

Notes for the Lifting Capacity Chart

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1. The lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the hook, slings, etc.. The values enclosed with thick lines in the lifting capacity chart are determined by the structural strength of the crane, and the values below the enclosed areas are determined by the crane's stability.
2. The lifting capacity is classified into the following lifting performance groups depending on the outrigger extension width and the counterweight mounting state with outrigger, side support and boom lock used.
3. When operating in front area or rear area, use the lifting capacity chart of outriggers fully extended.

Performance classification

Operation of Boom with heavy load unit

	Outrigger	Counterweight mounting state
	extension width	105ton
360° full range*	8.4m	AA

* Maximum load is for only rear side.

Operation of boom and using rooster sheave, Normal extension and retraction

	Outrigger	Counterweight mounting state									
	extension width	105ton	93ton	81ton	69ton	51ton	41ton	31ton	21ton	11ton	Without Counterweight
360° full range	9.4m	A1	B1	C1	D1	E1	F1	G1	H1	J1	K1
Over side	8.4m	A2	B2	C2	D2	E2	F2	G2	H2	J2	K2
	7.4m	/	/	/	D3	E3	F3	G3	H3	J3	K3
	6.4m	/	/	/	/	/	F4	G4	H4	J4	K4
	5.4m	/	/	/	/	/	/	/	H5	J5	K5

Operation of boom and using rooster sheave, Special extension and retraction

	Outrigger	Counterweight mounting state									
	extension width	105ton	93ton	81ton	69ton	51ton	41ton	31ton	21ton	11ton	Without Counterweight
360° full range	9.4m	TA1	TB1	TC1	TD1	TE1	TF1	TG1	TH1	TJ1	TK1
Over side	8.4m	TA2	TB2	TC2	TD2	TE2	TF2	TG2	TH2	TJ2	TK2
	7.4m	/	/	/	TD3	TE3	TF3	TG3	TH3	TJ3	TK3
	6.4m	/	/	/	/	/	TF4	TG4	TH4	TJ4	TK4
	5.4m	/	/	/	/	/	/	/	TH5	TJ5	TK5

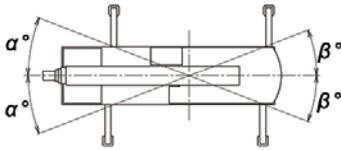
Operation of SL Jib

	Outrigger	Counterweight mounting state									
	extension width	105ton	93ton	81ton	69ton	51ton	41ton	31ton	21ton	11ton	Without Counterweight
Over side	9.4m	SA	SB	SC	SD	SE	SF	SG	SH	SJ	SK
	8.4m					SF	SG	SH	SJ	SK	/
	7.4m	/	/	/	SE	SG	SH	/	/	/	/

Operation of HL Jib

	Outrigger	Counterweight mounting state									
	extension width	105ton	93ton	81ton	69ton	51ton	41ton	31ton	21ton	11ton	Without Counterweight
Over side	9.4m	HA	HB	HC	HD	HE	HF	HG	/	/	/
	8.4m				HE	HF	HG	/	/	/	
	7.4m	/	/	/	HF	/	/	/	/	/	/

4. The ranges of the front area and the rear area are shown below.



Operation of Boom	with heavy load unit	without heavy load unit
Area α	-	15°
Area β	5°	15°

5. The boom angle indicates the angle between boom and firm level ground, and jib angle indicates the angle between boom and jib.

6. The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of working radius.

7. The SL jib working radius is the value for crane operation by mounting the SL jib to the 40, 45, 50 or 55m boom. When performing SL jib operations with a boom length of less than 40m, use the 40m boom angle as standard instead of working radius.

8. If the boom length, boom angle, working radius, SL jib length or SL jib angle exceeds the specified value, conduct the operation according to the smaller value of lifting capacity for the relevant specified value and that for the next specified value.

9. The critical boom angle in each operation is shown in the lifting capacity chart. Since a smaller angle than the critical boom angle may cause to tip over even with no load, take care sufficiently.

10. When operating the boom, normal extension / retraction with the SL jib mounted, subtract mass of all attached hook, slings, etc. and mass shown table below according to the SL jib length.

In this condition, refer to the performance classification of SL jib for the outrigger extension width and counterweight state.

Operation of boom with SL jib mounted is limited to boom, normal extension / retraction.

SL jib length	10.85m	15m	20m	25m	30m	35m
subtract mass	19ton	29ton				

11. When operating the rooster sheave, subtract mass of all attached hook, slings etc. from the lifting capacity for boom. In this condition, maximum lifting load shall be 12 ton.

12. Use the heavy load unit when operating the crane loading with more than 150 ton.

13. 31m HL jib at single rope lifting capacity is equal to 31m HL jib lifting capacity, and maximum lifting load shall be 12 ton.

14. Rope for derricking/lowering HL jib is 6 parts of line.

15. The standard hook, hook mass and number of parts of line for each operation are shown in table below.

When using the hook for 12ton in operation of HL jib, use sub weight. When using the hook for 12ton in operation of SL jib or using rooster sheave, don't use sub weight.

Standard hook	for 300ton	for 150ton	for 83ton	for 24ton	for 12ton	
					without sub weight	with sub weight
Hook mass	3800kg	1900kg	1000kg	880kg	420kg	530kg

Operation of Boom, Normal extension and retraction

Boom length	14.4m with heavy load unit	14.4m	19.55m	23.6m	24.7m	32m	40m	45m	50m	55m
Standard hook	for 300ton	for 150ton	for 150ton	for 150ton	for 150ton	for 83ton				
Parts of line	14×2	14	12	12	12	7	6	4	4	4

Operation of Boom, Special extension and retraction

Boom length	14.4m	19.55m	24.7m	32m	40m	44.7m
Standard hook	for 150ton	for 83ton				
Parts of line	14	7	7	6	4	4

Operation of boom using rooster sheave

Standard hook	for 12ton
Parts of line	1

Operation of SL jib

SL jib length	10.85m	15m	20m	25m	30m	35m
Standard hook	for 24ton	for 12ton				
Parts of line	2	1	1	1	1	1

Operation of HL jib

		HL jib length					
		13m	22m	31m	40m	47m	54m
14.4m Boom	Standard hook	for 150ton	for 83ton	for 83ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line	8	6	4 (1)	1	1	1
19.55m Boom	Standard hook	for 150ton	for 83ton	for 83ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line	8	6	4 (1)	1	1	1
23.6m Boom	Standard hook	for 83ton	for 83ton	for 83ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line	6	4	4 (1)	1	1	1
32m Boom	Standard hook	for 83ton	for 83ton	for 24ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line	4	4	2 (1)	1	1	1
40m Boom	Standard hook	—	for 24ton	for 24ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line		2	2 (1)	1	1	1
45m Boom	Standard hook	—	for 24ton	for 24ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line		2	2 (1)	1	1	1
50m Boom	Standard hook	—	for 24ton	for 24ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line		2	2 (1)	1	1	1
53.9m Boom	Standard hook	—	for 24ton	for 24ton (12ton)	for 12ton	for 12ton	for 12ton
	Parts of line		2	2 (1)	1	1	1

16. Crane operation is permissible when a wind speed is less than 10 m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.

17. The machine will tip over or be damaged if operated with a load exceeding that specified in the lifting capacity chart or not handled correctly.

If such trouble occurs, the machine will not be guaranteed.

18. This specification is subject to change without prior notice for improvements.