

SUMITOMO



PAX Series

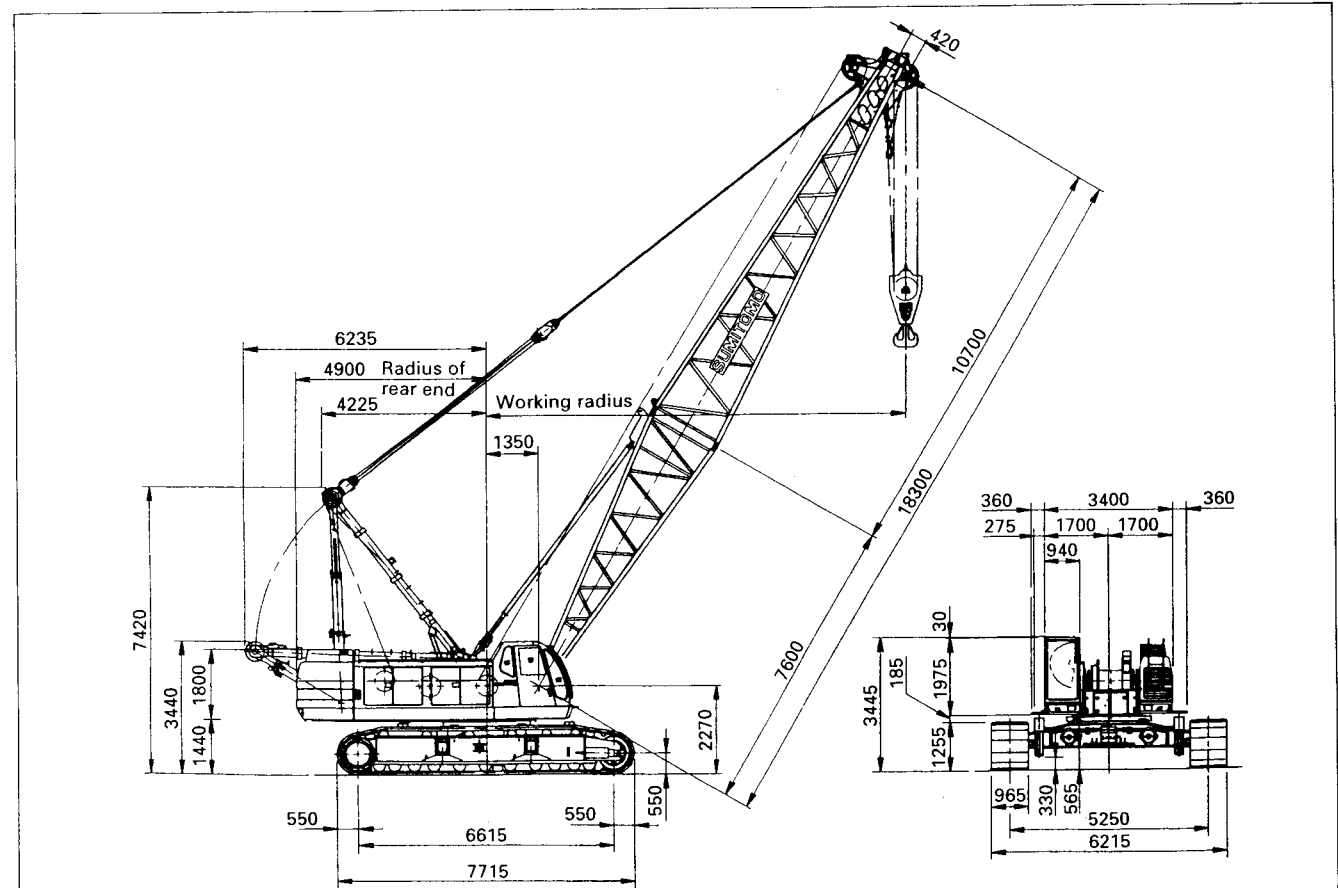
SC 1000-2

100-M ton Hydraulic Crawler Crane

General Specifications & Crane/Luffing Tower Capacities

General Dimensions:

(in mm)



Crane

Crane Attachment

CRANE BOOMS:

Lattice construction; round tubular main chords, alloy, hi-ten steel, with bracing of round steel tubing.

Boom connections — In-line pin connections.

Basic Boom — Two-piece, 18.30 m basic length: 7.60 m bottom and 10.70 m top section; 1,850 mm deep and 1,850 mm wide at connections.

Boom point machinery — Five head sheaves mounted on antifriction bearings.

Boom extensions — Optional extra; available in 3.05 m, 6.10 m and 9.15 m lengths with pendants. Maximum boom length 73.15 m.

Basic fly Jib — Optional extra; two-piece; 12.20 m basic length with 6.10 m long bottom and top sections, 760 mm deep and 910 mm wide at connections.

Fly jib extension — Optional extra; available in 6.10 m. Maximum fly jib length 24.40 m.

Boom plus fly jib length — 39.60 m + 24.40 m/64.00 m + 18.30 m (max.)

HOOK BLOCKS:

100 t with five sheaves — Optional extra.

50 t with two sheaves — Optional extra.

30 t with one sheave — Optional extra.

11 t ball hook — Optional extra.

TAGLINE WINDER:

Optional extra; for clamshell bucket job application.

Hydraulic type — mounted in front of upper revolving frame.

GANTRY:

Retractable high gantry.

DRUM DATA:

Drums	Root dia.	Type	Line Speed (Hoisting, lowering)	Cable dia.
Main hoist (Front)	530 mm	Parallel grooved	90~2 m/min.	26 mm
Aux. hoist (Rear)	530 mm	Parallel grooved	90~2 m/min.	26 mm
3rd drum	457 mm	Parallel grooved	65~4 m/min.	22.4 mm
Boom hoist	504 mm	Parallel grooved	46~2 m/min.	22.4 mm

Notes: 1. Above line speed varies with load.
2. Above line speed is based on first layer.

HOIST REEVING:

No. of parts of line	Max. load (t)									
	10	9	8	7	6	5	4	3	2	1
100 t hook	100.0	90.0	80.0	70.0	60.0	50.0	40.0	30.0	20.0	11.0
50 t hook	--	--	--	--	--	50.0	40.0	--	--	11.0
30/20 t hook	--	--	--	--	--	--	--	30.0	20.0	11.0
11 t hook	--	--	--	--	--	--	--	--	--	11.0

WORKING WEIGHT AND GROUND PRESSURE:

Shoe width	Weight	Pressure
965 mm	111.5 t	0.83 kg/cm ²

With basic boom and counterweight.

COUNTERWEIGHT:

43.5 t in total.

SAFETY DEVICES:

Hook over hoist limiting device, dual boom over hoist limiting device, boom angle indicator, boom backstops, electrically operated drum pawl lock for main/aux. and boom hoist drum, swing warning flash lamps with buzzer, fool proof shut off main hydraulic line, individual control lever locks, safe and durable non-asbestos lining, key lock mode selector switch, non-skid surfaces on roof, load moment limiter with annunciator-type overload preventing system, and optional three color percentage indicator on load weighing device.

GRADEABILITY:

30% (17°) with basic boom and counterweight.

■CRANE CAPACITIES :

Working radius (m)	Boom length (m)																		
	18.30	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95	64.00	67.05	70.10	73.15
5.0	100.0/5.1																		
5.5	100.0	90.0/5.7																	
6.0	90.8	90.0	80.0	70.0/6.7															
7.0	75.1	75.0	74.9	70.0	60.0/7.2	53.1/7.7													
8.0	60.6	61.0	60.8	60.7	60.0	52.7	50.0/8.3	42.4/8.8											
9.0	50.6	52.1	52.0	51.8	51.7	50.1	50.0	42.1	40.0/9.3	40.0/9.8									
10.0	43.4	45.4	45.3	45.1	45.0	44.8	44.6	40.8	40.0	40.0	30.0/10.3	30.0/10.9	25.0/11.4	25.0/11.9					
12.0	33.7	36.0	35.9	35.7	35.5	35.4	35.2	35.0	34.8	34.7	30.0	30.0	25.0	25.0	20.0/12.4	20.0/12.9	18.0/13.5		
14.0	27.4	29.4	29.2	29.1	28.9	28.7	28.5	28.4	28.2	28.0	27.8	27.7	25.0	25.0	20.0	20.0	18.0	16.0	15.7/14.5
16.0	22.9	24.4	24.2	24.1	23.9	23.7	23.5	23.3	23.2	23.0	22.8	22.6	22.4	22.3	20.0	20.0	18.0	16.0	14.5
18.0	21.2/17.3	21.0	20.8	20.6	20.5	20.3	20.1	19.9	19.7	19.5	19.3	19.2	19.0	18.8	18.6	18.4	16.2	15.0	13.0
20.0		19.0	18.0	17.8	17.7	17.5	17.3	17.1	16.9	16.7	16.6	16.4	16.2	16.0	15.8	15.6	15.4	13.5	11.7
22.0			15.8	15.7	15.6	15.4	15.2	15.0	14.8	14.6	14.4	14.3	14.1	13.9	13.7	13.5	13.3	12.3	10.5
24.0			15.3/22.5	13.9	13.7	13.6	13.4	13.2	13.0	12.8	12.6	12.4	12.2	12.1	11.9	11.7	11.5	11.3	9.6
26.0				13.1/25.0	12.2	12.1	11.9	11.7	11.5	11.3	11.1	10.9	10.7	10.5	10.4	10.2	10.0	9.8	8.8
28.0					11.3/27.5	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.5	9.3	9.1	9.0	8.8	8.6	8.0
30.0						9.9	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.8	7.7	7.5	7.3
32.0						9.7/30.4	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3	7.1	7.0	6.8	6.7	6.5
34.0							8.2/33.0	7.6	7.4	7.2	7.1	6.9	6.8	6.6	6.5	6.3	6.1	5.9	5.7
36.0								7.1/35.6	6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.6	5.4	5.2	5.0
38.0									6.4	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.8	4.6	4.4
40.0									6.3/38.3	5.7	5.5	5.3	5.1	4.9	4.7	4.5	4.3	4.1	3.9
42.0										5.4/40.9	5.1	4.8	4.6	4.4	4.2	4.0	3.8	3.6	3.4
44.0											4.7/43.5	4.3	4.2	3.9	3.7	3.5	3.3	3.0	2.8
46.0												3.9	3.8	3.5	3.3	3.0	2.8	2.6	
48.0												3.9/46.2	3.4	3.1	2.9	2.6	2.4		
50.0													3.3/48.8	2.8	2.5	2.3			
52.0														2.5/51.5	2.2				

Notes:

1. Capacities shown are in metric tons and are based on 78% of minimum tipping loads—over the side—with machine standing level on firm supporting surface under ideal job conditions unless marked with a shaded color (□) that indicates capacities are based on factors other than those which would cause a tipping condition. Deductions from the lifting crane capacities must be made for weight of hook block, and other suspended gear.

Kind of hook block	100 t	50 t	30 t	11 t
Weight of hook block (t)	1.4	0.9	0.73	0.4

- Gantry must be set to high position for all operating conditions.
- Capacities shown above are based on 43.5t counterweight.
- All capacities are rated for 360° swing.

■WORKING RANGES FOR CRAWLER CRANE :

