	28,000	20,000			15,000	11,000	11,000
3.75	40,800	28,000	20,000			38,500	28,000	20,000			35,500	28,000	20,000			15,000	11,000	11,000
4.0	38,900	28,000	20,000	13,000		38,500	28,000	20,000	13,000		27,300	28,000	20,000	13,000		14,400	11,000	11,000
4.5	33,400	28,000	20,000	13,000		33,000	28,000	20,000	13,000		22,400	22,000	20,000	13,000		11,850	11,000	11,000
5.0	30,200	25,000	20,000	13,000		29,000	24,900	20,000	13,000		18,000	17,300	17,100	13,000		8,600	8,150	8,200
5.5	27,500	25,700	20,000	13,000	7,500	25,000	22,500	20,000	13,000	7,500	15,000	15,000	14,500	13,000	7,500	8,100	7,850	7,400
6.0	25,000	23,800	20,000	13,000	7,500	20,900	20,500	18,250	13,000	7,500	12,900	12,800	12,400	13,000	7,500	8,800	8,500	8,250
6.5	22,700	21,800	18,400	13,000	7,500	18,000	17,300	16,650	13,000	7,500	11,200	10,800	10,800	11,500	7,500	8,000	5,500	5,300
7.0	20,700	20,000	17,000	13,000	7,500	15,400	15,000	15,000	13,000	7,500	9,750	9,300	9,200	10,300	7,500	5,150	4,700	4,500
7.5		18,500	15,800	13,000	7,500		13,200	13,100	13,000	7,500		8,100	8,000	8,000	7,500		4,100	3,350
8.0		17,100	14,800	12,400	7,500		11,700	11,500	12,000	7,500		7,150	7,000	8,000	7,500		3,500	3,300
8.5		18,000	14,000	11,700	7,500		10,400	10,200	11,000	7,500		6,200	6,200	7,100	7,000		3,000	2,700
9.0		15,800	13,200	11,150	7,500		9,200	9,100	10,000	7,500		5,800	5,500	6,400	6,550		2,500	2,250
9.5		13,500	12,450	10,600	7,500		8,400	8,150	9,100	7,500		5,000	4,800	5,750	6,200		2,100	1,800
10.0		12,200	11,800	10,100	7,500		7,550	7,300	8,300	7,500		4,500	4,250	5,200	5,700		1,850	1,400
11.0		10,200	9,950	9,150	8,950		6,200	6,000	6,900	8,750		3,500	3,250	4,250	4,750		1,000	
12.0		8,550	8,200	8,300	8,450		5,150	4,900	5,800	8,050		2,700	2,450	3,450	4,000			
13.0		7,300	7,050	7,300	8,000		4,250	4,000	4,900	5,400		2,000	1,800	2,800	3,250			
14.0		6,250	6,000	6,900	5,800			3,250	4,200	4,750			1,250	2,200	2,900			
15.0			5,150	6,000	5,250			2,600	3,600	4,100			750	1,700	2,200			
16.0			4,400	5,250	4,800			2,950	3,950	3,600				1,250	1,850			
18.0			3,250	4,100	4,050			1,150	2,100	2,950				900	1,150			
19.0			2,750	3,600	3,750			800	1,700	2,250					950			
20.0			2,250	3,200	3,550				1,350	1,900								
22.0				2,400	3,900				800	1,300								
24.0				1,750	2,350					350								
26.0				1,250	1,800					450								
27.0					1,550													
28.0					1,350													
29.0					1,150													
30.0					1,000													
31.0					900													
32.0					550													
MIN. BOOM			23	25	27		27	29	29	43		27	45	50	55		40	50



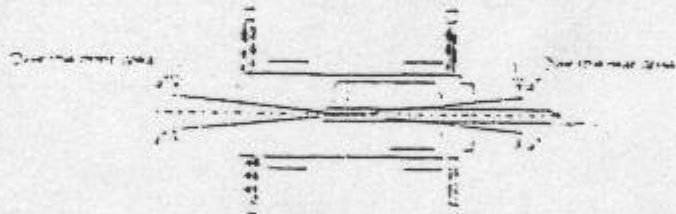
Working Radius Diagram

A : BOOM LENGTH(m)

B : WORKING RADIUS(m)

NOTES :

- These capacities are based on condition that the crane is set on firm ground horizontally. Those above the bold lines are based on the crane's strength and those below, on its stability.
 - Total rated loads below the bold lines do not exceed 75% of tipping load.
 - The weights of the lifting hooks are set out in the chart below; the weight of slings and all similarly used load handling devices must be added to the weight of the load.
- | CAPACITY OF HOOK | 45,000kg | 21,000kg | 4,000kg |
|------------------|----------|----------|---------|
| WEIGHT OF HOOK | 450kg | 220kg | 100kg |
- The total rated loads shown are based on the actual working radius which includes any deflection of the boom.
 - Jib operations should be performed on the basis of boom angle only, regardless of boom length.
 - The outriggers may be extended and fixed at different settings i.e. fully extended 7.2m, two intermediate settings of 3.4m and 4.0m and the minimum extension of 2.57m.
 - The crane's rated capacity is generally determined by the amount the outriggers are extended, particularly over the side; it is therefore necessary to refer to the rated load charts prior to commencing work. Load ratings over the front and rear have been determined with fully extended outriggers.



POSITION OF OUTRIGGERS	MEDIUM EXTENSION (3.4m)	MEDIUM EXTENSION (4.0m)	MINIMUM EXTENSION (2.57m)
a ² - b ² OVER FRONT AND REAR AREAS	25°	15°	5°

- Load ratings with the single top are the same as the main boom ratings but should not exceed 4,000kg. When operating with boom lengths between 10.45m and 17.55m deduct the weight of the 45 tonne hook block (450kg.) from the rated load. When operating with boom lengths in excess of 17.55m up to the maximum length of 39.85m deduct the weight of the 21 tonne hook block (250kg.) from the rated load.
- If the boom length exceeds the specified value, refer to the rated lifting capacities for that boom length and the next highest boom length. The crane should be operated within the smaller lifting capacity.
- Deduct 1,800kg from the rated lifting loads of the main boom when the 9m jib is attached to the main boom head and 2,100kg, when the 15m jib is in place and extended. The single top must not be used whilst the jib is in place.
- The crane must not be operated under conditions corresponding to the empty boxes in the chart. With or without a load the boom angle must not be reduced to less than the number of degrees shown as the critical boom angle at the bottom of each load chart. In the event of such a reduction the crane will tip.
- Standard number of part lines for each boom length are as shown below. Load per line should not surpass 4,500kg.

BOOM LENGTH	10.45m	17.55m	24.65m	31.75m	39.85m	SINGLE TOP
NO. OF PART LINES	10	5	5	3	3	6
CAPACITY OF HOOK	45,000kg	45,000kg	21,000kg	21,000kg	21,000kg	4,000kg

- Free fall operation should be performed only without any load on the hook.
- Special weather caution: Should wind gusts exceed 10m/sec postpone the operation. Refer to the operation and maintenance manual.
- Refer to the crane manual.

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