C

SCA1000A
SANY CRAWLER CRANE
110 UST (100 mt) LIFTING CAPACITY

MADE FOR AMERICA

Configuration

- Page 16 H Configuration
- Page 22 FJ Configuration
- Page 28 HC Configuration

Combination

H Configuration
42.7 ft~210.0 ft
(13m~64m)

FJ Configuration
101.7 ft~170.6 ft
(31m~52m)

HC Configuration
42.7 ft~190.3 ft
(13m~58m)

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Boom Combination in H

Working Radius in H Configuration

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Unit: Klb

Load Chart of H Configuration

Note:
1. The rated load in the load chart is calculated complying with ASME B30.5;
2. The working radius is the horizontal distance from the load center to the swing center;
3. The actual lifting capacity must subtract the weight of hooks and other riggings from the rated capacity in the load chart.
4. The load value is calculated when the object is hung freely,without considering the influence of wind on the load, ground conditions and slope, operation speed and the influence of any other negative factors over safe operation. Therefore, the operator bears the responsibility of making a judgment and decreasing the load and lowering speed.
5. All ratings are calculated when the machine is parking on firm and level ground with less than 1% gradient.
6. The load value is calculated with wind speed of 32.2ft/s (9.8m/s).
7. More detailed information needs to refer to Operator Manual.
8. This note is applicable to all the following load charts.

SCA1000A - H																			
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																			
R/BL (ft)	42.7	52.5	62.3	72.2	82.0	91.9	101.7	111.5	121.4	131.2	141.1	150.9	160.7	170.6	180.4	190.3	200.0	210.0	R/BL (ft)
12.5	220.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12.5
13.0	202.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13.0
14.0	191.6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.0
15.0	182.7	177.9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15.0
16.0	170.3	165.8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	16.0
17.0	160.5	157.6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	17.0
18.0	152.5	151.9	150.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	18.0
19.0	144.3	143.2	141.6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	19.0
20.0	135.6	134.1	132.5	128.2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	20.0
21.5	121.2	120.1	119.0	117.4	113.6	–	–	–	–	–	–	–	–	–	–	–	–	–	21.5
23.0	109.8	108.7	107.8	106.9	104.7	101.7	–	–	–	–	–	–	–	–	–	–	–	–	23.0
25.0	97.3	96.5	95.6	95.0	94.1	92.4	89.9	–	–	–	–	–	–	–	–	–	–	–	25.0
26.0	92.1	91.2	90.5	89.9	89.0	88.1	86.0	64.3	–	–	–	–	–	–	–	–	–	–	26.0
30.0	75.9	75.0	74.4	74.0	73.3	72.7	72.2	71.2	69.6	68.1	–	–	–	–	–	–	–	–	30.0
33.0	66.8	65.9	65.4	65.0	64.3	63.9	63.3	62.8	62.2	61.1	59.6	–	–	–	–	–	–	–	33.0
35.0	61.8	61.1	60.6	60.2	59.5	59.1	58.6	58.0	57.5	56.8	55.9	–	–	–	–	–	–	–	35.0
36.0	59.3	58.7	58.2	57.8	57.1	56.7	56.2	55.6	55.1	54.7	54.0	52.7	51.6	–	–	–	–	–	36.0
40.0	51.9	51.2	50.8	50.5	49.9	49.5	49.0	48.6	48.1	47.7	47.3	46.9	45.9	44.8	–	–	–	–	40.0
42.5	47.8	47.2	46.7	46.3	45.9	45.4	45.0	44.5	44.1	43.9	43.2	43.0	42.6	41.7	39.9	35.3	–	–	42.5
45.0	–	44.1	43.7	43.2	42.8	42.4	41.9	41.5	41.2	40.8	40.3	39.9	39.5	38.9	38.0	34.3	–	–	45.0
46.0	–	42.9	42.5	42.0	41.6	41.1	40.7	40.3	40.0	39.6	39.2	38.7	38.3	37.8	37.2	33.9	31.3	–	46.0
50.0	–	38.5	38.3	37.8	37.4	37.0	36.6	36.1	35.9	35.4	35.0	34.6	34.3	33.7	33.4	32.2	29.6	25.3	50.0
52.5	–	36.2	35.9	35.5	35.1	34.6	34.4	33.7	33.5	33.1	32.6	32.4	32.0	31.5	31.1	30.6	28.4	23.2	52.5
55.0	–	–	34.0	33.5	33.1	32.8	32.4	31.9	31.6	31.2	30.8	30.5	30.1	29.7	29.2	28.8	27.3	22.6	55.0
59.0	–	–	30.9	30.4	30.0	29.8	29.3	28.9	28.4	28.2	27.8	27.3	27.1	26.7	26.2	25.8	25.6	21.6	59.0
60.0	–	–	–	29.9	29.4	29.2	28.8	28.3	27.9	27.7	27.2	26.8	26.6	26.1	25.7	25.2	25.0	21.3	60.0
65.0	–	–	–	27.0	26.4	26.2	25.9	25.3	25.0	24.8	24.2	23.9	23.7	23.1	22.8	22.4	22.2	19.6	65.0
70.0	–	–	–	–	23.9	23.7	23.4	22.8	22.6	22.4	21.7	21.5	21.3	20.8	20.4	20.0	19.8	17.9	70.0
75.0	–	–	–	–	21.8	21.5	21.2	20.7	20.4	20.2	19.6	19.4	19.1	18.7	18.3	17.9	17.7	16.2	75.0
78.5	–	–	–	–	20.5	20.1	19.8	19.4	19.0	18.7	18.3	18.1	17.6	17.2	17.0	16.5	16.3	15.0	78.5
80.0	–	–	–	–	–	19.6	19.4	18.9	18.5	18.3	17.8	17.6	17.2	16.8	16.5	16.0	15.8	14.5	80.0
85.0	–	–	–	–	–	18.2	17.7	17.3	17.1	16.8	16.2	16.0	15.7	15.3	14.9	14.4	14.2	12.9	85.0
90.0	–	–	–	–	–	–	16.4	15.9	15.7	15.3	14.8	14.6	14.4	13.9	13.5	13.1	12.8	11.8	90.0
95.0	–	–	–	–	–	–	15.1	14.7	14.5	14.0	13.6	13.4	13.2	12.7	12.3	11.8	11.6	10.7	95.0
98.5	–	–	–	–	–	–	14.3	13.9	13.7	13.2	12.8	12.6	12.3	11.9	11.5	11.0	10.8	9.9	98.5
100.0	–	–	–	–	–	–	–	13.6	13.4	12.9	12.5	12.3	12.0	11.6	11.2	10.7	10.5	9.6	100.0
105.0	–	–	–	–	–	–	–	12.6	12.3	11.9	11.5	11.2	11.0	10.6	10.1	9.7	9.5	8.6	105.0
110.0	–	–	–	–	–	–	–	–	11.3	11.1	10.6	10.4	10.0	9.6	9.3	8.9	8.6	7.8	110.0
115.0	–	–	–	–	–	–	–	–	10.6	10.2	9.8	9.6	9.2	8.8	8.4	8.0	7.8	6.9	115.0
118.0	–	–	–	–	–	–	–	–	10.1	9.7	9.3	9.0	8.8	8.4	7.9	7.5	7.3	6.4	118.0
120.0	–	–	–	–	–	–	–	–	–	9.4	9.0	8.8	8.5	8.0	7.7	7.2	7.0	6.1	120.0
125.0	–	–	–	–	–	–	–	–	–	8.8	8.3	8.1	7.9	7.4	7.1	6.6	6.3	5.5	125.0
130.0	–	–	–	–	–	–	–	–	–	–	7.7	7.4	7.2	6.7	6.5	5.9	5.7	4.8	130.0
135.0	–	–	–	–	–	–	–	–	–	–	–	6.9	6.5	6.1	5.9	5.3	5.1	4.2	135.0
140.0	–	–	–	–	–	–	–	–	–	–	–	6.4	5.9	5.5	5.3	4.8	4.6	3.7	140.0
145.0	–	–	–	–	–	–	–	–	–	–	–	6.0	5.5	5.0	4.8	4.3	4.1	3.2	145.0
150.0	–	–	–	–	–	–	–	–	–	–	–	–	5.1	4.7	4.3	3.8	3.6	2.7	150.0
155.0	–	–	–	–	–	–	–	–	–	–	–	–	–	4.2	3.9	3.5	3.1	2.4	155.0

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Instructions on H load chart with reduced counterweight

1. Please follow the instructions in the Operator Manual to set properly via Menu Setting–Configuration Setting–Counterweight Selection.
2. Machine rear counterweight is about 51.8Klb (23.5t), with rear counterweight tray, two left counterweight blocks, two right counterweight blocks, no carbody counterweight.

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

H load chart with reduced counterweight

SCA1000A Crawler Crane -H Configuration with less counterweight (Imperial)																
About 51.8Klb Rear Counterweight (Rear counterweight tray, two left and two right counterweight blocks) + 0Klb Carbody Counterweight																
R/BL (ft)	42.7	52.5	62.3	72.2	82.0	91.9	101.7	111.5	121.4	131.2	141.1	150.9	160.7	170.6	180.4	R/BL (ft)
13.0	198.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13.0
14.0	181.1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.0
15.0	164.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15.0
16.0	150.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	16.0
17.0	136.6	131.8	–	–	–	–	–	–	–	–	–	–	–	–	–	17.0
18.0	122.2	120.6	115.8	–	–	–	–	–	–	–	–	–	–	–	–	18.0
19.0	112.9	111.6	108.7	–	–	–	–	–	–	–	–	–	–	–	–	19.0
20.0	104.1	103.1	101.6	98.1	–	–	–	–	–	–	–	–	–	–	–	20.0
21.5	93.9	93.1	92.2	90.4	87.3	–	–	–	–	–	–	–	–	–	–	21.3
23.0	84.2	83.3	82.5	81.8	79.8	77.4	–	–	–	–	–	–	–	–	–	23.0
25.0	73.9	73.0	72.5	71.9	71.1	69.7	67.8	–	–	–	–	–	–	–	–	25.0
26.0	69.5	68.6	68.1	67.5	66.8	66.2	64.4	62.4	–	–	–	–	–	–	–	26.2
30.0	57.8	57.1	56.7	56.3	55.6	55.2	54.5	53.5	52.3	–	–	–	–	–	–	30.0
33.0	51.2	50.5	50.1	49.6	49.0	48.5	48.1	47.6	47.2	45.9	44.5	–	–	–	–	32.8
35.0	47.0	46.4	45.9	45.6	45.0	44.5	44.2	43.6	43.2	42.6	41.4	–	–	–	–	35.0
36.0	45.0	44.3	43.9	43.7	43.0	42.6	42.3	41.7	41.2	41.0	39.9	39.0	37.9	–	–	36.1
40.0	39.4	38.8	38.6	38.1	37.5	37.2	36.8	36.3	35.9	35.5	35.1	34.4	33.6	32.8	–	40.0
42.5	36.2	35.5	35.3	34.8	34.4	34.0	33.5	33.1	32.9	32.4	32.0	31.5	31.1	30.2	29.3	42.6
45.0	–	33.1	32.9	32.4	32.0	31.5	31.3	30.8	30.4	30.2	29.6	29.3	28.8	28.3	27.4	45.0
50.0	–	29.0	28.5	28.3	27.6	27.4	27.0	26.5	26.3	25.9	25.4	25.2	24.8	24.3	23.9	50.0
52.5	–	27.1	26.7	26.5	25.8	25.6	25.4	24.7	24.5	24.3	23.6	23.4	23.2	22.5	22.3	52.5
55.0	–	–	25.2	24.9	24.4	24.1	23.8	23.3	23.0	22.7	22.2	21.9	21.6	21.1	20.8	55.0
59.0	–	–	22.9	22.5	22.1	21.8	21.4	20.9	20.7	20.3	19.8	19.6	19.2	18.7	18.5	59.0
60.0	–	–	–	22.0	21.6	21.4	21.0	20.5	20.3	19.9	19.4	19.2	18.8	18.3	18.1	60.0
65.0	–	–	–	19.7	19.2	19.0	18.8	18.1	17.9	17.7	17.2	16.8	16.6	16.1	15.9	65.0
70.0	–	–	–	–	17.3	17.1	16.9	16.4	16.0	15.8	15.4	15.1	14.7	14.2	14.0	70.0
75.0	–	–	–	–	15.7	15.4	15.2	14.8	14.3	14.1	13.7	13.4	13.0	12.6	12.3	75.0
78.5	–	–	–	–	14.6	14.3	14.1	13.7	13.2	13.0	12.6	12.3	11.9	11.5	11.2	78.7
80.0	–	–	–	–	–	14.0	13.7	13.3	12.9	12.7	12.2	12.0	11.6	11.1	10.9	80.0
85.0	–	–	–	–	–	12.9	12.4	12.0	11.8	11.5	11.1	10.7	10.4	10.0	9.8	85.0
90.0	–	–	–	–	–	–	11.4	11.0	10.7	10.4	9.9	9.6	9.4	9.0	8.6	90.0
95.0	–	–	–	–	–	–	7.9	10.0	9.7	9.4	9.0	8.7	8.4	8.0	7.6	95.0
98.5	–	–	–	–	–	–	4.4	9.3	9.0	8.8	8.4	8.2	7.7	7.3	7.1	98.4
100.0	–	–	–	–	–	–	–	9.1	8.8	8.6	8.1	7.9	7.5	7.1	6.8	100.0
105.0	–	–	–	–	–	–	–	8.4	7.9	7.7	7.3	7.1	6.8	6.4	6.0	105.0
110.0	–	–	–	–	–	–	–	–	7.3	7.0	6.6	6.4	6.0	5.5	5.3	110.0
115.0	–	–	–	–	–	–	–	–	6.6	6.4	5.9	5.7	5.1	4.7	4.6	115.0
118.0	–	–	–	–	–	–	–	–	6.4	6.0	5.5	5.3	5.1	4.6	4.4	118.1
120.0	–	–	–	–	–	–	–	–	–	5.8	5.3	5.1	4.9	4.4	4.1	120.0
125.0	–	–	–	–	–	–	–	–	–	5.3	4.8	4.6	4.4	3.9	3.5	125.0
130.0	–	–	–	–	–	–	–	–	–	–	4.3	4.1	3.9	3.4	3.0	130.0
135.0	–	–	–	–	–	–	–	–	–	–	–	3.6	3.4	2.9	2.6	135.0

Boom Combination of FJ Configuration

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Working Radius in FJ Configuration

Unit: Klb

Load Chart of FJ Configuration

SCA1000A - FJ 1/4																	
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																	
R/BL (ft)	101.7								111.6								R/BL (ft)
Jib Length (ft)	29.5		44.3		59.1		73.8		29.5		44.3		59.1		73.8		Jib Length (ft)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
40	24.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	40
45	24.3	–	–	–	–	–	–	–	24.3	–	–	–	–	–	–	–	45
50	24.3	24.3	24.3	–	–	–	–	–	24.3	24.3	24.3	–	–	–	–	–	50
55	24.3	24.3	24.3	22.2	23.8	–	–	–	24.3	24.3	24.3	–	23.8	–	–	–	55
60	24.3	24.3	24.3	21.2	22.9	–	15.5	–	24.3	24.3	24.3	21.2	22.9	–	15.7	–	60
65	24.3	24.3	24.3	20.2	21.5	–	14.9	–	24.3	24.3	24.3	20.2	21.5	–	15.1	–	65
70	23.4	23.5	23.5	19.5	20.4	15.3	14.2	–	23.1	23.4	23.2	19.5	20.4	15.3	14.4	–	70
75	21.8	22.0	22.0	18.8	19.3	14.6	13.6	12.2	21.3	21.8	21.6	18.8	19.3	14.6	13.8	12.5	75
80	19.9	20.1	20.1	18.1	18.3	14.0	13.1	11.6	19.4	19.9	19.6	18.1	18.3	14.0	13.3	12.0	80
85	18.2	18.4	18.4	17.5	17.5	13.5	12.6	11.1	17.7	18.2	18.0	17.5	17.5	13.5	12.8	11.5	85
90	16.8	17.0	17.0	16.9	16.6	13.1	12.3	10.7	16.4	16.7	16.6	16.8	16.5	13.1	12.5	11.1	90
95	15.6	15.8	15.7	16.0	15.7	12.7	11.8	10.4	15.1	15.4	15.4	15.8	15.4	12.7	12.0	10.8	95
100	14.4	14.6	14.5	14.9	14.6	12.2	11.4	10.0	14.0	14.2	14.2	14.6	14.2	12.2	11.6	10.5	100
105	13.2	13.4	13.4	13.9	13.4	11.9	11.0	9.7	12.8	13.0	13.0	13.4	13.2	11.9	11.2	10.1	105
110	12.4	12.4	12.6	12.9	12.6	11.6	10.7	9.5	11.9	12.2	12.2	12.4	12.2	11.6	10.9	9.8	110
115	11.5	11.5	11.8	12.0	11.8	11.3	10.4	9.4	11.1	11.3	11.3	11.5	11.3	11.3	10.6	9.6	115
120	–	–	11.0	11.1	11.0	11.1	10.1	9.1	10.3	10.5	10.5	10.8	10.5	11.0	10.2	9.4	120
125	–	–	10.3	10.3	10.3	10.5	9.9	8.8	–	–	9.9	10.1	9.9	10.3	9.9	9.0	125
130	–	–	9.6	9.6	9.6	9.9	9.6	8.6	–	–	9.2	9.4	9.2	9.5	9.4	8.9	130
135	–	–	–	–	9.0	9.2	9.1	8.5	–	–	8.5	8.8	8.7	8.9	8.9	8.7	135
140	–	–	–	–	8.4	8.6	8.6	8.3	–	–	–	8.1	8.1	8.3	8.4	8.4	140
145	–	–	–	–	7.9	8.1	8.1	8.1	–	–	–	7.4	7.4	7.6	7.9	8.1	145
150	–	–	–	–	–	7.4	7.8	7.8	–	–	–	–	6.9	7.1	7.6	7.6	150
155	–	–	–	–	–	–	7.3	7.3	–	–	–	–	–	–	7.1	7.1	155

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Unit: Klb

Load Chart of FJ Configuration

SCA1000A - FJ 2/4																	
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																	
R/BL (ft)	121.4								131.2								R/BL (ft)
Jib Length (ft)	29.5		44.3		59.1		73.8		29.5		44.3		59.1		73.8		Jib Length (ft)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
40	24.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	40
45	24.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	45
50	24.3	24.3	24.3	–	–	–	–	–	24.3	–	–	–	–	–	–	–	50
55	24.3	24.3	24.3	–	–	–	–	–	24.3	24.3	24.3	–	–	–	–	–	55
60	24.3	24.3	24.3	21.2	22.9	–	–	–	24.3	24.3	24.3	–	22.9	–	–	–	60
65	24.3	24.3	24.3	20.2	21.5	–	–	–	24.3	24.3	24.3	–	21.5	–	–	–	65
70	22.8	23.2	22.9	19.5	20.4	–	14.6	–	22.6	22.9	22.8	19.5	20.4	–	14.8	–	70
75	21.0	21.6	21.2	18.8	19.3	14.6	14.0	–	20.7	21.1	20.9	18.8	19.3	14.6	14.3	–	75
80	19.2	19.6	19.4	18.1	18.3	14.0	13.5	12.2	18.8	19.2	19.0	18.1	18.3	14.0	13.8	12.3	80
85	17.5	17.7	17.7	17.5	17.5	13.5	13.0	11.7	17.1	17.5	17.5	17.5	17.5	13.5	13.3	11.9	85
90	16.2	16.4	16.4	16.6	16.3	13.1	12.7	11.4	15.7	16.2	16.0	16.5	16.2	13.1	12.9	11.6	90
95	14.8	15.1	15.0	15.5	15.1	12.7	12.4	11.0	14.5	14.8	14.7	15.2	14.9	12.7	12.6	11.3	95
100	13.6	14.0	13.8	14.2	14.0	12.2	12.0	10.7	13.3	13.6	13.6	14.0	13.7	12.2	12.2	10.9	100
110	11.7	11.9	11.9	12.2	12.0	11.6	11.1	10.0	11.3	11.7	11.6	12.0	11.7	11.6	11.3	10.4	110
115	10.9	11.1	11.1	11.3	11.1	11.2	10.8	9.7	10.6	10.9	10.7	11.1	10.9	11.1	10.8	10.1	115
120	10.1	10.3	10.3	10.5	10.3	10.8	10.3	9.4	9.8	10.0	9.9	10.3	10.1	10.5	10.1	9.8	120
125	9.4	9.4	9.4	9.9	9.7	10.1	9.7	9.2	9.0	9.2	9.2	9.6	9.4	9.9	9.4	9.5	125
130	8.8	8.8	8.9	9.2	9.0	9.2	9.0	9.1	8.3	8.5	8.5	8.8	8.8	9.0	8.8	9.1	130
135	8.1	8.2	8.3	8.5	8.3	8.7	8.4	8.7	7.8	7.9	8.0	8.2	8.1	8.4	8.2	8.7	135
140	5.1	5.2	7.7	7.9	7.7	8.1	7.9	8.2	7.3	7.3	7.5	7.6	7.5	7.9	7.7	8.2	140
145	–	–	7.2	7.2	7.2	7.4	7.4	7.7	6.1	6.1	7.0	7.0	7.0	7.2	7.2	7.6	145
150	–	–	6.7	6.7	6.7	6.9	6.9	7.3	–	–	6.5	6.5	6.5	6.7	6.7	7.1	150
155	–	–	–	–	6.2	6.4	6.4	6.9	–	–	6.0	6.0	6.0	6.2	6.2	6.6	155
160	–	–	–	–	5.8	5.9	6.0	6.4	–	–	–	–	5.6	5.8	5.8	6.1	160
165	–	–	–	–	–	–	5.6	5.9	–	–	–	–	5.2	5.4	5.4	5.6	165
170	–	–	–	–	–	–	5.1	5.3	–	–	–	–	4.7	4.9	4.9	5.1	170
175	–	–	–	–	–	–	–	–	–	–	–	–	–	4.6	4.6	4.8	175

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Unit: Klb

Load Chart of FJ Configuration

SCA1000A - FJ 3/4																	
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																	
R/BL (ft)	141.1								150.9								R/BL (ft)
Jib Length (ft)	29.5		44.3		59.1		73.8		29.5		44.3		59.1		73.8		Jib Length (ft)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
45	24.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	45
50	24.3	–	–	–	–	–	–	–	24.3	–	–	–	–	–	–	–	50
50	24.3	24.3	24.3	–	–	–	–	–	24.3	–	–	–	–	–	–	–	50
60	24.3	24.3	24.3	–	22.0	–	–	–	24.3	24.3	24.3	–	–	–	–	–	60
65	24.3	24.3	24.3	–	21.4	–	–	–	24.3	24.3	24.3	–	–	–	–	–	65
70	22.3	22.8	22.5	19.5	20.4	–	15.0	–	22.2	22.6	22.3	19.5	20.1	–	–	–	70
75	20.2	20.9	20.6	18.8	19.3	14.6	14.5	–	20.0	20.7	20.2	18.8	19.1	–	14.7	–	75
80	18.4	19.0	18.8	18.1	18.3	14.0	14.0	12.5	18.1	18.7	18.4	18.1	18.2	14.0	14.2	12.7	80
85	16.8	17.3	17.1	17.5	17.3	13.5	13.5	12.1	16.4	16.9	16.8	17.5	16.8	13.5	13.7	12.4	85
90	15.3	15.8	15.6	16.2	15.8	13.1	13.1	11.8	15.0	15.5	15.3	16.0	15.5	13.1	13.2	12.0	90
95	14.0	14.5	14.3	14.9	14.5	12.7	12.7	11.5	13.8	14.3	14.0	14.7	14.3	12.7	12.8	11.7	95
100	12.9	13.3	13.1	13.7	13.3	12.2	12.2	11.1	12.7	13.1	12.9	13.5	13.1	12.2	12.4	11.3	100
105	11.9	12.1	12.1	12.6	12.3	11.9	11.9	10.8	11.7	11.9	11.9	12.3	11.9	11.9	11.9	10.8	105
110	11.1	11.3	11.3	11.7	11.3	11.6	11.2	10.6	10.7	11.1	10.9	11.3	11.1	11.6	11.1	10.3	110
115	10.2	10.4	10.4	10.8	10.4	11.0	10.6	10.4	9.8	10.2	10.0	10.4	10.2	10.9	10.2	9.9	115
120	9.4	9.6	9.6	9.9	9.7	10.3	9.8	10.0	9.0	9.4	9.2	9.7	9.4	10.0	9.4	9.6	120
125	8.6	8.8	8.8	9.2	9.0	9.4	9.0	9.7	8.3	8.6	8.6	9.0	8.8	9.2	8.8	9.2	125
130	8.1	8.1	8.1	8.5	8.3	8.8	8.5	9.0	7.7	7.9	7.9	8.3	8.1	8.5	8.3	8.7	130
135	7.4	7.6	7.6	7.9	7.6	8.1	8.0	8.3	7.1	7.3	7.3	7.6	7.4	7.9	7.8	8.2	135
140	6.8	7.0	7.1	7.3	7.1	7.5	7.4	7.7	6.6	6.8	6.8	7.1	6.8	7.3	7.2	7.6	140
145	6.3	6.3	6.5	6.8	6.5	7.0	6.8	7.2	6.1	6.1	6.1	6.5	6.3	6.8	6.5	7.0	145
150	5.8	5.8	6.0	6.3	6.0	6.5	6.3	6.7	5.6	5.6	5.8	6.0	5.8	6.3	6.0	6.5	150
155	–	–	5.5	5.8	5.5	6.0	5.8	6.2	5.1	5.2	5.3	5.5	5.3	5.8	5.5	6.0	155
160	–	–	5.1	5.3	5.1	5.5	5.3	5.7	3.0	4.8	4.8	5.0	4.9	5.3	5.1	5.5	160
165	–	–	–	4.8	4.8	5.0	4.8	5.2	–	–	4.3	4.6	4.6	4.8	4.8	5.0	165
170	–	–	–	4.4	4.4	4.7	4.4	4.9	–	–	4.0	4.2	4.2	4.4	4.2	4.7	170
175	–	–	–	–	4.1	4.2	4.1	4.5	–	–	3.7	3.7	3.7	4.0	3.9	4.2	175
180	–	–	–	–	3.8	3.8	3.8	4.1	–	–	–	–	3.3	3.6	3.6	3.8	180
185	–	–	–	–	–	–	3.4	3.7	–	–	–	–	3.0	3.2	3.2	3.4	185
190	–	–	–	–	–	–	3.1	3.3	–	–	–	–	2.9	2.9	2.9	3.1	190

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Unit: Klb

Load Chart of FJ Configuration

SCA1000A - FJ 4/4																	
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																	
R/BL (ft)	160.7								170.6								R/BL (ft)
Jib Length (ft)	29.5		44.3		59.1		73.8		29.5		44.3		59.1		73.8		Jib Length (ft)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
50	24.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	50
55	24.3	–	–	–	–	–	–	–	24.3	–	–	–	–	–	–	–	55
60	24.2	24.3	24.2	–	–	–	–	–	24.2	24.3	22.8	–	–	–	–	–	60
65	24.1	24.3	23.9	–	–	–	–	–	23.7	24.3	22.3	–	–	–	–	–	65
70	21.8	22.3	22.0	19.5	19.4	–	–	–	21.5	22.2	21.1	–	18.0	–	–	–	70
75	19.7	20.2	20.0	18.8	18.5	–	14.7	–	19.4	20.0	19.5	18.8	17.6	–	15.1	–	75
80	17.9	18.3	18.1	18.1	17.4	14.0	14.2	–	17.4	18.1	17.7	18.0	17.0	14.0	14.6	–	80
85	16.2	16.6	16.4	17.2	16.6	13.5	13.9	–	15.7	16.4	16.2	16.8	16.4	13.5	14.1	–	85
90	14.8	15.3	15.0	15.8	15.3	12.8	13.6	11.6	14.4	14.9	14.7	15.5	14.9	13.1	13.6	11.4	90
95	13.6	13.9	13.8	14.5	14.0	12.5	13.0	11.3	13.1	13.6	13.4	14.1	13.6	12.7	13.1	10.9	95
100	12.4	12.7	12.7	13.3	12.9	12.2	12.4	10.9	12.0	12.4	12.2	12.9	12.5	12.2	12.5	10.5	100
105	11.2	11.7	11.7	12.1	11.7	11.9	11.7	10.4	11.0	11.2	11.2	11.9	11.5	11.9	11.5	10.1	105
110	10.4	10.7	10.7	11.1	10.8	11.4	10.8	10.0	10.0	10.4	10.2	10.9	10.4	11.1	10.6	9.8	110
115	9.6	9.9	9.8	10.2	10.0	10.7	10.0	9.7	9.1	9.6	9.3	10.0	9.6	10.2	9.8	9.5	115
120	8.8	9.2	9.0	9.4	9.2	9.8	9.2	9.4	8.3	8.7	8.6	9.2	8.8	9.4	9.0	9.1	120
125	8.1	8.3	8.3	8.8	8.3	9.0	8.6	9.0	7.7	7.9	7.9	8.3	8.1	8.8	8.3	8.8	125
135	6.9	7.1	7.0	7.4	7.1	7.6	7.3	8.0	6.5	6.7	6.7	7.0	6.8	7.3	7.1	7.8	135
140	6.3	6.5	6.4	6.8	6.6	7.1	6.8	7.4	5.9	6.1	6.1	6.4	6.2	6.8	6.5	7.2	140
145	5.7	5.9	5.9	6.3	6.1	6.5	6.3	6.8	5.4	5.4	5.4	5.9	5.7	6.1	5.9	6.5	145
150	5.4	5.4	5.4	5.8	5.6	6.0	5.8	6.3	4.9	4.9	4.9	5.4	5.2	5.6	5.4	6.0	150
155	4.9	4.9	5.0	5.3	5.1	5.5	5.3	5.8	4.4	4.6	4.6	4.9	4.7	5.1	4.9	5.5	155
160	4.5	4.5	4.6	4.8	4.7	5.0	4.9	5.3	4.0	4.2	4.2	4.4	4.2	4.6	4.4	5.0	160
165	4.1	4.1	4.1	4.3	4.3	4.6	4.5	5.0	3.6	3.7	3.7	3.9	3.9	4.1	3.9	4.5	165
170	3.6	3.8	3.8	4.0	3.8	4.2	4.0	4.5	3.1	3.3	3.3	3.6	3.6	3.8	3.6	4.0	170
175	–	–	3.5	3.5	3.5	3.7	3.7	4.1	2.8	3.0	3.0	3.2	3.1	3.5	3.2	3.7	175
180	–	–	3.1	3.1	3.1	3.3	3.3	3.7	–	–	2.7	2.9	2.7	3.1	2.9	3.3	180
185	–	–	–	–	2.8	3.0	3.0	3.2	–	–	–	–	2.4	2.7	2.6	3.0	185
190	–	–	–	–	2.4	2.7	2.7	2.9	–	–	–	–	2.2	2.2	2.2	2.7	190

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Boom Combination of HC Configuration

B	19.7 ft (6.5m) Boom base
9.8 ft (3m)	9.8 ft (3m) Insert
19.7 ft (6m)	19.7 ft (6m) Insert
29.5 ft (9m)	29.5 ft (9m) Insert
T	19.7 ft (6.5m) Boom top

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Working Radius of HC Configuration

Unit: t

Load Chart of HC Configuration

SCA1000A - HC (Using Aux. Hook)																	
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																	
R/BL (ft)	42.7	52.5	62.3	72.2	82.0	91.9	101.7	111.5	121.4	131.2	141.1	150.9	160.7	170.6	180.4	190.3	R/BL (ft)
12.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12.5
13.0	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13.1
14.0	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.0
15.0	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15.0
16.0	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	16.0
17.0	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	17.0
18.0	26.5	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	18.0
19.0	26.5	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	–	19.0
20.0	26.5	26.5	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	–	20.0
21.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	–	–	–	–	–	–	21.3
23.0	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	–	–	–	–	–	23.0
25.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	–	–	–	–	25.0
26.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	–	–	–	26.2
30.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	–	30.0
33.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	32.8
35.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	–	–	35.0
36.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	–	36.1
40.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	–	–	40.0
42.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	42.6
45.0	–	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	45.0
50.0	–	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	50.0
52.5	–	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	52.5
55.0	–	–	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.4	26.2	55.0
59.0	–	–	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.2	25.8	59.0
60.0	–	–	–	26.5	26.4	26.4	26.3	26.2	26.2	26.2	26.1	26.0	26.0	25.9	25.7	25.2	60.0
65.0	–	–	–	26.5	26.1	25.8	25.6	25.0	24.8	24.6	24.0	23.8	23.6	23.0	22.8	22.3	65.0
70.0	–	–	–	–	23.9	23.7	23.3	22.8	22.6	22.4	21.7	21.5	21.3	20.8	20.4	20.0	70.0
75.0	–	–	–	–	21.8	21.5	21.2	20.7	20.4	20.2	19.6	19.4	19.1	18.7	18.3	17.9	75.0
78.5	–	–	–	–	20.5	20.1	19.8	19.4	19.0	18.7	18.3	18.1	17.6	17.2	17.0	16.5	78.7
80.0	–	–	–	–	–	19.6	19.4	18.9	18.5	18.3	17.8	17.6	17.2	16.8	16.5	16.1	80.0
85.0	–	–	–	–	–	18.2	17.7	17.3	17.1	16.8	16.2	16.0	15.7	15.3	14.9	14.4	85.0
90.0	–	–	–	–	–	–	16.4	15.9	15.7	15.3	14.8	14.6	14.4	13.9	13.5	13.1	90.0
95.0	–	–	–	–	–	–	15.1	14.7	14.5	14.0	13.6	13.4	13.2	12.7	12.3	11.8	95.0
98.5	–	–	–	–	–	–	14.3	13.9	13.7	13.2	12.8	12.6	12.3	11.9	11.5	11.0	98.4
100.0	–	–	–	–	–	–	–	13.6	13.4	12.9	12.5	12.3	12.0	11.6	11.2	10.7	100.0
105.0	–	–	–	–	–	–	–	12.6	12.3	11.9	11.5	11.2	11.0	10.6	10.1	9.7	105.0
110.0	–	–	–	–	–	–	–	–	11.3	11.1	10.6	10.4	10.0	9.6	9.3	8.9	110.0
115.0	–	–	–	–	–	–	–	–	10.5	10.2	9.8	9.5	9.2	8.8	8.4	8.0	115.0
118.0	–	–	–	–	–	–	–	–	10.1	9.7	9.3	9.0	8.8	8.4	7.9	7.5	118.1
120.0	–	–	–	–	–	–	–	–	–	9.4	9.0	8.8	8.5	8.0	7.7	7.2	120.0
125.0	–	–	–	–	–	–	–	–	–	8.8	8.3	8.1	7.9	7.2	7.0	6.6	125.0
130.0	–	–	–	–	–	–	–	–	–	–	7.7	7.4	7.2	6.7	6.5	5.9	130.0
135.0	–	–	–	–	–	–	–	–	–	–	–	6.9	6.5	6.1	5.9	5.3	135.0
140.0	–	–	–	–	–	–	–	–	–	–	–	6.4	5.9	5.5	5.3	4.8	140.0
145.0	–	–	–	–	–	–	–	–	–	–	–	5.8	5.5	5.0	4.8	4.3	145.0
150.0	–	–	–	–	–	–	–	–	–	–	–	–	5.1	4.7	4.3	3.8	150.0
155.0	–	–	–	–	–	–	–	–	–	–	–	–	–	4.2	3.9	3.5	155.0

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Unit: Klb

Load Chart of HC Configuration

SCA1000A - HC (Using Main Hook)																	
68.8Klb Rear Counterweight + 24.3Klb Carbody Counterweight																	
R/BL (ft)	42.7	52.5	62.3	72.2	82.0	91.9	101.7	111.5	121.4	131.2	141.1	150.9	160.7	170.6	180.4	190.3	R/BL (ft)
12.5	218.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12.5
13.0	200.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13.0
14.0	189.4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.0
15.0	180.5	175.7	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15.0
16.0	168.1	163.6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	16.0
17.0	158.3	155.4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	17.0
18.0	149.9	149.5	148.2	–	–	–	–	–	–	–	–	–	–	–	–	–	18.0
19.0	142.1	141.0	139.4	–	–	–	–	–	–	–	–	–	–	–	–	–	19.0
20.0	133.7	132.2	130.6	126.3	–	–	–	–	–	–	–	–	–	–	–	–	20.0
21.5	120.4	119.3	118.2	116.4	112.5	–	–	–	–	–	–	–	–	–	–	–	21.3
23.0	107.8	106.7	105.8	105.0	102.8	99.7	–	–	–	–	–	–	–	–	–	–	23.0
25.0	94.9	94.0	93.1	92.5	91.6	90.0	87.5	–	–	–	–	–	–	–	–	–	25.0
26.0	88.6	87.8	87.1	86.4	85.6	84.9	82.9	80.5	–	–	–	–	–	–	–	–	26.2
30.0	73.8	72.9	72.3	71.8	71.2	70.5	70.1	69.1	67.5	66.0	–	–	–	–	–	–	30.0
33.0	65.0	64.2	63.7	63.3	62.6	62.2	61.5	61.1	60.4	59.3	57.8	–	–	–	–	–	32.8
35.0	59.7	59.0	58.5	58.1	57.4	57.0	56.5	55.9	55.4	54.7	53.8	–	–	–	–	–	35.0
36.0	57.1	56.4	56.0	55.6	54.9	54.5	54.0	53.4	52.9	52.5	51.8	50.5	49.4	–	–	–	36.1
40.0	49.7	49.0	48.6	48.3	47.7	47.3	46.8	46.4	45.9	45.5	45.1	44.7	43.7	42.6	–	–	40.0
42.5	45.6	45.0	44.5	44.1	43.7	43.2	42.8	42.3	41.9	41.7	41.0	40.8	40.4	39.5	37.7	33.1	42.6
45.0	–	41.9	41.5	41.1	40.6	40.2	39.7	39.3	39.0	38.6	38.1	37.7	37.3	36.7	35.8	32.1	45.0
50.0	–	36.3	36.1	35.6	35.2	34.7	34.4	33.9	33.6	33.2	32.8	32.4	32.1	31.5	31.2	29.9	50.0
52.5	–	34.0	33.7	33.3	32.9	32.4	32.2	31.5	31.3	30.9	30.4	30.2	29.8	29.3	28.9	28.4	52.5
55.0	–	–	31.8	31.3	30.9	30.6	30.2	29.7	29.4	29.0	28.6	28.3	27.9	27.5	27.0	26.6	55.0
59.0	–	–	28.7	28.2	27.8	27.6	27.1	26.7	26.2	26.0	25.6	25.1	24.9	24.5	24.0	23.6	59.0
60.0	–	–	–	27.7	27.2	27.0	26.6	26.1	25.7	25.5	25.0	24.6	24.4	23.9	23.5	23.0	60.0
65.0	–	–	–	24.8	24.2	24.0	23.7	23.1	22.8	22.6	22.0	21.7	21.5	20.9	20.6	20.2	65.0
70.0	–	–	–	–	21.7	21.5	21.2	20.6	20.4	20.2	19.5	19.3	19.1	18.6	18.2	17.8	70.0
75.0	–	–	–	–	19.6	19.3	19.0	18.5	18.2	18.0	17.4	17.2	16.9	16.5	16.1	15.7	75.0
78.5	–	–	–	–	18.3	17.9	17.6	17.2	16.8	16.5	16.1	15.9	15.4	15.0	14.8	14.3	78.7
80.0	–	–	–	–	–	17.4	17.2	16.7	16.3	16.1	15.6	15.4	15.0	14.6	14.3	13.8	80.0
85.0	–	–	–	–	–	16.0	15.5	15.1	14.9	14.6	14.0	13.8	13.5	13.1	12.7	12.2	85.0
90.0	–	–	–	–	–	–	14.2	13.7	13.5	13.1	12.6	12.4	12.2	11.7	11.3	10.9	90.0
95.0	–	–	–	–	–	–	12.9	12.5	12.3	11.8	11.4	11.2	11.0	10.5	10.1	9.6	95.0
98.5	–	–	–	–	–	–	12.1	11.7	11.5	11.0	10.6	10.4	10.1	9.7	9.3	8.8	98.4
100.0	–	–	–	–	–	–	–	11.4	11.2	10.7	10.3	10.1	9.8	9.4	9.0	8.5	100.0
105.0	–	–	–	–	–	–	–	10.4	10.1	9.7	9.3	9.0	8.8	8.4	7.9	7.5	105.0
110.0	–	–	–	–	–	–	–	–	9.1	8.9	8.4	8.2	7.8	7.4	7.1	6.6	110.0
115.0	–	–	–	–	–	–	–	–	8.3	8.0	7.6	7.3	7.0	6.6	6.2	5.8	115.0
118.0	–	–	–	–	–	–	–	–	7.9	7.5	7.1	6.8	6.6	6.2	5.7	5.3	118.1
120.0	–	–	–	–	–	–	–	–	–	7.2	6.8	6.6	6.3	5.8	5.5	5.0	120.0
125.0	–	–	–	–	–	–	–	–	–	6.6	6.1	5.9	5.7	5.0	4.8	4.4	125.0
130.0	–	–	–	–	–	–	–	–	–	–	5.5	5.2	5.0	4.5	4.3	3.7	130.0
135.0	–	–	–	–	–	–	–	–	–	–	–	4.7	4.3	3.9	3.7	3.1	135.0
140.0	–	–	–	–	–	–	–	–	–	–	–	4.2	3.7	3.3	3.1	2.6	140.0
145.0	–	–	–	–	–	–	–	–	–	–	–	3.5	3.3	2.8	–	–	145.0
150.0	–	–	–	–	–	–	–	–	–	–	–	–	2.9	2.5	–	–	150.0

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

Working Radius of HC Configuration

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.