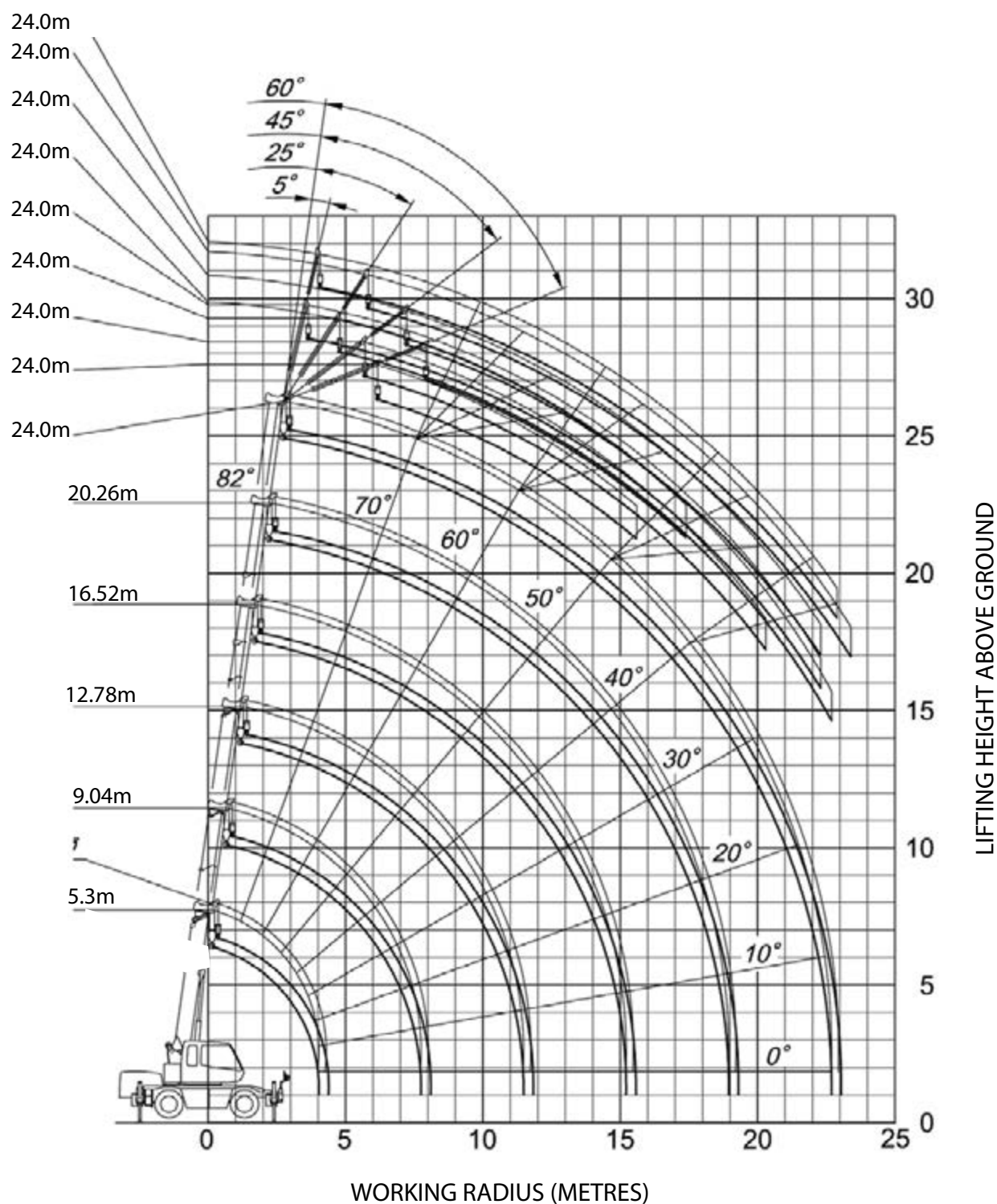
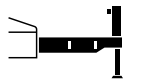


WORKING RANGE CHART



RATED LIFTING CAPACITY

	 (4.75m)					
Working radius (m)	Outriggers fully extended (360° full range)					
	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			
1.7	13.00	6.00	6.00			
2.0	12.00	6.00	6.00	5.00		
2.5	10.00	6.00	6.00	5.00		
3.0	8.20	6.00	6.00	5.00	4.70	
3.5	7.00	6.00	6.00	5.00	4.70	3.20
4.0	6.10	6.00	6.00	5.00	4.70	3.20
4.5		5.50	5.40	5.00	4.50	3.20
5.0		5.00	4.90	4.60	4.05	3.20
5.5		4.50	4.40	4.20	3.70	3.20
6.0		4.10	4.00	3.80	3.40	3.00
6.5		3.70	3.65	3.50	3.15	2.80
7.0		3.35	3.30	3.20	2.90	2.60
8.0		2.70 (7.7m)	2.90	2.70	2.50	2.25
9.0			2.25	2.30	2.20	1.95
10.0			1.80	2.05	1.95	1.75
11.0			1.45	1.70	1.75	1.55
12.0			1.35 (11.4m)	1.40	1.50	1.40
13.0				1.15	1.30	1.25
14.0				0.95	1.10	1.15
15.0				0.80	0.90	1.00
16.0					0.79	0.85
17.0					0.68	0.74
18.0					0.58	0.64
19.0					0.51 (18.8m)	0.55
20.0						0.47
21.0						0.41
22.0						0.35
22.5						0.32
Critical boom angle	—	—	—	—	—	—
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	8	4	4	4	4	4

	 (4.3m)					
Working radius (m)	Outriggers intermediately extended (over side)					
	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			
1.7	13.00	6.00	6.00			
2.0	12.00	6.00	6.00	5.00		
2.5	10.00	6.00	6.00	5.00		
3.0	8.20	6.00	6.00	5.00	4.70	
3.5	7.00	6.00	6.00	5.00	4.70	3.20
4.0	6.10	6.00	6.00	5.00	4.70	3.20
4.5		5.50	5.40	5.00	4.50	3.20
5.0		5.00	4.90	4.60	4.05	3.20
5.5		4.50	4.40	4.20	3.70	3.20
6.0		4.10	4.00	3.80	3.40	3.00
6.5		3.65	3.60	3.50	3.15	2.80
7.0		3.20	3.15	3.20	2.90	2.60
8.0		2.65 (7.7m)	2.45	2.60	2.50	2.25
9.0			1.90	2.10	2.20	1.95
10.0			1.50	1.70	1.85	1.75
11.0			1.20	1.40	1.55	1.55
12.0			1.10 (11.4m)	1.15	1.30	1.35
13.0				0.95	1.10	1.15
14.0				0.80	0.90	1.00
15.0				0.65	0.75	0.85
16.0					0.65	0.70
17.0					0.55	0.60
18.0					0.45	0.50
19.0					0.35 (18.8m)	0.40
20.0						0.35
21.0						0.30
22.0						0.25
22.5						
Critical boom angle	—	—	—	—	—	—
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	8	4	4	4	4	4

RATED LIFTING CAPACITY

	 (3.7m)					
Working radius (m)	Outriggers intermediately extended (over side)					
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom
1.5	12.00	6.00	6.00			
1.7	12.00	6.00	6.00			
2.0	12.00	6.00	6.00	5.00		
2.5	10.00	6.00	6.00	5.00		
3.0	8.20	6.00	6.00	5.00	4.70	
3.5	7.00	6.00	6.00	5.00	4.70	3.20
4.0	6.10	6.00	6.00	5.00	4.70	3.20
4.5		5.10	5.10	5.00	4.50	3.20
5.0		4.40	4.40	4.50	4.05	3.20
5.5		3.80	3.70	3.90	3.70	3.20
6.0		3.20	3.20	3.40	3.40	3.00
6.5		2.80	2.75	2.95	3.05	2.75
7.0		2.40	2.35	2.55	2.70	2.50
8.0		1.95 (7.7m)	1.80	2.00	2.10	2.15
9.0			1.40	1.60	1.70	1.75
10.0			1.05	1.25	1.35	1.45
11.0			0.80	1.00	1.10	1.20
12.0			0.70 (11.4m)	0.80	0.90	1.00
13.0				0.65	0.75	0.85
14.0				0.50	0.60	0.70
15.0				0.40	0.50	0.55
16.0					0.40	0.45
17.0					0.30	0.35
18.0						0.30
19.0						
20.0						
21.0						
22.0						
22.5						
Critical boom angle	—	—	—	—	23°	36°
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	8	4	4	4	4	4

	 (2.7m)					
Working radius (m)	Outriggers intermediately extended (over side)					
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom
1.5	12.00	6.00	6.00			
1.7	12.00	6.00	6.00			
2.0	12.00	6.00	6.00	5.00		
2.5	8.50	6.00	6.00	5.00		
3.0	6.00	6.00	6.00	5.00	4.70	
3.5	4.70	4.70	4.60	4.50	4.40	3.20
4.0	3.70	3.70	3.70	3.70	3.70	3.20
4.5		3.00	3.00	3.10	3.10	3.00
5.0		2.40	2.40	2.60	2.70	2.70
5.5		2.00	2.00	2.20	2.30	2.30
6.0		1.70	1.70	1.85	2.00	2.05
6.5		1.40	1.40	1.60	1.70	1.75
7.0		1.20	1.20	1.40	1.50	1.55
8.0		0.90 (7.7m)	0.85	1.05	1.15	1.20
9.0			0.60	0.80	0.90	0.95
10.0			0.35	0.55	0.65	0.75
11.0				0.40	0.50	0.60
12.0				0.25	0.35	0.45
13.0					0.20	0.30
14.0						0.20
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						
21.0						
22.0						
22.5						
Critical boom angle	—	—	19°	32°	44°	50°
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	8	4	4	4	4	4

RATED LIFTING CAPACITY

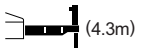
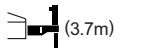
5.3m — 24.0m Boom

	 (1.64m)					
Working radius (m)	Outriggers completely retracted (over side)					
	5.3m Boom	9.04m Boom	12.78m Boom	16.52m Boom	20.26m Boom	24.0m Boom
1.5	8.00	6.00	6.00			
1.7	7.00	6.00	6.00			
2.0	5.60	5.40	5.00	4.70		
2.5	3.80	3.80	3.60	3.50		
3.0	2.80	2.80	2.70	2.70	2.60	
3.5	2.10	2.10	2.00	2.10	2.10	2.10
4.0	1.60	1.60	1.55	1.70	1.70	1.75
4.5		1.25	1.20	1.40	1.40	1.45
5.0		0.95	0.95	1.10	1.20	1.25
5.5		0.75	0.75	0.90	1.00	1.05
6.0		0.60	0.55	0.75	0.80	0.90
6.5		0.40	0.35	0.60	0.65	0.75
7.0		0.25		0.45	0.55	0.60
Critical boom angle	—	20°	54°	61°	66°	70°
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	8	4	4	4	4	4

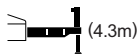
						
Working radius (m)	Stationary on rubber					
	5.3m Boom		9.04m Boom		12.78m Boom	
	Over front	360° full range	Over front	360° full range	Over front	360° full range
1.5	3.60	2.80	3.60	2.80	3.60	2.80
2.0	3.40	2.80	3.40	2.80	3.40	2.80
2.5	3.10	2.15	3.10	2.10	3.10	2.05
3.0	2.65	1.60	2.60	1.55	2.55	1.50
3.5	2.30	1.25	2.20	1.20	2.10	1.10
4.0	2.00	0.90	1.90	0.80	1.70	0.70
4.5			1.60	0.50	1.40	0.40
5.0			1.30		1.10	
5.5			1.10		0.95	
6.0			0.90		0.80	
7.0			0.50		0.50	
Critical boom angle	—	—	26°	54°	52°	66°
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	4					

						
Working radius (m)	Pick & carry (less than 2 km/h)					
	5.3m Boom		9.04m Boom		12.78m Boom	
	Over front	360° full range	Over front	360° full range	Over front	360° full range
1.5	3.20	2.00	3.20	2.00	3.20	2.00
2.0	3.00	2.00	3.00	2.00	3.00	2.00
2.5	2.80	1.55	2.75	1.50	2.65	1.45
3.0	2.40	1.10	2.30	1.05	2.20	1.00
3.5	2.00	0.85	1.90	0.75	1.80	0.65
4.0	1.70	0.60	1.65	0.50	1.50	0.40
4.5			1.40	0.30	1.25	
5.0			1.15		1.00	
5.5			0.95		0.85	
6.0			0.80		0.70	
7.0			0.45		0.45	
Critical boom angle	—	—	26°	54°	52°	68°
Standard hook	for 13 ton					
Hook mass	90kg					
Parts of line	4					

RATED LIFTING CAPACITY

24.0m Boom+3.6m Jib																												
 (4.75m)								 (4.3m)								 (3.7m)												
Outriggers fully extended (360° full range)								Outriggers intermediately extended (over side)								Outriggers intermediately extended (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)						
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°				59°		Hook mass	25kg									
Critical boom angle	34°		34°		44°		59°		Standard hook	for 1.8 ton								Parts of line	1									
Standard hook	for 1.8 ton								Hook mass	25kg																		
Hook mass	25kg								Parts of line	1																		
Parts of line	1																											

24.0m Boom+3.6m Jib										
 (2.7m)										
Outriggers intermediately extended (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 (360° full range)					Outriggers intermediately extended (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	4.8	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					40	22.9	0.26	23.4	0.26				
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 (over side)									Outriggers intermediately extended (over side)								
Boom angle (°)	Offset 5° Working radius (m)	Load (ton)	Offset 25° Working radius (m)	Load (ton)	Offset 45° Working radius (m)	Load (ton)	Offset 60° Working radius (m)	Load (ton)	Boom angle (°)	Offset 5° Working radius (m)	Load (ton)	Offset 25° Working radius (m)	Load (ton)	Offset 45° Working radius (m)	Load (ton)	Offset 60° 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							
52	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								