SCX800A-3
Stage IV / Tier 4f

Preliminary

SCX 800A-3

HYDRAULIC CRAWLER CRANE

Specifications & Lifting Capacities

Hoist Rope 26mm

[Limited edition with optional equipments]

HITACHI SUMITOMO

HSC

1410Ⓚ EA244

SPECIFICATIONS

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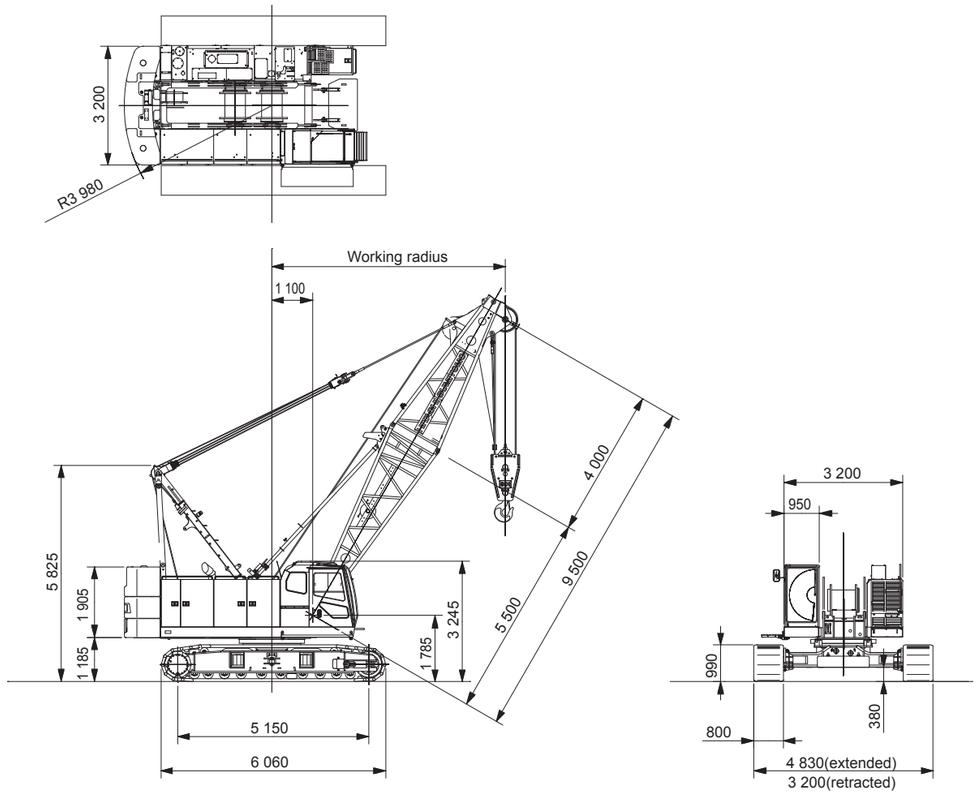
Crane Specifications

Dimensions and Specifications



Notes : The illustration includes the optional equipments and differs from the std. specification.

Crane Specifications		
Max. Lifting Load × Working Radius	t × m	80×3.3
Basic Boom Length	m	9.5
Max. Boom Length	m	54.5
Max. Crane Jib Length	m	9 to 18
Max. Boom + Jib Length	m	45.5 + 18.0
Ground Contact Pressure	kPa (kgf/cm²)	91.3 (w / Basic Boom, 80 t Hook)
Overall Operating Weight	t	Approximately 76 (w / Basic Boom, 80 t Hook)

Hook Weight	
80 t	1,050 kg
50 t	900 kg
30 t	730 kg
11 t	370 kg

NOTE : Data is expressed in SI units followed by conventional units in ( ).

Boom & Crane Jib Combination Diagram

Crane Boom Combination

Boom (1/2)

Boom Length (m)	Boom Configurations
9.5	5.5 4
12.5	5.5 3 4
15.5	★ 5.5 3 3 4 5.5 6 4
18.5	★ 5.5 3 6 4 5.5 9 4
21.5	★ 5.5 3 3 6 4 5.5 3 9 4
24.5	★ 5.5 3 3 9 4 5.5 6 9 4
27.5	★ 5.5 3 6 9(B) 4 5.5 9 9(B) 4
30.5	★ 5.5 3 3 6 9(B) 4 5.5 3 9 9(B) 4

Boom (2/2)

Boom Length (m)	Boom Configurations
33.5	★ 5.5 3 3 9 9(B) 4 5.5 6 9 9(B) 4
36.5	★ 5.5 3 6 9 9(B) 4 5.5 9 9 9(B) 4
39.5	★ 5.5 3 3 6 9 9(B) 4 5.5 3 9 9 9(B) 4
42.5	★ 5.5 3 3 9 9 9(B) 4 5.5 6 9 9 9(B) 4
45.5	★ 5.5 3 6 9 9 9(B) 4 5.5 9 9 9 9(B) 4
48.5	★ 5.5 3 3 6 9 9 9(B) 4 5.5 3 9 9 9 9(B) 4
51.5	★ 5.5 3 3 9 9 9 9(B) 4 5.5 6 9 9 9 9(B) 4
54.5	5.5 3 6 9 9 9 9(B) 4

Notes : The meanings of figures and symbols shown above are as follows:

- 5.5 : 5.5m base section
- 4 : 4.0m tapered top section
- 3 : 3.0m boom extension
- 6 : 6.0m boom extension
- 9 : 9.0m boom extension
- 9(B) : 9.0m boom extension (for use with crane jib)

A star mark(★) indicates manufacture's recommended boom configuration.

Auxiary sheave is able to attach on boom ranging from 9.5m thru 48.5m

Boom Plus Crane Jib Combination Table (Available offset angle : 10 & 30 degrees):

Boom Plus Crane Jib Combination Table (Available offset angle : 10 & 30 degrees):

Boom Length (m)		9.5	12.5	15.5	18.5	21.5	24.5	27.5	30.5	33.5	36.5	39.5	42.5	45.5	48.5	51.5	54.5
Jib Length (m)	9.0	×	×	×	×	×	×	○	○	○	○	○	○	○	×	×	×
	13.5	×	×	×	×	×	×	○	○	○	○	○	○	×	×	×	×
	18.0	×	×	×	×	×	×	○	○	○	○	○	○	×	×	×	×

(○ : possible ×: impossible)

Notes : In case that crane jib is attached, kind of boom extension should be 9m(B).

Crane Jib Combination (Available offset angle : 10 & 30 degrees):

Jib Length (m)	Jib Configurations
9.0	4.5 4.5
13.5	4.5 4.5 4.5
18.0	4.5 4.5 4.5 4.5

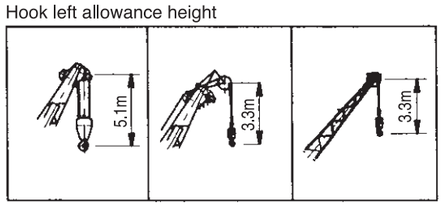
Notes : The meanings of figures and symbols shown above are as follows:

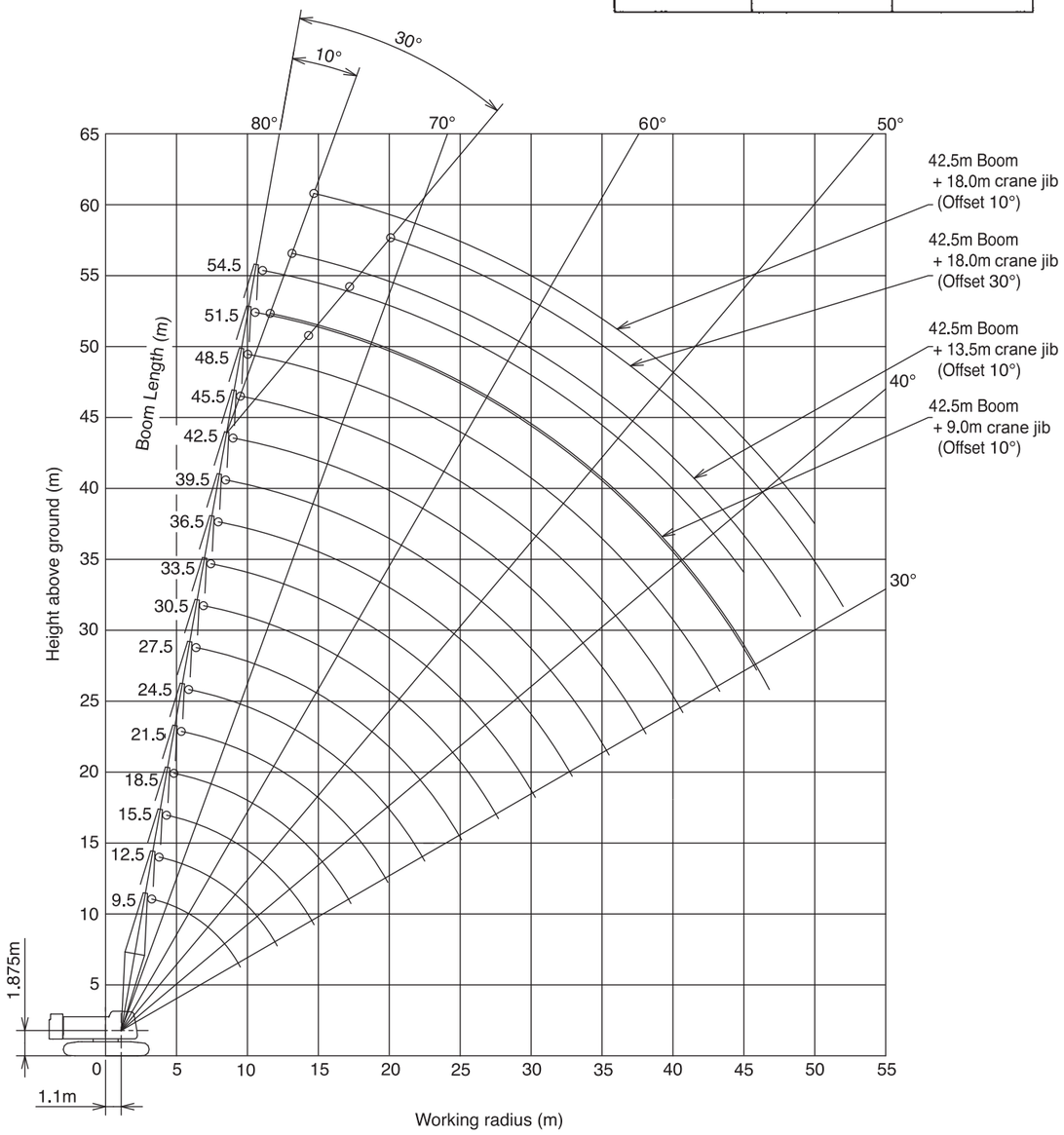
- 4.5 : 4.5m base section
- 4.5 : 4.5m top section
- 4.5 : 4.5m jib extension

Working Ranges

■ Main Boom + crane jib

Hook left allowance height





Gross Rated Load Table

■ Main Boom

Unit : ton

Working Radius(m)	Boom Length (m)															
	9.5	12.5	15.5	18.5	21.5	24.5	27.5	30.5	33.5	36.5	39.5	42.5	45.5	48.5	51.5	54.5
3.40	80.00															
3.50	76.50	70.60/3.9														
4.00	70.00	69.50														
4.50	62.30	62.15	62.00													
5.00	56.30	56.15	56.00	53.75												
5.50	51.35	51.20	50.45	48.05	44.90/5.6											
6.00	46.40	46.30	45.40	43.45	41.55	39.20/6.1	34.05/6.7									
7.00	38.65	38.60	37.80	36.35	34.95	33.70	32.50	30.45/7.2	27.05/7.8							
8.00	31.90	31.85	31.80	31.20	30.05	29.10	28.15	27.25	26.35	24.55/8.3	22.10/8.8					
9.00	27.10	27.05	26.95	26.90	26.30	25.55	24.75	24.00	23.25	22.55	21.85	19.10/9.4	17.05/9.9			
10.00	25.20/9.5	23.40	23.35	23.30	23.15	22.70	22.05	21.40	20.80	20.20	19.55	18.70	17.00	15.25/10.5	13.55/11.0	12.00/11.6
12.00		18.35	18.25	18.20	18.10	18.05	17.95	17.50	17.00	16.55	16.05	15.70	15.20	14.45	13.10	11.85
14.00		18.20/12.1	14.90	14.85	14.70	14.65	14.55	14.45	14.25	13.85	13.45	13.20	12.80	12.45	12.05	11.00
16.00			14.00/14.7	12.45	12.30	12.25	12.10	12.05	11.90	11.80	11.50	11.25	10.90	10.60	10.30	9.95
18.00				11.20/17.3	10.50	10.40	10.30	10.20	10.10	10.00	9.85	9.75	9.45	9.15	8.85	8.55
20.00					9.15/19.9	9.00	8.90	8.80	8.70	8.60	8.45	8.40	8.25	8.00	7.70	7.45
22.00						7.90	7.80	7.65	7.55	7.45	7.30	7.25	7.10	7.00	6.75	6.50
24.00						7.65/22.5	6.85	6.75	6.65	6.55	6.40	6.35	6.20	6.10	5.95	5.70
26.00							6.45/25.1	6.00	5.85	5.75	5.60	5.55	5.40	5.30	5.20	5.00
28.00								5.45/27.7	5.20	5.10	4.95	4.90	4.75	4.65	4.55	4.40
30.00									4.70	4.55	4.40	4.35	4.20	4.10	3.95	3.80
32.00									4.60/30.3	4.10	3.95	3.85	3.70	3.60	3.50	3.35
34.00										3.90/32.9	3.50	3.45	3.30	3.20	3.05	2.90
36.00											3.25/35.5	3.05	2.90	2.80	2.70	2.55
38.00												2.75	2.60	2.50	2.35	2.20
40.00												2.75/38.1	2.30	2.20	2.05	1.90
42.00													2.20/40.7	1.95	1.80	1.65
44.00														1.75/43.3	1.55	1.40
46.00															1.35/45.9	1.30/45.0

Hook Capacity (t)	Hook Weight (t)	Maximum rated loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
80	1.05	80.0	77.0	66.0	55.0	44.0	–	–	–
50	0.90	–	–	–	50.0	44.0	–	–	–
30	0.73	–	–	–	–	–	30.0	22.0	–
11	0.37	–	–	–	–	–	–	–	11.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
4. The counterweight is 28.2 t.
5. Be sure to fully extend the side frames before operating the machine.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.
7. The permissible instantaneous wind speed is 10 m/s.

Crane Jib

Unit : ton

Boom length (m)	27.5						30.5					
Jib length (m)	9		13.5		18		9		13.5		18	
Jib offset angle (°) / Working radius (m)	10	30	10	30	10	30	10	30	10	30	10	30
9.6	11.00											
10.0	11.00		10.45/11.2				11.00/10.2		10.40/11.8			
12.0	11.00	9.05/12.3	10.40		6.75/12.8		11.00	9.05/12.9	10.35		6.75/13.3	
14.0	11.00	8.65	10.15	6.90/15.3	6.65		11.00	8.80	10.15	6.95/15.8	6.70	
16.0	11.00	8.25	9.90	6.85	6.50		11.00	8.40	9.90	6.90	6.55	
18.0	10.35	7.85	9.75	6.60	6.40	4.90/18.2	10.25	8.00	9.75	6.70	6.45	4.85/18.7
20.0	8.95	7.50	9.10	6.25	6.30	4.80	8.80	7.70	9.00	6.40	6.30	4.75
22.0	7.75	7.25	7.95	6.00	6.20	4.70	7.65	7.40	7.85	6.10	6.20	4.65
24.0	6.85	6.95	7.00	5.75	6.10	4.50	6.70	6.95	6.85	5.85	6.10	4.55
26.0	6.05	6.20	6.20	5.55	5.95	4.40	5.90	6.10	6.10	5.65	6.00	4.50
28.0	5.40	5.50	5.55	5.35	5.65	4.30	5.25	5.40	5.40	5.45	5.55	4.40
30.0	4.80	4.95	4.95	5.15	5.10	4.25	4.70	4.80	4.85	5.05	4.95	4.35
32.0	4.35	4.40	4.45	4.65	4.60	4.15	4.20	4.30	4.35	4.55	4.45	4.25
34.0	3.95/33.8	3.95	4.05	4.15	4.15	4.10	3.75	3.85	3.90	4.05	4.00	4.15
36.0		3.90/34.4	3.65	3.75	3.75	3.95	3.40	3.45	3.50	3.65	3.60	3.85
38.0			3.35	3.40	3.40	3.55	3.30/36.4	3.25/37.0	3.20	3.30	3.30	3.45
40.0				3.25/38.9	3.10	3.25			2.90	2.95	2.95	3.15
42.0					2.85	2.95			2.80/40.6	2.75/41.5	2.70	2.85
44.0					2.80/42.3	2.75/43.4					2.45	2.55
46.0											2.35/44.9	2.30
48.0												
50.0												

Unit : ton

Boom length (m)	33.5					
Jib length (m)	9		13.5		18	
Jib offset angle (°) / Working radius (m)	10	30	10	30	10	30
9.6						
10.0	11.00/10.7					
12.0	11.00	9.00/13.4	10.35/12.3		6.70/13.9	
14.0	11.00	8.90	10.15		6.70	
16.0	11.00	8.50	9.90	6.90/16.3	6.60	
18.0	10.00	8.15	9.75	6.75	6.50	4.85/19.3
20.0	8.65	7.85	8.80	6.50	6.35	4.80
22.0	7.50	7.55	7.70	6.20	6.25	4.70
24.0	6.55	6.80	6.75	6.00	6.15	4.60
26.0	5.75	6.00	5.95	5.75	6.05	4.50
28.0	5.10	5.30	5.25	5.55	5.40	4.40
30.0	4.55	4.70	4.70	4.95	4.80	4.35
32.0	4.05	4.20	4.20	4.40	4.30	4.30
34.0	3.60	3.70	3.75	3.95	3.85	4.15
36.0	3.25	3.30	3.35	3.55	3.50	3.75
38.0	2.90	2.95	3.05	3.15	3.15	3.35
40.0	2.75/39.0	2.70/39.6	2.75	2.85	2.85	3.00
42.0			2.45	2.55	2.55	2.70
44.0			2.30/43.2	2.30	2.30	2.45
46.0				2.25/44.1	2.10	2.20
48.0					1.95/47.5	1.95
50.0						1.90/48.6

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
4. The counterweight is 28.2 t.
5. Be sure to fully extend the side frames before operating the machine.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.
7. The permissible instantaneous wind speed is 10 m/s.

Hook Weight

80 t Hook	1.05 t
50 t Hook	0.90 t
30 t Hook	0.73 t
11 t Hook	0.37 t

Crane Jib

Unit : ton

Boom length (m)	36.5						39.5					
Jib length (m)	9		13.5		18		9		13.5		18	
Jib offset angle (°) / Working radius (m)	10	30	10	30	10	30	10	30	10	30	10	30
11.3	11.00						11.00/11.8					
12.0	11.00		10.35/12.9				11.00		10.30/13.4			
14.0	11.00	9.00	10.15		6.70/14.4		11.00	8.95/14.5	10.15		6.70/15.0	
16.0	11.00	8.60	9.90	6.80/16.9	6.60		10.85	8.70	9.90	6.90/17.4	6.65	
18.0	9.70	8.25	9.70	6.75	6.50	4.90/19.8	9.40	8.40	9.40	6.85	6.50	
20.0	8.50	7.95	8.50	6.55	6.40	4.90	8.20	8.05	8.20	6.65	6.40	4.85/20.4
22.0	7.40	7.65	7.50	6.30	6.30	4.75	7.20	7.55	7.25	6.40	6.30	4.75
24.0	6.45	6.70	6.60	6.10	6.25	4.60	6.25	6.55	6.40	6.15	6.20	4.65
26.0	5.65	5.90	5.80	5.85	5.95	4.50	5.50	5.75	5.65	5.95	5.75	4.60
28.0	5.00	5.20	5.15	5.45	5.25	4.45	4.80	5.05	5.00	5.35	5.10	4.55
30.0	4.40	4.60	4.55	4.85	4.70	4.35	4.25	4.45	4.40	4.70	4.55	4.45
32.0	3.90	4.05	4.05	4.30	4.20	4.30	3.75	3.90	3.90	4.20	4.00	4.35
34.0	3.50	3.60	3.60	3.85	3.75	4.05	3.30	3.45	3.45	3.70	3.60	3.95
36.0	3.10	3.20	3.25	3.45	3.35	3.65	2.95	3.05	3.10	3.30	3.20	3.50
38.0	2.80	2.85	2.90	3.05	3.00	3.25	2.60	2.70	2.75	2.95	2.85	3.10
40.0	2.50	2.55	2.60	2.75	2.70	2.90	2.30	2.40	2.45	2.60	2.55	2.80
42.0	2.25/41.6	2.25	2.35	2.45	2.40	2.60	2.05	2.10	2.15	2.30	2.25	2.50
44.0		2.25/42.2	2.10	2.15	2.15	2.35	1.80	1.85	1.90	2.05	2.00	2.20
46.0			1.90/45.8	1.95	1.95	2.10	1.80/44.2	1.75/44.8	1.70	1.80	1.80	1.95
48.0				1.85/46.7	1.75	1.85			1.50	1.55	1.60	1.70
50.0					1.55	1.65			1.45/48.4	1.45/49.3	1.40	1.50
52.0					1.55/50.1	1.50/51.2					1.30/51.3	1.30

Unit : ton

Boom length (m)	42.5						45.5	
Jib length (m)	9		13.5		18		9	
Jib offset angle (°) / Working radius (m)	10	30	10	30	10	30	10	30
11.3								
12.0	11.00/12.4		9.85/13.9				10.00/12.9	
14.0	10.90	8.95/15.1	9.80		6.70/15.5		9.80	8.95/15.6
16.0	10.55	8.80	9.50		6.65		9.40	8.90
18.0	9.15	8.50	9.15	6.85	6.50		8.85	8.55
20.0	8.00	8.20	8.00	6.70	6.45	4.80/20.9	7.70	8.10
22.0	7.00	7.35	7.05	6.50	6.35	4.75	6.70	7.10
24.0	6.20	6.50	6.25	6.25	6.25	4.65	5.90	6.25
26.0	5.40	5.70	5.55	5.95	5.55	4.60	5.20	5.50
28.0	4.75	5.00	4.90	5.30	4.95	4.50	4.60	4.85
30.0	4.15	4.40	4.30	4.65	4.45	4.40	4.00	4.25
32.0	3.65	3.85	3.80	4.10	3.95	4.35	3.50	3.70
34.0	3.25	3.40	3.40	3.65	3.50	3.85	3.05	3.25
36.0	2.85	3.00	3.00	3.25	3.10	3.45	2.70	2.85
38.0	2.50	2.65	2.65	2.85	2.75	3.05	2.35	2.50
40.0	2.20	2.30	2.35	2.55	2.45	2.70	2.05	2.15
42.0	1.95	2.05	2.05	2.25	2.15	2.40	1.80	1.55
44.0	1.70	1.75	1.80	1.95	1.90	2.15	1.55	1.60
46.0	1.50	1.55	1.60	1.70	1.70	1.90	1.30	1.40
48.0	1.40/46.8	1.40/47.4	1.40	1.50	1.50	1.65		1.30/46.8
50.0			1.30/49.0	1.30	1.30	1.45		
52.0						1.30/51.5		

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
3. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
4. The counterweight is 28.2 t.
5. Be sure to fully extend the side frames before operating the machine.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.
7. The permissible instantaneous wind speed is 10 m/s.

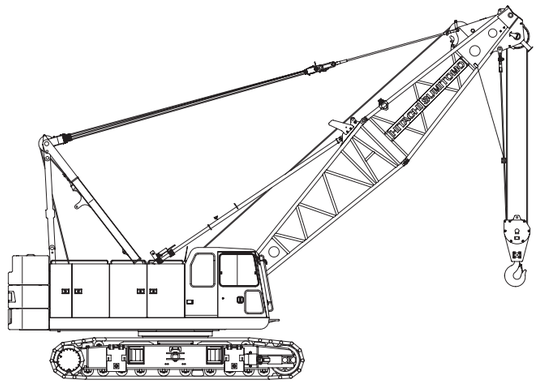
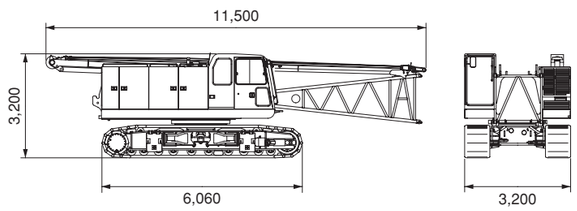
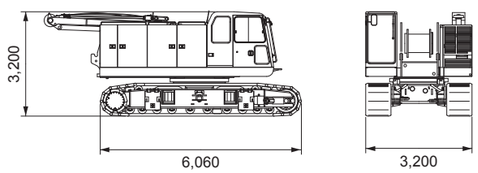
Hook Weight

80 t Hook	1.05 t
50 t Hook	0.90 t
30 t Hook	0.73 t
11 t Hook	0.37 t

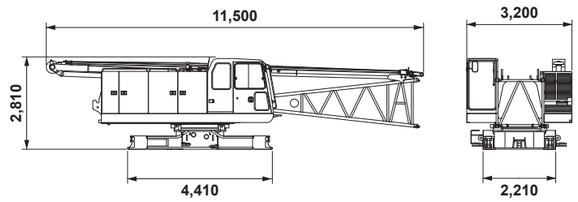
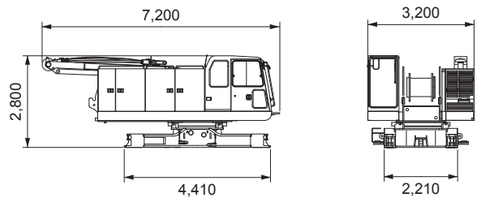
Weights and Dimensions of Disassembled Units

Weights and Dimensions List

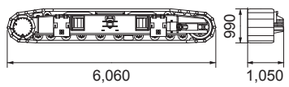
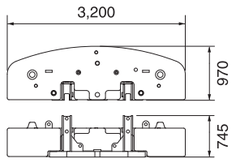
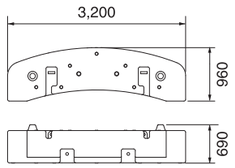
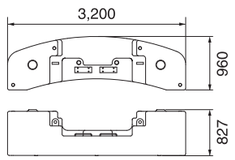
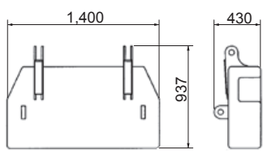
Weights and Dimensions of Disassembled Units

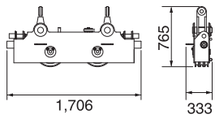
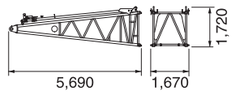
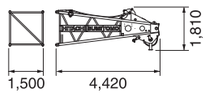
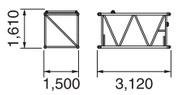
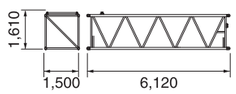
Description	Qty	Dimensions (mm)	Weight (kg)
General Arrangement (w/liftcrane att.)	1		76 700
Base machine with crane exclusive boom base, front drum wire rope, crawlers, bridle and sub weight;	1		46 100
Base machine with front drum wire rope, boom derricking drum wire rope, crawlers, bridle and sub weight;	1		44 600

Weights and Dimensions of Disassembled Units

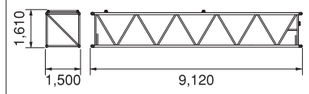
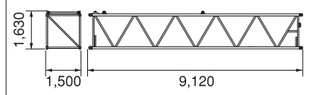
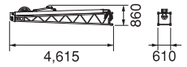
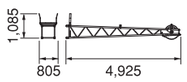
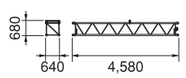
Description	Qty	Dimensions (mm)	Weight (kg)
Base machine with crane exclusive boom base, front drum wire rope, and bridle and sub weight;	1		26 800
Base machine front drum wire rope, and bridle and sub weight;	2		25 300

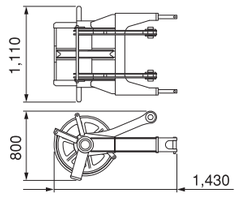
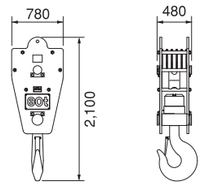
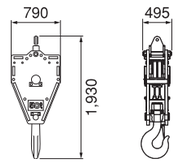
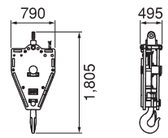
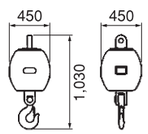
Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
Crawler side frame (Opt.)	2		7 650
Counterweight (A) (Opt.)	1		9 200
Counterweight (B) (Opt.)	1		9 100
Counterweight (C) (Opt.)	2		9 900
Lower Weight	2		2 020

Description	Qty	Dimensions (mm)	Weight (kg)
Bridle	1		285
Boom Base Section (W/backstops)	1		1 230
Boom Top Section	1	 (w/pendant ropes)	1 340
3m Boom Extension	1	 (w/out pendant ropes)	325
6m Boom Extension	1	 (w/out pendant ropes)	545

Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
9m Boom Extension	1	 (w/out pendant ropes)	750
9m(B) boom Extension	1	 (w/out pendant ropes)	755
Jib Base section (W/jib strut)	1		490
Jib Top section	1		270
4.5m Jib Extension	1		140

Description	Qty	Dimensions (mm)	Weight (kg)
Short Jib	1		370
80t Hook Block	1		1 050
50t Hook Block	1		900
30t Hook Block	1		730
11t Ball Hook	1		370

- We are constantly improving our products and therefore reserve the right to change designs and speafications without notice.
- Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.

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