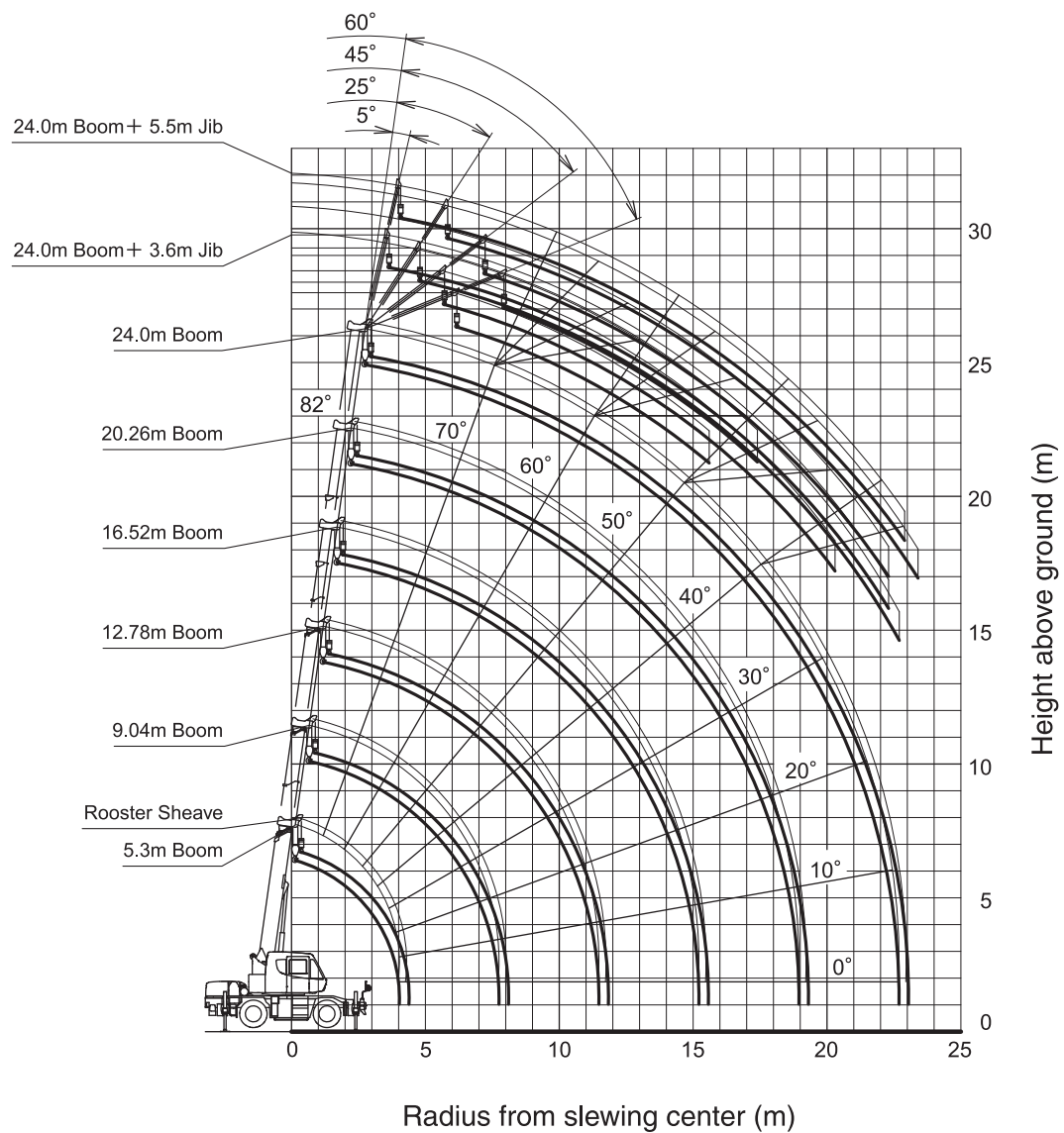
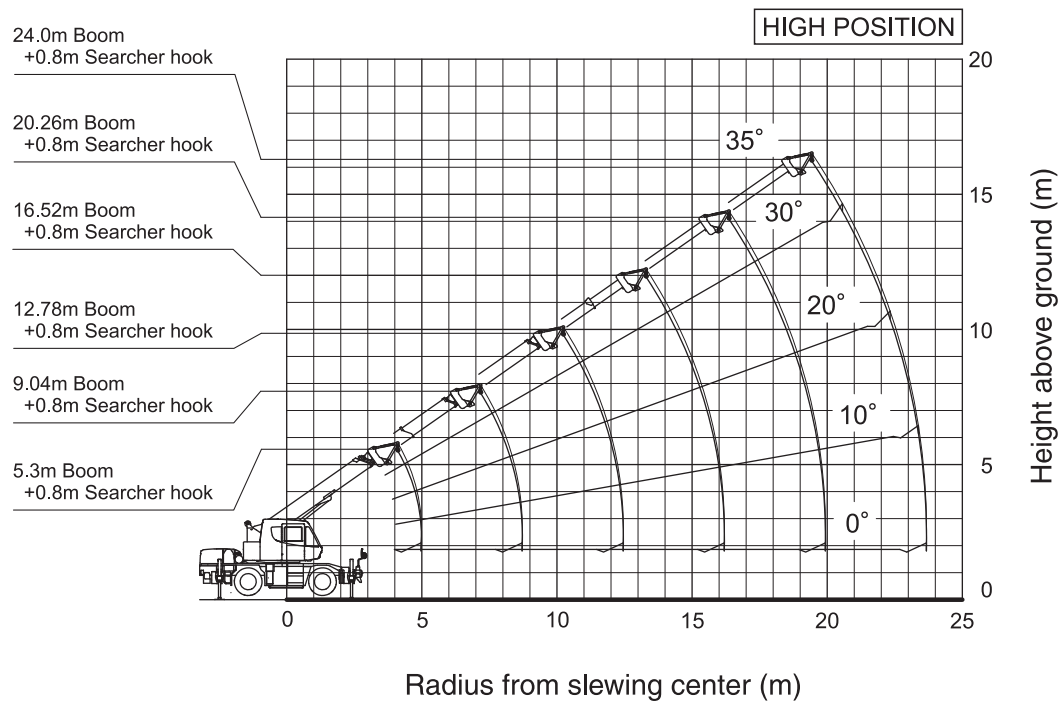




Notes:

1. This diagram does not include deflection of Boom and Jib.
2. The outriggers are fully extended.

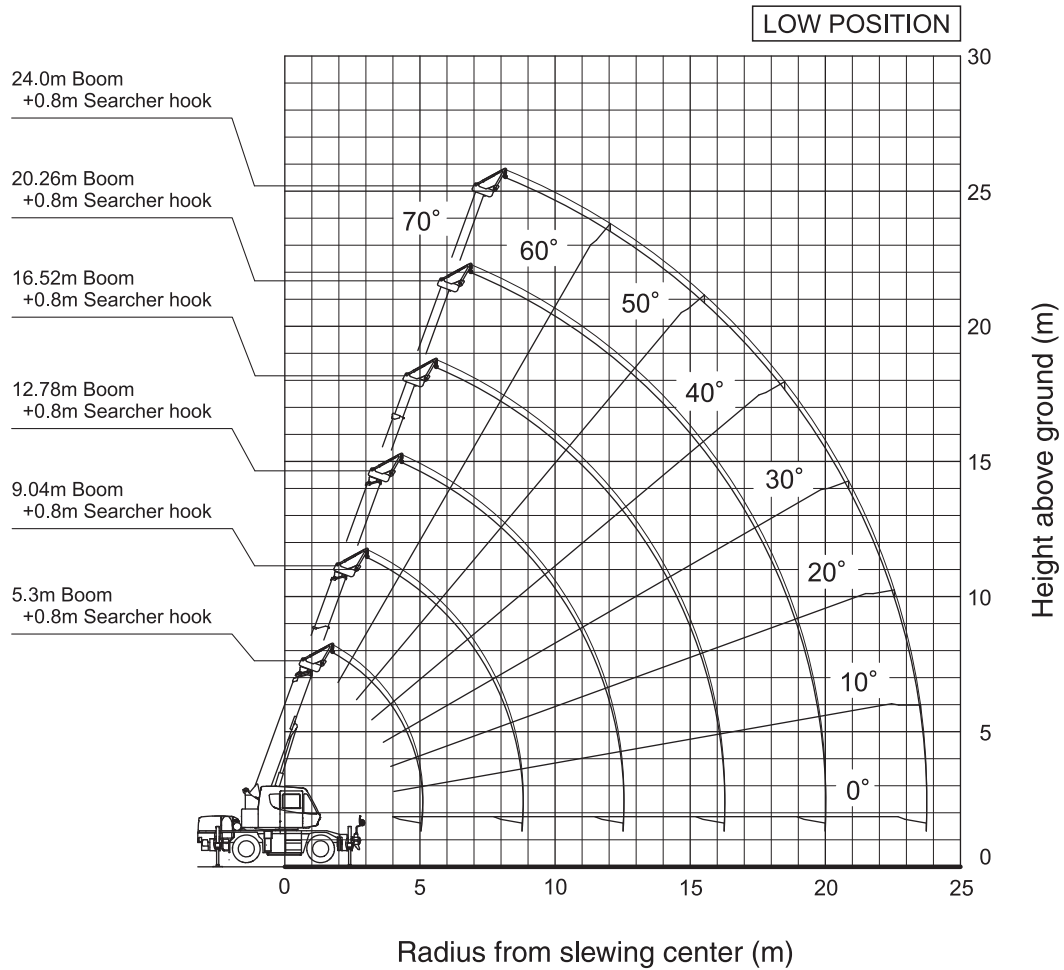
WORKING RANGE



Notes:

1. This diagram does not include deflection of Boom and Searcher hook.
2. The outriggers are fully extended.

WORKING RANGE



Notes:

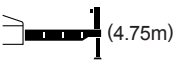
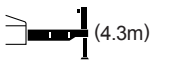
1. This diagram does not include deflection of Boom and Searcher hook.
2. The outriggers are fully extended.



RATED LIFTING CAPACITY

Based on ISO 4305
Not exceed 75% of static tipping loads

5.3m — 24.0m Boom

	 (4.75m)						 (4.3m)						 (3.7m)						 (2.7m)						 (1.64m)						
Working radius (m)	Outriggers fully extended (4.75m) - 360° full range						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.7m) - over side						Outriggers intermediately extended (2.7m) - over side						Outriggers completely retracted (1.64m) - over side (H-type outrigger only)						
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	
1.5	13.00	6.00	6.00				13.00	6.00	6.00				12.00	6.00	6.00				12.00	6.00	6.00				8.00	6.00	6.00				
1.7	13.00	6.00	6.00				13.00	6.00	6.00				12.00	6.00	6.00				12.00	6.00	6.00				7.00	6.00	6.00				
2.0	12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			5.60	5.40	5.00	4.70			
2.5	10.00	6.00	6.00	5.00			10.00	6.00	6.00	5.00			10.00	6.00	6.00	5.00			8.50	6.00	6.00	5.00			3.80	3.80	3.60	3.50			
3.0	8.20	6.00	6.00	5.00	4.70		8.20	6.00	6.00	5.00	4.70		8.20	6.00	6.00	5.00	4.70		6.00	6.00	6.00	5.00	4.70		2.80	2.80	2.70	2.70	2.60		
3.5	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	4.70	4.70	4.60	4.50	4.40	3.20	2.10	2.10	2.00	2.10	2.10	2.10	
4.0	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	3.70	3.70	3.70	3.70	3.70	3.20	1.60	1.60	1.55	1.70	1.70	1.75	
4.5		5.50	5.40	5.00	4.50	3.20		5.50	5.40	5.00	4.50	3.20		5.10	5.10	5.00	4.50	3.20		3.00	3.00	3.10	3.10	3.00		1.25	1.20	1.40	1.40	1.45	
5.0		5.00	4.90	4.60	4.05	3.20		5.00	4.90	4.60	4.05	3.20		4.40	4.40	4.50	4.05	3.20		2.40	2.40	2.60	2.70	2.70		0.95	0.95	1.10	1.20	1.25	
5.5		4.50	4.40	4.20	3.70	3.20		4.50	4.40	4.20	3.70	3.20		3.80	3.70	3.90	3.70	3.20		2.00	2.00	2.20	2.30	2.30		0.75	0.75	0.90	1.00	1.05	
6.0		4.10	4.00	3.80	3.40	3.00		4.10	4.00	3.80	3.40	3.00		3.20	3.20	3.40	3.40	3.00		1.70	1.70	1.85	2.00	2.05		0.60	0.55	0.75	0.80	0.90	
6.5		3.70	3.65	3.50	3.15	2.80		3.65	3.60	3.50	3.15	2.80		2.80	2.75	2.95	3.05	2.75		1.40	1.40	1.60	1.70	1.75		0.40	0.35	0.60	0.65	0.75	
7.0		3.35	3.30	3.20	2.90	2.60		3.20	3.15	3.20	2.90	2.60		2.40	2.35	2.55	2.70	2.50		1.20	1.20	1.40	1.50	1.55		0.25		0.45	0.55	0.60	
8.0		2.70 (7.7m)	2.90	2.70	2.50	2.25		2.65 (7.7m)	2.45	2.60	2.50	2.25		1.95 (7.7m)	1.80	2.00	2.10	2.15		0.90 (7.7m)	0.85	1.05	1.15	1.20							
9.0			2.25	2.30	2.20	1.95			1.90	2.10	2.20	1.95			1.40	1.60	1.70	1.75			0.60	0.80	0.90	0.95							
10.0			1.80	2.05	1.95	1.75			1.50	1.70	1.85	1.75			1.05	1.25	1.35	1.45			0.35	0.55	0.65	0.75							
11.0			1.45	1.70	1.75	1.55			1.20	1.40	1.55	1.55			0.80	1.00	1.10	1.20				0.40	0.50	0.60							
12.0			1.35 (11.4m)	1.40	1.50	1.40			1.10 (11.4m)	1.15	1.30	1.35			0.70 (11.4m)	0.80	0.90	1.00				0.25	0.35	0.45							
13.0				1.15	1.30	1.25				0.95	1.10	1.15				0.65	0.75	0.85					0.20	0.30							
14.0				0.95	1.10	1.15				0.80	0.90	1.00				0.50	0.60	0.70					0.20								
15.0				0.80	0.90	1.00				0.65	0.75	0.85				0.40	0.50	0.55													
16.0					0.79	0.85					0.65	0.70					0.40	0.45													
17.0					0.68	0.74					0.55	0.60					0.30	0.35													
18.0					0.58	0.64					0.45	0.50					0.30														
19.0					0.51 (18.8m)	0.55					0.35 (18.8m)	0.40																			
20.0						0.47						0.35																			
21.0						0.41						0.30																			
22.0						0.35						0.25																			
22.5						0.32																									
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23°	36°	—	—	19°	32°	44°	50°	—	20°	54°	61°	66°	70°	
Standard hook	For 13 ton						For 13 ton						For 13 ton						For 13 ton						For 13 ton						
Hook mass	90kg						90kg						90kg						90kg						90kg						
Parts of line	8	4	4	4	4	4	8	4	4	4	4	4	8	4	4	4	4	4	8	4	4	4	4	4	8	4	4	4	4	4	4

(Unit: Metric ton)

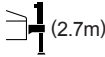


Based on ISO 4305
Not exceed 75% of static tipping loads

16.52m Boom+3.6m Jib

(4.75m)									(4.3m)									(3.7m)								
Outriggers fully extended (4.75m) - 360° full range									Outriggers intermediately extended (4.3m) over side									Outriggers intermediately extended (3.7m) over side								
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	2.9	1.60	4.1	1.50	4.9	1.00	5.3	0.65	82	2.9	1.60	4.1	1.50	4.9	1.00	5.3	0.65	82	2.9	1.60	4.1	1.50	4.9	1.00	5.3	0.65
80	3.6	1.60	4.7	1.50	5.5	1.00	5.9	0.65	80	3.6	1.60	4.7	1.50	5.5	1.00	5.9	0.65	80	3.6	1.60	4.7	1.50	5.5	1.00	5.9	0.65
75	5.2	1.60	6.3	1.48	7.1	1.00	7.4	0.65	75	5.2	1.60	6.3	1.48	7.1	1.00	7.4	0.65	75	5.2	1.60	6.3	1.48	7.1	1.00	7.4	0.65
70	6.9	1.60	7.9	1.37	8.6	0.98	8.8	0.65	70	6.9	1.60	7.9	1.37	8.6	0.98	8.8	0.65	70	6.9	1.60	7.9	1.37	8.6	0.98	8.8	0.65
65	8.5	1.60	9.4	1.25	9.9	0.96	10.1	0.65	65	8.5	1.60	9.4	1.25	9.9	0.96	10.1	0.65	65	8.5	1.60	9.4	1.25	9.9	0.96	10.1	0.65
60	10.0	1.50	10.8	1.15	11.3	0.95	11.4	0.65	60	10.0	1.50	10.8	1.15	11.3	0.95	11.4	0.65	60	10.0	1.40	10.8	1.15	11.3	0.95	11.4	0.65
55	11.4	1.34	12.1	1.07	12.5	0.94			55	11.4	1.34	12.1	1.07	12.5	0.94			55	11.4	1.04	12.1	0.97	12.5	0.93		
50	12.7	1.22	13.3	1.01	13.6	0.93			50	12.7	1.11	13.3	1.01	13.6	0.93			50	12.7	0.78	13.3	0.75	13.6	0.72		
45	14.0	1.08	14.5	0.95	14.6	0.92			45	13.9	0.88	14.5	0.84	14.6	0.84			45	13.9	0.60	14.5	0.56	14.6	0.57		
40	15.0	0.90	15.5	0.86					40	15.0	0.71	15.5	0.68					40	15.0	0.46	15.5	0.44				
35	16.1	0.74	16.3	0.74					35	16.0	0.58	16.3	0.58					35	16.0	0.34	16.3	0.33				
30	16.8	0.65	17.1	0.64					30	16.8	0.48	17.1	0.47					30	16.8	0.24	17.0	0.24				
25	17.5	0.56	17.7	0.56					25	17.5	0.41	17.7	0.40					25	17.5	0.19	17.7	0.18				
20	18.0	0.50							20	18.0	0.35							Critical boom angle	24°	24°	44°	44°	59°	59°		
15	18.5	0.45							15	18.5	0.31															
10	18.7	0.43							10	18.7	0.29							Hook mass	25kg							
5	18.9	0.41							5	18.9	0.27							Parts of line	1							
Critical boom angle	4°		24°		44°		59°		Critical boom angle	4°		24°		44°		59°										
Standard hook	For 1.8 ton								Standard hook	For 1.8 ton																
Hook mass	25kg								Hook mass	25kg																
Parts of line	1								Parts of line	1																

16.52m Boom+3.6m Jib

 (2.7m)								
Outriggers intermediately extended (2.7m) over side								
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	2.9	1.60	4.1	1.50	4.9	1.00	5.3	0.65
80	3.6	1.60	4.7	1.50	5.5	1.00	5.9	0.65
75	5.2	1.60	6.3	1.48	7.1	1.00	7.4	0.65
70	6.9	1.60	7.9	1.37	8.6	0.98	8.8	0.65
65	8.5	1.08	9.4	0.95	9.9	0.90	10.1	0.65
60	10.0	0.71	10.8	0.64	11.2	0.63	11.4	0.60
55	11.3	0.47	12.1	0.42	12.5	0.41		
50	12.6	0.27	13.3	0.24	13.6	0.24		
Critical boom angle	49°		49°		49°		59°	
Standard hook	For 1.8 ton							
Hook mass	25kg							
Parts of line	1							

16.52m Boom+5.5m Jib

(4.75m)									(4.3m)								
Outriggers fully extended (4.75m) - 360° full range									Outriggers intermediately extended (4.3m) over side								
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	3.3	1.00	5.1	1.00	6.4	0.65	7.0	0.40	82	3.3	1.00	5.1	1.00	6.4	0.65	7.0	0.40
80	4.0	1.00	5.8	1.00	7.1	0.65	7.6	0.40	80	4.0	1.00	5.8	1.00	7.1	0.65	7.6	0.40
75	5.8	1.00	7.6	0.90	8.7	0.63	9.2	0.40	75	5.8	1.00	7.6	0.90	8.7	0.63	9.2	0.40
70	7.7	1.00	9.2	0.81	10.2	0.60	10.6	0.40	70	7.7	1.00	9.2	0.81	10.2	0.60	10.6	0.40
65	9.5	1.00	10.9	0.74	11.7	0.58	11.9	0.40	65	9.5	1.00	10.9	0.74	11.7	0.58	11.9	0.40
60	11.1	0.99	12.3	0.69	13.1	0.56	13.2	0.40	60	11.1	0.99	12.3	0.69	13.1	0.56	13.2	0.40
55	12.7	0.91	13.7	0.64	14.3	0.55			55	12.7	0.91	13.7	0.64	14.3	0.55		
50	14.1	0.81	15.1	0.61	15.5	0.55			50	14.1	0.81	15.1	0.61	15.5	0.55		
45	15.4	0.75	16.3	0.59	16.5	0.55			45	15.4	0.75	16.3	0.59	16.5	0.55		
40	16.6	0.69	17.3	0.57					40	16.6	0.62	17.3	0.57				
35	17.7	0.65	18.2	0.56					35	17.7	0.51	18.2	0.49				
30	18.6	0.56	19.0	0.55					30	18.6	0.42	18.9	0.41				
25	19.4	0.47	19.6	0.47					25	19.4	0.34	19.6	0.34				
20	19.9	0.43							20	19.9	0.29						
15	20.4	0.38							15	20.4	0.25						
10	20.6	0.36							10	20.6	0.23						
5	20.8	0.34							5	20.8	0.21						
Critical boom angle	4°		24°		44°		59°		Critical boom angle	4°		24°		44°		59°	
Standard hook	For 1.8 ton								Standard hook	For 1.8 ton							
Hook mass	25kg								Hook mass	25kg							
Parts of line	1								Parts of line	1							

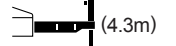
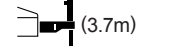
16.52m Boom+5.5m Jib

 (3.7m)								 (2.7m)									
Outriggers intermediately extended (3.7m) over side								Outriggers intermediately extended (2.7m) over side									
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	3.3	1.00	5.1	1.00	6.4	0.65	7.0	0.40	82	3.3	1.00	5.1	1.00	6.4	0.65	7.0	0.40
80	4.0	1.00	5.8	1.00	7.1	0.65	7.6	0.40	80	4.0	1.00	5.8	1.00	7.1	0.65	7.6	0.40
75	5.8	1.00	7.6	0.90	8.7	0.63	9.2	0.40	75	5.8	1.00	7.6	0.90	8.7	0.63	9.2	0.40
70	7.7	1.00	9.2	0.81	10.2	0.60	10.6	0.40	70	7.7	1.00	9.2	0.81	10.2	0.60	10.6	0.40
65	9.5	1.00	10.9	0.74	11.7	0.58	11.9	0.40	65	9.4	0.95	10.9	0.74	11.7	0.58	11.9	0.40
60	11.1	0.99	12.3	0.69	13.1	0.56	13.2	0.40	60	11.1	0.62	12.3	0.55	13.1	0.51	13.2	0.40
55	12.7	0.90	13.7	0.64	14.3	0.55			55	12.6	0.40	13.7	0.36	14.3	0.33		
50	14.1	0.68	15.1	0.61	15.5	0.55			50	14.0	0.23	15.1	0.20	15.5	0.19		
45	15.4	0.52	16.3	0.48	16.5	0.48			Critical boom angle	49°		49°		49°		59°	
40	16.6	0.38	17.3	0.37					Standard hook	For 1.8 ton							
35	17.6	0.28	18.1	0.28					Hook mass	25kg							
30	18.5	0.21	18.9	0.20					Parts of line	1							
Critical boom angle	29°		29°		44°		59°										
Standard hook	For 1.8 ton																
Hook mass	25kg																
Parts of line	1																



Based on ISO 4305
Not exceed 75% of static tipping loads

24.0m Boom + 3.6m Jib

 (4.75m)									 (4.3m)									 (3.7m)								
Outriggers fully extended (4.75m) - 360° full range									Outriggers intermediately extended (4.3m) over side									Outriggers intermediately extended (3.7m) over side								
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65	82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65	82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65	80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65	80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65
75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65	75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65	75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65
70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65	70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65	70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65
65	12.3	1.05	13.1	0.88	13.6	0.77	13.8	0.65	65	12.3	1.05	13.1	0.88	13.6	0.77	13.8	0.65	65	12.2	0.90	13.1	0.77	13.6	0.77	13.8	0.65
60	14.3	0.90	15.1	0.76	15.6	0.70	15.6	0.65	60	14.3	0.87	15.1	0.76	15.6	0.70	15.6	0.65	60	14.2	0.59	15.0	0.54	15.5	0.54	15.5	0.54
55	16.3	0.72	17.0	0.64	17.4	0.64			55	16.2	0.60	16.9	0.55	17.3	0.53			55	16.0	0.37	16.8	0.33	17.2	0.33		
50	18.1	0.57	18.7	0.51	18.9	0.53			50	18.0	0.43	18.6	0.41	18.8	0.40			50	17.8	0.20	18.5	0.18	18.7	0.18		
45	19.7	0.42	20.4	0.40	20.3	0.40			45	19.6	0.30	20.2	0.27	20.3	0.27			Critical boom angle	49°		49°		49°		59°	
40	21.1	0.30	21.6	0.29					40	21.0	0.19	21.5	0.18						Standard hook	For 1.8 ton						
35	22.3	0.22	22.7	0.20					Critical boom angle	39°		39°		44°		59°		Hook mass		25kg						
										Standard hook	For 1.8 ton						Parts of line		1							
Critical boom angle	34°		34°		44°		59°																			
Standard hook	For 1.8 ton																									
Hook mass	25kg																									
Parts of line	1																									

24.0m Boom + 3.6m Jib

 (2.7m)								
Outriggers intermediately extended (2.7m) over side								
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65
75	7.8	1.20	8.7	1.05	9.5	0.93	9.6	0.65
70	10.0	0.72	10.9	0.65	11.5	0.62	11.7	0.56
65	11.9	0.41	12.9	0.35	13.4	0.34	13.6	0.33
Critical boom angle	64°		64°		64°		64°	
Standard hook	For 1.8 ton							
Hook mass	25kg							
Parts of line	1							

24.0m Boom + 5.5m Jib

 (4.75m)									 (4.3m)								
Outriggers fully extended (4.75m) - 360° full range									Outriggers intermediately extended (4.3m) over side								
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40	82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40
80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40	80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40
75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40	75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40
70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40	70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40
65	13.4	0.81	14.7	0.61	15.6	0.52	15.6	0.40	65	13.4	0.81	14.7	0.61	15.6	0.52	15.6	0.40
60	15.6	0.69	16.8	0.55	17.5	0.48	17.4	0.40	60	15.5	0.69	16.8	0.55	17.5	0.48	17.4	0.40
55	17.7	0.58	18.8	0.49	19.3	0.45			55	17.6	0.54	18.7	0.49	19.2	0.45		
50	19.6	0.49	20.5	0.44	20.8	0.41			50	19.5	0.38	20.4	0.36	20.7	0.35		
45	21.2	0.38	22.0	0.36	22.3	0.36			45	21.0	0.27	21.8	0.25	22.1	0.25		
40	22.9	0.26	23.4	0.26					Critical boom angle	44°		44°		44°		59°	
Critical boom angle	39°		39°		44°		59°		Critical boom angle	44°		44°		44°		59°	
Standard hook	For 1.8 ton								Standard hook	For 1.8 ton							
Hook mass	25kg								Hook mass	25kg							
Parts of line	1								Parts of line	1							

24.0m Boom + 5.5m Jib

 (3.7m)									 (2.7m)									
Outriggers intermediately extended (3.7m) over side									Outriggers intermediately extended (2.7m) over side									
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40	82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40	
80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40	80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40	
75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40	75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40	
70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40	70	10.8	0.66	12.3	0.55	13.3	0.48	13.6	0.40	
65	13.4	0.75	14.7	0.61	15.6	0.52	15.6	0.40	65	12.9	0.36	14.4	0.30	15.3	0.26			
60	15.4	0.52	16.7	0.45	17.5	0.42	17.4	0.40	Critical boom angle	64°		64°		64°		69°		
55	17.4	0.31	18.6	0.28	19.1	0.28			Standard hook	For 1.8 ton								
50	18.5	0.22	19.5	0.21	20.0	0.20			Hook mass	25kg								
Critical boom angle	51°		51°		51°		59°		Parts of line	1								
Standard hook	For 1.8 ton																	
Hook mass	25kg																	
Parts of line	1																	



RATED LIFTING CAPACITY

■ When outriggers are not used

													
Working radius (m)	Stationary on rubber						Pick & carry (less than 2km/h)						Working radius (m)
	5.30m Boom		9.04m Boom		12.78m Boom		5.30m Boom		9.04m Boom		12.78m Boom		
	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	
1.5	3.60	2.80	3.60	2.80	3.60	2.80	3.20	2.00	3.20	2.00	3.20	2.00	1.5
2.0	3.40	2.80	3.40	2.80	3.40	2.80	3.00	2.00	3.00	2.00	3.00	2.00	2.0
2.5	3.10	2.15	3.10	2.10	3.10	2.05	2.80	1.55	2.75	1.50	2.65	1.45	2.5
3.0	2.65	1.60	2.60	1.55	2.55	1.50	2.40	1.10	2.30	1.05	2.20	1.00	3.0
3.5	2.30	1.25	2.20	1.20	2.10	1.10	2.00	0.85	1.90	0.75	1.80	0.65	3.5
4.0	2.00	0.90	1.90	0.80	1.70	0.70	1.70	0.60	1.65	0.50	1.50	0.40	4.0
4.5			1.60	0.50	1.40	0.40			1.40	0.30	1.25		4.5
5.0			1.30		1.10				1.15		1.00		5.0
5.5			1.10		0.95				0.95		0.85		5.5
6.0			0.90		0.80				0.80		0.70		6.0
7.0			0.50		0.50				0.45		0.45		7.0
Critical boom angle	—	—	26°	54°	52°	66°	—	—	26°	54°	52°	68°	Critical boom angle
Standard hook	For 13 ton						For 13 ton						Standard hook
Hook mass	90kg						90kg						Hook mass
Parts of line	4						4						Parts of line

(Unit: Metric ton)



RATED LIFTING CAPACITY searcher hook are used

Based on ISO 4305
Not exceed 75% of static tipping loads

5.3m — 24.0m Boom

LOW POSITION

	(4.75m)						(4.3m)						(3.7m)						(2.7m)						(1.64m)					
Working radius (m)	Outriggers fully extended (4.75m) - 360° full range						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.7m) - over side						Outriggers intermediately extended (2.7m) - over side						Outriggers completely retracted (1.64m) - over side (H-type outrigger only)					
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom
1.8	3.00						3.00						3.00						3.00						3.00					
2.0	3.00						3.00						3.00						3.00						3.00					
2.5	3.00						3.00						3.00						3.00						2.77					
3.0	3.00						3.00						3.00						3.00						2.16					
3.5	3.00	3.00					3.00	3.00					3.00	3.00					3.00	3.00					1.72	1.35				
4.0	3.00	3.00					3.00	3.00					3.00	3.00					3.00	2.85					1.41	1.05				
4.5	3.00	3.00	3.00				3.00	3.00	3.00				3.00	3.00	3.00				2.75	2.40	2.05				1.17	0.87	0.65			
5.0	3.00	3.00	3.00				3.00	3.00	3.00				3.00	3.00	3.00				2.29	2.05	1.75				0.99	0.70	0.55			
5.5	3.00 (5.1m)	3.00	3.00				3.00 (5.1m)	3.00	3.00				3.00 (5.1m)	3.00	2.90				2.21 (5.1m)	1.76	1.51				0.95 (5.1m)	0.56	0.42			
6.0		3.00	3.00	3.00				3.00	3.00	3.00				2.84	2.54	2.50			1.52	1.30	1.30				0.44	0.32	0.35			
6.5		3.00	3.00	3.00				3.00	2.95	2.90				2.46	2.23	2.20			1.33	1.12	1.15				0.34	0.22	0.30			
7.0		3.00	3.00	3.00	2.90			2.77	2.62	2.60	2.55			2.15	1.98	1.99	1.95		1.16	0.97	1.02	1.00			0.25					
8.0		2.57	2.49	2.54	2.50			2.17	2.10	2.13	2.10			1.69	1.58	1.62	1.60		0.89	0.73	0.79	0.80								
9.0		2.18 (8.75m)	2.00	2.12	2.10	1.95		1.84 (8.75m)	1.68	1.77	1.77	1.70		1.42 (8.75m)	1.27	1.33	1.34	1.30		0.72 (8.75m)	0.53	0.61	0.65	0.65						
10.0			1.63	1.76	1.78	1.75			1.37	1.49	1.50	1.45			1.02	1.10	1.12	1.10		0.35	0.47	0.50	0.50							
11.0			1.34	1.47	1.53	1.52			1.11	1.24	1.28	1.28			0.80	0.91	0.94	0.95		0.20	0.35	0.39	0.41							
12.0			1.11	1.24	1.31	1.32			0.91	1.04	1.10	1.10			0.63	0.76	0.79	0.81			0.25	0.30	0.32							
13.0			1.01 (12.45m)	1.06	1.13	1.15			0.83 (12.45m)	0.87	0.94	0.96			0.56 (12.45m)	0.62	0.67	0.69				0.20	0.25							
14.0				0.89	0.97	1.02				0.73	0.81	0.83				0.50	0.56	0.58												
15.0				0.76	0.83	0.89				0.61	0.69	0.73				0.40	0.47	0.50												
16.0				0.64	0.72	0.77				0.51	0.58	0.63				0.32	0.39	0.42												
17.0				0.63 (16.1m)	0.62	0.67				0.50 (16.1m)	0.50	0.55				0.31 (16.1m)	0.30	0.35												
18.0					0.54	0.58					0.42	0.47					0.25	0.29												
19.0					0.46	0.50					0.35	0.40					0.20	0.24												
20.0					0.40 (19.8m)	0.44					0.30 (19.8m)	0.34						0.19												
21.0						0.38						0.29																		
22.0						0.33						0.24																		
23.0						0.28						0.20																		
23.5						0.26																								
24.0																														
Critical boom angle	—	—	—	—	—	—	—	—	—	—	13°	—	—	—	—	15°	32°	—	—	26°	41°	48°	56°	—	35°	58°	63°			

(Unit: Metric ton)

HIGH POSITION

	(4.75m)						(4.3m)						(3.7m)						(2.7m)						(1.64m)						
Working radius (m)	Outriggers fully extended (4.75m) - 360° full range						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.7m) - over side						Outriggers intermediately extended (2.7m) - over side						Outriggers completely retracted (1.64m) - over side (H-type outrigger only)						
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	
1.8																															
2.0																															
2.5																															
3.0																															
3.5																															
4.0	3.00 (4.2m)						3.00 (4.2m)						3.00 (4.2m)						3.00 (4.2m)								1.25 (4.2m)				
4.5	3.00						3.00						3.00						2.69								1.13				
5.0	3.00 (4.95m)						3.00 (4.95m)						3.00 (4.95m)						2.30 (4.95m)								0.98 (4.95m)				
5.5																															
6.0																															
6.5																															
7.0	3.00 (7.2m)								2.55 (7.2m)						2.00 (7.2m)				1.05 (7.2m)												
8.0	2.54								2.14						1.66				0.86												
9.0		2.19 (8.7m)							1.84 (8.7m)						1.42 (8.7m)				0.71 (8.7m)												
10.0			1.50 (10.3m)						1.25 (10.3m)						0.90 (10.3m)				0.30 (10.3m)												
11.0			1.32						1.09						0.76				0.24												
12.0			1.10						0.89						0.62																
13.0			1.00 (12.45m)	0.95 (13.4m)					0.81 (12.45m)	0.75 (13.4m)					0.55 (12.45m)	0.55 (13.4m)															
14.0				0.87						0.71						0.49															
15.0				0.74						0.60						0.39															
16.0				0.63 (16.4m)	0.65 (16.4m)					0.50 (16.4m)	0.50 (16.4m)					0.31 (16.4m)	0.35 (16.4m)														
17.0				0.61 (16.2m)	0.61					0.48 (16.2m)	0.48					0.29 (16.2m)	0.30														
18.0					0.52						0.41						0.25														
19.0					0.45 (19.5m)						0.34 (19.5m)	0.35 (19.5m)					0.19														
20.0					0.39 (19.9m)	0.43					0.29 (19.9m)	0.33																			
21.0						0.37						0.28																			
22.0						0.32						0.23																			
23.0						0.27						0.19																			
23.5						0.26																									
24.0						0.24 (23.6m)																									
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	11°	—	—	—	—	13°	—	—	—	23°	—	—	—	—	—	—	—	—	—	—



LIFTING CAPACITIES searcher hook are used with boom extendable/retractable

Based on ISO 4305
Not exceed 75% of static tipping loads

5.3m — 24.0m Boom

LOW POSITION

	(4.75m)						(4.3m)						(3.7m)						(2.7m)						(1.64m)							
Working radius (m)	Outriggers fully extended (4.75m) - 360° full range						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.7m) - over side						Outriggers intermediately extended (2.7m) - over side						Outriggers completely retracted (1.64m) - over side (H-type outrigger only)							
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom		
1.8	3.00						3.00						3.00						3.00						3.00							
2.0	3.00						3.00						3.00						3.00						3.00							
2.5	3.00						3.00						3.00						3.00						2.77							
3.0	3.00						3.00						3.00						3.00						2.16							
3.5	3.00	3.00					3.00	3.00					3.00	3.00					3.00	3.00					1.72	1.35						
4.0	3.00	3.00					3.00	3.00					3.00	3.00					3.00	2.85					1.41	1.05						
4.5	3.00	3.00	3.00				3.00	3.00	3.00				3.00	3.00	3.00				2.75	2.40	2.05				1.17	0.87	0.65					
5.0	3.00	3.00	3.00				3.00	3.00	3.00				3.00	3.00	3.00				2.29	2.05	1.75				0.99	0.70	0.55					
5.5	3.00 (5.1m)	3.00	3.00				3.00 (5.1m)	3.00	3.00				3.00 (5.1m)	3.00	2.90				2.21 (5.1m)	1.76	1.51				0.95 (5.1m)	0.56	0.42					
6.0		3.00	2.85	3.00				3.00	2.85	3.00				2.84	2.54	2.50			1.52	1.30	1.30					0.44	0.32	0.35				
6.5		3.00	2.70	3.00				3.00	2.70	2.90				2.46	2.23	2.20			1.33	1.12	1.15					0.34	0.22	0.30				
7.0		3.00	2.60	3.00	2.90			2.77	2.60	2.60	2.55			2.15	1.98	1.99	1.95		1.16	0.97	1.02	1.00				0.25						
8.0		2.57	2.40	2.54	2.50			2.17	2.10	2.13	2.10			1.69	1.58	1.62	1.60		0.89	0.73	0.79	0.80										
9.0		2.18 (8.75m)	1.95	2.12	2.10	1.70		1.84 (8.75m)	1.68	1.77	1.77	1.70		1.42 (8.75m)	1.27	1.33	1.34	1.30	0.72 (8.75m)	0.53	0.61	0.65	0.65									
10.0			1.50	1.76	1.78	1.60			1.37	1.49	1.50	1.45			1.02	1.10	1.12	1.10		0.35	0.47	0.50	0.50									
11.0			1.08	1.47	1.53	1.45			1.08	1.24	1.28	1.28			0.80	0.91	0.94	0.95		0.20	0.35	0.39	0.41									
12.0			0.70	1.24	1.31	1.19			0.70	1.04	1.10	1.10			0.63	0.76	0.79	0.81			0.25	0.30	0.32									
13.0			0.51 (12.45m)	1.06	1.13	1.02			0.51 (12.45m)	0.87	0.94	0.96			0.51 (12.45m)	0.62	0.67	0.69				0.20	0.25									
14.0				0.89	0.97	0.88				0.73	0.81	0.83				0.50	0.56	0.58														
15.0				0.76	0.83	0.76				0.61	0.69	0.73				0.40	0.47	0.50														
16.0				0.64	0.72	0.66				0.51	0.58	0.63				0.32	0.39	0.42														
17.0				0.63 (16.1m)	0.62	0.58				0.50 (16.1m)	0.50	0.55				0.31 (16.1m)	0.30	0.35														
18.0					0.54	0.50					0.42	0.47					0.25	0.29														
19.0					0.46	0.44					0.35	0.40					0.20	0.24														
20.0					0.40 (19.8m)	0.38					0.30 (19.8m)	0.34						0.19														
21.0						0.32						0.29																				
22.0						0.27						0.24																				
23.0						0.22						0.20																				
23.5						0.19																										
24.0																																
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	13°	—	—	—	—	15°	32°	—	—	26°	41°	48°	56°	—	35°	58°	63°	—	—	—	

(Unit: Metric ton)

HIGH POSITION

	(4.75m)						(4.3m)						(3.7m)						(2.7m)						(1.64m)						
Working radius (m)	Outriggers fully extended (4.75m) - 360° full range						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.7m) - over side						Outriggers intermediately extended (2.7m) - over side						Outriggers completely retracted (1.64m) - over side (H-type outrigger only)						
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom	
1.8																															
2.0																															
2.5																															
3.0																															
3.5																															
4.0	3.00 (4.2m)						3.00 (4.2m)						3.00 (4.2m)						3.00 (4.2m)								1.25 (4.2m)				
4.5	3.00						3.00						3.00						2.69								1.13				
5.0	3.00 (4.95m)						3.00 (4.95m)						3.00 (4.95m)						2.30 (4.95m)								0.98 (4.95m)				
5.5																															
6.0																															
6.5																															
7.0		3.00 (7.2m)						2.55 (7.2m)						2.00 (7.2m)					1.05 (7.2m)												
8.0		2.54						2.14						1.66					0.86												
9.0		2.19 (8.7m)						1.84 (8.7m)						1.42 (8.7m)					0.71 (8.7m)												
10.0			1.40 (10.3m)						1.25 (10.3m)						0.90 (10.3m)					0.30 (10.3m)											
11.0			1.10						1.09						0.76					0.24											
12.0			0.62						0.62						0.62																
13.0			0.42 (12.45m)	0.95 (13.4m)					0.42 (12.45m)	0.75 (13.4m)					0.42 (12.45m)	0.55 (13.4m)															
14.0				0.87						0.71						0.49															
15.0				0.74						0.60						0.39															
16.0				0.63 (16.4m)	0.65 (16.4m)					0.50 (16.4m)	0.50 (16.4m)					0.31 (16.4m)	0.35 (16.4m)														
17.0				0.61 (16.2m)	0.61					0.48 (16.2m)	0.48					0.29 (16.2m)	0.30														
18.0					0.52						0.41						0.25														
19.0					0.45 (19.5m)	0.40 (19.5m)					0.34 (19.5m)	0.35 (19.5m)					0.19														
20.0					0.39 (19.9m)	0.38					0.29 (19.9m)	0.33																			
21.0						0.32						0.28																			
22.0						0.27						0.23																			
23.0						0.21						0.19																			
23.5						0.18																									
24.0						0.17 (23.6m)																									
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	11°	—	—	—	—	13°	—	—	—	23°	—	—	—	—	—	—	—	—	—	—



Based on ISO 4305
Not exceed 75% of static tipping loads

RATED LIFTING CAPACITY searcher hook are used

■ When outriggers are not used

LOW POSITION

Working radius (m)	Stationary on rubber					Pick & carry (less than 2km/h)					Working radius (m)
	5.30m Boom		9.04m Boom		12.78m Boom	5.30m Boom		9.04m Boom		12.78m Boom	
	Over front	360° full range	Over front	360° full range	Over front	Over front	360° full range	Over front	360° full range	Over front	
1.8	3.00	3.00				3.00	2.30				1.8
2.0	3.00	3.00				3.00	2.30				2.0
2.5	3.00	2.45				3.00	1.85				2.5
3.0	3.00	1.90				2.65	1.40				3.0
3.5	2.60	1.55	2.40	1.30		2.25	1.10	2.10	0.95		3.5
4.0	2.30	1.20	2.10	1.00		1.95	0.90	1.75	0.70		4.0
4.5	2.00	0.85	1.80	0.70	1.60	1.70	0.65	1.50	0.50	1.35	4.5
5.0	1.70	0.50	1.50		1.30	1.40		1.30		1.10	5.0
5.5			1.30		1.15			1.10		0.95	5.5
6.0			1.10		1.00			0.95		0.80	6.0
7.0			0.70		0.70			0.65		0.55	7.0
8.0											8.0
9.0											9.0
13.0											13.0
16.0											16.0
17.0											17.0
Critical boom angle	—	—	35°	58°	54°	—	26°	35°	58°	54°	Critical boom angle

(Unit: Metric ton)

HIGH POSITION

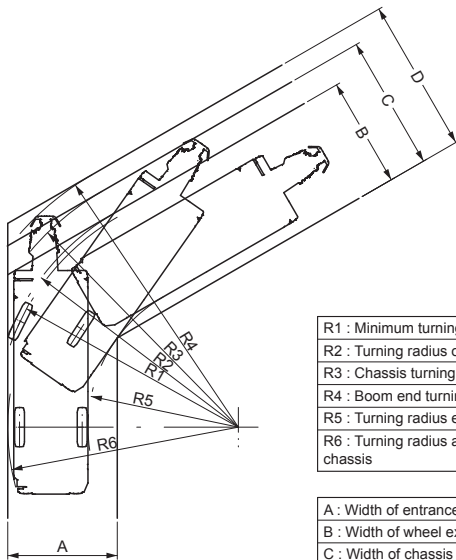
Working radius (m)	Stationary on rubber					Pick & carry (less than 2km/h)					Working radius (m)
	5.30m Boom		9.04m Boom		12.78m Boom	5.30m Boom		9.04m Boom		12.78m Boom	
	Over front	360° full range	Over front	360° full range	Over front	Over front	360° full range	Over front	360° full range	Over front	
1.8											1.8
2.0											2.0
2.5											2.5
3.0											3.0
3.5											3.5
4.0	2.15 (4.2m)	1.05 (4.2m)				1.70 (4.2m)	0.65 (4.2m)				4.0
4.5	2.00	0.85				1.55	0.55				4.5
5.0	1.70 (4.95m)	0.5 (4.95m)				1.40 (4.95m)	0.45 (4.95m)				5.0
5.5											5.5
6.0											6.0
7.0			0.80 (7.2m)					0.55 (7.2m)			7.0
8.0			0.50					0.40			8.0
9.0											9.0
13.0											13.0
16.0											16.0
17.0											17.0
Critical boom angle	—	—	16°			—	—	16°			Critical boom angle

(Unit: Metric ton)

Minimum path width

● 60°

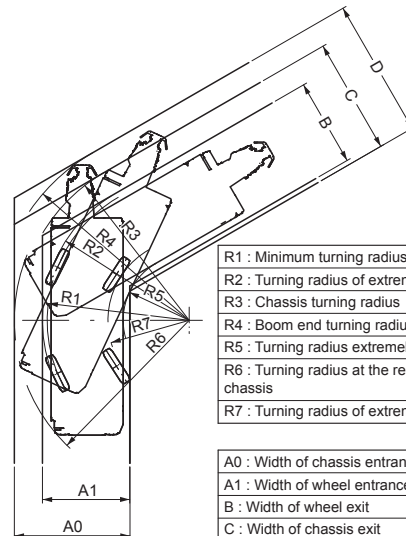
Right turn in two-wheel steering mode



R1 : Minimum turning radius	6.50m
R2 : Turning radius of extremely outer tire	6.64m
R3 : Chassis turning radius	7.31m
R4 : Boom end turning radius	7.83m
R5 : Turning radius extremely chassis inner	4.03m
R6 : Turning radius at the rear end of the chassis	6.19m

A : Width of entrance	2.94m
B : Width of wheel exit	2.94m
C : Width of chassis exit	3.61m
D : Width of exit at end of boom	4.13m

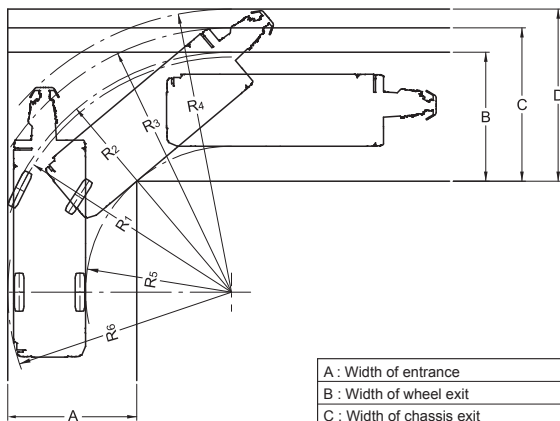
Right turn in 4-wheel steering mode



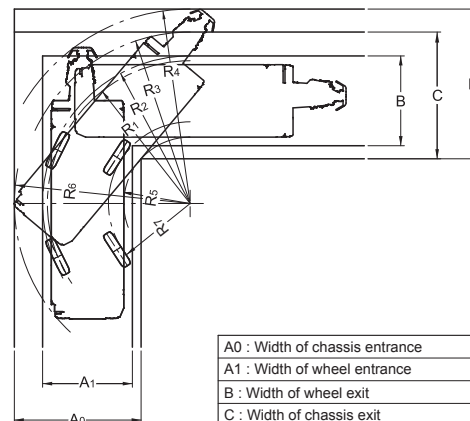
R1 : Minimum turning radius	3.92m
R2 : Turning radius of extremely outer tire	4.06m
R3 : Chassis turning radius	4.71m
R4 : Boom end turning radius	5.34m
R5 : Turning radius extremely chassis inner	1.82m
R6 : Turning radius at the rear end of the chassis	4.83m
R7 : Turning radius of extremely inner tire	2.25m

A0 : Width of chassis entrance	3.20m
A1 : Width of wheel entrance	2.41m
B : Width of wheel exit	2.41m
C : Width of chassis exit	3.20m
D : Width of exit at end of boom	3.83m

● 90°

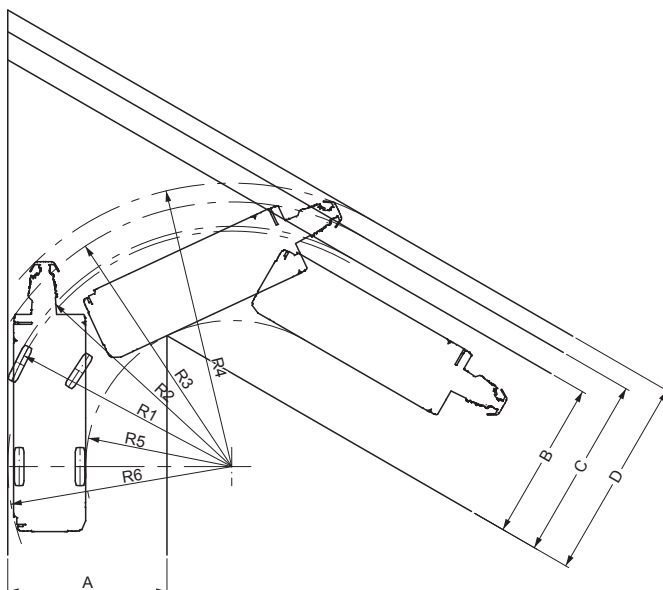


A : Width of entrance	3.57m
B : Width of wheel exit	3.57m
C : Width of chassis exit	4.24m
D : Width of exit at end of boom	4.76m

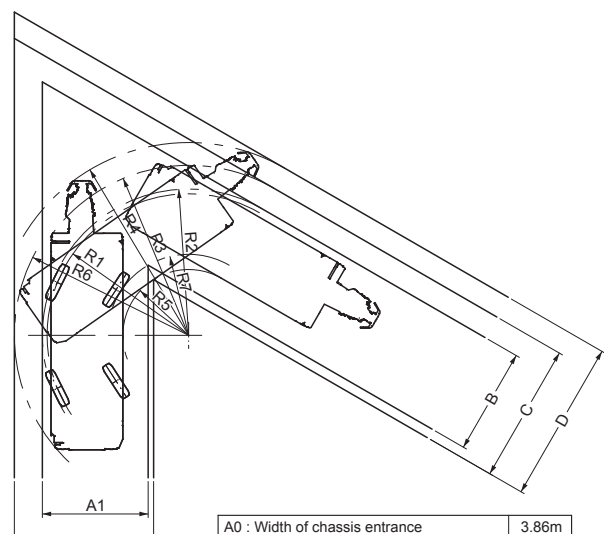


A0 : Width of chassis entrance	3.49m
A1 : Width of wheel entrance	2.47m
B : Width of wheel exit	2.47m
C : Width of chassis exit	3.49m
D : Width of exit at end of boom	4.12m

● 120°



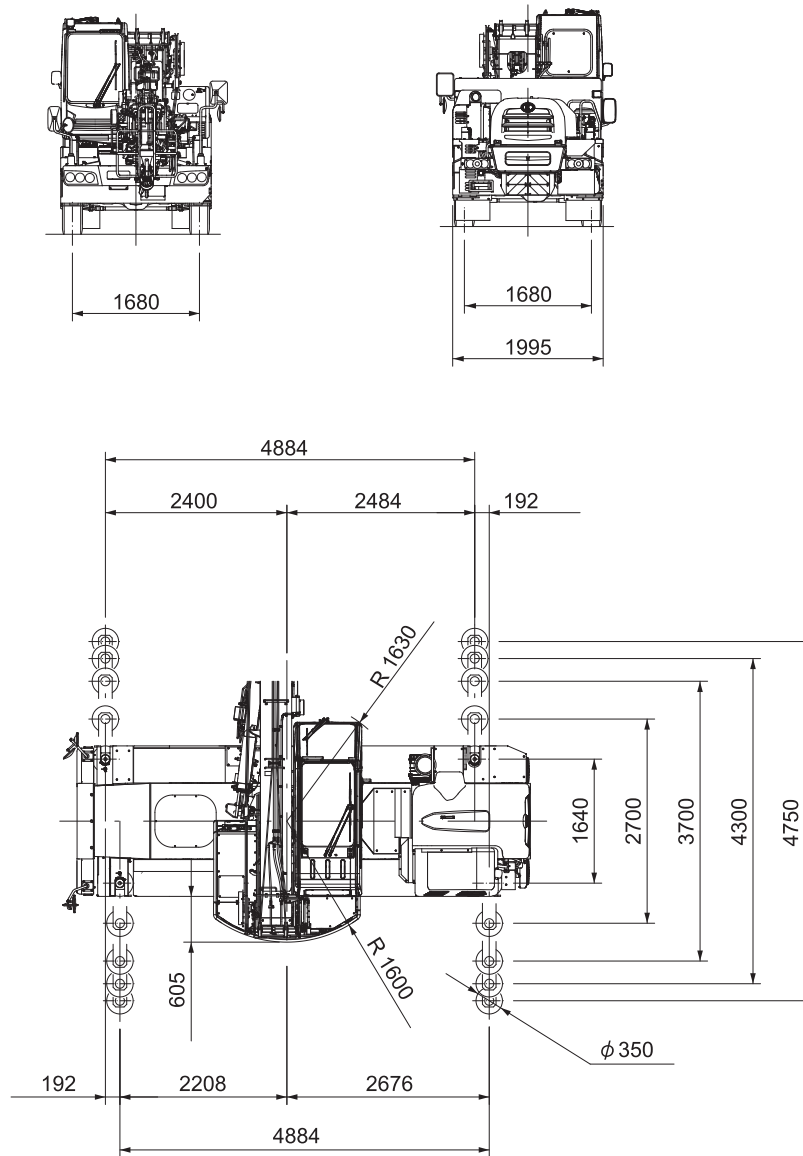
A : Width of entrance	4.40m
B : Width of wheel exit	4.40m
C : Width of chassis exit	5.07m
D : Width of exit at end of boom	5.59m



A0 : Width of chassis entrance	3.86m
A1 : Width of wheel entrance	2.94m
B : Width of wheel exit	2.94m
C : Width of chassis exit	3.86m
D : Width of exit at end of boom	4.49m

Note: The above values are based on calculations.

Overall view



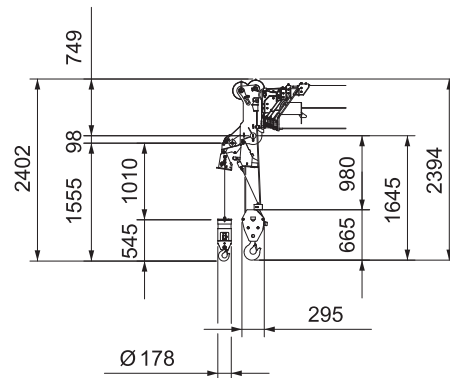
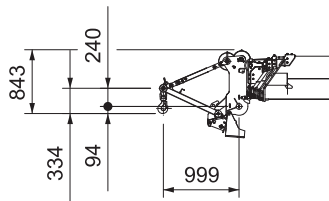
Reduced scale: 1/100 Unit (mm)

* : Indicates the dimension when the boom is horizontal

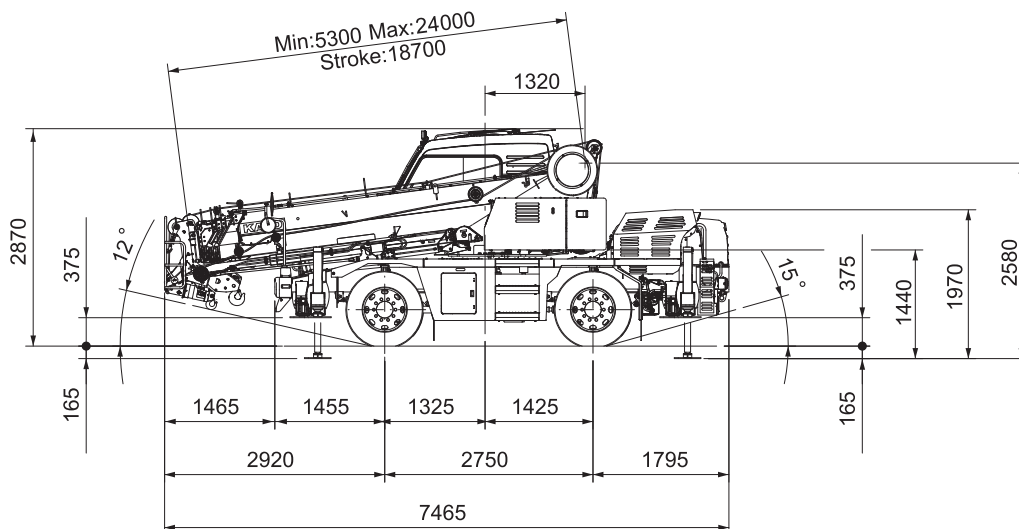
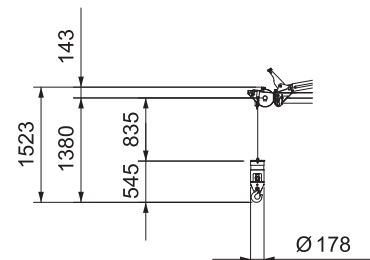
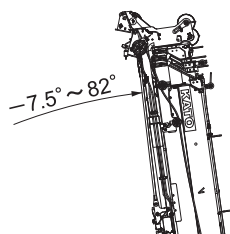
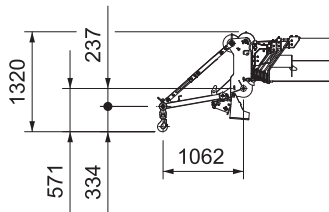
Overall view

Searcher hook (option)

High position



Low position



Ramp break over angle: 23°

When the suspension is locked, the height shall be the overall height: - 30 mm.
(Suspension cylinder completely retracted)

Reduced scale: 1/100 Unit (mm)

* KATO products and specifications are subject to improvements and changes without notice.

Address inquiries to:

KATO

KATO WORKS CO.,LTD.

9-37, Higashi-ohi 1-chome, Shinagawa-ku, Tokyo, 140-0011, Japan

Tel. : Head Office Tokyo (03) 3458-1111

Overseas Marketing Department. Tokyo (03) 3458-1115

Fax. : Tokyo (03) 3458-1152

URL <http://www.kato-works.co.jp>

C04801

4.2018-1000 (TI) 1