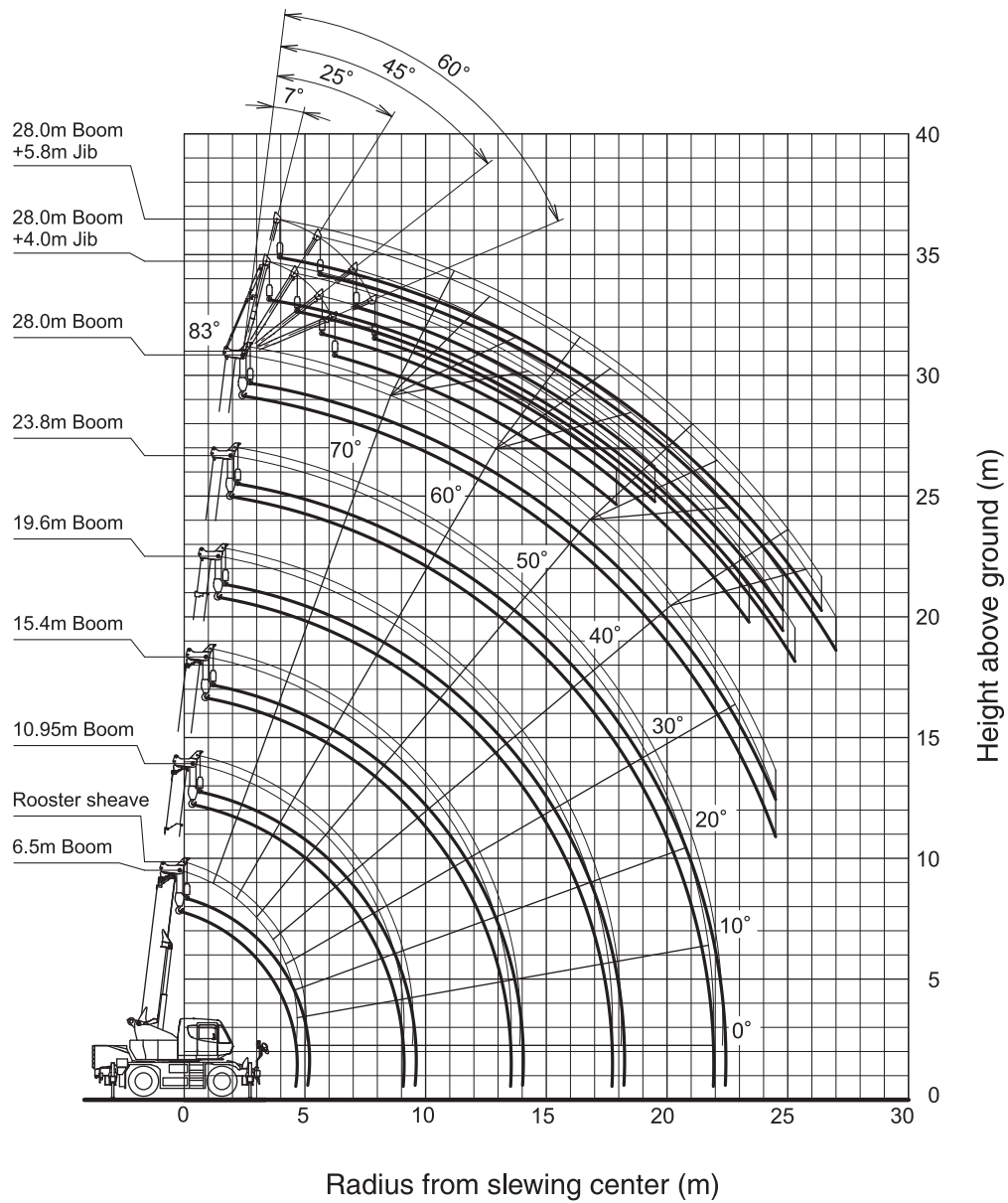
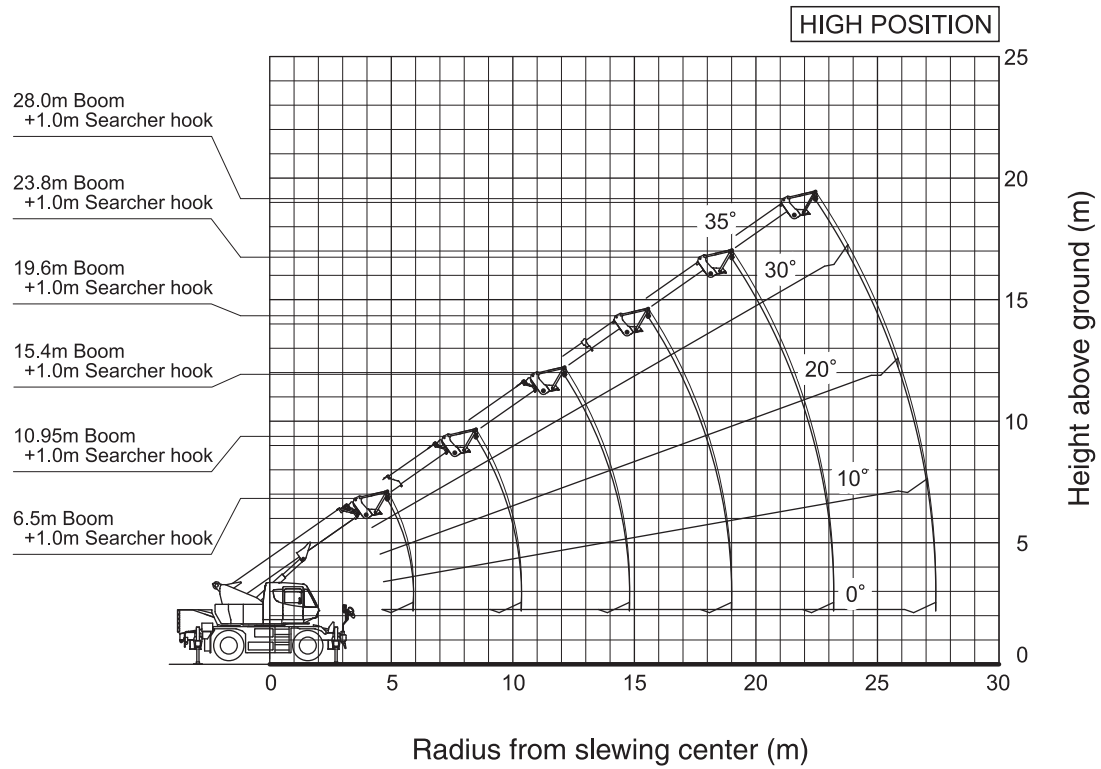


WORKING RANGE



Notes:

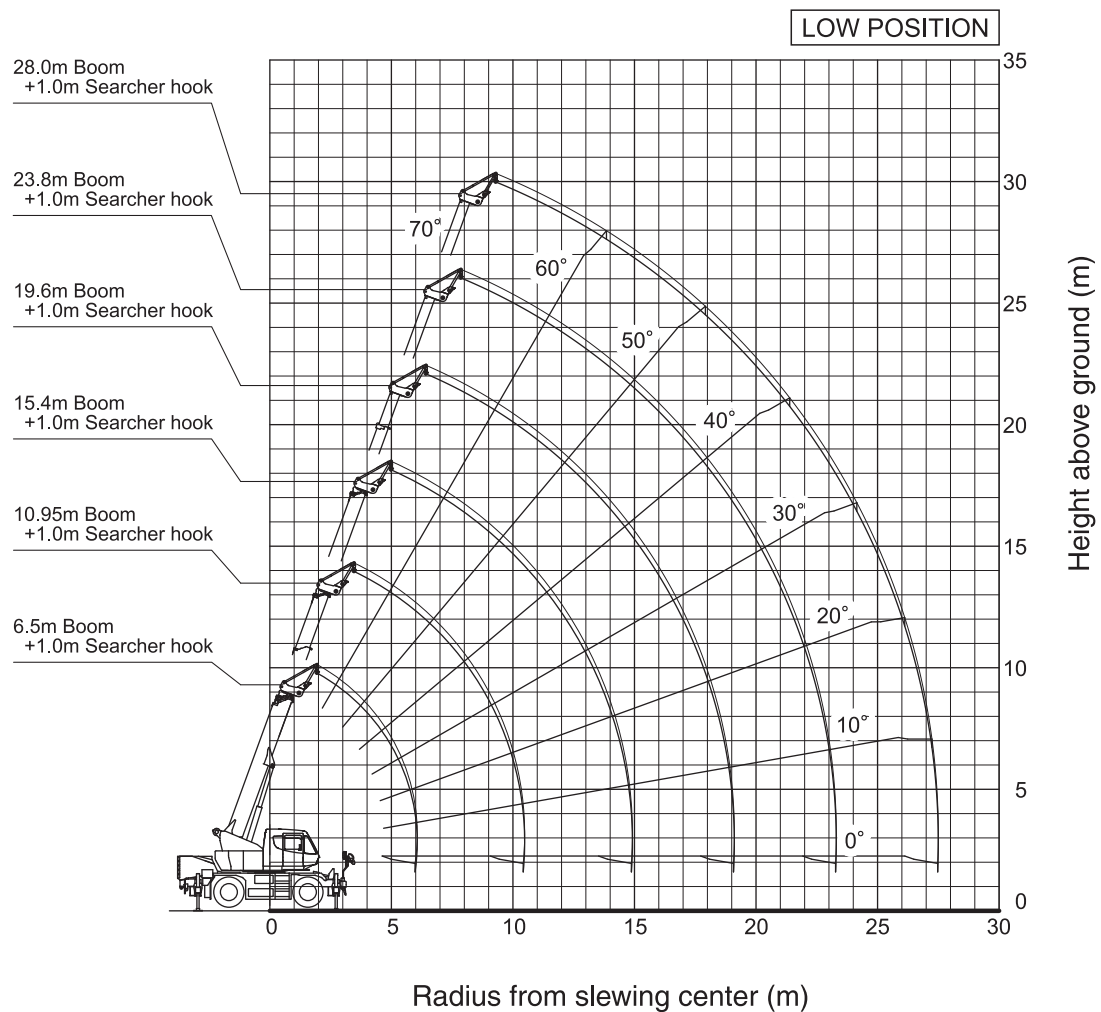
1. This diagram does not include deflection of Boom and Jib.
2. The outriggers are fully extended.



Notes:

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

WORKING RANGE



Notes:

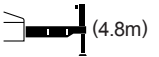
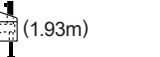
1. This diagram does not include deflection of Boom and Searcher hook.
2. The outriggers are fully extended.



RATED LIFTING CAPACITY

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

6.5m — 28.0m Boom

	 (5.4m)						 (4.8m)						 (4.3m)						 (3.2m)						 (1.93m)						
Working radius (m)	Outriggers fully extended (5.4m) - 360° full range						Outriggers intermediately extended (4.8m) - over side						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.2m) - over side						Outriggers completely retracted (1.93m) - over side (H-type outrigger only)						
	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	
2.5	20.00*	12.50	10.00	7.50			20.00*	12.50	10.00	7.50			20.00*	12.50	10.00	7.50			17.70	12.50	10.00	7.50			8.15	7.95	6.90	6.60			
3.0	18.50*	12.50	10.00	7.50			18.00*	12.50	10.00	7.50			17.45	12.50	10.00	7.50			14.55	12.50	10.00	7.50			5.80	5.65	5.25	5.20			
3.5	16.20	12.50	10.00	7.50	6.00	5.00	16.00	12.50	10.00	7.50	6.00	5.00	15.00	12.50	10.00	7.50	6.00	5.00	10.40	10.20	9.55	7.50	6.00	5.00	4.35	4.20	4.10	4.15	4.05	3.90	
4.0	14.00	12.50	10.00	7.50	6.00	5.00	14.00	12.50	10.00	7.50	6.00	5.00	13.00	12.50	10.00	7.50	6.00	5.00	7.95	7.75	7.70	7.50	6.00	5.00	3.40	3.25	3.20	3.55	3.35	3.30	
4.5	12.00	12.00	10.00	7.50	6.00	5.00	12.00	12.00	10.00	7.50	6.00	5.00	11.15	10.95	10.00	7.50	6.00	5.00	6.30	6.15	6.10	6.30	6.00	5.00	2.70	2.55	2.50	2.85	2.80	2.75	
5.0		11.05	10.00	7.50	6.00	5.00		10.90	10.00	7.50	6.00	5.00		8.75	8.70	7.50	6.00	5.00		5.00	4.95	5.30	5.25	5.00		2.00	2.00	2.30	2.35	2.35	
5.5		10.20	9.30	7.50	6.00	5.00		8.85	8.80	7.50	6.00	5.00		7.20	7.15	7.50	6.00	5.00		4.10	4.05	4.45	4.55	4.50		1.60	1.55	1.85	1.95	2.00	
6.0		9.30	8.55	7.50	6.00	5.00		7.40	7.35	7.50	6.00	5.00		6.05	6.00	6.40	6.00	5.00		3.45	3.40	3.75	3.95	3.95		1.25	1.20	1.55	1.65	1.70	
6.5		7.85	7.80	7.10	5.75	5.00		6.30	6.25	6.65	5.75	5.00		5.15	5.10	5.45	5.70	5.00		2.95	2.90	3.20	3.40	3.50		0.95	0.90	1.25	1.35	1.45	
7.0		6.75	6.70	6.55	5.40	4.65		5.40	5.35	5.75	5.40	4.65		4.45	4.35	4.75	4.95	4.65		2.50	2.45	2.75	2.95	3.10		0.70		1.00	1.15	1.20	
8.0		5.15	5.10	5.45	4.75	4.05		4.15	4.05	4.45	4.65	4.05		3.35	3.30	3.65	3.85	4.00		1.80	1.75	2.10	2.30	2.40							
9.0		4.05	4.00	4.35	4.25	3.60		3.25	3.15	3.50	3.75	3.60		2.60	2.50	2.90	3.10	3.25		1.30	1.20	1.55	1.75	1.90							
10.0			3.20	3.55	3.75	3.20			2.45	2.85	3.05	3.20			1.90	2.30	2.50	2.65			0.80	1.15	1.35	1.50							
11.0			2.55	2.90	3.10	2.90			1.95	2.30	2.50	2.65			1.45	1.80	2.00	2.15			0.50	0.80	1.00	1.15							
12.0			2.05	2.40	2.60	2.65			1.50	1.85	2.05	2.20			1.10	1.45	1.65	1.80				0.55	0.75	0.90							
13.0			1.65	2.00	2.20	2.35			1.15	1.50	1.70	1.85			0.80	1.10	1.30	1.45				0.35	0.55	0.70							
14.0			1.45 (13.5m)	1.65	1.85	2.00			1.00 (13.5m)	1.20	1.40	1.55			0.65 (13.5m)	0.85	1.05	1.20					0.35	0.50							
15.0				1.35	1.55	1.70				0.95	1.15	1.30				0.65	0.85	1.00					0.35								
16.0				1.10	1.30	1.45				0.75	0.95	1.10				0.45	0.65	0.80													
17.0				0.90	1.10	1.25				0.60	0.75	0.90				0.30	0.50	0.65													
18.0				0.80 (17.5m)	0.90	1.05				0.50 (17.5m)	0.60	0.75				0.35	0.50														
19.0					0.75	0.90					0.45	0.60					0.35														
20.0					0.60	0.75					0.35	0.50																			
21.0					0.50	0.60						0.35																			
22.0					0.45 (21.5m)	0.50																									
23.0						0.40																									
24.5						0.30																									
Critical boom angle	—	—	—	—	—	18°	—	—	—	—	22°	35°	—	—	—	12°	33°	42°	—	—	33°	41°	50°	56°	—	36°	59°	64°	69°	72°	
Standard hook	for 20 ton						for 20 ton						for 20 ton						for 20 ton						for 20 ton						
Hook mass	150kg						150kg						150kg						150kg						150kg						
Parts of line	7*6	6	4				7*6	6	4				7*6	6	4				6	4				6	4						

(Unit: Metric ton)



(5.4m)									(4.8m)									(4.3m)								
Outriggers fully extended (5.4m) - 360° full range									Outriggers intermediately extended (4.8m) - over side									Outriggers intermediately extended (4.3m) - over side								
Boom angle °)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle °)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle °)	Offset 7°		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)
83	2.7	2.50	3.9	2.00	4.9	1.50	5.4	1.20																		
80	3.9	2.50	5.1	2.00	6.0	1.50	6.5	1.20																		
75	6.0	2.50	7.1	2.00	7.9	1.50	8.3	1.20																		
70	8.0	2.50	9.0	2.00	9.7	1.50	10.0	1.20																		
65	9.9	2.50	10.8	2.00	11.3	1.50	11.6	1.20																		
62	11.0	2.50	11.8	2.00	12.4	1.50	12.6	1.20																		
60	11.7	2.50	12.5	1.95	13.0	1.50	13.2	1.20																		
57	12.8	2.30	13.4	1.90	13.8	1.50																				
55	13.4	2.07	14.1	1.85	14.4	1.50																				
50	14.9	1.58	15.5	1.51	15.8	1.48																				
45	16.2	1.25	16.8	1.19	17.1	1.15																				
40	17.4	1.00	17.8	0.98																						
35	18.6	0.78	18.8	0.77																						
30	19.5	0.64	19.8	0.62																						
25	20.3	0.53	20.8	0.47																						
20	21.0	0.43																								
15	21.3	0.40																								
7	21.7	0.30																								
Critical boom angle	6°		24°		44°		59°																			
Standard hook	For 3.2 ton																									
Hook mass	60kg																									
Parts of line	1																									
83	2.7	2.50	3.9	2.00	4.9	1.50	5.4	1.20																		
80	3.9	2.50	5.1	2.00	6.0	1.50	6.5	1.20																		
75	6.0	2.50	7.1	2.00	7.9	1.50	8.3	1.20																		
70	8.0	2.50	9.0	2.00	9.7	1.50	10.0	1.20																		
65	9.9	2.50	10.8	2.00	11.3	1.50	11.6	1.20																		
62	11.0	2.50	11.8	2.00	12.4	1.50	12.6	1.20																		
60	11.7	2.23	12.5	1.90	13.0	1.50	13.2	1.20																		
57	12.8	1.80	13.4	1.72	13.8	1.50																				
55	13.3	1.63	14.1	1.45	14.4	1.43																				
50	14.8	1.21	15.4	1.16	15.8	1.11																				
45	16.1	0.92	16.7	0.87	17.1	0.82																				
40	17.3	0.69	18.0	0.63																						
35	18.5	0.50	18.9	0.49																						
30	19.5	0.36	19.8	0.35																						
27	20.1	0.29	20.4	0.27																						
Critical boom angle	26°		26°		44°		59°																			
Standard hook	For 3.2 ton																									
Hook mass	60kg																									
Parts of line	1																									
83	2.7	2.50	3.9	2.00	4.9	1.50	5.4	1.20																		
80	3.9	2.50	5.1	2.00	6.0	1.50	6.5	1.20																		
75	6.0	2.50	7.1	2.00	7.9	1.50	8.3	1.20																		
70	8.0	2.50	9.0	2.00	9.7	1.50	10.0	1.20																		
65	9.9	2.50	10.8	2.00	11.3	1.50	11.6	1.20																		
60	11.7	1.78	12.5	1.64	13.0	1.50	13.2	1.20																		
55	13.3	1.26	13.9	1.21	14.4	1.15																				
50	14.7	0.91	15.4	0.85	15.7	0.84																				
45	16.1	0.63	16.7																							

(3.2m)									(5.4m)									(4.8m)								
Outriggers intermediately extended (3.2m) - over side									Outriggers fully extended (5.4m) - 360° full range									Outriggers intermediately extended (4.8m) - over side								
Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		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)
83	2.7	2.50	3.9	2.00	4.9	1.50	5.4	1.20	83	3.2	2.00	4.5	1.10	6.3	0.75	7.0	0.60	83	3.2	2.00	4.5	1.10	6.3	0.75	7.0	0.60
80	3.9	2.50	5.1	2.00	6.0	1.50	6.5	1.20	80	4.6	2.00	6.1	1.10	7.4	0.75	8.1	0.60	80	4.6	2.00	6.1	1.10	7.4	0.75	8.1	0.60
75	6.0	2.50	7.1	2.00	7.9	1.50	8.3	1.20	75	5.4	2.00	7.0	1.10	8.3	0.74	8.9	0.60	75	5.4	2.00	7.0	1.10	8.3	0.74	8.9	0.60
73	6.8	2.50	7.8	2.00	8.6	1.50	9.0	1.20	73	6.7	2.00	8.2	1.05	9.4	0.72	10.0	0.60	73	6.7	2.00	8.2	1.05	9.4	0.72	10.0	0.60
70	8.0	2.35	9.0	2.00	9.7	1.50	10.0	1.20	70	8.8	1.70	10.1	0.96	11.2	0.68	11.7	0.60	70	8.8	1.70	10.1	0.96	11.2	0.68	11.7	0.60
67	9.2	1.75	10.1	1.55	10.7	1.40	11.0	1.20	65	10.8	1.40	12.0	0.87	13.0	0.66	13.3	0.60	65	10.8	1.40	12.0	0.87	13.0	0.66	13.3	0.60
65	9.8	1.50	10.8	1.30	11.3	1.25	11.6	1.15	60	12.7	1.20	13.8	0.80	14.6	0.64	14.8	0.60	60	12.7	1.20	13.8	0.80	14.6	0.64	14.8	0.60
60	11.5	0.92	12.4	0.82	12.9	0.79	13.2	0.73	55	14.5	1.05	15.5	0.75	16.1	0.63			55	14.5	1.05	15.5	0.75	16.1	0.63		
55	13.1	0.53	13.9	0.48	14.3	0.47			50	16.1	0.96	17.1	0.72	17.5	0.62			50	16.1	0.96	17.1	0.72	17.5	0.62		
52	14.2	0.32	14.8	0.32	15.2	0.30			45	17.6	0.88	18.3	0.69	18.8	0.60			45	17.6	0.88	18.3	0.69	18.8	0.60		
Critical boom angle	51°		51°		51°		59°		40	18.9	0.81	19.5	0.68					40	18.9	0.81	19.5	0.68				
Standard hook	For 3.2 ton								37	19.7	0.77	20.2	0.67					37	19.7	0.77	20.2	0.67				
Hook mass	60kg								35	20.2	0.70	20.7	0.65					35	20.2	0.70	20.7	0.65				
Parts of line	1								30	21.2	0.57	21.6	0.55					30	21.2	0.57	21.6	0.55				
									25	21.9	0.48	22.4	0.45					27	21.5	0.28	22.0	0.26				
									20	22.7	0.39							Critical boom angle	26°		26°		44°		59°	
									15	23.1	0.35							Standard hook	For 3.2 ton							
									7	23.5	0.23							Hook mass	60kg							
Critical boom angle	6°				24°				44°			59°						Parts of line	1							
Standard hook	For 3.2 ton																									

(4.3m)								(3.2m)									
Outriggers intermediately extended (4.3m) - over side								Outriggers intermediately extended (3.2m) - over side									
Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		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)
83	3.2	2.00	4.5	1.10	6.3	0.75	7.0	0.60	83	3.2	2.00	4.5	1.10	6.3	0.75	7.0	0.60
80	4.6	2.00	6.1	1.10	7.4	0.75	8.1	0.60	80	4.6	2.00	6.1	1.10	7.4	0.75	8.1	0.60
78	5.4	2.00	7.0	1.10	8.3	0.74	8.9	0.60	78	5.4	2.00	7.0	1.10	8.3	0.74	8.9	0.60
75	6.7	2.00	8.2	1.05	9.4	0.72	10.0	0.60	75	6.7	2.00	8.2	1.05	9.4	0.72	10.0	0.60
70	8.8	1.70	10.1	0.96	11.2	0.68	11.7	0.60	70	8.8	1.70	10.1	0.96	11.2	0.68	11.7	0.60
65	10.8	1.40	12.0	0.87	13.0	0.66	13.3	0.60	68	9.7	1.50	10.9	0.92	12.0	0.67	12.4	0.60
60	12.7	1.20	13.8	0.80	14.6	0.64	14.8	0.60	65	10.8	1.30	12.0	0.87	13.0	0.66	13.3	0.60
55	14.5	1.05	15.5	0.75	16.1	0.63			60	12.7	0.79	13.9	0.70	14.6	0.63	14.8	0.60
54	14.8	1.00	15.8	0.74	16.4	0.63			55	14.4	0.45	15.5	0.41	16.1	0.40		
50	16.1	0.80	17.1	0.71	17.5	0.62			52	15.5	0.28	16.4	0.27	17.0	0.25		
45	17.6	0.55	18.4	0.52	18.8	0.50			Critical boom angle	51°		51°		51°		59°	
40	18.9	0.37	19.6	0.35					Standard hook	For 3.2 ton							
36	19.9	0.25	20.4	0.25					Hook mass	60kg							
Critical boom angle	35°		35°		44°		59°		Parts of line	1							
Standard hook	For 3.2 ton																
Hook mass	60kg																
Parts of line	1																

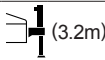


Based on ISO 4305
Not exceed 75% of static tipping loads

28.0m Boom + 4.0m Jib

(5.4m)									(4.8m)									(4.3m)																										
Outriggers fully extended (5.4m) - 360° full range									Outriggers intermediately extended (4.8m) - over side									Outriggers intermediately extended (4.3m) - over side																										
Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		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)																		
83	4.2	2.50	5.4	2.00	6.4	1.50	6.8	1.20	83	4.2	2.50	5.4	2.00	6.4	1.50	6.8	1.20	83	4.2	2.50	5.4	2.00	6.4	1.50	6.8	1.20																		
80	6.0	2.50	7.2	2.00	8.0	1.50	8.4	1.20	80	6.0	2.50	7.2	2.00	8.0	1.50	8.4	1.20	80	6.0	2.50	7.2	2.00	8.0	1.50	8.4	1.20																		
77	7.8	2.50	8.9	2.00	9.6	1.50	10.0	1.20	77	7.8	2.50	8.9	2.00	9.6	1.50	10.0	1.20	77	7.8	2.50	8.9	2.00	9.6	1.50	10.0	1.20																		
75	9.0	2.50	9.9	1.90	10.7	1.50	11.0	1.20	75	9.0	2.50	9.9	1.90	10.7	1.50	11.0	1.20	75	9.0	2.50	9.9	1.90	10.7	1.50	11.0	1.20																		
70	11.6	2.05	12.5	1.65	13.2	1.35	13.4	1.20	70	11.6	2.05	12.5	1.65	13.2	1.35	13.4	1.20	70	10.6	2.15	11.5	1.70	12.2	1.40	12.9	1.20																		
65	14.2	1.65	15.0	1.40	15.6	1.20	15.7	1.20	65	13.1	1.80	14.0	1.50	14.7	1.25	14.8	1.20	65	11.6	1.95	12.5	1.60	13.2	1.35	13.4	1.20																		
60	16.5	1.30	17.3	1.20	17.7	1.10	17.9	1.10	60	14.2	1.56	15.0	1.40	15.6	1.20	15.7	1.20	60	13.2	1.48	14.1	1.36	14.7	1.23	14.8	1.20																		
57	17.9	1.10	18.6	1.05	18.9	1.02			63	15.1	1.33	16.0	1.23	16.5	1.15	16.6	1.15	65	14.0	1.27	15.0	1.14	15.6	1.09	15.7	1.08																		
55	18.7	0.96	19.5	0.90	19.7	0.89			60	16.4	1.05	17.2	0.99	17.7	0.96	17.9	0.93	60	16.3	0.79	17.2	0.72	17.6	0.71	17.9	0.65																		
50	20.7	0.66	21.3	0.64	21.6	0.63			55	18.6	0.68	19.3	0.65	19.7	0.63			55	18.4	0.47	19.2	0.43	19.5	0.43																				
45	22.5	0.45	23.0	0.44	23.4	0.41			50	20.5	0.43	21.2	0.40	21.5	0.40			52	19.7	0.31	20.4	0.29	20.7	0.29																				
40	24.2	0.28	24.6	0.28					47	21.7	0.30	22.2	0.30	22.5	0.29			Critical boom angle	51°		51°		51°		59°																			
38	24.8	0.23	25.3	0.22					Critical boom angle	46°		46°		46°		59°		Standard hook	For 3.2 ton																									
Critical boom angle	37°		37°		44°		59°		Critical boom angle	46°		46°		46°		59°		Critical boom angle	51°		51°		51°		59°																			
Standard hook	For 3.2 ton								Standard hook	For 3.2 ton								Standard hook	For 3.2 ton																									
Hook mass	60kg								Hook mass	60kg								Hook mass	60kg																									
Parts of line	1								Parts of line	1								Parts of line	1																									

28.0m Boom + 4.0m Jib

 (3.2m)								
Outriggers intermediately extended (3.2m) - over side								
Boom angle (°)	Offset 7°		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)
83	4.2	2.50	5.4	2.00	6.4	1.50	6.8	1.20
80	6.0	2.50	7.2	2.00	8.0	1.50	8.4	1.20
77	7.8	2.50	8.9	2.00	9.6	1.50	10.0	1.20
75	8.8	2.08	9.9	1.80	10.7	1.50	11.0	1.20
73	10.0	1.60	10.9	1.45	11.7	1.30	12.0	1.20
70	11.3	1.17	12.3	1.04	13.1	0.95	13.4	0.92
65	13.7	0.60	14.7	0.53	15.3	0.51	15.5	0.50
Critical boom angle	64°		64°		64°		64°	
Standard hook	For 3.2 ton							
Hook mass	60kg							
Parts of line	1							

28.0m Boom + 5.8m Jib

(5.4m)									(4.8m)								
Outriggers fully extended (5.4m) - 360° full range									Outriggers intermediately extended (4.8m) - over side								
Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		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)
83	4.7	2.00	6.3	1.10	7.7	0.75	8.4	0.60	83	4.7	2.00	6.3	1.10	7.7	0.75	8.4	0.60
80	6.6	2.00	8.1	1.10	9.3	0.74	10.0	0.60	80	6.6	2.00	8.1	1.10	9.3	0.74	10.0	0.60
75	9.7	2.00	11.0	1.05	12.1	0.71	12.6	0.60	75	9.7	2.00	11.0	1.05	12.1	0.71	12.6	0.60
70	12.6	1.65	13.7	0.93	14.6	0.68	15.1	0.60	70	12.6	1.65	13.7	0.93	14.6	0.68	15.1	0.60
65	15.2	1.35	16.3	0.85	17.0	0.65	17.3	0.60	65	15.2	1.33	16.3	0.85	17.0	0.65	17.3	0.60
60	17.6	1.15	18.7	0.78	19.4	0.63	19.5	0.60	63	16.2	1.21	17.2	0.82	18.0	0.64	18.2	0.60
58	18.7	1.05	19.6	0.77	20.2	0.62			60	17.6	0.95	18.7	0.78	19.4	0.63	19.5	0.60
55	20.0	0.87	20.9	0.74	21.4	0.62			57	19.1	0.72	20.0	0.70	20.6	0.62		
50	22.0	0.61	23.0	0.57	23.4	0.57			55	19.9	0.61	20.9	0.58	21.4	0.57		
45	24.0	0.41	24.7	0.40	24.8	0.40			50	21.9	0.38	22.8	0.37	23.3	0.35		
40	25.7	0.26	26.3	0.25					47	23.1	0.27	24.0	0.25	24.3	0.25		
38	26.4	0.20	27.0	0.20					Critical boom angle	46°		46°		46°		59°	
Critical boom angle	37°		37°		44°		59°		Critical boom angle	46°		46°		46°		59°	
Standard hook	For 3.2 ton								Standard hook	For 3.2 ton							
Hook mass	60kg								Hook mass	60kg							
Parts of line	1								Parts of line	1							

28.0m Boom + 5.8m Jib

 (4.3m)									 (3.2m)								
Outriggers intermediately extended (4.3m) - over side									Outriggers intermediately extended (3.2m) - over side								
Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°		Boom angle (°)	Offset 7°		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)
83	4.7	2.00	6.3	1.10	7.7	0.75	8.4	0.60	83	4.7	2.00	6.3	1.10	7.7	0.75	8.4	0.60
80	6.6	2.00	8.1	1.10	9.3	0.74	10.0	0.60	80	6.6	2.00	8.1	1.10	9.3	0.74	10.0	0.60
75	9.7	2.00	11.0	1.05	12.1	0.71	12.6	0.60	75	8.5	2.00	9.9	1.07	11.0	0.72	11.6	0.60
70	12.6	1.65	13.7	0.93	14.6	0.68	15.1	0.60	70	10.0	1.72	11.0	1.05	12.1	0.71	12.6	0.60
68	13.7	1.45	14.8	0.89	15.6	0.66	16.0	0.60	68	11.3	1.30	12.6	0.96	13.6	0.69	14.1	0.60
65	15.1	1.14	16.3	0.85	17.0	0.65	17.3	0.60	65	12.3	1.03	13.7	0.89	14.6	0.68	15.1	0.60
62	16.1	0.94	17.8	0.78	18.5	0.64	18.7	0.60	62	13.3	0.80	14.7	0.70	15.6	0.66	16.0	0.60
60	17.4	0.72	18.7	0.65	19.4	0.62	19.5	0.60	60	14.7	0.54	16.3	0.44	17.0	0.44	17.3	0.43
55	19.7	0.42	20.9	0.37	21.4	0.37			Critical boom angle	64°		64°		64°		64°	
52	21.0	0.28	22.0	0.26	22.5	0.25				Standard hook	For 3.2 ton						
Critical boom angle	51°		51°		51°		59°		Hook mass	60kg							
Standard hook									Parts of line	1							
Hook mass	60kg																
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)
	6.5m Boom		10.95m Boom		15.4m Boom		19.6m Boom		6.5m Boom		10.95m Boom		15.4m Boom		19.6m 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	Over front	360° full range	Over front	360° full range	
3.0	4.50	2.40	4.50	2.40	4.50	2.40	4.50	2.95	4.30	2.15	4.30	2.15	4.10	2.15	4.10	2.65	3.0
3.5	4.00	1.85	4.00	1.85	4.00	1.85	4.50	2.35	3.90	1.65	3.90	1.65	3.90	1.65	4.10	2.10	3.5
4.0	3.50	1.40	3.50	1.40	3.50	1.40	4.00	1.95	3.40	1.25	3.40	1.25	3.40	1.25	3.70	1.75	4.0
4.5	3.20	1.10	3.20	1.10	3.20	1.10	3.60	1.60	3.00	0.90	2.95	0.90	2.95	0.90	3.35	1.40	4.5
5.0			2.85	0.80	2.85	0.80	3.25	1.30			2.55	0.65	2.55	0.65	3.00	1.15	5.0
5.5			2.50	0.55	2.50	0.55	2.90	1.05			2.25	0.40	2.25	0.40	2.65	0.90	5.5
6.0			2.20	0.35	2.20	0.35	2.60	0.85			1.95		1.95		2.35	0.70	6.0
6.5			1.95		1.95		2.35	0.70			1.70		1.70		2.10	0.50	6.5
7.0			1.70		1.70		2.15				1.50		1.50		1.90		7.0
8.0			1.30		1.30		1.75				1.10		1.10		1.55		8.0
9.0					1.00		1.40						0.80		1.25		9.0
10.0					0.75		1.10						0.35		0.95		10.0
11.0					0.50		0.90								0.50		11.0
12.0					0.30		0.70										12.0
13.0							0.50										13.0
14.0							0.40										14.0
Critical boom angle	—	—	25°	41°	25°	60°	36°	66°	—	—	25°	46°	40°	61°	50°	66°	Critical boom angle
Standard hook	For 20 ton								For 20 ton								Standard hook
Hook mass	150kg								150kg								Hook mass
Parts of line	4								4								Parts of line

(Unit: Metric ton)

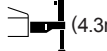
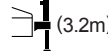
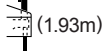


RATED LIFTING CAPACITY searcher hook are used

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

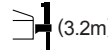
6.5m — 28.0m Boom

LOW POSITION

Working radius (m)	 (5.4m)						 (4.8m)						 (4.3m)						 (3.2m)						 (1.93m)					
	Outriggers fully extended (5.4m) - 360° full range						Outriggers intermediately extended (4.8m) - over side						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.2m) - over side						Outriggers completely retracted (1.93m) - over side (H-type outrigger only)					
	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom
2.5	5.00						5.00						5.00						5.00						5.00					
3.0	5.00						5.00						5.00						5.00						4.00					
3.5	5.00	5.00					5.00	5.00					5.00	5.00					5.00	5.00					3.25	2.50				
4.0	5.00	5.00					5.00	5.00					5.00	5.00					5.00	5.00					2.70	2.04				
4.5	5.00	5.00					5.00	5.00					5.00	5.00					5.00	4.35					2.25	1.67				
5.0	5.00	5.00	5.00				5.00	5.00	5.00				5.00	5.00	5.00				4.45	3.70	3.15				1.90	1.37	1.05			
5.5	5.00	5.00	5.00				5.00	5.00	5.00				5.00	5.00	4.95				3.80	3.15	2.72				1.62	1.13	0.85			
6.0	5.00	5.00	5.00				5.00	5.00	5.00				5.00	4.95	4.35				3.25	2.76	2.35				1.37	0.92	0.67			
6.5		5.00	5.00	5.00				5.00	4.70	4.60				4.35	3.80	3.80				2.41	2.03	2.10				0.74	0.51			
7.0		5.00	5.00	5.00				4.70	4.15	4.15				3.90	3.35	3.40				2.11	1.76	1.86				0.60	0.37			
8.0		4.45	4.15	4.15	4.10			3.60	3.30	3.35	3.35			3.00	2.69	2.77	2.75			1.64	1.34	1.46	1.50			0.34	0.15			
9.0		3.55	3.40	3.45	3.45			2.90	2.70	2.79	2.81			2.40	2.16	2.26	2.30			1.28	1.00	1.13	1.20			0.15				
10.0		2.90	2.79	2.92	2.94	2.90		2.35	2.22	2.34	2.38	2.35		1.93	1.74	1.87	1.93	1.90		0.99	0.73	0.88	0.96	1.00						
11.0		2.62 (10.4m)	2.30	2.48	2.52	2.50		2.12 (10.5m)	1.83	1.96	2.02	2.04		1.74 (10.5m)	1.41	1.55	1.62	1.65		0.85 (10.5m)	0.51	0.68	0.76	0.81						
12.0			1.90	2.12	2.18	2.20			1.50	1.66	1.73	1.76			1.14	1.29	1.37	1.41			0.33	0.50	0.59	0.65						
13.0			1.59	1.81	1.89	1.92			1.21	1.40	1.48	1.52			0.90	1.06	1.15	1.20			0.18	0.35	0.45	0.51						
14.0			1.30	1.54	1.65	1.69			0.96	1.18	1.27	1.32			0.69	0.88	0.97	1.02				0.23	0.33	0.39						
15.0			1.18 (14.4m)	1.31	1.44	1.48			0.85 (14.5m)	1.00	1.09	1.14			0.69 (14.5m)	0.71	0.82	0.87				0.11	0.23	0.29						
16.0				1.11	1.26	1.30				0.82	0.94	0.99				0.55	0.67	0.74					0.13	0.20						
17.0				0.94	1.09	1.15				0.65	0.79	0.86				0.35	0.55	0.62						0.12						
18.0				0.78	0.93	1.02				0.54	0.67	0.74				0.28	0.40	0.51												
19.0				0.64	0.79	0.89				0.42	0.57	0.63				0.20	0.33	0.42												
20.0					0.67	0.78					0.46	0.54					0.26	0.34												
21.0					0.57	0.67					0.37	0.40					0.19	0.26												
22.0					0.47	0.58					0.28	0.30					0.13	0.19												
23.0					0.38	0.49					0.21	0.27						0.13												
24.0						0.41						0.24																		
25.0						0.34						0.18																		
26.0						0.27						0.12																		
27.0						0.21																								
27.4						0.18																								
28.0																														
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	13°	—	—	—	—	17°	32°	—	—	35°	37°	46°	51°	—	29°	56°			

(Unit: Metric ton)

HIGH POSITION

	 (5.4m)						 (4.8m)						 (4.3m)						 (3.2m)						 (1.93m)							
Working radius (m)	Outriggers fully extended (5.4m) - 360° full range						Outriggers intermediately extended (4.8m) - over side						Outriggers intermediately extended (4.3m) - over side						Outriggers intermediately extended (3.2m) - over side						Outriggers completely retracted (1.93m) - over side (H-type outrigger only)							
	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom	6.5m Boom	10.95m Boom	15.4m Boom	19.6m Boom	23.8m Boom	28.0m Boom		
2.5																																
3.0																																
3.5																																
4.0																																
4.5																																
5.0	5.00						5.00						5.00						4.35							1.80						
5.5	5.00						5.00						5.00						3.70							1.55						
6.0	5.00 (5.9m)						5.00 (5.9m)						5.00 (5.9m)						3.20 (5.9m)							1.37 (5.9m)						
6.5																																
7.0																																
8.0		3.85 (8.5m)						3.15 (8.5m)						2.60 (8.5m)						1.35 (8.5m)												
9.0		3.45						2.80						2.33						1.22												
10.0		2.85						2.30						1.89						0.95												
11.0		2.70 (10.3m)						2.18 (10.3m)						1.78 (10.3m)						0.87 (10.3m)												
12.0			1.65 (12.5m)						1.25 (12.5m)						0.95 (12.5m)																	
13.0			1.54						1.15						0.85																	
14.0			1.26						0.92						0.65																	
15.0			1.08 (14.8m)						0.77 (14.8m)						0.51 (14.8m)																	
16.0				1.05						0.75						0.50																
17.0				0.90						0.63						0.35																
18.0				0.75						0.50						0.31																
19.0				0.63	0.70 (19.5m)					0.40	0.45 (19.5m)					0.22																
20.0					0.65						0.43																					
21.0					0.54						0.34																					
22.0					0.46	0.50 (22.5m)					0.26																					
23.0					0.38	0.46					0.19																					
24.0					0.36 (23.2m)	0.39					0.18 (23.2m)																					
25.0						0.32																										
26.0						0.26																										
27.0						0.20																										
27.4						0.18																										
28.0																																
Critical boom angle	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



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)
	6.5m Boom		10.95m Boom		15.4m Boom		19.6m Boom	6.5m Boom		10.95m Boom		15.4m Boom		19.6m Boom			
	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front			
3.0	5.00	3.05						5.00	3.00						3.0		
3.5	5.00	2.35						4.50	2.35						3.5		
4.0	4.30	1.90	4.25	1.70				4.05	1.90	3.90	1.70				4.0		
4.5	3.65	1.55	3.50	1.40				3.55	1.55	3.45	1.40				4.5		
5.0	3.05	1.30	2.90	1.15				3.05	1.30	2.90	1.15				5.0		
5.5	2.60	1.05	2.45	0.90	2.40	0.65		2.60	1.05	2.45	0.90	2.40	0.65		5.5		
6.0	2.25	0.90	2.10	0.70	2.05	0.45		2.25	0.85	2.10	0.70	2.05	0.45		6.0		
6.5			1.80	0.55	1.75	0.35				1.80	0.55	1.75	0.35		6.5		
7.0			1.60	0.45	1.55	0.20	1.65			1.60	0.45	1.55	0.20	1.65	7.0		
8.0			1.25		1.15		1.30			1.25		1.15		1.30	8.0		
9.0			0.95		0.90		1.00			0.95		0.90		1.00	9.0		
10.0			0.75		0.70		0.80			0.75		0.70		0.80	10.0		
11.0					0.55		0.65					0.55		0.65	11.0		
12.0					0.40		0.55					0.40		0.55	12.0		
13.0					0.30		0.45					0.30		0.45	13.0		
14.0							0.35							0.35	14.0		
Critical boom angle	—	—	12°	47°	29°	61°	42°	—	—	12°	47°	29°	61°	42°	Critical boom angle		

(Unit: Metric ton)

HIGH POSITION

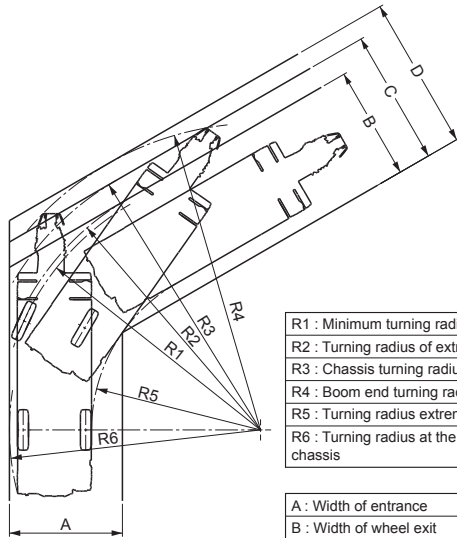
															
Working radius (m)	Stationary on rubber							Pick & carry (less than 2km/h)							Working radius (m)
	6.5m Boom		10.95m Boom		15.4m Boom		19.6m Boom	6.5m Boom		10.95m Boom		15.4m Boom		19.6m Boom	
	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	
3.0															3.0
3.5															3.5
4.0															4.0
4.5															4.5
5.0	3.00	1.20						3.00	1.20						5.0
5.5	2.55	1.00						2.55	1.00						5.5
6.0	2.30 (5.9m)	0.90 (5.9m)						2.30 (5.9m)	0.85 (5.9m)						6.0
6.5															6.5
7.0															7.0
8.0															8.0
9.0															9.0
10.0															10.0
11.0															11.0
12.0															12.0
13.0															13.0
14.0															14.0
Critical boom angle	—	—						—	—						Critical boom angle

(Unit: Metric ton)

Minimum path width

● 60°

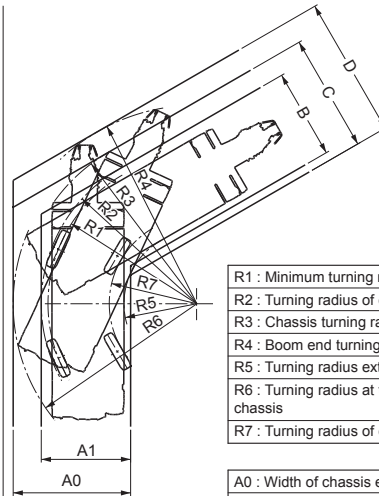
Right turn in two-wheel steering mode



R1 : Minimum turning radius	8.00m
R2 : Turning radius of extremely outer tire	8.18m
R3 : Chassis turning radius	8.85m
R4 : Boom end turning radius	9.42m
R5 : Turning radius extremely chassis inner	5.19m
R6 : Turning radius at the rear end of the chassis	7.71m

A : Width of entrance	3.47m
B : Width of wheel exit	3.47m
C : Width of chassis exit	4.14m
D : Width of exit at end of boom	4.71m

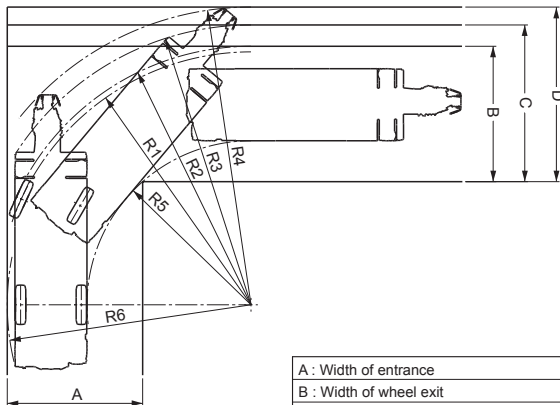
Right turn in 4-wheel steering mode



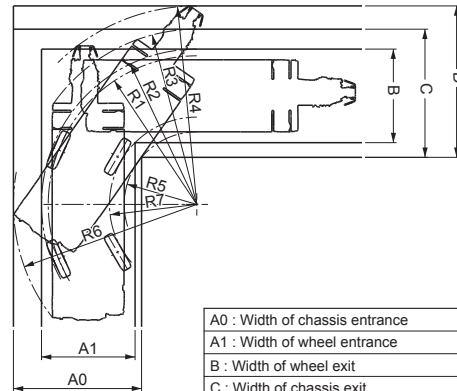
R1 : Minimum turning radius	4.70m
R2 : Turning radius of extremely outer tire	4.91m
R3 : Chassis turning radius	5.54m
R4 : Boom end turning radius	6.28m
R5 : Turning radius extremely chassis inner	2.30m
R6 : Turning radius at the rear end of the chassis	5.80m
R7 : Turning radius of extremely inner tire	2.76m

A0 : Width of chassis entrance	3.71m
A1 : Width of wheel entrance	2.83m
B : Width of wheel exit	2.83m
C : Width of chassis exit	3.71m
D : Width of exit at end of boom	4.45m

● 90°

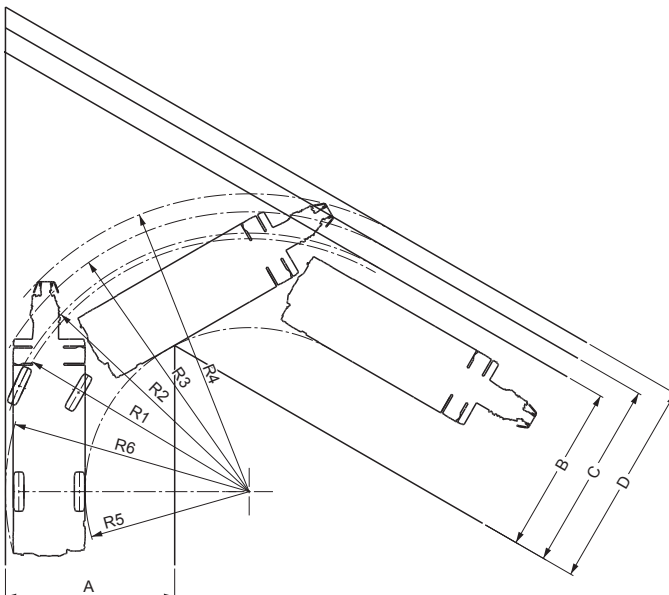


A : Width of entrance	4.28m
B : Width of wheel exit	4.28m
C : Width of chassis exit	4.96m
D : Width of exit at end of boom	5.52m

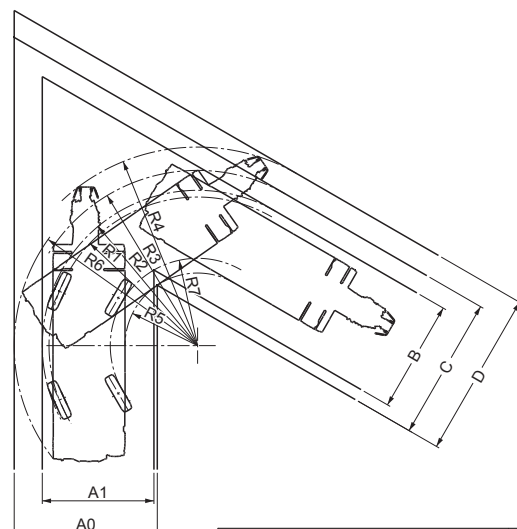


A0 : Width of chassis entrance	4.05m
A1 : Width of wheel entrance	2.96m
B : Width of wheel exit	2.96m
C : Width of chassis exit	4.05m
D : Width of exit at end of boom	4.79m

● 120°



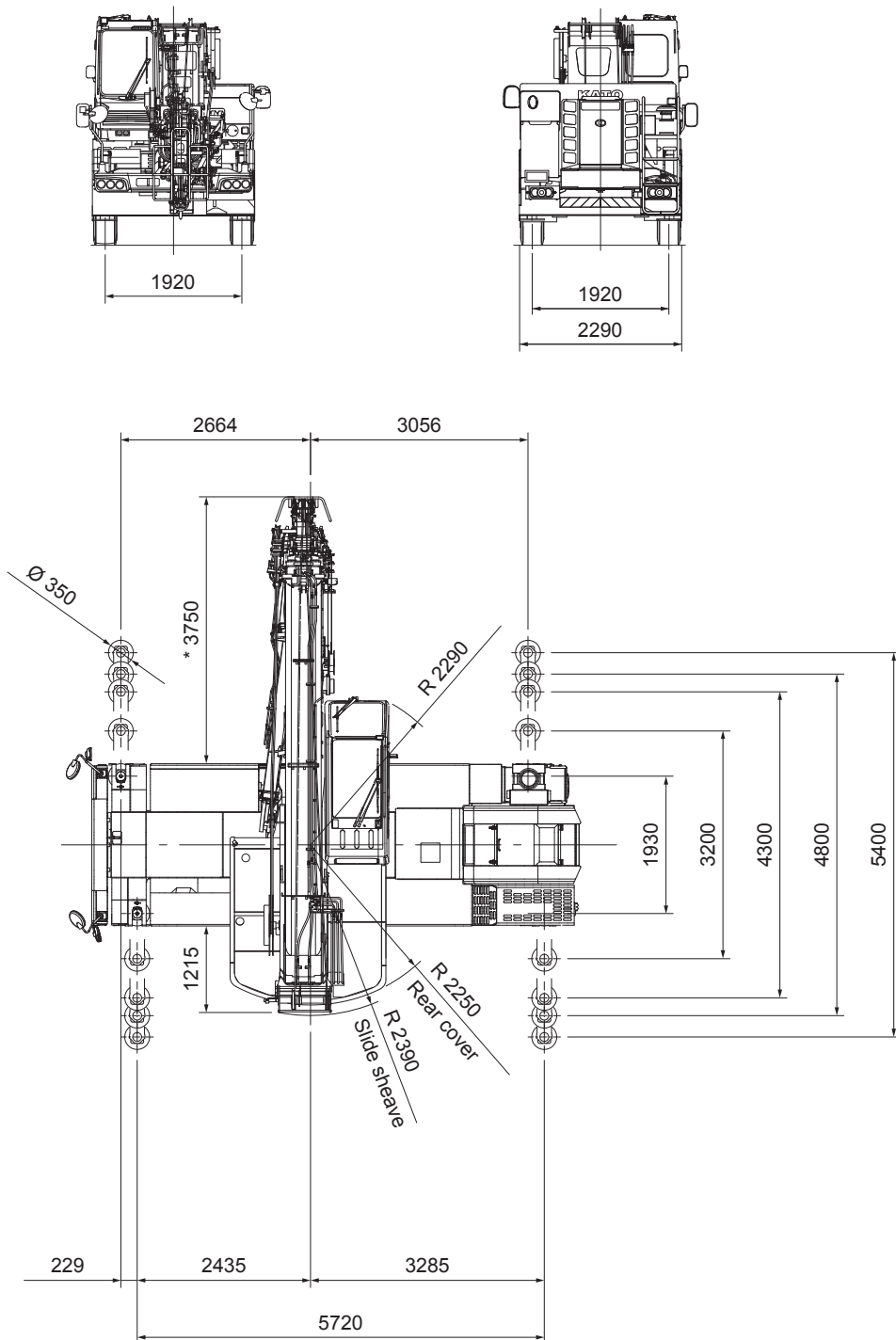
A : Width of entrance	5.35m
B : Width of wheel exit	5.35m
C : Width of chassis exit	6.03m
D : Width of exit at end of boom	6.60m



A0 : Width of chassis entrance	4.53m
A1 : Width of wheel entrance	3.53m
B : Width of wheel exit	3.53m
C : Width of chassis exit	4.53m
D : Width of exit at end of boom	5.26m

Note: The above values are based on calculations.

Overall view

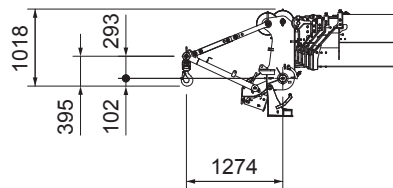


Reduced scale: 1/100 Unit (mm)

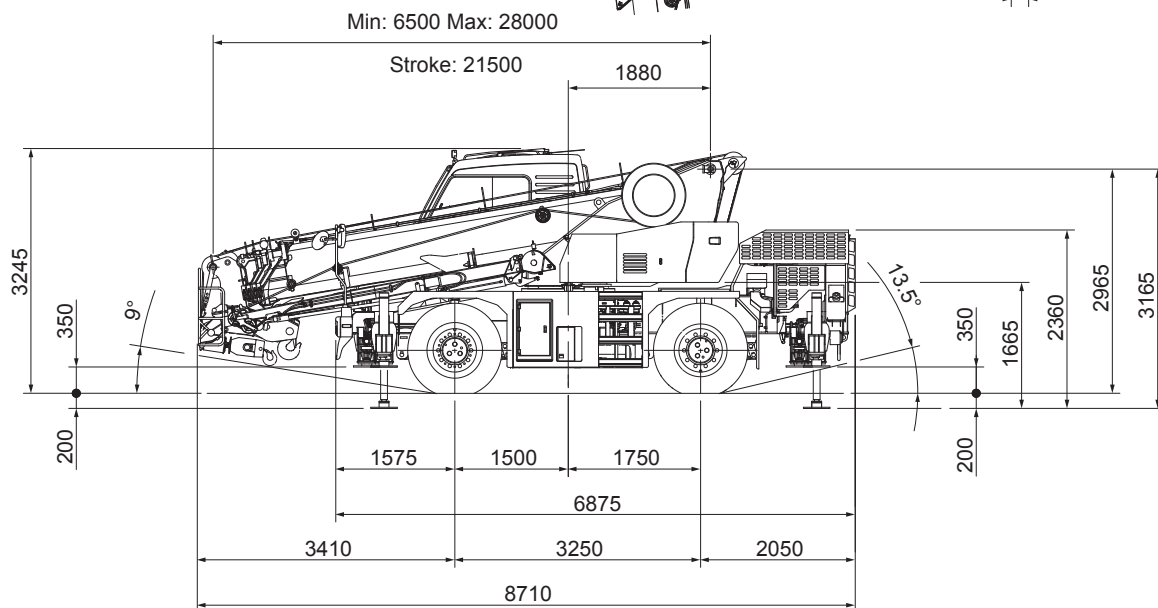
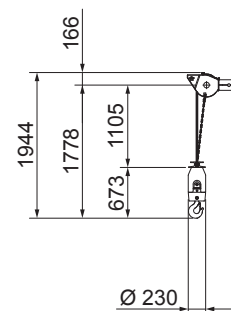
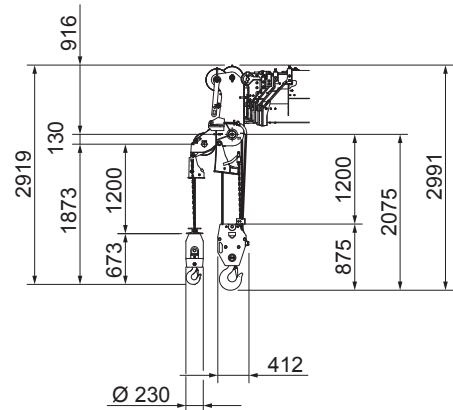
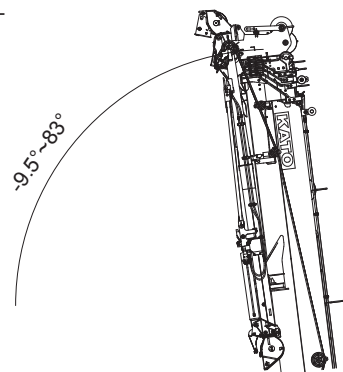
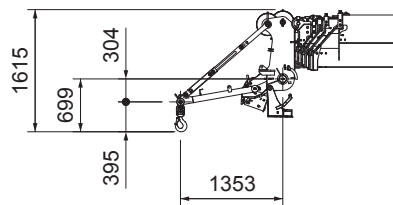
* : Indicates the dimension when the boom is horizontal

Overall view

Searcher hook (option)
High position



Low position



Ramp break over angle: 20.5°
When the suspension is locked, the height shall be the overall height: - 40 mm.
(Suspension cylinder completely retracted)

Reduced scale: 1/100 Unit (mm)

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

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