

SUMITOMO LS-248RH-5 150-M ton Hydraulic Crawler Crane



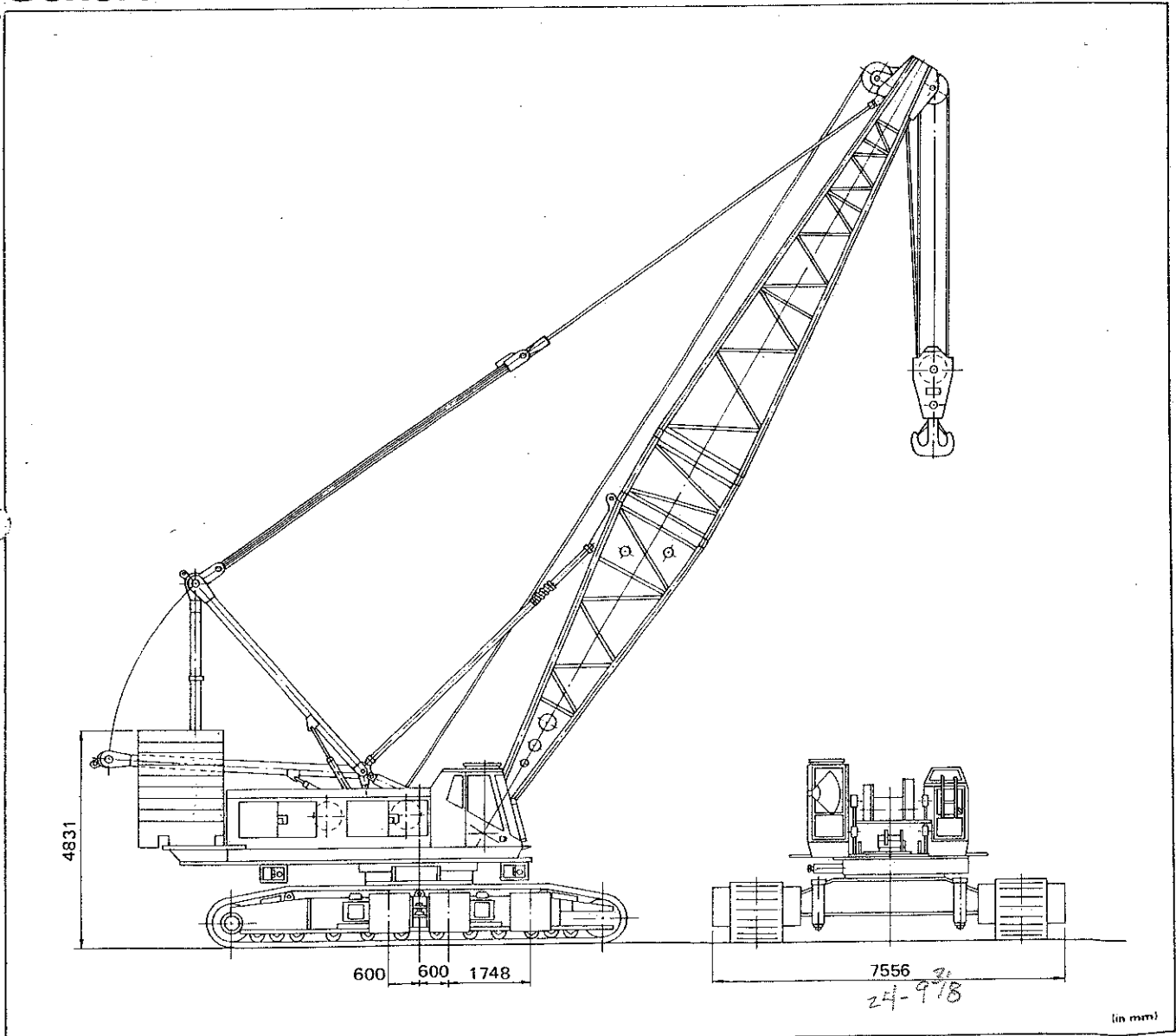
SUPPLEMENTARY

This catalog is for LOWER WEIGHT SPEC CRANE (LWC) attachment.

The LWC attachment can perform about 25% greater lifting crane capacity than that of standard lifting crane attachment shown in LS-248RH-5 catalog L315-0788(R3) in any ranges of working radius under boom length from 18.30m through 82.35m by means of adding counterweights of 11.3ton for upper and 22.0ton for lower to standard unit with no other specification changes for crane boom and so on.

Thus, the unit with LWC attachment can realize bigger lifting crane capacities rather than those of a 200ton class crawler crane without any specification change from standard unit.

General Dimensions



Notes: 1. Other dimensions except the above are exactly same as those which are mentioned in to LS-248RH-5 catalog L315-0788(R3) as separated one.

2. Working weight is approx. 191.5ton with 18.30m basic boom, 150t hook block, 67.1ton upper counterweight, 22.0t lower counterweight and 1,118mm wide track shoes, and ground pressure is 1.03kg/cm² under 191.5ton working weight mentioned above.

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LS-248RH-5 LIFTING CRANE CAPACITIES (with LWC attachment)

Working radius (m)	Boom length (m)																
	18.30	21.35	24.40	27.45	30.50	33.55	36.60	39.65	42.70	45.75	48.80	51.85	54.90	57.95	61.00	64.05	67.10
5.0	150.0																
6.0	140.0	128.1	116.8														
7.0	123.6	121.7	111.5	102.5	94.4												
8.0	99.2	98.9	98.8	96.2	90.7	83.8	77.8										
9.0	90.6	90.5	89.9	87.2	82.8	78.9	75.2	69.6	64.0								
10.0	86.5	86.4	86.3	86.6	82.8	78.9	75.2	69.6	64.0	57.8	52.3						
12.0	67.1	67.0	66.9	66.9	66.9	61.9	59.4	57.0	53.3	52.4	49.7	46.9	43.5	40.0			
14.0	54.8	54.6	54.4	54.4	54.4	54.3	54.2	49.6	47.9	45.7	44.0	41.8	40.3	38.1	37.0	36.2	33.5
16.0	46.2	45.8	45.8	45.8	45.7	45.5	45.5	45.4	45.2	43.7	38.8	37.1	35.8	35.7	35.6	35.2	32.7
18.0		39.3	39.2	39.2	39.2	39.0	39.0	38.8	38.8	38.7	35.6	34.5	34.3	34.1	34.0	33.9	31.5
20.0		34.4	34.3	34.2	34.2	34.1	34.1	33.8	33.8	33.7	33.4	32.2	32.1	32.0	31.9	31.9	30.7
22.0			30.6	30.5	30.4	30.2	30.2	30.0	29.7	29.6	29.4	29.2	28.2	28.1	28.1	28.0	28.0
24.0				27.4	27.2	27.1	27.0	26.7	26.7	26.4	26.3	26.1	26.0	24.9	24.9	24.9	24.8
26.0					24.4	24.4	24.3	24.1	24.1	23.9	23.6	23.4	23.3	22.4	22.4	22.3	22.3
28.0					22.2	22.2	22.2	22.0	21.8	21.7	21.3	21.2	21.2	20.9	20.2	20.1	20.1
30.0						20.4	20.3	20.0	19.9	19.8	19.5	19.4	19.2	18.9	18.4	18.2	18.2
32.0							18.6	18.3	18.2	18.1	17.8	17.8	17.6	17.3	16.7	16.6	16.6
34.0							17.8	17.0	16.9	16.7	16.5	16.3	16.2	15.8	15.3	15.2	15.2
36.0								15.7	15.5	15.4	15.1	15.1	15.0	14.7	14.1	14.0	13.9
38.0									14.5	14.3	14.1	13.9	13.8	13.5	13.0	12.9	12.8
40.0										13.3	13.0	12.9	12.7	12.4	12.3	11.9	11.9
42.0											12.2	12.0	11.9	11.7	11.5	11.0	10.9
44.0												11.2	11.1	10.8	10.7	10.2	10.1
46.0													10.4	10.3	10.0	9.9	9.4
48.0														9.7	9.4	9.2	8.8
50.0															8.8	8.6	8.2
52.0																8.0	7.6
54.0																7.4	7.1
56.0																	6.8
58.0																	6.5
60.0																	6.1
62.0																	
64.0																	

LS-248RH-5

LWC

(in metric tons)

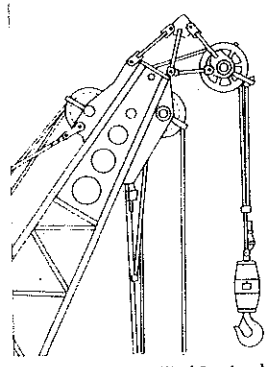
					Working radius (m)
70.15	73.20	76.25	79.30	82.35	
					5.0
					6.0
					7.0
					8.0
					9.0
					10.0
					12.0
30.3					14.0
29.6	27.1	25.0	22.8	20.3	16.0
28.8	26.4	24.4	22.1	19.7	18.0
27.8	25.9	23.8	21.6	19.2	20.0
27.0	24.8	22.4	21.0	18.6	22.0
24.8	24.1	22.3	20.2	18.0	24.0
22.3	22.0	21.7	19.6	17.3	26.0
20.0	19.8	19.7	19.0	16.7	28.0
18.2	17.9	17.8	17.6	15.9	30.0
16.5	16.3	16.1	15.9	15.0	32.0
15.1	14.8	14.7	14.5	13.8	34.0
13.9	13.6	13.5	13.3	12.8	36.0
12.8	12.5	12.4	12.2	11.8	38.0
11.8	11.5	11.4	11.2	11.0	40.0
10.8	10.5	10.4	10.2	10.1	42.0
10.0	9.7	9.6	9.4	9.2	44.0
9.3	9.1	8.9	8.7	8.5	46.0
8.6	8.3	8.2	8.0	7.8	48.0
8.0	7.7	7.5	7.3	7.2	50.0
7.4	7.1	7.0	6.8	6.6	52.0
6.9	6.6	6.4	6.2	6.1	54.0
6.4	6.1	5.9	5.6	5.5	56.0
6.0	5.6	5.4	5.1	5.0	58.0
5.5	5.2	5.0	4.7	4.5	60.0
5.1	4.7	4.5	4.3	4.1	62.0
	4.3	4.1	3.9	3.7	64.0

(ZCP00197B)

Notes – Lifting crane capacities

- Capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are in metric tons, and are not more than 75% of minimum tipping loads unless marked with a shaded color (□). Shaded color indicates capacities are based on factors other than those which would cause a tipping condition.
- Capacities for boom length from 30.50m through 82.35m on this chart are determined in condition of no two hanger sheaves be attached on a 9.15m tapered top section head machinery. If lifting operation with the two hanger sheaves, the reduction of a 0.3ton must be made from the capacities referred above. In case that lifting operation without the two hanger sheaves, the lifting capacities of over 100ton on this chart are determined a 100ton as maximum.
- Capacities are under crawler extended condition with 5,620mm.
- Capacities 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, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of jib, hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
SUMITOMO's hook block weight is as follows:
150t 2.6t 100t 2.2t 60t 1.3t
25t 1.1t 13.5t 0.5t
- All capacities are rated for 360° swing.
- Least stable rated condition is over the side.
- Boom live mast is required when boom length is 61.00m or longer.
- Counterweight must be 67.1ton for upper and 22.0ton for lower for all capacities on this chart.
- Attachment must be erected and lowered over the front of the crawler mounting.
- Main boom length must not exceed 82.35m.
Maximum fly jib length permitted – 30.50m.
Maximum boom and fly jib combination length permitted – 73.20m boom plus 30.50m fly jib.
- Determining lifting crane capacities with fly jib or auxiliary short jib mounted on boom:
When handling load off main boom head shaves, the following reductions in rated lifting crane capacities must be made to compensate for fly jib weight including 25 hook block, or for auxiliary short jib including 13.5t hook block:
12.20m fly jib – 2,900kg
18.30m fly jib – 3,900kg
24.40m fly jib – 5,000kg
30.50m fly jib – 6,300kg
Auxiliary short jib – 800kg
- Boom combination shall be in accordance with manufacturer's standard "Boom Combination Diagram" mentioned in to LS-248RH-5 catalog L315-0788(R3) as separated one. In configuration of boom combination, it is required to just position heavy-duty boom extensions or 1.525m boom extension on to the 7.625m bottom section. It is also required to position any of heavy-duty boom extensions between 7.625m bottom section and a 1.525m boom extension, and to position 9.15m light-duty boom extension(s) between 9.15m tapered top section and a 1.525m boom extension.
- Crane working ranges can be referred to that of standard lifting crane attachment described in LS-248RH-5 catalog L315-0788(R3) as separated one.
- Capacities apply only to the machine as originally manufactured and normally equipped by Sumitomo (S.H.I.) Construction Machinery Co., Ltd.

LS-248RH-5 AUXILIARY SHORT JIB CAPACITIES: Max. 13.5ton



Auxiliary short jib (Option)

Note:

Jib capacities is equal to the figures made by the deduction of a 300kg from the lifting crane capacities unless restricted by the maximum jib capacity shown above.

LS-248RH-5 FLY JIB CAPACITIES: Max. 15ton

Note: Fly jib capacities of LWC attachment can be referred to those which are described in to LS-248RH-5 catalog L315-0788(R3) as separated one.

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